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NAS CECIL FIELD, FL
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"SOURCE REMOVAL REPORT FOR EXCAVATION OF BENZO(A)PYRENE, PESTICIDE AND POLYCHLORINATED BIPHENYL-CONTAMINATED SOIL AT SITE 25 FORMER TRANSFORMER STORAGE YARD NAS CECIL FIELD FL"
9/1/2002
CH2MHILL CONSTRUCTORS INC

Source Removal Report

Excavation of Benzo(a)pyrene, Pesticide, and PCB Contaminated Soil at Site 25 Former Transformer Storage Yard (Buildings 101 and 247)

Naval Air Station Cecil Field Jacksonville, Florida

Revision No. 01

Unit Identification Code: N65928

Contract Task Order No. 0005
Contract No. N62467-98-D-0995

Prepared by

CH2MHILL
Constructors, Inc.

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

Submitted to

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

September 2002

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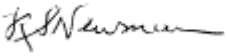
Prepared/Approved By:

Paul G. Malewicki, Project Manager — *September 31, 2002* Date

Approved By:



R. Scott Newman, Program Manager — *November 22, 2002* Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

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CERTIFICATION OF TECHNICAL DATA CONFORMITY (AUGUST 2002)

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-98-D-0995, CTO No. 0005 is complete and accurate and complies with all requirements of this contract.

DATE: 31 Sep 2002

NAME AND TITLE OF CERTIFYING OFFICIAL: Paul G. Malewicki
Project Manager

CH2MHILL
Constructors, Inc.

Certificate of Completion

CH2M Hill Constructors, Inc., attests that, to the best of its knowledge and belief, the Source Removal for the Excavation of Benzo(a)pyrene, Pesticide, and PCB-Contaminated Soil at Site 25, Former Transformer Storage Yard, delivered under Contract No. N62467-98-D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order (CTO) No. 0005 has been completed, inspected, and tested and is in compliance with the contract.

Project QC Manager

02 OCT 02
Date

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Acronyms

bls	below land surface
BRAC	Base Realignment and Closure
CCI	CCI CH2M HILL Constructors, Inc.
CTO	Contract Task Order
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	Flame Ionization Detector
FL-PRO	Florida Petroleum Residual Organic
HDPE	high density polyethylene
HLA	Harding Lawson Associates
J.A. Jones	J.A. Jones Environmental Services
mg/kg	milligrams per kilogram
mil	millimeter
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
OVA	organic vapor analyzer
OWS	oil/water separator
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
ppm	parts per million
PSC	Potential Source of Contamination
SCTL	Soil Cleanup Target Level
TRPH	total recoverable petroleum hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
USEPA	U.S. Environmental Protection Agency

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division, Naval Facilities Engineering Command (NAVFAC) to perform excavation, transportation, and disposal of contaminated soils and prepare a Source Removal Report for Potential Source of Contamination (PSC) 25, Former Transfer Storage Yard (Buildings 101 and 247) at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The source removal was conducted in accordance with the specifications outlined in the Removal Action Design Package for Site 25 at Naval Air Station Cecil Field dated September 8, 2000, prepared by Tetra Tech NUS, Inc. (TtNUS).

The scope of services for excavation of contaminated soils at Site 25 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998) and Work Plan Addendum No. 11, Excavation of Arsenic, Pesticides, polychlorinated biphenyls (PCB)- and/or Petroleum-Contaminated Soil from Various Grey Sites (CCI, December 2000). This work was authorized under Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0005.

1.1 Site Background

Site 25, referred to as the Former Transformer Storage Yard, (formally PSC 25), consists of Buildings 101 and 247, and the area in the vicinity of the two buildings. The site is located in the Transportation and Fuel Management Compound/Public Works Maintenance area north of the former 9th Street and east of the former D Avenue. The site itself is due North of Building 81. The site location is shown on Figure 1-1.

The site is primarily unpaved and covers about 0.6 acres of land area. Building 100 forms the north border of the site and the access roads around Building 81 form the east and south borders of the site. The fence between the Transportation and Fuel Management Compound and Public Works Contractor area forms the west border of the site. An abandoned wash rack and a 1,000-gallon oil/water separator (OWS) are located in the western portion of the area. The OWS was used in support of water treatment from associated wash rack activities (TtNUS, 2000).

The buildings in the immediate area of the site have always been associated with the Public Works Center. Building 81, the main building in the area, was constructed in 1953. Building 100 was constructed in 1961. Building 247 in the area was constructed in 1956 for use as pesticide storage. Pesticide storage in Building 247 ceased in 1975 after the construction of Building 101 was completed that same year. Building 247 was most recently used for storage of fluorescent light tubes. Building 101 served as an office and insecticide storage building for the pest control subcontractor (TtNUS, 2000) The layout of Site 25 is shown on Figure 1-2.

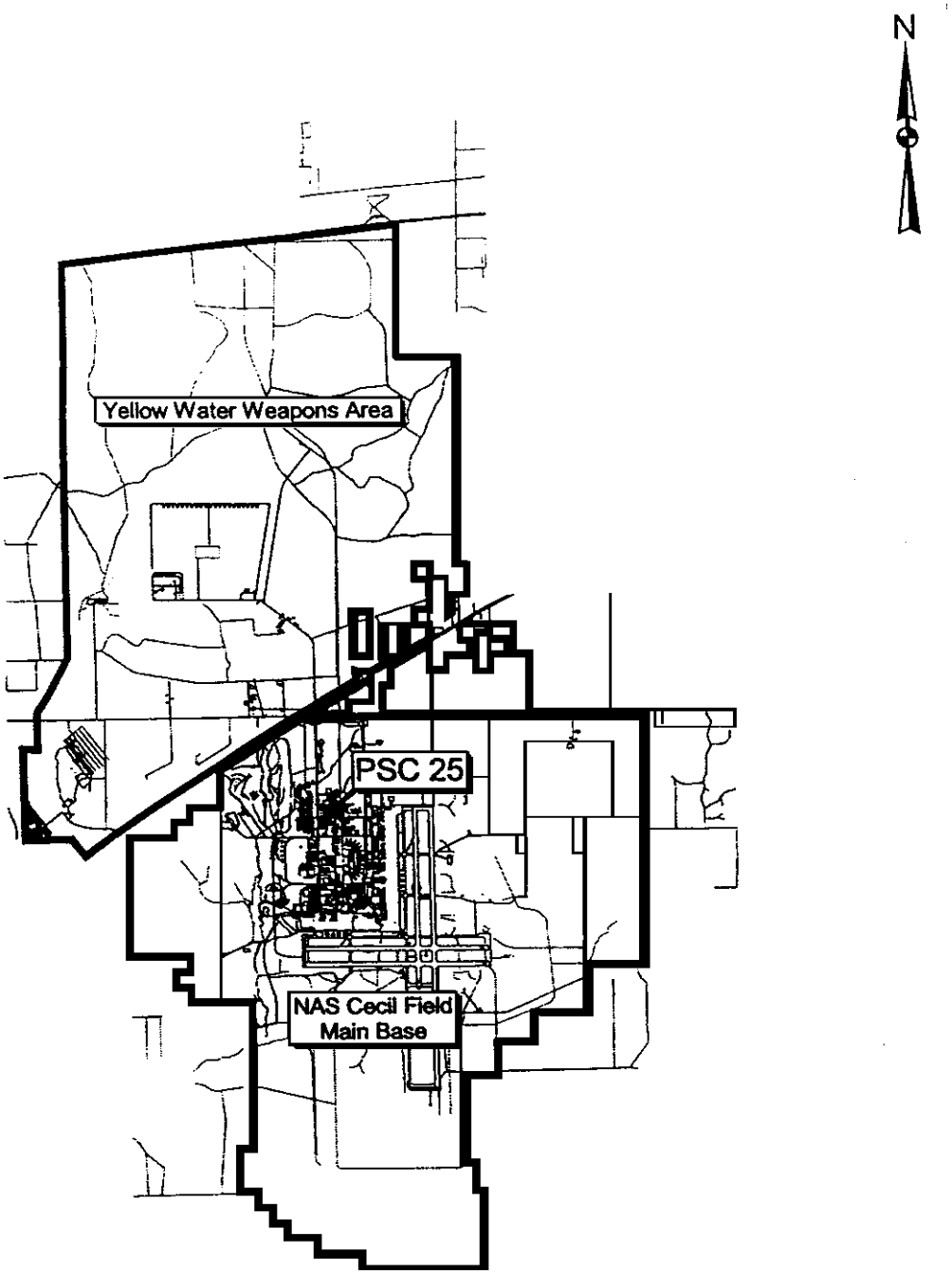

Figure 1-1
Site Location Map
Site 25, Former Transformer Storage Area
Naval Air Station Cecil Field
Jacksonville, Florida

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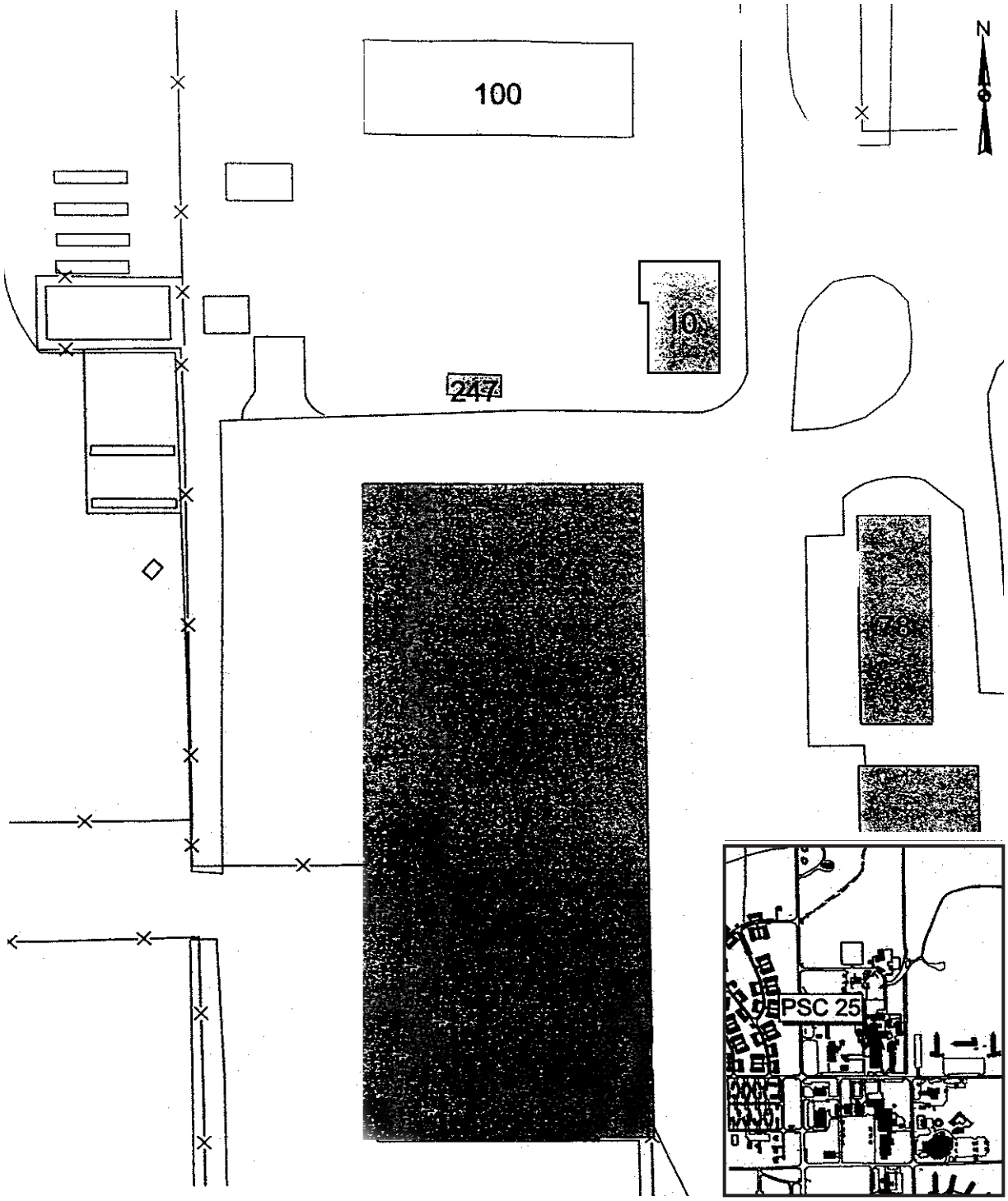

Figure 1-2
Pre-Excavation Conditions
Site 25, Former Transformer Storage Area
Naval Air Station Cecil Field
Jacksonville, Florida

CH2MHILL

A012000010ATL\Figure1-2.FH8

1.2 Project Objectives

The primary objective of the remedial action was to remove contaminated soils to the horizontal excavation limits and varying vertical excavation limits ranging from 1 foot below ground surface (bls) to the water table (TtNUS, 2000). Soil was to be excavated to the specified excavation limits, and then the excavated area backfilled with clean fill material imported from offsite.

In addition, one 1,000-thousand gallon OWS was to be removed from service, excavated, and closed as a used oil tank per Chapter 62-762 Florida Administrative Code (FAC).

2.0 Source Removal Activities

A source removal was conducted at Site 25 during the period of April 23 through May 25, 2001, during which a total of 5,136 tons of non-hazardous petroleum, pesticide, and/or polychlorinated biphenyl (PCB) contaminated soil, and 98 tons of hazardous pesticide contaminated soil were excavated. The excavation was divided into 10 separate areas within PSC 25. The excavated quantity of non-hazardous contaminated soil exceeded the estimated volume of 1,852.5 tons, due to the discovery and removal of additional contamination during source removal activities. Photographs showing the site before, during, and after the source removal are presented in Appendix A of this document.

2.1 Site Preparation

In preparation for excavation, utility locations were conducted by Sunshine State One-Call of Florida and J.A. Jones Management Services, the facilities maintenance contractor. No underground utilities were found within the excavation area.

2.2 Soil Excavation and Disposal

2.2.1 Soil Excavation

All soil was excavated using a hydraulic track excavator and were stockpiled on a 10-millimeter (mil) high-density polyethylene (HDPE) liner. The soil stockpiles were covered with 10-mil liner material during periods of non-activity on the site. The soil was ultimately transported for offsite disposal to appropriate facilities (see Section 2.2.2). Based on the facility weight tickets, 5,136.16 tons of non-hazardous soil and 98 tons of hazardous soil were excavated from Site 25 and disposed of offsite.

Original Excavation

Soil was initially excavated to the proposed horizontal and vertical excavation limits specified in the Removal Action Design Package for Site 25, Former Transformer Storage Yard (Buildings 101 and 247) (TtNUS, 2000). A total of approximately 1,744.5 tons of petroleum, pesticide, and/or PCB contaminated soil and 98 tons of hazardous pesticide contaminated soil were excavated from the originally specified area.

Oil/Water Separator and Associated Soil Removal

One 1,000-gallon OWS was removed from service during the source removal. The OWS and associated piping were pumped free of all liquid waste, purged with dry ice, and torch-cut into scrap pieces that were recycled at a local reclaimer. Approximately 700 gallons of liquid waste and 100 gallons of sludge waste were removed from the OWS, temporarily stored onsite, characterized, and profiled prior to being disposed offsite. The liquid from the

OWS was characterized as non-hazardous and the sludge waste was profiled as a hazardous waste due to its elevated flash point. The disposal manifests and certificate of disposal for the liquid waste is provided in Appendices B and C, respectively. The manifests for the disposal of the sludge are provided in Appendix B and the Certificate of Disposal is on file

at the Public Work Center at Naval Air Station Jacksonville. The analytical reports for the waste characterization analyses are provided in Appendix D.

Subsequent to OWS removal, free product sheen, soil staining, and petroleum odors were noted in the excavation beneath and adjacent to the former OWS location. A total of 51 soil borings were advanced at the site to delineate the lateral and vertical extent of petroleum contamination. Soil samples were collected from each boring at 2-foot intervals to the water table and field analyzed using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID). The results from the OVA analyses are summarized in Table 2-1 and the locations of the soil borings are shown on the Soil Excavation Boundary Map provided in Appendix E.

Based upon the results from the OVA analyses, the excavation was expanded to remove soil exhibiting an OVA concentration greater than 50 parts per million (ppm), and an additional 3,166.5 tons additional soil were removed. Subsequent to excavation activities, a total of 10 confirmatory samples were collected from the walls of the expanded excavation for analyses for volatile organic compounds, semi-volatile organic compounds, pesticides, PCBs, total metals, and total recoverable petroleum hydrocarbon (TRPH) by U.S. Environmental Protection Agency (USEPA) Methods 8260B, 8270C, 8081A, 8082, 6010B, 6020A, 7471 A, and the Florida Petroleum Residual Organic (FL-PRO) Method. With the exception of arsenic at sample location CS-7, all concentrations were below the residential and leachability Soil Cleanup Target Levels (SCTLs) per Chapter 62-777 FAC. The concentration of arsenic at CS-7 (0.986 milligrams per kilogram [mg/kg]) was below the "hi-cut" concentration of 2.04 mg/kg that the NAS Cecil Field partnering team agreed to use as the sentinel arsenic concentration to trigger further investigation/remediation at Base Closure and Realignment (BRAC) sites (Harding Lawson Associates [HLA], 1998). The results from the confirmatory sample analyses are summarized in Table 2-2 and the sample locations are shown on the Soil Excavation Boundary Map provided in Appendix E. A copy of the analytical report is provided in Appendix F.

Approximately 500 gallons of free product/contact groundwater was skimmed during the source removal using a vacuum pump and temporarily stored onsite, characterized, and profiled prior to being disposed offsite. The liquid waste was profiled as a hazardous waste due to the presence of pesticides. The manifests for the disposal of the liquid waste are provided in Appendix B, and the Certificate of Disposal is on file at the Public Work Center at Naval Air Station Jacksonville. The analytical reports for the waste characterization analyses are provided in Appendix D.

Excavation of Soil Stains in Areas 4 and 5

Subsequent to performing the excavation in Areas 4 and 5 several circular stains were noted in the bottom of the excavation. CCI/J.A. Jones was directed by the Navy to remove an additional 18 inches of soil from a 20 feet by 135 feet area within Areas 4 and 5 to abate the stained areas prior to sampling and analysis. The specified area was subsequently over excavated as directed by the Navy and a total of approximately 225 tons of additional contaminated soil was removed. The excavated area is shown in on the Soil Excavation Boundary Map provided in Appendix E, and a photo of the stained area is provided in Appendix A.

TABLE 2-1
OVA Data

Location	Date	Depth (feet)	Unfiltered OVA (ppm)	Filtered OVA (ppm)	Net (ppm)
1	5/3/01	2	428	61	367
		4	56	23	33
2	5/3/01	2	57	10	47
		4	477	17	460
3	5/3/01	2	NM	NM	NM
		4	NM	NM	NM
4	5/3/01	2	NM	NM	NM
		4	NM	NM	NM
5	5/3/01	2	1301	35	1266
		4	2410	435	1975
6	5/3/01	2	696	10	686
		4	409	13	396
7	5/3/01	2	1307	13	1294
		4	1386	13	1373
8	5/3/01	2	408	51	357
		4	1548	21	1527
9	5/3/01	2	402	48	354
		4	450	20	430
10	5/3/01	2	243	16	227
		4	442	20	422
11	5/3/01	2	28	18	10
		4	128	106	22
12	5/3/01	3.5	145	36	109
13	5/3/01	2	1907	15	1892
		4	2450	80	2370
		6	3091	1912	1179
		7	5967	2748	3219
14	5/3/01	3.5	62	10	52
		4	NM	NM	NM
15	5/3/01	2	1470	9	1461
		4	2248	16	2232
		6	3111	859	2252
		7	3832	1420	2412
16	5/3/01	2	1776	25	1751
		4	2961	51	2910
		6	4051	1504	2547
		7	6950	1660	5290
17	5/4/01	3	47	10	37
		6	255	20	235
		7	11	6	5
18	5/4/01	3	12	11	1
		5	1656	220	1436
		7	1065	295	770
19	5/4/01	3	8	11	-3
		5	211	5	206
		7	131	15	116
20	5/4/01	3	34	8	26
		5	39	34	5
		7	5	4	1
21	5/4/01	3	9	13	-4
		5	1093	148	945
		7	838	75	763
22	5/4/01	5	1202	582	620
		7	1230	575	655

TABLE 2-1
OVA Data

Location	Date	Depth (feet)	Unfiltered OVA (ppm)	Filtered OVA (ppm)	Net (ppm)
23	5/4/01	5	5860	3810	2050
		7	2101	891	1210
24	5/4/01	3	2329	145	2184
		5	4310	286	4024
		7	2883	1151	1732
25	5/4/01	3	2	1	1
		5	3	1	2
		7	2	1	1
26	5/4/01	3	3	1	2
		5	402	3	399
		7	42	10	32
27	5/4/01	3	2	1	1
		5	2	1	1
		7	1	0	1
28	5/4/01	3	1	0	1
		5	1	0	1
		7	1	0	1
29	5/4/01	3	385		385
		5	797		797
		7	28		28
30	5/4/01	3	1568	238	1330
		5	2546	384	2162
		7	148	20	128
31	5/4/01	3	13	8	5
		5	17	13	4
		7	6	0	6
32	5/7/01	3	1257	111	1146
		5	2352	386	1966
		7	2460	430	2030
33	5/7/01	3	1997	117	1880
		5	1980	131	1849
		7	3460	640	2820
34	5/7/01	3	5	2	3
		5	12	5	7
		7	2	1	1
35	5/7/01	3	2	1	1
		5	2	2	0
		7	3	2	1
36	5/7/01	3	204	35	169
		5	108	34	74
		7	45	22	23
37	5/7/01	3	11	2	9
		5	9	10	-1
		7	8	12	-4
38	5/7/01	3	8	14	-6
		5	605	26	579
		7	569	118	451
39	5/7/01	3	485	59	426
		5	952	65	887
		7	2520		2520
40	5/7/01	3	268	32	236
		5	2260	570	1690
		7	434	42	392
41	5/8/01	2	4	0	4

TABLE 2-1
OVA Data

Location	Date	Depth (feet)	Unfiltered OVA (ppm)	Filtered OVA (ppm)	Net (ppm)
42	5/8/01	3	2	0	2
		5	107	70	37
		7	70	48	22
43	5/8/01	3	12	6	6
		5	38	12	26
		7	9	6	3
44	5/8/01	3	5	0	5
		5	3	0	3
		7	3	0	3
45	5/8/01	3	4	0	4
		5	1282	107	1175
		7	1310	134	1176
46	5/8/01	5	6	0	6
		7	8	0	8
47	5/8/01	3	7	0	7
		5	6	0	6
		7	6	0	6
48	5/8/01	3	2	0	2
		5	3	0	3
		7	2	0	2
49	5/8/01	3	1	0	1
		5	1	0	1
		7	2	0	2
50	5/8/01	3	2	0	2
		5	2	0	2
		7	NM	NM	NM
51	5/8/01	3	53	12	41
		5	19	5	14
		7	29	4	25

= Gray (50-300 ppm)
=Contaminated (>300 ppm)
=Clean (<50 ppm)

TABLE 2-2
Confirmation Sample Results

Contaminants	Sample ID										SCTL	
	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	CS-10	Residential	Leachability
Naphthalene	ND	ND	0.00057	ND	ND	ND	ND	0.0009	ND	ND	40	1.7
Styrene	ND	ND	2	ND	ND	ND	ND	ND	0.0021	ND	2700	3.6
Fluoranthene	ND	ND	0.0068	ND	ND	ND	ND	ND	ND	ND	2900	1200
Phenanthrene	ND	ND	0.0065	ND	ND	0.046	ND	ND	ND	ND	2000	250
Pyrene	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	2200	880
4,4'-DDT	ND	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	3.3	11
TRPH (FL-PRO)	11	10	9.3	8.5	10	260	7.3	7.8	7.7	19	340	340
Aluminum	12	19	16	25	15	2.6	23	790	1400	2200	72000	NA
Barium	0.016	0.0097	0.011	0.0099	0.011	0.02	0.0097	0.98	1.2	2.6	110	1600
Beryllium	0.000066	0.000042	0.000047	0.00043	0.000045	0.000072	0.000057	ND	0.0087	0.014	120	63
Cadmium	ND	ND	0.000065	ND	ND	0.000044	ND	ND	ND	ND	75	8
Calcium	0.43	0.95	0.89	0.26	0.69	0.62	0.53	180	71	260	NA	NA
Chromium	0.0083	0.02	0.011	0.021	0.011	0.016	0.022	1.7	1.4	2.6	210	38
Cobalt	0.0011	0.00049	0.00045	0.00057	0.0006	0.00067	0.00075	ND	0.098	0.12	4700	NA
Copper	0.00038	ND	ND	ND	0.0004	0.00037	0.00075	ND	ND	ND	110	NA
Iron	2.100	1.400	1.000	1.600	3.100	1.600	8.6	110	190	230	23000	NA
Magnesium	0.29	0.25	0.25	0.19	0.2	0.25	0.15	21	35	64	NA	NA
Manganese	0.0051	0.0011	0.0013	0.0016	0.0021	0.0032	0.00093	2.2	1.3	2.7	1600	NA
Nickel	0.0046	0.0035	0.0035	0.0045	0.0033	0.0047	0.0037	0.48	0.68	0.84	110	130
Potassium	0.14	2.9	0.11	0.087	0.12	0.15	0.095	8.7	19	31	NA	NA
Selenium	0.0015	0.055	0.0013	0.0018	0.0013	0.0018	0.0039	ND	0.37	0.36	390	5
Silver	0.00015	0.011	0.000126	ND	ND	ND	ND	ND	ND	ND	390	17
Sodium	0.015	2.8	0.0078	0.015	0.0067	0.007	0.008	2.3	3.7	9.3	NA	NA
Thallium	0.000458	0.055	0.000424	ND	ND	ND	ND	ND	ND	ND	NA	NA
Vanadium	0.01	0.074	0.0062	0.02	0.01	0.01	0.051	0.51	1.1	1	15	980
Zinc	0.0013	0.058	0.0014	0.0012	0.0017	0.0026	0.00072	ND	ND	0.64	23000	6000
Arsenic	0.459	0.316	0.305	0.305	0.466	ND	0.986	ND	ND	ND	0.8	29
Lead	7.2	4.76	7.02	6.48	5.27	3.33	5.89	0.741	0.713	1.35	400	NA
Mercury	ND	ND	ND	ND	ND	0.032	0.027	ND	ND	ND	3.4	2

All concentrations are reported in milligrams per kilogram (mg/kg).
Only detected constituents are listed.
NA = not applicable
ND = not detected

2.2.2 Soil Transportation and Disposal

Composite soil samples from a total of ten separate areas of the site were collected and analyzed for waste characterization prior to beginning excavation, as shown on the Soil Excavation Boundary Map provided in Appendix E. The waste characterization analytical reports are included in Appendix D. The waste in each area was profiled as hazardous or non-hazardous based upon USEPA and Florida Department of Environmental Protection (FDEP) approved decisions for the site. USEAP and FDEP determined that waste exceeding industrial Soil Contamination Target Levels (SCTLs) per Chapter 62-777 FAC would be managed as listed hazardous waste and waste exhibiting concentrations below industrial SCTLs would be managed as non-hazardous. Based upon waste characterization results, Area 10 was the only area that was profiled as a hazardous waste. Copies of the USEPA and FDEP approval letters detailing this methodology are provided in Appendix G.

Following waste characterization and profiling, the non-hazardous soil was transported offsite by trucks to the Broadhurst Landfill in Jessup, Georgia and the hazardous soil was transported for offsite disposal at Onyx Environmental Services LLC located in Sauget, Illinois. The manifests are summarized in Table 2-3. Copies of the manifests and of the certificate of disposal are presented in Appendices B and C, respectively.

2.2.3 Backfilling and Site Restoration

The certified clean material used to backfill the Site 25 excavation was taken from Coxwell's Crystal Springs Pit. It was delivered to the site by Spencer Contracting, Inc. The analytical reports showing that the material was clean fill are presented in Appendix H.

Once the excavation area was backfilled, the site was graded and seeded with a mixture of Bahia and rye grass. A layer of straw was applied to help prevent wind and water erosion.

TABLE 2-3
Summary of Manifests for Soil Disposal

Transporter- Trucking Company	Date Transported	Truck Number	Load No.	Manifest Number	Disposal Date	Disposal Facility	Disp Fac Scale Tare Wt (lb)	Disp Fac Scale Gross wt (lbs)	Disp Fac Scale Net wt (tons)
Hazardous Waste									
Robbie D. Wood	05/24/01	RW177	1	MI8522 792	5/25/01	Wayne Disposal Site 2 Landfill	32620	76840	22.1
Robbie D. Wood	05/24/01	RW134	2	MI8522 793	5/25/01	Wayne Disposal Site 2 Landfill	32940	78260	22.66
Robbie D. Wood	05/24/01	RW133	3	MI8522 794	5/25/01	Wayne Disposal Site 2 Landfill	31380	77260	22.94
Robbie D. Wood	05/24/01	RW198	4	MI8522 795	5/25/01	Wayne Disposal Site 2 Landfill	31680	65420	16.87
Robbie D. Wood	05/24/01	RW129	5	MI8522 796	5/25/01	Wayne Disposal Site 2 Landfill	33480	60660	13.59
Non-Hazardous Waste									
Beaver Bulk Inc.	04/27/01	100	1	14125	04/30/01	Broadhurst Envr. Inc.	28040	77100	24.53
Beaver Bulk Inc.	04/27/01	L128	2	14126	04/27/01	Broadhurst Envr. Inc.	27340	80960	26.81
Beaver Bulk Inc.	04/27/01	L184	3	14127	04/27/01	Broadhurst Envr. Inc.	29620	77780	24.08
Beaver Bulk Inc.	04/27/01	L16	4	14128	04/27/01	Broadhurst Envr. Inc.	27120	80500	26.69
Beaver Bulk Inc.	04/27/01	L168	5	14129	04/27/01	Broadhurst Envr. Inc.	28180	81680	26.75
Beaver Bulk Inc.	05/04/01	L200	6	14130	05/04/01	Broadhurst Envr. Inc.	29220	80940	25.86
Beaver Bulk Inc.	05/04/01	L104	7	14131	05/04/01	Broadhurst Envr. Inc.	28640	81020	26.19
Beaver Bulk Inc.	05/04/01	L204	8	14132	05/04/01	Broadhurst Envr. Inc.	30940	80800	24.93
Beaver Bulk Inc.	05/04/01	L168	9	14133	05/04/01	Broadhurst Envr. Inc.	29680	80720	25.52
Beaver Bulk Inc.	05/04/01	L128	10	14134	05/04/01	Broadhurst Envr. Inc.	27340	80480	26.57
Beaver Bulk Inc.	05/04/01	L212	11	14135	05/04/01	Broadhurst Envr. Inc.	29840	80300	25.23
Beaver Bulk Inc.	05/04/01	L162	12	14136	05/04/01	Broadhurst Envr. Inc.	26560	78480	25.96
Beaver Bulk Inc.	05/04/01	L152	13	14137	05/04/01	Broadhurst Envr. Inc.	30300	79940	24.82
Beaver Bulk Inc.	05/04/01	L16	14	14138	05/04/01	Broadhurst Envr. Inc.	27120	80220	26.55
Beaver Bulk Inc.	05/04/01	L184	15	14139	05/04/01	Broadhurst Envr. Inc.	29720	79480	24.88
Beaver Bulk Inc.	05/04/01	L110	16	14140	05/04/01	Broadhurst Envr. Inc.	29340	79640	25.15
Beaver Bulk Inc.	05/04/01	L110	17	14141	05/04/01	Broadhurst Envr. Inc.	31020	76680	22.83
Beaver Bulk Inc.	05/04/01	L182	18	14142	05/04/01	Broadhurst Envr. Inc.	27200	75080	23.94
Beaver Bulk Inc.	05/04/01	L136	19	14143	05/04/01	Broadhurst Envr. Inc.	31640	81140	24.75
Beaver Bulk Inc.	05/04/01	L208	20	14144	05/04/01	Broadhurst Envr. Inc.	30040	78120	24.04
Beaver Bulk Inc.	05/04/01	L120	21	14145	05/04/01	Broadhurst Envr. Inc.	29280	81820	26.27
Beaver Bulk Inc.	05/04/01	L214	22	14146	05/04/01	Broadhurst Envr. Inc.	31264	81420	25.08
Beaver Bulk Inc.	05/07/01	108	23	14147	05/07/01	Broadhurst Envr. Inc.	25140	72980	23.92
Beaver Bulk Inc.	05/07/01	109	24	14148	05/07/01	Broadhurst Envr. Inc.	28780	37280	4.25
Beaver Bulk Inc.	05/07/01	100	25	14149	05/07/01	Broadhurst Envr. Inc.	27060	77000	24.97
Beaver Bulk Inc.	05/07/01	107	26	14150	05/07/01	Broadhurst Envr. Inc.	28780	79960	25.59
Beaver Bulk Inc.	05/07/01	102	27	14151	05/07/01	Broadhurst Envr. Inc.	28260	74180	22.96
Beaver Bulk Inc.	05/07/01	109	28	14152	05/07/01	Broadhurst Envr. Inc.	28780	80320	25.77
Beaver Bulk Inc.	05/07/01	101	29	14153	05/07/01	Broadhurst Envr. Inc.	28260	80440	26.09
Beaver Bulk Inc.	05/07/01	L212	30	14154	05/07/01	Broadhurst Envr. Inc.	29060	76840	23.89
Beaver Bulk Inc.	05/07/01	L214	31	14155	05/07/01	Broadhurst Envr. Inc.	31264	81300	25.02
Beaver Bulk Inc.	05/07/01	L184	32	14156	05/07/01	Broadhurst Envr. Inc.	29720	78320	24.30
Beaver Bulk Inc.	05/07/01	L224	33	14157	05/07/01	Broadhurst Envr. Inc.	29360	74260	22.45
Beaver Bulk Inc.	05/07/01	L200	34	14158	05/07/01	Broadhurst Envr. Inc.	29220	81900	26.34
Beaver Bulk Inc.	05/07/01	L198	35	14159	05/07/01	Broadhurst Envr. Inc.	30000	82900	26.45
Beaver Bulk Inc.	05/07/01	228	36	14160	05/07/01	Broadhurst Envr. Inc.	31200	81520	25.16
Beaver Bulk Inc.	05/07/01	L204	37	14161	05/07/01	Broadhurst Envr. Inc.	30940	80580	24.82
Beaver Bulk Inc.	05/07/01	L152	38	14162	05/07/01	Broadhurst Envr. Inc.	30300	78780	24.24
Beaver Bulk Inc.	05/07/01	L162	39	14163	05/07/01	Broadhurst Envr. Inc.	26560	76920	25.18
Beaver Bulk Inc.	05/07/01	L208	40	14164	05/07/01	Broadhurst Envr. Inc.	30040	79560	24.76
Beaver Bulk Inc.	05/07/01	L140	41	14165	05/07/01	Broadhurst Envr. Inc.	29200	79060	24.93
Beaver Bulk Inc.	05/07/01	L136	42	14166	05/07/01	Broadhurst Envr. Inc.	31640	79080	23.72
Beaver Bulk Inc.	05/07/01	9706	43	14167	05/07/01	Broadhurst Envr. Inc.	27280	81220	26.97
Beaver Bulk Inc.	05/07/01	9302	44	14168	05/07/01	Broadhurst Envr. Inc.	29240	78220	24.49

TABLE 2-3
Summary of Manifests for Soil Disposal

Transporter- Trucking Company	Date Transported	Truck Number	Load No.	Manifest Number	Disposal Date	Disposal Facility	Disp Fac Scale Tare Wt (lb)	Disp Fac Scale Gross wt (lbs)	Disp Fac Scale Net wt (tons)
Beaver Bulk Inc.	05/07/01	L118	45	14169	05/07/01	Broadhurst Envr. Inc.	31020	78780	23.88
Beaver Bulk Inc.	05/07/01	L134	46	14170	05/07/01	Broadhurst Envr. Inc.	31600	82420	25.41
Beaver Bulk Inc.	05/07/01	NR	47	14171	05/07/01	Broadhurst Envr. Inc.	29660	80440	25.39
Beaver Bulk Inc.	05/07/01	9308	48	14172	05/07/01	Broadhurst Envr. Inc.	28620	77240	24.31
Beaver Bulk Inc.	05/07/01	L184	49	14173	05/07/01	Broadhurst Envr. Inc.	29720	78880	24.58
Beaver Bulk Inc.	05/07/01	L212	50	14175	05/07/01	Broadhurst Envr. Inc.	29060	81640	26.29
Beaver Bulk Inc.	05/07/01	9704	51	14176	05/07/01	Broadhurst Envr. Inc.	28900	77260	24.18
Beaver Bulk Inc.	05/07/01	L200	52	14177	05/07/01	Broadhurst Envr. Inc.	29220	78180	24.48
Beaver Bulk Inc.	05/07/01	L214	53	14178	05/07/01	Broadhurst Envr. Inc.	31264	81860	25.30
Beaver Bulk Inc.	05/07/01	L224	54	14179	05/07/01	Broadhurst Envr. Inc.	29360	76660	23.65
Beaver Bulk Inc.	05/07/01	9708	55	14180	05/07/01	Broadhurst Envr. Inc.	27400	79400	26.00
Beaver Bulk Inc.	05/07/01	0002	56	14181	05/07/01	Broadhurst Envr. Inc.	28500	77740	24.62
Beaver Bulk Inc.	05/07/01	228	57	14182	05/07/01	Broadhurst Envr. Inc.	31200	80180	24.49
Beaver Bulk Inc.	05/07/01	L204	58	14183	05/07/01	Broadhurst Envr. Inc.	30940	80700	24.88
Beaver Bulk Inc.	05/07/01	L198	59	14184	05/07/01	Broadhurst Envr. Inc.	30000	78000	24.00
Beaver Bulk Inc.	05/07/01	BK107	60	14185	05/08/01	Broadhurst Envr. Inc.	28780	79580	25.40
Beaver Bulk Inc.	05/07/01	109	61	14186	05/08/01	Broadhurst Envr. Inc.	28680	78500	24.91
Beaver Bulk Inc.	05/07/01	108	62	14187	05/08/01	Broadhurst Envr. Inc.	25140	72860	23.86
Beaver Bulk Inc.	05/09/01	L136	63	14188	05/09/01	Broadhurst Envr. Inc.	31640	74460	21.41
Beaver Bulk Inc.	05/09/01	L184	64	14189	05/09/01	Broadhurst Envr. Inc.	29720	77080	23.68
Beaver Bulk Inc.	05/09/01	L134	65	14190	05/09/01	Broadhurst Envr. Inc.	31600	72220	20.31
Beaver Bulk Inc.	05/10/01	0004	66	14191	05/10/01	Broadhurst Envr. Inc.	27680	77040	24.68
Beaver Bulk Inc.	05/10/01	0010	67	14192	05/10/01	Broadhurst Envr. Inc.	27940	81240	26.65
Beaver Bulk Inc.	05/10/01	9706	68	14193	05/10/01	Broadhurst Envr. Inc.	27280	80420	26.57
Beaver Bulk Inc.	05/10/01	L0010	69	14194	05/10/01	Broadhurst Envr. Inc.	27940	84920	28.49
Beaver Bulk Inc.	05/10/01	NR	70	14195	05/10/01	Broadhurst Envr. Inc.	29860	75560	22.85
Beaver Bulk Inc.	05/16/01	L110	71	14196	05/16/01	Broadhurst Envr. Inc.	29340	80980	25.82
Beaver Bulk Inc.	05/16/01	L182	72	14197	05/16/01	Broadhurst Envr. Inc.	27200	77540	25.17
Beaver Bulk Inc.	05/16/01	NR	73	14198	05/16/01	Broadhurst Envr. Inc.	28120	83140	27.51
Beaver Bulk Inc.	05/16/01	L170	74	14199	05/16/01	Broadhurst Envr. Inc.	29940	82880	26.47
Beaver Bulk Inc.	05/16/01	NR	75	14200	05/16/01	Broadhurst Envr. Inc.	27780	82280	27.25
Beaver Bulk Inc.	05/16/01	128	76	14202	05/16/01	Broadhurst Envr. Inc.	27340	80100	26.38
Beaver Bulk Inc.	05/16/01	L16	77	14203	05/16/01	Broadhurst Envr. Inc.	27120	79240	26.06
Beaver Bulk Inc.	05/16/01	L212	78	14204	05/16/01	Broadhurst Envr. Inc.	29060	78800	24.87
Beaver Bulk Inc.	05/16/01	L214	79	14205	05/16/01	Broadhurst Envr. Inc.	31264	75040	21.89
Beaver Bulk Inc.	05/16/01	L204	80	14206	05/16/01	Broadhurst Envr. Inc.	30940	78720	23.89
Beaver Bulk Inc.	05/16/01	L200	81	14207	05/16/01	Broadhurst Envr. Inc.	29220	80300	25.54
Beaver Bulk Inc.	05/16/01	L225	82	14208	05/16/01	Broadhurst Envr. Inc.	28560	79260	25.35
Beaver Bulk Inc.	05/16/01	L134	83	14209	05/16/01	Broadhurst Envr. Inc.	28920	80980	26.03
Beaver Bulk Inc.	05/16/01	L194	84	14210	05/16/01	Broadhurst Envr. Inc.	28960	80160	25.60
Beaver Bulk Inc.	05/16/01	NR	85	14211	05/16/01	Broadhurst Envr. Inc.	28960	83120	27.08
Beaver Bulk Inc.	05/16/01	NR	86	14212	05/16/01	Broadhurst Envr. Inc.	28820	80060	25.62
Beaver Bulk Inc.	05/16/01	L152	87	14213	05/16/01	Broadhurst Envr. Inc.	29560	78180	24.31
Beaver Bulk Inc.	05/16/01	L208	88	14214	05/16/01	Broadhurst Envr. Inc.	30040	78720	24.34
Beaver Bulk Inc.	05/16/01	L184	89	14215	05/16/01	Broadhurst Envr. Inc.	29620	80800	25.59
Beaver Bulk Inc.	05/16/01	L162	90	14216	05/16/01	Broadhurst Envr. Inc.	26560	75700	24.57
Beaver Bulk Inc.	05/16/01	9316	91	14217	05/16/01	Broadhurst Envr. Inc.	29450	79920	25.23
Beaver Bulk Inc.	05/16/01	9702	92	14218	05/16/01	Broadhurst Envr. Inc.	28560	81220	26.33
Beaver Bulk Inc.	05/16/01	0004	93	14219	05/16/01	Broadhurst Envr. Inc.	27680	79740	26.03
Beaver Bulk Inc.	05/16/01	0010	94	14220	05/16/01	Broadhurst Envr. Inc.	27940	75840	23.95
Beaver Bulk Inc.	05/16/01	L168	95	14221	05/16/01	Broadhurst Envr. Inc.	28180	77480	24.65
Beaver Bulk Inc.	05/16/01	L179	96	14222	05/16/01	Broadhurst Envr. Inc.	29340	79760	25.21
Beaver Bulk Inc.	05/16/01	9706	97	14223	05/16/01	Broadhurst Envr. Inc.	27280	81700	27.21
Beaver Bulk Inc.	05/16/01	9704	98	14224	05/16/01	Broadhurst Envr. Inc.	28900	78880	24.99
Beaver Bulk Inc.	05/16/01	9308	99	14225	05/16/01	Broadhurst Envr. Inc.	28620	79960	25.67
Beaver Bulk Inc.	05/16/01	97081	100	14226	05/16/01	Broadhurst Envr. Inc.	27400	80040	26.32
Beaver Bulk Inc.	05/16/01	0008	101	14227	05/16/01	Broadhurst Envr. Inc.	28080	79840	25.88
Beaver Bulk Inc.	05/16/01	L224	102	14228	05/16/01	Broadhurst Envr. Inc.	28880	78120	24.62

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Transporter- Trucking Company	Date Transported	Truck Number	Load No.	Manifest Number	Disposal Date	Disposal Facility	Disp Fac Scale Tare Wt (lb)	Disp Fac Scale Gross wt (lbs)	Disp Fac Scale Net wt (tons)
Beaver Bulk Inc.	05/16/01	9402	103	14229	05/16/01	Broadhurst Envr.	28640	80080	25.72
Beaver Bulk Inc.	05/16/01	NR	104	14230	05/16/01	Broadhurst Envr.	28660	76780	24.06
Beaver Bulk Inc.	05/16/01	NR	105	14231	05/16/01	Broadhurst Envr.	28120	81100	26.49
Beaver Bulk Inc.	05/16/01	L230	106	14232	05/16/01	Broadhurst Envr. Inc.	27780	79080	25.65
Beaver Bulk Inc.	05/16/01	L170	107	14233	05/16/01	Broadhurst Envr. Inc.	29940	79120	24.59
Beaver Bulk Inc.	05/16/01	L110	108	14234	05/16/01	Broadhurst Envr. Inc.	28900	80500	25.80
Beaver Bulk Inc.	05/16/01	L182	109	14235	05/16/01	Broadhurst Envr. Inc.	27200	78000	25.40
Beaver Bulk Inc.	05/16/01	L212	110	14236	05/16/01	Broadhurst Envr. Inc.	29060	77620	24.28
Beaver Bulk Inc.	05/16/01	L128	111	14237	05/16/01	Broadhurst Envr. Inc.	27340	77440	25.05
Beaver Bulk Inc.	05/16/01	L16	112	14238	05/16/01	Broadhurst Envr. Inc.	27120	79580	26.23
Beaver Bulk Inc.	05/16/01	L214	113	14239	05/16/01	Broadhurst Envr. Inc.	31264	82320	25.53
Beaver Bulk Inc.	05/16/01	L204	114	14240	05/16/01	Broadhurst Envr. Inc.	30880	78820	23.97
Beaver Bulk Inc.	05/16/01	L200	115	14241	05/16/01	Broadhurst Envr. Inc.	29220	79500	25.14
Beaver Bulk Inc.	05/16/01	NR	116	14242	05/16/01	Broadhurst Envr. Inc.	28960	80000	25.52
Beaver Bulk Inc.	05/17/01	L182	117	14243	05/17/01	Broadhurst Envr. Inc.	27200	75960	24.38
Beaver Bulk Inc.	05/17/01	NR	118	14244	05/17/01	Broadhurst Envr. Inc.	28120	81080	26.48
Beaver Bulk Inc.	05/17/01	L110	119	14245	05/17/01	Broadhurst Envr. Inc.	28900	81080	26.09
Beaver Bulk Inc.	05/17/01	L170	120	14246	05/17/01	Broadhurst Envr. Inc.	29940	80740	25.40
Beaver Bulk Inc.	05/17/01	L224	121	14247	05/17/01	Broadhurst Envr. Inc.	28880	82840	26.98
Beaver Bulk Inc.	05/17/01	L212	122	14248	05/17/01	Broadhurst Envr. Inc.	29060	78940	24.94
Beaver Bulk Inc.	05/17/01	L128	123	14249	05/17/01	Broadhurst Envr. Inc.	27340	79640	26.15
Beaver Bulk Inc.	05/17/01	L16	124	14250	05/17/01	Broadhurst Envr. Inc.	27120	79700	26.29
Beaver Bulk Inc.	05/17/01	L168	125	14251	05/17/01	Broadhurst Envr. Inc.	28180	80680	26.25
Beaver Bulk Inc.	05/17/01	NR	126	14252	05/17/01	Broadhurst Envr. Inc.	27180	85120	28.97
Beaver Bulk Inc.	05/17/01	L208	127	14253	05/17/01	Broadhurst Envr. Inc.	30040	79280	24.62
Beaver Bulk Inc.	05/17/01	L152	128	14254	05/17/01	Broadhurst Envr. Inc.	29560	79420	24.93
Beaver Bulk Inc.	05/17/01	L162	129	14255	05/17/01	Broadhurst Envr. Inc.	26560	75660	24.55
Beaver Bulk Inc.	05/17/01	L214	130	14256	05/17/01	Broadhurst Envr. Inc.	31264	79520	24.13
Beaver Bulk Inc.	05/17/01	L134	131	14257	05/17/01	Broadhurst Envr. Inc.	28920	81660	26.37
Beaver Bulk Inc.	05/17/01	L136	132	14258	05/17/01	Broadhurst Envr. Inc.	31640	79740	24.05
Beaver Bulk Inc.	05/17/01	L184	133	14259	05/17/01	Broadhurst Envr. Inc.	29620	78820	24.60
Beaver Bulk Inc.	05/17/01	L204	134	14260	05/17/01	Broadhurst Envr. Inc.	30880	79300	24.21
Beaver Bulk Inc.	05/17/01	0010	135	14261	05/17/01	Broadhurst Envr. Inc.	27940	75960	24.01
Beaver Bulk Inc.	05/17/01	194	136	14262	05/17/01	Broadhurst Envr. Inc.	28960	79220	25.13
Beaver Bulk Inc.	05/17/01	L34	137	14263	05/17/01	Broadhurst Envr. Inc.	28820	80420	25.80
Beaver Bulk Inc.	05/17/01	L200	138	14264	05/17/01	Broadhurst Envr. Inc.	29220	78680	24.73
Beaver Bulk Inc.	05/17/01	NR	139	14265	05/17/01	Broadhurst Envr. Inc.	28960	79620	25.33
Beaver Bulk Inc.	05/17/01	L178	140	14266	05/17/01	Broadhurst Envr. Inc.	29340	79240	24.95
Beaver Bulk Inc.	05/17/01	NR	141	14267	05/17/01	Broadhurst Envr. Inc.	28080	80340	26.13
Beaver Bulk Inc.	05/17/01	L128	142	14268	05/17/01	Broadhurst Envr. Inc.	27340	80340	26.50
Beaver Bulk Inc.	05/17/01	L16	143	14269	05/17/01	Broadhurst Envr. Inc.	27120	78840	25.86
Beaver Bulk Inc.	05/17/01	L168	144	14270	05/17/01	Broadhurst Envr. Inc.	28180	79360	25.59
Beaver Bulk Inc.	05/17/01	L182	145	14271	05/17/01	Broadhurst Envr. Inc.	27200	78720	25.76
Beaver Bulk Inc.	05/17/01	L175	146	14272	05/17/01	Broadhurst Envr. Inc.	29940	82960	26.51
Beaver Bulk Inc.	05/17/01	L212	147	14273	05/17/01	Broadhurst Envr. Inc.	29060	77000	23.97
Beaver Bulk Inc.	05/17/01	L110	148	14274	05/17/01	Broadhurst Envr. Inc.	28900	80440	25.77
Beaver Bulk Inc.	05/17/01	NR	149	14275	05/17/01	Broadhurst Envr. Inc.	25720	81100	27.69
Beaver Bulk Inc.	05/17/01	NR	150	14276	05/17/01	Broadhurst Envr. Inc.	28180	76560	24.19
Beaver Bulk Inc.	05/17/01	NR	151	14277	05/17/01	Broadhurst Envr. Inc.	28120	81740	26.81
Beaver Bulk Inc.	05/17/01	NR	152	14278	05/17/01	Broadhurst Envr. Inc.	28920	76000	23.54
Beaver Bulk Inc.	05/17/01	L136	153	14279	05/17/01	Broadhurst Envr. Inc.	31640	82560	25.46
Beaver Bulk Inc.	05/17/01	101	154	14280	05/17/01	Broadhurst Envr. Inc.	28260	80420	26.08
Beaver Bulk Inc.	05/17/01	L184	155	14281	05/17/01	Broadhurst Envr. Inc.	29620	80380	25.38
Beaver Bulk Inc.	05/17/01	NR	156	14282	05/17/01	Broadhurst Envr. Inc.	28960	78200	24.62
Beaver Bulk Inc.	05/17/01	L162	157	14283	05/17/01	Broadhurst Envr. Inc.	26560	74740	24.09
Beaver Bulk Inc.	05/17/01	L204	158	14284	05/17/01	Broadhurst Envr. Inc.	30880	81200	25.16
Beaver Bulk Inc.	05/17/01	L214	159	14285	05/17/01	Broadhurst Envr. Inc.	31264	74080	21.41
Beaver Bulk Inc.	05/17/01	L208	160	14286	05/17/01	Broadhurst Envr. Inc.	30040	78240	24.10

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Beaver Bulk Inc.	05/17/01	L152	161	14287	05/17/01	Broadhurst Envr. Inc.	29560	79340	24.89
Beaver Bulk Inc.	05/17/01	L224	162	14288	05/18/01	Broadhurst Envr. Inc.	28880	80140	25.63
Beaver Bulk Inc.	05/17/01	NR	163	14289	05/18/01	Broadhurst Envr. Inc.	28620	74380	22.88
Beaver Bulk Inc.	05/18/01	L182	164	14290	05/18/01	Broadhurst Envr. Inc.	27200	74700	23.75
Beaver Bulk Inc.	05/18/01	L128	165	14291	05/18/01	Broadhurst Envr. Inc.	27340	77660	25.16
Beaver Bulk Inc.	05/18/01	L212	166	14292	05/18/01	Broadhurst Envr. Inc.	29060	75960	23.45
Beaver Bulk Inc.	05/18/01	L16	167	14293	05/18/01	Broadhurst Envr. Inc.	27120	79940	26.41
Beaver Bulk Inc.	05/18/01	L168	168	14294	05/18/01	Broadhurst Envr. Inc.	28180	77980	24.90
Beaver Bulk Inc.	05/18/01	NR	169	14295	05/18/01	Broadhurst Envr. Inc.	28960	79720	25.38
Beaver Bulk Inc.	05/18/01	L204	170	14296	05/18/01	Broadhurst Envr. Inc.	30880	79960	24.54
Beaver Bulk Inc.	05/18/01	L184	171	14297	05/18/01	Broadhurst Envr. Inc.	29620	80300	25.34
Beaver Bulk Inc.	05/18/01	L136	172	14298	05/18/01	Broadhurst Envr. Inc.	31640	79140	23.75
Beaver Bulk Inc.	05/18/01	L137	173	14299	05/18/01	Broadhurst Envr. Inc.	28920	79220	25.15
Beaver Bulk Inc.	05/18/01	L178	174	14300	05/18/01	Broadhurst Envr. Inc.	29340	80380	25.52
Beaver Bulk Inc.	05/18/01	34	175	14301	05/18/01	Broadhurst Envr. Inc.	28820	77820	24.50
Beaver Bulk Inc.	05/18/01	L214	176	14302	05/18/01	Broadhurst Envr. Inc.	31264	79860	24.30
Beaver Bulk Inc.	05/18/01	L200	177	14303	05/18/01	Broadhurst Envr. Inc.	29220	79180	24.98
Beaver Bulk Inc.	05/18/01	L162	178	14304	05/18/01	Broadhurst Envr. Inc.	26560	74420	23.93
Beaver Bulk Inc.	05/18/01	L224	179	14305	05/18/01	Broadhurst Envr. Inc.	28880	79620	25.37
Beaver Bulk Inc.	05/18/01	110	180	14306	05/18/01	Broadhurst Envr. Inc.	28620	76420	23.90
Beaver Bulk Inc.	05/21/01	9316	181	14307	05/21/01	Broadhurst Envr. Inc.	29450	80000	25.28
Beaver Bulk Inc.	05/21/01	L134	182	14308	05/21/01	Broadhurst Envr. Inc.	28920	78320	24.70
Beaver Bulk Inc.	05/21/01	NR	183	14309	05/21/01	Broadhurst Envr. Inc.	28660	77820	24.58
Beaver Bulk Inc.	05/21/01	L136	184	14310	05/21/01	Broadhurst Envr. Inc.	31640	78220	23.29
Beaver Bulk Inc.	05/21/01	0004	185	14311	05/21/01	Broadhurst Envr. Inc.	27680	75020	23.67
Beaver Bulk Inc.	05/21/01	L214	186	14312	05/21/01	Broadhurst Envr. Inc.	31264	81000	24.87
Beaver Bulk Inc.	05/21/01	0008	187	14313	05/21/01	Broadhurst Envr. Inc.	28080	80100	26.01
Beaver Bulk Inc.	05/21/01	9702	188	14314	05/21/01	Broadhurst Envr. Inc.	27280	80740	26.73
Beaver Bulk Inc.	05/21/01	L178	189	14315	05/21/01	Broadhurst Envr. Inc.	29340	79140	24.90
Beaver Bulk Inc.	05/21/01	L226	190	14316	05/21/01	Broadhurst Envr. Inc.	28560	78160	24.80
Beaver Bulk Inc.	05/21/01	L224	191	14317	05/22/01	Broadhurst Envr. Inc.	28880	82860	26.99
Beaver Bulk Inc.	05/22/01	L178	192	14318	05/22/01	Broadhurst Envr. Inc.	29340	79240	24.95
Beaver Bulk Inc.	05/22/01	NR	193	14319	05/22/01	Broadhurst Envr. Inc.	28660	79700	25.52
Beaver Bulk Inc.	05/22/01	9706	194	14320	05/22/01	Broadhurst Envr. Inc.	27280	78340	25.53
Beaver Bulk Inc.	05/22/01	L204	195	14321	05/22/01	Broadhurst Envr. Inc.	30880	78860	23.99
Beaver Bulk Inc.	05/22/01	L200	196	14322	05/22/01	Broadhurst Envr. Inc.	29220	78520	24.65
Beaver Bulk Inc.	05/22/01	9316	197	14323	05/22/01	Broadhurst Envr. Inc.	29450	75760	23.16
Beaver Bulk Inc.	05/22/01	0004	198	14324	05/22/01	Broadhurst Envr. Inc.	27680	78240	25.28
Beaver Bulk Inc.	05/22/01	9310	199	14325	05/22/01	Broadhurst Envr. Inc.	28500	78600	25.05
Beaver Bulk Inc.	05/22/01	9702	200	14326	05/22/01	Broadhurst Envr. Inc.	28560	77080	24.26
Beaver Bulk Inc.	05/22/01	NR	201	14327	05/22/01	Broadhurst Envr. Inc.	28960	80880	25.96
Beaver Bulk Inc.	05/22/01	9602	202	14328	05/22/01	Broadhurst Envr. Inc.	28560	77840	24.64
Beaver Bulk Inc.	05/22/01	9402	203	14329	05/22/01	Broadhurst Envr. Inc.	29240	73880	22.32
Beaver Bulk Inc.	05/23/01	04	204	14330	05/23/01	Broadhurst Envr. Inc.	27680	75260	23.79
Beaver Bulk Inc.	05/24/01	0004	205	14331	05/24/01	Broadhurst Envr. Inc.	27680	68020	20.17
Beaver Bulk Inc.	05/24/01	NR	206	14332	05/24/01	Broadhurst Envr. Inc.	27680	79240	25.78
Beaver Bulk Inc.	05/24/01	0004	207	14333	05/24/01	Broadhurst Envr. Inc.	27680	78740	25.53

NR = NOT RECORDED

3.0 Conclusions

A total of 5,136.16 tons of non-hazardous soil, and 98 tons of hazardous soil were excavated from Site 25 and disposed offsite during this source removal. At the direction of the Navy, the actual vertical and horizontal excavation limits were extended from the original vertical and horizontal excavation limits as specified in the Removal Action Design Package for Site 25 Former Transformer Storage Yard (Buildings 101 and 247) (TtNUS, 2000), due to the visual presence of additional contaminated soil at the originally specified boundaries.

4.0 References

ABB Environmental Services. 1994. Environmental Baseline Survey, PSC 25, NAS Cecil Field, Jacksonville, Florida.

Harding Lawson Associates. 1999. Sampling and Analysis Outline report for NAS Cecil Field, Jacksonville, Florida.

CH2M HILL Constructors, Inc. November 1998. Basewide Work Plan, Revision 01; NAS Cecil Field, Jacksonville, Florida.

CH2M HILL Constructors, Inc. June 2000. Work Plan Addendum No. 6, Excavation of Mercury-Arsenic, PAH, and/or Petroleum-Contaminated Soil from Various Grey Sites, NAS Cecil Field, Jacksonville, Florida.

Tetra Tech NUS, Inc. September 2000. Removal Action Design Package for Site 25 at Naval Air Station Cecil Field, Jacksonville, Florida.

Appendix A

Photographs

1. View of the Site 25 (Areas 9 and 1) prior to excavation (Looking North)

2. View of the Site 25 (Area 1, 2 and 9) prior to excavation (Looking South)

3. View of the Site 25 (Area 3) prior to excavation (Looking West)

4. View of the Site 25 (Area 4) prior to excavation (Looking West)

5. View of Areas 2 and 3 of the Site 25 excavation (Looking South)

6. View of Areas 3 and 4 of the Site 25 excavation (Looking North)

7. View of the Site 25 Area 3 during excavation (Looking North)

8. View of the Site 25 Area 3 during excavation (Looking North)

9. View of the Site 25 (Areas 4 and 5) during excavation (Looking Northwest)

10. View of the Site 25 (Area 5 –Stained Circles) during excavation (Looking North)

11. View of the Site 25 (Area 5) during over excavation for stained circle removal (Looking North)

12. View of the Site 25 (Areas 5 and 7) during excavation (Looking Northwest)

13. View of the Site 25 (Area 3) During oil / water separator removal (Looking Northwest)

14. View of the Site 25 (Area 3) after removal of oil / water separator (Looking Northwest)

15. View of the Site 25 after backfill and seeding

Appendix B

Disposal Manifests

Soil

DEQ

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

#177

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 or Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
FL5170022474	11006		

3. Generator's Name and Mailing Address
NAVAL AIR STATION JACKSONVILLE, PUBLIC WORKS CENTER
BOX 30 CODE 331 BUILDING 147 US NAVY-CECIL FIELD
JACKSONVILLE, FL 32212
4. Generator's Phone ( ) 904 542-5979

A. State Manifest Document Number: MI8522792
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone:
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 734-397-2200

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: ALD067138891
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I94 SERVICE DRIVE
BELLEVILLE, MICHIGAN 48111
10. US EPA ID Number: MID048090633

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RQ, HAZARDOUS WASTE, SOLID, N.O.S.(DIELDREN), 9, NA3077, PGIII	☒	001	DT	22.1	T	D037
b.		☐					
c.		☐					
d.		☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL # [illegible]
ERG# [illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT: ROBERT WRIGHT 404-392-5230

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Ye)
Mitchell B. McPherson		05 24 10

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Ye)
GARY Campbell #177		05 24 10

18 Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Ye)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Ye)
[illegible]		05 26 10

GENERATOR
TRANSPORTER
FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name U.S. NAVY-CECIL FIELD Generator USEPA ID No. FL5170022474

Generator Address PWC, BOX 30, CODE 331, BUILDING 147, JACKSONVILLE, FL 32212

State Manifest No. m185 22792 Manifest Doc. No. 11006

INSTRUCTIONS

- **In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.**
- **In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).**
- **In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).**
- **In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.**
- **In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.**

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	P037	☒NWW ☐WW	CONTAMINATED SOIL	S	N/A
11.B		☐NWW ☐WW			
11.C		☐NWW ☐WW			
11.D		☐NWW ☐WW			

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] Title Env. Prof. Spec.

Printed Name Mitchell B. McPherson Date 5-24-01

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 *italicized* options:

S. THIS CONTAMINATED SOIL *DOES* / *DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES* / *DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO* / *COMPLIES WITH* (CIRCLE ONE) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. **I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.**

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville, MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☐ Michigan Disposal Waste Treatment Plant [X] Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Contaminated Soil

WASTE DESCRIPTION: P037 Waste Soil

QUANTITY AND UNITS: Approximately 108 Tons

MANIFEST NUMBER: 11006

This shipment is exempt from the surcharge because the waste is:

_____Ash from incineration of hazardous and nonhazardous waste.

_____Hazardous waste exempted by MDEQ rule making action.

X____Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state of Michigan or federal government.

_____Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____Solids from an aggressive biological treatment facility.

_____Emission control dust or sludge from the primary production of steel in electrical furnaces.

Enter EQ Approval Number: 051801WID

Signature _____ Company Name NAV, RVC JV

Printed Name Mitchell B. McPherson Date 5-24-01

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#134

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
FL5170022474	11007		

3. Generator's Name and Mailing Address
NAVAL AIR STATION JACKSONVILLE, PUBLIC WORKS CENTER
BOX 30 CODE 331 BUILDING 147 US NAVY-CECIL FIELD
JACKSONVILLE, FL 32212

4. Generator's Phone (904) 542-5979

A. State Manifest Document Number: MI8522793

B. State Generator's ID:

C. State Transporter's ID:

D. Transporter's Phone: 800-379-6503

E. State Transporter's ID:

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: 734-697-2401

5. Transporter 1 Company Name: ROBBIE D. WOOD

6. US EPA ID Number: ALD067138891

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I94 SERVICE DRIVE
BELLEVILLE, MICHIGAN 48111

10. US EPA ID Number: MID048090633

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	☒ RQ, HAZARDOUS WASTE, SOLID, N.O.S.(DIELDREN), 9, NA3077, PGIII	001	DT	22.66	T	P037
b.	☐					
c.	☐					
d.	☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL # [illegible]
EPA WASTE #

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

RW 134

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT: ROBERT WRIGHT 404-392-5230

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Date Month Day Year
Mitchell B. McPherson	[signature]	05 04 04

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year
Jack Holmes	[signature]	
18 Transporter 2 Acknowledgment of Receipt of Materials		
Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
Robert Wright	[signature]	05 05 04

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name U.S. NAVY-CECIL FIELD Generator USEPA ID No. FL5170022474

Generator Address PWC, BOX 30, CODE 331, BUILDING 147, JACKSONVILLE, FL 32212

State Manifest No. MI 8522793 Manifest Doc. No. 11007

INSTRUCTIONS

- **In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.**
- **In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).**
- **In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).**
- **In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.**
- **In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.**

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	P037	☒NWW ☐WW	CONTAMINATED SOIL	S	N/A
11.B		☐NWW ☐WW			
11.C		☐NWW ☐WW			
11.D		☐NWW ☐WW			

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] Title Env. Prot. Spec.

Printed Name Mitchell B McPherson Date 5-24-01

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 *italicized* options:

S. THIS CONTAMINATED SOIL *DOES / DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES / DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO / COMPLIES WITH* (CIRCLE ONE) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. **I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.**

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville, MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☐ Michigan Disposal Waste Treatment Plant [X] Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Contaminated Soil

WASTE DESCRIPTION: P037 Waste Soil

QUANTITY AND UNITS: Approximately 108 Tons

MANIFEST NUMBER: 11007

This shipment is exempt from the surcharge because the waste is:

_____Ash from incineration of hazardous and nonhazardous waste.

_____Hazardous waste exempted by MDEQ rule making action.

X____Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state of Michigan or federal government.

_____Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____Solids from an aggressive biological treatment facility.

_____Emission control dust or sludge from the primary production of steel in electrical furnaces.

Enter EQ Approval Number: 051801WID

Signature _____ Company Name NAVY PWC JAX

Printed Name Mitchell B. McPherson Date 5-24-01

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1746U Truck # 133

DEQ WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
FL5170022474	11008		

3. Generator's Name and Mailing Address
NAVAL AIR STATION JACKSONVILLE, PUBLIC WORKS CENTER
BOX 30 CODE 331 BUILDING 147 US NAVY-CECIL FIELD
JACKSONVILLE, FL 32212

4. Generator's Phone ( ) 904 542-5979

A. State Manifest Document Number: MI8522794

B. State Generator's ID:

5. Transporter 1 Company Name: ROBBIE D. WOOD

6. US EPA ID Number: ALD067138891

C. State Transporter's ID:

D. Transporter's Phone: 800-374-6503

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I94 SERVICE DRIVE
BELLEVILLE, MICHIGAN 48111

10. US EPA ID Number: MID048090633

G. State Facility's ID:

H. Facility's Phone: 734-697-2200

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	☒ RQ, HAZARDOUS WASTE, SOLID, N.O.S.(DIELDREN), 9, NA3077, PGIII	001	DT	22.94	T	P037
b.	☐					
c.	☐					
d.	☐					

J. Additional Descriptions for Materials Listed Above
APPROVAL # [illegible] EXP. [illegible]
PW 133 ERG# 171

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT: ROBERT WRIGHT 404-392-6230

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Date (Month Day Year)
Mitchell B. McPherson		05 24 01

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Deeryll BANKS		05 24 01

18 Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Thomas Reels		05 28 01

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name U.S. NAVY-CECIL FIELD Generator USEPA ID No. FL5170022474

Generator Address PWC, BOX 30, CODE 331, BUILDING 147, JACKSONVILLE, FL 32212

State Manifest No. MI 8522794 Manifest Doc. No. 11008

INSTRUCTIONS

- **In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.**
- **In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).**
- **In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).**
- **In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.**
- **In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide–LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.**

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	P037	☒NWW ☐WW	CONTAMINATED SOIL	S	N/A
11.B		☐NWW ☐WW			
11.C		☐NWW ☐WW			
11.D		☐NWW ☐WW			

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] Title ENV. Prot. Spec.

Printed Name Mitchell B. McPherson Date 5-24-01

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 *italicized* options:

S. THIS CONTAMINATED SOIL *DOES* / *DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES* / *DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO* / *COMPLIES* (CIRCLE ONE) *WITH* THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. **I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.**

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville, MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☐ Michigan Disposal Waste Treatment Plant [X] Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Contaminated Soil

WASTE DESCRIPTION: P037 Waste Soil

QUANTITY AND UNITS: Approximately 108 Tons

MANIFEST NUMBER: _____

This shipment is exempt from the surcharge because the waste is:

_____Ash from incineration of hazardous and nonhazardous waste.

_____Hazardous waste exempted by MDEQ rule making action.

X____Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state of Michigan or federal government.

_____Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____Solids from an aggressive biological treatment facility.

_____Emission control dust or sludge from the primary production of steel in electrical furnaces.

Enter EQ Approval Number: 051801WID

Signature _____ Company Name NAVY PWC JAX

Printed Name Mitchell B. McPherson Date 5-24-01

© 1996 EQ - The Environmental Quality Company

Required under authority of Part 1..
Part 121 of Act 451, 1994, as amer..

DEQ WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116...

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. FL5170022474
Manifest Document No. 11009
2. Page 1 of 1
Information in the shaded area is not required by Federal law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION JACKSONVILLE, PUBLIC WORKS CENTER
BOX 30 CODE 331 BUILDING 147 US NAVY-CECIL FIELD
JACKSONVILLE, FL 32212

A. State Manifest Document Number MI 8522795
B. State Generator's ID

4. Generator's Phone ( ) 904 542-5979

5. Transporter 1 Company Name: ROBBIE D. WOOD
6. US EPA ID Number: ALD067138891
C. State Transporter's ID
D. Transporter's Phone 800-378-6803

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I94 SERVICE DRIVE
BELLEVILLE, MICHIGAN 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID
H. Facility's Phone 734-697-2200

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	☒	RQ, HAZARDOUS WASTE, SOLID, N.O.S.(DIELDREN), 9, NA3077, PGIII	001	DT	16.87	T	P037
b.	☐						
c.	☐						
d.	☐						

J. Additional Descriptions for Materials Listed Above
K. Handling Codes
a. APPROVAL ...
015198...

15. Special Handling Instructions and Additional Information

24 HOUR EMERGENCY CONTACT: ROBERT WRIGHT 404-392-5230

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mitchell B. McPherson | Signature: [signature] | Date Month Day Year: 05 24 0

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: John Speed | Signature: [signature] | Date Month Day Year: 05 24 0

18 Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Lori Beason | Signature: [signature] | Date Month Day Year: 05 25 0

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

EPA Form 8700-22 (Rev. 9/88)

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name U.S. NAVY-CECIL FIELD Generator USEPA ID No. FL5170022474

Generator Address PWC, BOX 30, CODE 331, BUILDING 147, JACKSONVILLE, FL 32212

State Manifest No. M18522795 Manifest Doc. No. 11009

INSTRUCTIONS

- **In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.**
- **In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).**
- **In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).**
- **In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.**
- **In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide–LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.**

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	P037	☒NWW ☐WW	CONTAMINATED SOIL	S	N/A
11.B		☐NWW ☐WW			
11.C		☐NWW ☐WW			
11.D		☐NWW ☐WW			

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] Title ENV. Prot. Spec.

Printed Name Mitchell B. McPherson Date 5-24-01

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 *italicized* options:

S. THIS CONTAMINATED SOIL *DOES* / *DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES* / *DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO* / *COMPLIES* (CIRCLE ONE) *WITH* THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. **I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.**

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville, MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☐ Michigan Disposal Waste Treatment Plant [X] Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Contaminated Soil

WASTE DESCRIPTION: P037 Waste Soil

QUANTITY AND UNITS: Approximately 108 Tons

MANIFEST NUMBER: 11009

This shipment is exempt from the surcharge because the waste is:

_____Ash from incineration of hazardous and nonhazardous waste.

_____Hazardous waste exempted by MDEQ rule making action.

X Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state of Michigan or federal government.

_____Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____Solids from an aggressive biological treatment facility.

_____Emission control dust or sludge from the primary production of steel in electrical furnaces.

Enter EQ Approval Number: 051801WID

Signature _____ Company Name NAVY PWC JAX

Printed Name Mitchell B. McPherson Date 5-24-01

© 1996 EQ - The Environmental Quality Company

TJ 129

125276

Required under authority of Part 111 & Part 121 of Act 451, 1994, as amended.

C0692

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

DEQ

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. FL5170022474

Manifest Document No. 11010

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
NAVAL AIR STATION JACKSONVILLE, PUBLIC WORKS CENTER
BOX 30 CODE 331 BUILDING 147 US NAVY-CECIL FIELD
JACKSONVILLE, FL 32212

4. Generator's Phone (904) 542-5979

A. State Manifest Document Number MI 8522796

B. State Generators ID

5. Transporter 1 Company Name
ROBBIE D. WOOD

6. US EPA ID Number ALD067138891

C. State Transporters ID

D. Transporter's Phone 800-376-6903

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporters ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC., SITE #2 LANDFILL
49350 NORTH I94 SERVICE DRIVE
BELLEVILLE, MICHIGAN 48111

10. US EPA ID Number MID048090633

G. State Facility's ID

H. Facility's Phone 734-697-2200

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ☒	RQ, HAZARDOUS WASTE, SOLID, N.O.S.(DIELDREN), 9, NA3077, PGIII	001	DT	13.59	T	P037
b. ☐						
c. ☐						
d. ☐						

J. Additional Descriptions for Materials Listed Above

R10129

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information

24 HOUR EMERGENCY CONTACT: ROBERT WRIGHT 404-392-5230

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mitchell B. McPherson | Signature: [signature] | Date Month Day Year: 052410

GENERATOR

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name: T. J. Sullivan | Signature: [signature] | Date Month Day Year: 052410

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: | Signature: | Date Month Day Year:

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Lori Brogan | Signature: [signature] | Date Month Day Year: 052510

FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name U.S. NAVY-CECIL FIELD Generator USEPA ID No. FL5170022474

Generator Address PWC, BOX 30, CODE 331, BUILDING 147, JACKSONVILLE, FL 32212

State Manifest No. MI 8522796 Manifest Doc. No. 11010

INSTRUCTIONS

- **In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.**
- **In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).**
- **In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).**
- **In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.**
- **In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide–LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.**

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	P037	☒NWW ☐WW	CONTAMINATED SOIL	S	N/A
11.B		☐NWW ☐WW			
11.C		☐NWW ☐WW			
11.D		☐NWW ☐WW			

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] Title ENV. Prot. Spec.

Printed Name Mitchell B. McPherson Date 5-24-01

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 *italicized* options:

S. THIS CONTAMINATED SOIL *DOES* / *DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES* / *DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO* / *COMPLIES WITH* (CIRCLE ONE) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. **I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.**

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville, MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☐ Michigan Disposal Waste Treatment Plant [X] Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Contaminated Soil

WASTE DESCRIPTION: P037 Waste Soil

QUANTITY AND UNITS: Approximately 108 Tons

MANIFEST NUMBER: 11010

This shipment is exempt from the surcharge because the waste is:

_____Ash from incineration of hazardous and nonhazardous waste.

_____Hazardous waste exempted by MDEQ rule making action.

X____Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state of Michigan or federal government.

_____Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____Solids from an aggressive biological treatment facility.

_____Emission control dust or sludge from the primary production of steel in electrical furnaces.

Enter EQ Approval Number: 051801WID

Signature _____ Company Name NAVY PWC SAY

Printed Name Mitchell B. McPherson Date 5-24-01

© 1996 EQ - The Environmental Quality Company

REPUBLIC
Waste Services Division

Manifest Number: 14125

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste		Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	FFD	1.45	20154	Tons	Dump Trailer
	Site 25	22.57	20154	TONS	"
(SPLIT LOAD)				~~TONS~~	"
	TOTAL	24.02	20154	TONS	"

24.53

Special Handling Instructions

Site # FFD - 1.45 tons

Site 25 - 22.57

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 4-27-01

Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: Bar K 100

Bar-K-100 — [signature] — 4-27-01

Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene — 4/30/01

Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14126

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.43	20154	Tons	Dump Trailer
			26.81	

Special Handling Instructions
Site # ~~FFD~~ SMW
Site 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
4-27-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L128

Buddy Hurst — Name of Authorized Agent
Buddy Hurst — Signature
4-27-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

[signature] — Name of Authorized Agent
Earline — Signature
4/27/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14127

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.19	20154	Tons	Dump Trailer
			24.08	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 04-27-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-184

RICHARD FREDERICK — Richard Frederick — 4-27-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 4/27/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14128

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.84	20154	Tons	Dump Trailer
			26.69	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L16

Sam Downen
Name of Authorized Agent

Sam Downen
Signature 4-27-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent

Signature 4/27/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14129

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.92	20154	Tons	Dump Trailer
			26.75	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 4-27-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 6168

Del Cortez
Name of Authorized Agent

Del Cortez 4-27-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 4/27/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14130

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.29	20154	Tons	Dump Trailer
			25.86	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01 ~~4-27-01~~ (EMM)
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4200

Donald Perry — Donald Perry — 5-4-01 ~~4-27-01~~ (EMM)
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Caroline — 5/4/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14131

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.77	20154	Tons	Dump Trailer
			26.19	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-4-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-104

M. Hamor SR.
Name of Authorized Agent

M. Hamor SR. 5-4-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene
Signature

5/4/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14132

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	~~204~~ 2434	20154	Tons	Dump Trailer
			24.93	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 204

Ronald Perry — Name of Authorized Agent
Ronald Perry — Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Carlene — Signature
5/4/21 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14133

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.16	20154	Tons	Dump Trailer
			25.52	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki D. J. Kruzicki 5-4-01
Generator Authorized Agent Name Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4168

Dee Gibson 5-4-01
Name of Authorized Agent Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst Pauline 5/4/01
Name of Authorized Agent Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14134

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.60	20154	Tons	Dump Trailer
			26.57	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C128

Buddy Hurst — Buddy Hurst — 5-4-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene 5/4/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14135

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.07	20154	Tons	Dump Trailer
			25.23	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L212

Robert Jones — Name of Authorized Agent
Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Carlene 5/4/01 — Signature / Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14136

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.79	20154	Tons	Dump Trailer
			25.96	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L162

D. Worthey — D. Worthey — 5-4-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Pauline — 5/4/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14137

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.74	20154	Tons	Dump Trailer
			24.82	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: ~~37~~ ~~39~~ L152

Robert L. Rodgers Sr — Name of Authorized Agent
Robert L. Rodgers Sr — Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Carlene — Signature
5/4/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14138

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.58	20134	Tons	Dump Trailer
			26.55	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 416

SAM DOWNEN — Name of Authorized Agent
Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/31/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14139

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.98	20154	Tons	Dump Trailer
			24.88	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-4-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L184

RICHARD FREDERICK
Name of Authorized Agent

Richard Frederick 5-4-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulen 5/4/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14140

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.35	20154	Tons	Dump Trailer
			25.15	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-4-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 410

D Bonds
Name of Authorized Agent

Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/4/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

2-118

REPUBLIC
Waste Services Division

Manifest Number: 14141

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.85	20154	Tons	Dump Trailer
			22.83	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2-118

Name of Authorized Agent — Signature — 5-4-01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene — 5/4/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14142

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.99	20154	Tons	Dump Trailer
			23.94	

Special Handling Instructions

Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 182

Name of Authorized Agent

Signature

5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Earlene — Signature

5/4/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14143

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.50	20154	Tons	Dump Trailer
			24.25	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki 5-4-01 — Signature / Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L136

David Lee — Name of Authorized Agent
David Lee 5401 — Signature / Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene 5/4/01 — Signature / Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14144

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.85	20154	Tons	Dump Trailer
			24.04	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 1-208

DARRELL MATTHEWS — [signature] — 5-4-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene, 5/4/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14145

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.84	20154	Tons	Dump Trailer
			26.27	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-4-01
Generator Authorized Agent Name / Signature / Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4120

Carl Vandiver — Carl Vandiver — 5-4-01
Name of Authorized Agent / Signature / Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Eulene — 5/4/01
Name of Authorized Agent / Signature / Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14146

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.80	20154	Tons	Dump Trailer
			25.08	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki 5-4-01 — Signature / Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 214

Steve Crosby — Name of Authorized Agent
Signature 5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Earlene 5/4/01 — Signature / Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14147

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.97	20157	Tons	Dump Trailer
			23.92	

Special Handling Instructions
Site # East of Hanger 14

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-4-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 108

Name of Authorized Agent

Signature 5-4-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/7/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14148

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20157	Tons	Dump Trailer
			4.25	

Special Handling Instructions
Site # Hanger 14

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-4-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 109

LEE WHITAKER
Name of Authorized Agent

Signature 5-4-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene 5/7/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14149

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.25	20154	Tons	Dump Trailer
			24.97	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5-4-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 100

Bar-k-100 — Glen Bates — 5-4-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene 5/7/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14150

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.61	20154	Tons	Dump Trailer
			25.59	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 107

Leonard Whitaker Jr — Name of Authorized Agent
Leon E. Whitaker — Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene — Signature
5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14151

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			22.96	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 102

Sandy Bar K Rock Inc — Name of Authorized Agent
Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Darlene — Signature
5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14152

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	21.43	20154	Tons	Dump Trailer
			25.77	

Special Handling Instructions

Site # 25

split load

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 109

LEE WHITAKER — Name of Authorized Agent

L. Whitt — Signature

5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14153

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.14	20154	Tons	Dump Trailer
			26.09	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-4-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 101

Bar K Ranch — Name of Authorized Agent
Donald M. Carter — Signature
5-4-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Earline — Signature
5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14154

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.53	20154	Tons	Dump Trailer
			23.89	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-7-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-212

Robert Jones — Name of Authorized Agent

Signature

5-7-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14155

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.02	20154	Tons	Dump Trailer
			25.02	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/7/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-214

Steve Crossno — 5/7/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — 5/7/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L184

Manifest Number: 14156

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.39	20154	Tons	Dump Trailer
			24.30	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/7/01

Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L184

RICHARD FREDERICK — Richard Frederick — 5/7/01

Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Arlene — 5/7/01

Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14157

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	21.87	20154	Tons	Dump Trailer
			22.45	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-224

Log Bat Bulk
Name of Authorized Agent

Log Bat
Signature

5-7-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eileen
Signature

5/7/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14158

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	~~31.25~~ 25.96	20154	Tons	Dump Trailer
			26.34	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-200

Donald Perry — Name of Authorized Agent
Donald Perry — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene — Signature
5/7/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14159

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.32	20154	Tons	Dump Trailer
			26.45	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/7/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-198

Derrick Hendrix — Howard Horton — 5/7/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Arlene — 5/7/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14160

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.69	20154	Tons	Dump Trailer
			25.16	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 228

Name of Authorized Agent Signature 5/7/01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

CARCHESTER McCLAIN — Name of Authorized Agent
Carchester McClain 5-7-01 — Signature Date Received

Broadhurst Arlene 5/7/01

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L204

Manifest Number: 14161

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.87	20154	Tons	Dump Trailer
			24.82	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/7/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L 204

Ronald Ray
Name of Authorized Agent

Ronald Ray
Signature

5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Arlene
Signature

5/7/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14162

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.44	2054	Tons	Dump Trailer
			24.24	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-15-2

Robert L. Padgett Sr. — Name of Authorized Agent
Robert L. Padgett Sr. — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14163

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.97	20154	Tons	Dump Trailer
			25.18	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/7/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-162

D. Worthey
Name of Authorized Agent

D. Worthey
Signature

5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14164

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.66	20154	Tons	Dump Trailer
			24.76	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/7/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-208

DARRELL MATTHEWS
Name of Authorized Agent

Darrell Matthews
Signature

5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14165

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.49	20154	Tons	Dump Trailer
			24.93	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki D. J. Kruzicki 5/7/01
Generator Authorized Agent Name Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-142

Randall C. Padgett Randall C. Padgett 5/7/01
Name of Authorized Agent Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst Earlene 5-7-01
Name of Authorized Agent Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14166

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.62	20154	Tons	Dump Trailer
			23.72	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2136

David Lee — Name of Authorized Agent
David Lee — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14167

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.53	20154	Tons	Dump Trailer
			26.97	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5/1/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9706

BILL GREEN — Name of Authorized Agent

Signature

5/1/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc: Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Signature

5-2-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14168

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.65	20154	Tons	Dump Trailer
			24.49	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9302

John Stoltzner — Name of Authorized Agent
Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

John H. Stoltzner — Name of Authorized Agent
Broadhurst
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

L-118

REPUBLIC Waste Services Division

Manifest Number: 14169

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.88	20184	Tons	Dump Trailer
			23.88	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-118

Chad Beaver
Name of Authorized Agent

Signature 5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature 5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14170

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.30	20154	Tons	Dump Trailer
			25.41	

Special Handling Instructions
Site # 25

L-134

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki D. J. Kruzicki 5/7/01
Generator Authorized Agent Name Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Name of Authorized Agent Signature 5/10/01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

~~Steve Gardner~~ ~~Steve Gardner~~ 7 May 2001
Name of Authorized Agent Signature Date Received

Broadhurst Brenda

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14171

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.15	20154	Tons	Dump Trailer
			25.39	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

A BRYANT
Name of Authorized Agent

A Bryant 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5-7-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14172

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.21	20154	Tons	Dump Trailer
			24.31	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9308

Janet F. McKeen
Name of Authorized Agent

Janet F. McKeen 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature 5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L184

Manifest Number: 14173

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.65	2054	Tons	Dump Trailer
			24.58	

Special Handling Instructions
Site # 2Y

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L184

RICHARD FREDERICK — Name of Authorized Agent
Richard Frederick — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14175

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.67	20154	Tons	Dump Trailer
			26.29	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-212

Robert Jones — Name of Authorized Agent
Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14176

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.96	20154	Tons	Dump Trailer
			24.18	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/1/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9704

Steven Jones
Name of Authorized Agent

Steven Jones
Signature

5/1/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14177

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.33	20154	Tons	Dump Trailer
			24.48	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-200

Donald Perry
Name of Authorized Agent

Donald Perry 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst T
Name of Authorized Agent

Breda 5-7-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14178

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.21	20154	Tons	Dump Trailer
			25.31	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/7/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-214

Steve Crosby — 5/7/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5-7-01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14179

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2339	20154	Tons	Dump Trailer
			23.65	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-224

Lou Batchelor
Name of Authorized Agent

Signature 5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brode 5-7-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14180

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.05	20154	Tons	Dump Trailer
			26.00	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9708

Name of Authorized Agent
Todd Lankford — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14181

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.61	20154	Tons	Dump Trailer
			24.62	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/3/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0007

E W Mathas
Name of Authorized Agent

E W Mathas
Signature

5/7/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-7-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14182

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.39	20154	Tons	Dump Trailer
			24.49	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/1/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 228

Name of Authorized Agent
Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

CARVESTER MCCLAIN — Name of Authorized Agent
Signature
5-7-01 — Date Received

Broadhurst Brenda

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L204

Manifest Number: 14183

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.96	20154	Tons	Dump Trailer
			24.88	

Special Handling Instructions
Site #25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L204

Ronald Lee
Name of Authorized Agent

Ronald Lee 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5-7-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14184

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.26	20154	Tons	Dump Trailer
			24.08	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-198

Derrick Hendon — Name of Authorized Agent
Derrick Hendon — Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-7-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14185

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.34	20134	Tons	Dump Trailer
			25.40	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: BK-107

Leonard E. Whitaker Jr.
Name of Authorized Agent

Leonard E Whitaker 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/8/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14186

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.78	20154	Tons	Dump Trailer
			24.91	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/7/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 109

Lee Whitaker — Name of Authorized Agent
Signature
5/7/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene — Signature
5/8/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14187

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.63	20154	Tons	Dump Trailer
			23.86	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/7/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 108

Name of Authorized Agent

Lewis Crutchfield Sr. 5/7/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/8/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14188

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	21.29	20184	Tons	Dump Trailer
			21.41	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/9/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L136

David Lee
Name of Authorized Agent

David Lee
Signature

5/9/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene
Signature

5-/9/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L184

Manifest Number: 14189

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.77	20154	Tons	Dump Trailer
			23.68	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-9-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 184

RICHARD FREDERICK — Name of Authorized Agent

Richard Frederick — Signature

5-9-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Earlene — Signature

5/9/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14190

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			20.31	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-9-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L134

Steve Godwin — Name of Authorized Agent
Signature
5-9-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/9/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14191

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.70	20154	Tons	Dump Trailer
			24.68	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5-10-00
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 0004

Willie Ivey
Name of Authorized Agent

Willie Ivey
Signature

5/10/00
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-10-00
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14192

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.61	20154	Tons	Dump Trailer
			26.65	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/10/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 0010

Thacker Roger
Name of Authorized Agent

Roger Thacker
Signature

5-10-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene
Signature

5/10/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14193

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.21	20154	Tons	Dump Trailer
			26.57	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/10/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9706

BILL GREEN
Name of Authorized Agent

Bill Green 5/10/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5-10-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14194

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	28.20	20154	Tons	Dump Trailer
			28.49	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-10-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L0010

Trucker Roger — Name of Authorized Agent
Roger Thacker — Signature
5-10-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Earlene — Signature
5/10/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14195

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.85	20154	Tons	Dump Trailer
			23.99	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/10/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Willie Ivey — Willie Ivey — 5/10/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5/10/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Generator

REPUBLIC
Waste Services Division

Manifest Number: 14196

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.24	20154	Tons	Dump Trailer
			25.15	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-110

Name of Authorized Agent
Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-16-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14197

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.56	2015N	Tons	Dump Trailer
			25.17	

Special Handling Instructions

Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-182

Chris Howard
Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-16-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14198

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.94	20154	Tons	Dump Trailer
			27.51	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

M. Hamor Sr. — Name of Authorized Agent
M. Hamor Sr. — Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-16-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14199

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.14	2034	Tons	Dump Trailer
			26.47	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-170

Name of Authorized Agent
Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5-16-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14200

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	28.22	20154	Tons	Dump Trailer
			27.25	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Name of Authorized Agent Signature 5/16/01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature 5-16-01 Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14202

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.54	20134	Tons	Dump Trailer
			26.38	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 128

Rudolph Hurst — Rudolph Hurst — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Evaline — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14203

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.11	2015H	Tons	Dump Trailer
			26.06	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 1-16

SAM DOWNEN — Sam Downen — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earline. S — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14204

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.51	20184	Tons	Dump Trailer
			24.87	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-212

Robert Jones
Name of Authorized Agent

Signature 5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature 5-16-01
Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14205

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2097	20154	Tons	Dump Trailer
			21.89	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-214

Steve Crosby — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC Waste Services Division

1204

Manifest Number: 14206

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.89	20154	Tons	Dump Trailer
			23.89	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 427, Live Oak, FL

Truck Number: 1204

Ronald Kerry
Name of Authorized Agent

Ronald R
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-16-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14207

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.30	20154	Tons	Dump Trailer
			25.54	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-200

Donald Perry
Name of Authorized Agent

Donald Perry
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earline
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14208

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.90	20184	Tons	Dump Trailer
			25.35	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 226

JAMES STEPHENS
Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14209

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.12	2014	Tons	Dump Trailer
			26.03	

Special Handling Instructions
Site # 25

L-134

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-134

Steve Gartner — Name of Authorized Agent
Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/16/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14210

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.16	20154	Tons	Dump Trailer
			23.60	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 3/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 194

William A Olson
Name of Authorized Agent

Signature 3/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature 3/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14211

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.81	20154	Tons	Dump Trailer
			27.08	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 4 May 2001
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number:

Gerrie Luck
Name of Authorized Agent

Gerrie Luck 5/10/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

Date Received
5/16/01

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14212

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.07	20154	Tons	Dump Trailer
			23.62	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

ANDY CRAMER — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14213

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.14	20154	Tons	Dump Trailer
			24.31	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-152

Robert L. Padgett Sr.
Name of Authorized Agent

Robert L. Padgett Sr.
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14214

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.26	20154	Tons	Dump Trailer
			24.34	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-208

DALRELL MATTHEWS — Name of Authorized Agent
Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene — Signature
5/16/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L 184

Manifest Number: 14215

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.63	20154	Tons	Dump Trailer
			25.39	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L184

RICHARD FREDERICK — Name of Authorized Agent
Richard Frederick — Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Earlene — Signature
5/16/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14216

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.36	2015H	Tons	Dump Trailer
			24.57	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-162

D. Worthey
Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14217

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.29	20154	Tons	Dump Trailer
			25.23	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9316

JOHN W. STOUTMAN
Name of Authorized Agent

John W. Stoutman 5/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14218

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.53	20154	Tons	Dump Trailer
			26.33	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9702

Adam DeRocco
Name of Authorized Agent

Adam DeRocco 5/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14219

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.59	20154	Tons	Dump Trailer
			26.03	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 0004

Willie Tivey
Name of Authorized Agent

Willie Tivey
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5-16-01
Signature

Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14220

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23 FL	20154	Tons	Dump Trailer
			23 95	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/10/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 0010

Name of Authorized Agent

Signature

5/10/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent

Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14221

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.70	20154	Tons	Dump Trailer
			24.65	

Special Handling Instructions
Site # 2C

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-168

DEL WALTER — [signature] — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5-16-01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14222

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.85	20154	Tons	Dump Trailer
			23.21	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C178

J. R. HOWARD
Name of Authorized Agent

J. R. Howard 05/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Evelene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14223

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.58	20154	Tons	Dump Trailer
			27.21	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 9706

Bill CREEL
Name of Authorized Agent

Bill Green
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14224

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.80	20154	Tons	Dump Trailer
			24.99	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9704

Steven Jones
Name of Authorized Agent

Steven Jones 5/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14225

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.38	20154	Tons	Dump Trailer
			25.67	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/10/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 9308

Janet F. McKeen
Name of Authorized Agent

Janet F. McKeen
Signature

5/10/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene
Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14226

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.11	20154	Tons	Dump Trailer
			26.32	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 9708

Todd Lankford
Name of Authorized Agent

Todd Lankford 5/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14227

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.96	2014	Tons	Dump Trailer
			25.88	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/10/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0008

Name of Authorized Agent Joe Ross

Signature Joe Ross 5/10/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst

Name of Authorized Agent

Carlene 5/14/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14228

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.13	20154	Tons	Dump Trailer
			24.62	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-224

Lou Batchelor
Name of Authorized Agent

Lou Batchelor
Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-16-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14229

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.68	20154	Tons	Dump Trailer
			25.72	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9402

Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14230

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.34	26154	Tons	Dump Trailer
			24.06	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/10/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

George Craft — 5/10/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Explore — 5-16-01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14231

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	~~3~~ 26.41	20154	Tons	Dump Trailer
			26.49	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

M. HAMOR SR.
Name of Authorized Agent

M. Hamor Sr. 5/16/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14232

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.70	2054	Tons	Dump Trailer
			25.65	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/16/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L 230

Name of Authorized Agent

Signature 5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/16/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14233

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.26	20154	Tons	Dump Trailer
			24.59	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-110

Name of Authorized Agent — Signature — 5/16/01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Eulene — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14234

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.66	20154	Tons	Dump Trailer
			25.80	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-110

DENNIS BUNDS
Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature

5-16-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14235

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.78	20154	Tons	Dump Trailer
			23.40	

Special Handling Instructions
Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/16/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-82

Clint Howard
Name of Authorized Agent

Signature

5/16/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

5/16/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14236

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.36	2054	Tons	Dump Trailer
			24.28	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/16/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-212

Robert Jones — Name of Authorized Agent
Signature
5/16/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/16/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14237

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.17	20154	Tons	Dump Trailer
			25.05	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L128

Buddy Hurst — Buddy Hurst — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — [signature] — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Goldenrod - Generator

REPUBLIC
Waste Services Division

Manifest Number: 14238

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.24	2054	Tons	Dump Trailer
			26.23	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2-16

SAM DOWNEN — Sam Downen — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5/16/01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14239

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.57	20154	Tons	Dump Trailer
			25.53	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-214

Steve Crosby — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene — 5/16/01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

L204

Manifest Number: 14240

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	21.01	2054	Tons	Dump Trailer
			23.97	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L204

Ronald Perry — Ronald Perry — 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Carlene — 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14241

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25	2954	Tons	Dump Trailer
			25.14	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-200

Donald Perry — Donald Perry 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene 5/16/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Generator

REPUBLIC
Waste Services Division

Manifest Number: 14242

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.49	2015H	Tons	Dump Trailer
			25.52	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5/16/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Connie Lock — Connie Lock 5/16/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene 5/16/01
Name of Authorized Agent — Signature — Date Received

White Original Yellow Transporter Pink Disposal Facility Copy

REPUBLIC
Waste Services Division

Manifest Number: 14243

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.71	2014	Tons	Dump Trailer
			24.38	

Special Handling Instructions
Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5/10/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-182

Chad Howard — 5/10/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14244

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2640	20154	Tons	Dump Trailer
			26.48	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki 5/17/01 — Signature / Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

M. Hamock Sr — Name of Authorized Agent
M. Hamock Sr 5/17/01 — Signature / Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5/17/01 — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14245

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.25	20151	Tons	Dump Trailer
			26.09	

Special Handling Instructions
Site # 35

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-110

Name of Authorized Agent — Signature — 5/17/01 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility

REPUBLIC
Waste Services Division

Manifest Number: 14246

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.08	20154	Tons	Dump Trailer
			25.40	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-12

DAVE RAGS — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Generator

REPUBLIC
Waste Services Division

Manifest Number: 14247

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.49	20154	Tons	Dump Trailer
			26.98	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/10/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-224

Lon Batchelor — Lon Batchelor — 5/10/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5-17-01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14248

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.58	20154	Tons	Dump Trailer
			24.94	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/10/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-212

Robert Jones — Name of Authorized Agent
Signature
5/10/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/17/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Goldenrod

REPUBLIC
Waste Services Division

Manifest Number: 14249

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.18	20154	Tons	Dump Trailer
			26.15	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/10/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2128

Bubby Hunt — Bubby Hunt — 5/10/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14250

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.35	2015	Tons	Dump Trailer
			26.29	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/17/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-16

SAM DOWDEN
Name of Authorized Agent

Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5-17-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14251

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.29	20154	Tons	Dump Trailer
			26.25	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 108

Don Carter — [signature] — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5-17-01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14252

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	29.62	20154	Tons	Dump Trailer
			28.97	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature 5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14253

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.54	20154	Tons	Dump Trailer
			24.62	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-201

DARELL MATTHEWS — Name of Authorized Agent
Signature
5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/17/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14254

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.73	20154	Tons	Dump Trailer
			24.93	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-15-2

Robert L Padgett Sr
Name of Authorized Agent

Robert L Padgett Sr 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14255

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.41	2054	Tons	Dump Trailer
			24.55	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-162

D. Worthey — Name of Authorized Agent
D. Worthey — Signature
5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5/17/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14256

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.89	20154	Tons	Dump Trailer
			24.13	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-214

Steve Crosby — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14257

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.18	20154	Tons	Dump Trailer
			26.37	

Special Handling Instructions
Site # 25

L- 134

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 134

Steve Gartner — Name of Authorized Agent

Signature

5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent

Signature

Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14258

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.91	20154	Tons	Dump Trailer
			24.05	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/17/0 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L136

David Lee — Name of Authorized Agent
David Lee — Signature
5/17/0 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Brenda — Signature
5/17/0 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

2184

Manifest Number: 14259

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.63	20154	Tons	Dump Trailer
			24.60	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2184

RICHARD FREDERICK — Richard Frederick — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L204

Manifest Number: 14260

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.23	20154	Tons	Dump Trailer
			24.21	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 2204

Ronald Perry — Ronald Perry — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Brenda — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14261

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.93	20154	Tons	Dump Trailer
			24.01	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0010

Tracker Roger
Name of Authorized Agent

Roger Tracker 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14262

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.57	20154	Tons	Dump Trailer
			25.13	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 194

Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

William Watson
Name of Authorized Agent

Signature 5-17-2001
Date Received

Broadhurst Breda 5/17/01

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14263

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.24	20154	Tons	Dump Trailer
			25.80	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-34

Jody Cramer
Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14264

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			24.23	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-200

Donald Perry
Name of Authorized Agent

Donald Perry 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14265

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.39	20154	Tons	Dump Trailer
			25.33	

Special Handling Instructions
Site # 35

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Connie Lock
Name of Authorized Agent

Connie Lock 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

E. Calere 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14266

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.59	20154	Tons	Dump Trailer
			24.95	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C178

J. R. HOWARD
Name of Authorized Agent

J. R. Howard 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14267

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.28	20154	Tons	Dump Trailer
			26.13	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/17/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Joe Ross
Name of Authorized Agent

Joe Ross
Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Emline
Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14268

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2653	20154	Tons	Dump Trailer
			26.50	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 428

Buddy Hurst — Name of Authorized Agent

Buddy Hurst — Signature

5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/17/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14269

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2590	2054	Tons	Dump Trailer
			25.86	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-16

SAM DOWNEN — Name of Authorized Agent

Sam Downen — Signature

5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Signature

5/17/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14270

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.58	20154	Tons	Dump Trailer
			25.59	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/17/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 168

Name of Authorized Agent

Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14271

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.06	2054	Tons	Dump Trailer
			29.76	

Special Handling Instructions

Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-182

Chad Howard
Name of Authorized Agent

Chad H
Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14272

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.09	20154	Tons	Dump Trailer
			26.51	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-15

Name of Authorized Agent

Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst

Name of Authorized Agent

Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14273

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.59	20154	Tons	Dump Trailer
			23.97	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/17/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-212

Robert Jones
Name of Authorized Agent

Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14274

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.63	20154	Tons	Dump Trailer
			25.77	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-110

D BONDS
Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene 5-17-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14275

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	27.61	20154	Tons	Dump Trailer
			27.69	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature 5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14276

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.19	2014	Tons	Dump Trailer
			24.19	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5/17/01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number:

Calvin Bell
Name of Authorized Agent

Calvin Bell
Signature

5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene
Signature

5/17/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14277

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.72	20154	Tons	Dump Trailer
			26.81	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

M. Hamor SR
Name of Authorized Agent

M. Hamor SR. 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene 5/17/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14278

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.55	20134	Tons	Dump Trailer
			23.54	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number:

Steve Gartner
Name of Authorized Agent

Signature 5/17/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 5-17-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14279

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.21	20154	Tons	Dump Trailer
			25.46	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4136

David Lee — David Lee — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene — 5-17-01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14280

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.93	20154	Tons	Dump Trailer
			26.08	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 101

Bark Ranch — Donald Conner — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Eclove — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

L184

REPUBLIC
Waste Services Division

Manifest Number: 14281

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.41	20154	Tons	Dump Trailer
			25.38	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L184

RICHARD FREDERICK — Richard Frederick — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I Hereby acknowledge receipt of the above described materials.

Broadhurst — [signature] — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Generator

REPUBLIC
Waste Services Division

Manifest Number: 14282

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.31	20154	Tons	Dump Trailer
			24.62	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

William Olson — [signature] — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14283

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.86	20154	Tons	Dump Trailer
			24.09	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-162

D. Northey — — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

1204

Manifest Number: 14284

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.75	20154	Tons	Dump Trailer
			25.16	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 1204

Ronald Perry — Name of Authorized Agent
Ronald Perry — Signature
5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eulene — Signature
5-17-01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14285

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	20.49	2015	Tons	Dump Trailer
			21.41	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-214

Steve Crossno — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — 5/17/01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14286

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.01	2014	Tons	Dump Trailer
			24.10	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-28

DARRELL MATTHEWS — [signature] — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

[signature] — [signature] — 5/17/01
Name of Authorized Agent — Signature — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 14287

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.69	20154	Tons	Dump Trailer
			24.89	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5/17/01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 1-132

Robert L. Padgett Sr. — Robert L. Padgett Sr. — 5/17/01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Darlene — 5/17/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14288

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.03	20154	Tons	Dump Trailer
			29.63	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/17/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-224

Lou Batchelor — Name of Authorized Agent
Signature
5/17/01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Eveline — Signature
5/18/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Green -

REPUBLIC
Waste Services Division

Manifest Number: 14289

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20134	Tons	Dump Trailer
			22.88	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/17/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

James Cavender
Name of Authorized Agent

James H. Carter 5/17/01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earline 5-18-01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14290

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.07	20154	Tons	Dump Trailer
			23.75	

Special Handling Instructions
Site # 25

L-182

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5/18/01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-182

Chad Hourston
Name of Authorized Agent

Signature 5/18/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14291

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.09	20154	Tons	Dump Trailer
			25.16	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-18-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4128

Buddy Hurst — Name of Authorized Agent
Buddy Hurst — Signature
5-18-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Carlene — Signature
5/18/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14292

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.85	20154	Tons	Dump Trailer
			23.45	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5-18-01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-212

Robert Jones
Name of Authorized Agent

Signature

5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earline
Signature

5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14293

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	26.44	20154	Tons	Dump Trailer
			26.41	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-16

Sam Downen
Name of Authorized Agent

Sam Downen 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above-described materials.

Brad Brewer
Name of Authorized Agent

Carline 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14294

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			24.90	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-18-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: T-168

DEL ALTEDD — Name of Authorized Agent

Signature

5-18-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/18/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14295

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			25.38	

Special Handling Instructions
Site #

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-18-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

William Mason — [signature] — 5-18-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broad Runner — Pauline — 5/18/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

L204

Manifest Number: 14296

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.56	20154	Tons	Dump Trailer
			24.54	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-18-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 4294

Ronald Kemp — Name of Authorized Agent

Ronald Kemp — Signature

5-18-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/18/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

L184

REPUBLIC
Waste Services Division

Manifest Number: 14297

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.37	20154	Tons	Dump Trailer
			25.34	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L184

RICHARD FREDERICK
Name of Authorized Agent

Richard Frederick 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eadie 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14298

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.61	20154	Tons	Dump Trailer
			23.25	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5-18-01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L136

David Lee
Name of Authorized Agent

David Lee
Signature

5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene
Signature

5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14299

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.18	20154	Tons	Dump Trailer
			25.15	

Special Handling Instructions

Site # 25 L-134

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-134

Steve Carver
Name of Authorized Agent

Steve Carver 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14300

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.08	20154	Tons	Dump Trailer
			25.52	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L178

J. R. Howard
Name of Authorized Agent

J. R. Howard 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14301

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.97	20154	Tons	Dump Trailer
			24.50	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

Signature: D. J. Kruzicki 5-18-01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 34

Name of Authorized Agent

Signature

5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14302

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.42	2054	Tons	Dump Trailer
			21.30	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-214

Steve Crosen
Name of Authorized Agent

Signature

5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14303

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.84	20154	Tons	Dump Trailer
			24.98	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki
Signature

5-18-01
Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-200

Donald Perry
Name of Authorized Agent

Donald Perry
Signature

5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene
Signature

5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14304

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.75	20154	Tons	Dump Trailer
			23.93	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-162

D. Worthey
Name of Authorized Agent

D. Worthey 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda 5/18/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14305

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.87	20154	Tons	Dump Trailer
			25.37	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-224

Lou Datchuk
Name of Authorized Agent

Signature 5-18-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature 5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14306

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.51	20154	Tons	Dump Trailer
			23.90	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-18-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 140

James Cavender
Name of Authorized Agent

James H. Cavender 5-18-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Brenda
Signature

5/18/01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14307

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25,67	20154	Tons	Dump Trailer
			25.28	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-21-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9316

JOHN N. STOLTZFUS
Name of Authorized Agent

John Stoltzfus 5-21-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Erlene 5/21/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14308

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.68	20154	Tons	Dump Trailer
			24.70	

Special Handling Instructions
Site # 25

L-134

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-21-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L 134

Steve Gartman
Name of Authorized Agent

Steve Gartman 5-21-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/21/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14309

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.43	2054	Tons	Dump Trailer
			24.58	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J Kruzicki 5-21-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number:

George Watt
Name of Authorized Agent

George Watt 5-21-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Calere 5/21/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14310

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.1	20154	Tons	Dump Trailer
			23.29	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-21-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 4136

David Lee — Name of Authorized Agent

David Lee — Signature

5-21-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene — Signature

5/21/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14311

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.24	20154	Tons	Dump Trailer
			23.67	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki 5-21-01 — Signature / Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0004

Willie Joey — Name of Authorized Agent

Willie Joey 5-21-01 — Signature / Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Carlene 5/21/01 — Signature / Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14312

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.36	20154	Tons	Dump Trailer
			24.87	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-21-00
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C-214

Glenn Crosby — 5-21-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earline — 5/21/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14313

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			26.01	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-21-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0008

Name of Authorized Agent Joe Ross

Signature 5-21-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 5/21/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14314

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			26.73	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-21-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9602

Mark Bryant — Name of Authorized Agent
Signature
5-21-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature
5/21/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14315

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.49	20154	Tons	Dump Trailer
			24.90	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-21-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: C178

T. R. Howard
Name of Authorized Agent

T. R. Howard 5-21-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 5/21/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14316

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.04	20154	Tons	Dump Trailer
			24.80	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5-21-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-226

[illegible] — [illegible] 5-21-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene 5/21/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14317

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.73	20154	Tons	Dump Trailer
			26.99	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki 5-21-01
Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L-224

Lou Batchelor — Lou Batchelor 5-21-01
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene 5/22/01
Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14318

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil		20154	Tons	Dump Trailer
			24.95	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-22-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: L178

J. R. Howard — Name of Authorized Agent

J. R. Howard — Signature

5-22-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Eulene — Signature

5/22/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14319

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.16	20154	Tons	Dump Trailer
			23.52	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-22-01

Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

George Gantt — George Gantt — 5-22-01

Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene — 5/22/01

Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14320

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	2484	20154	Tons	Dump Trailer
			25.53	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki D. J. Kruzicki 5-22-01

Generator Authorized Agent Name Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9206

Bill Green Bill Green 5-22-01

Name of Authorized Agent Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst Earlene 5/22/01

Name of Authorized Agent Signature Date Received

White - Original Yellow - Transporter Pink - Generator Goldenrod - Disposal Facility

REPUBLIC
Waste Services Division

L204

Manifest Number: 14321

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil			Tons	Dump Trailer
	24.01	20152		
			23.99	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — D. J. Kruzicki — 5-22-01

Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L204

Ronald Perry — Ronald Perry — 5-22-01

Name of Authorized Agent — Signature — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Earlene — 5/22/01

Name of Authorized Agent — Signature — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14322

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.46	20154	Tons	Dump Trailer
			24.65	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-22-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: L-200

Donald Perry — Name of Authorized Agent

Signature

5-22-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Signature

5/22/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14323

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23,70	20154	Tons	Dump Trailer
			23.16	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki D. J. Kruzicki 5-22-01

Generator Authorized Agent Name Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9316

JOHN W. STOLTMAN John W. Stoltman 5-22-01

Name of Authorized Agent Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst Earlene 5/22/01

Name of Authorized Agent Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14324

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil			Tons	Dump Trailer
	24.78	20154	25.28	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 0004

Willie Tivey
Name of Authorized Agent

Willie Tivey 5-22-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14325

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.81	20154	Tons	Dump Trailer
			25.05	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 9310

JANET F. McKEEN
Name of Authorized Agent

Janet F. McKeen 5-2201
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14326

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy

US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval

Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.79	20154	Tons	Dump Trailer
			24.26	

Special Handling Instructions

Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc.

DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL

Truck Number: 9702

Adam DeRocco
Name of Authorized Agent

Adam DeRocco 5-22-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14327

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.28	20154	Tons	Dump Trailer
			25.96	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

William Dotson
Name of Authorized Agent

W. Dotson 5-22-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Darlene 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14328

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	25.17	20154	Tons	Dump Trailer
			24.64	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9602

Mark Bryant
Name of Authorized Agent

5-22-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eadere 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14329

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	22.76	20154	Tons	Dump Trailer
			22.32	

Special Handling Instructions
Site # 25

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D. J. Kruzicki 5-22-01
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 9402

Name of Authorized Agent

Signature 5-22-01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Eulene 5/22/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14330

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	23.85	20154	Tons	Dump Trailer
			23.29	

Special Handling Instructions
Site # 25 concrete

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki
Generator Authorized Agent Name

D J. Kruzicki
Signature Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 04

Willie Ivey
Name of Authorized Agent

Willie Ivey 5-23-01
Signature Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Carlene 5/23/01
Signature Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14331

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	19.13	20154	Tons	Dump Trailer
		concrete		
			20.17	

Special Handling Instructions

Site # Concrete

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name

D. J. Kruzicki — Signature

5-24-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0004

Willie Ivey — Name of Authorized Agent

Willie Ivey — Signature

5-24-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Brenda — Signature

5/24/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14332

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.75	20154	Tons	Dump Trailer
			25.78	

Special Handling Instructions
Site # 25 concrete

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5-23-01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number:

Willie Tuten — Name of Authorized Agent
Willie Tuten — Signature
5-23-01 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Carlene — Signature
5/23/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC
Waste Services Division

Manifest Number: 14333

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy US EPA ID#: FL 5170022474

Billing Address: Omegasys, 4661 Hammermill Road, Suite B, Tucker, GA 30084

Site Address: NAS Cecil Field, Jacksonville, FL

County of Origin: Duval Phone: (904) 777-8850

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	24.55	20154 conc.	Tons	Dump Trailer
			2553	

Special Handling Instructions
Site # 25 Concrete

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

David J. Kruzicki — Generator Authorized Agent Name
D. J. Kruzicki — Signature
5/24/01 — Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk, Inc. DOT#: 0254452

Address: P.O. Box 417, Live Oak, FL Truck Number: 0004

Willie Tracy — Name of Authorized Agent
Willie Tracy — Signature
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone: 912-530-7050

Address: 4800 Broadhurst Road West, Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Ealene — Signature
5/24/01 — Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

Oily Groundwater Removed from Excavation

I690(2)

24-HOUR
Emergency Contact Telephone Number
(SEE BOX 15) 1013

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. F.L.5.1.7.0.0.2.2.4.7.9 | Manifest Document No. 7.2.6.0.1
2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
US NAVY N.A.S. CECIL FIELD
103RD AND NORMANDY BLVD.
JACKSONVILLE, FL 32212

A. State Manifest Document Number: 72601
B. State Generator's ID: FL5170022479

4. Generator's Phone (904) 777-4812 ATTN: COLLEEN KURTZ (CH2M HILL)

5. Transporter 1 Company Name: FREEHOLD CARTAGE, INC.
6. US EPA ID Number: N.J.D.0.5.4.1.2.6.1.6.4
C. State Transporter's ID: NJD054126164
D. Transporter's Phone: (863) 533-4599

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL CONSERVATION CORPORATION
10100 ROCKET BLVD.
ORLANDO, FL 32824
10. US EPA ID Number: F.L.D.9.8.0.5.5.9.7.2.8
G. State Facility's ID: FLD980559728
H. Facility's Phone: (407) 859-4441

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X HAZARDOUS WASTE LIQUID, N.O.S. (CHLORDANE, DDD, DDT) 9, NA3082, PGIII (D036/U050/U061)		001	DM	000605	G	D036/U060 U061
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
11a: PF #USMF9833 - ERG #171

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
MAIL MANIFEST/INVOICE TO: Perma-Fix of Florida, Inc.
1940 N. W. 67th Place
Gainesville, FL 32653
Attn: Cindy Tribby

INFOTRAC AT 1-800-535-5053
Perma-Fix of Florida must be named as Registrant

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mitchell B. McPherson | Signature | Month Day Year: 07/26/01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEPHEN J. GARDNER | Signature | Month Day Year: 7/26/01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Ted Mullen for PO | Signature | Month Day Year: 7/27/01

TRANSPORTER #2

11013

Chemical Conservation Corp. Chem-Met Services, Inc. Chemical Conservation of Georgia, Inc.

SUBPART CC AND LAND DISPOSAL RESTRICTION NOTIFICATION FORM

Name US Navy N. A. S. Cecil Field Manifest No. 72601 Page 1 of 1

☐ This is a wastewater stream. ☐ This is a non-wastewater stream.

NOTE: BOXES CORRESPOND TO MANIFEST LINE ITEM

a	b	c	d

(a) described above, does not meet the applicable treatment standards in 40 CFR 268 Subpart D.

☐ SUBPART CC: INDICATE WHETHER WASTES ON THE MANIFEST ARE REGULATED UNDER SUBPART CC FOR CONTAINING VOC'S IN CONCENTRATION LEVELS EQUAL TO OR GREATER THAN 500 PPMW BY ENTERING A "Y" FOR "YES" OR "N" FOR "NO" AS APPROPRIATE.

CTERISTIC WASTE

	CODE	SUBCATEGORY / CONSTITUENTS
	D001	Ignitable Wastes (TOC>10%)
	D001*	Ignitable Wastes (TOC<10%)
	D002*	Corrosive Wastes
	D003	Reactive Sulfides based on 261.23(a)(5)
	D003*	Explosives based on 261.23(a) (6),(7),(8)
	D003	Unexploded ordinance/explosive
	D003*	Other Reactive based on 261.23(a)(1)
	D003*	Water Reactive based on 261.23(a) (2),(3),(4)
	D003	Reactive Cyanides based on 261.23(a) (5)
	D004*	Arsenic
	D005*	Barium
	D006*	Cadmium
	D006*	Cadmium Containing Batteries
	D007*	Chromium
	D008*	Lead
	D008*	Lead Acid Batteries
	D009*	High Mercury-Organic
	D009*	High Mercury-Inorganic
	D009*	Low Mercury
	D009*	Mercury Wastewater
	D010*	Selenium
	D011*	Silver
	D012*	Endrin
	D013*	Lindane
	D014*	Methoxychlor
	D015*	Toxaphene
	D016*	2,4-D
	D017*	2,4,5-TP (Silvex)
	D018*	Benzene
	D019*	Carbon Tetrachloride
	D020*	Chlordane
	D021*	Chlorobenzene
	D022*	Chloroform
	D023*	o-Cresol
	D024*	m-Cresol
	D025*	p-Cresol
	D026*	Cresol (total)
	D027*	p-Dichlorobenzene
	D028*	1,2-Dichloroethane
	D029*	1,1-Dichloroethylene
	D030*	2,4-Dinitrotoluene
	D031*	Heptachlor
	D032*	Hexachlorobenzene
	D033*	Hexachlorobutadiene
	D034*	Hexachloroethane
	D035*	Methyl ethyl ketone
	D036*	Nitrobenzene
	D037*	Pentachlorophenol
	D038*	Pyridine
	D039*	Tetrachloroethylene
	D040*	Trichloroethylene
	D041*	2,4,5-Trichlorophenol
	D042*	2,4,6-Trichlorophenol
	D043*	Vinyl chloride

B. LISTED WASTE

M	L	I		CODE	SUBCATEGORY / CONSTITUENTS
				F001	Spent Halogenated Solvents
				F002	Spent Halogenated Solvents
				F003	Spent Non-Halogenated Solvents
				F004	Spent Non-Halogenated Solvents
				F005	Spent Non-Halogenated Solvents

CHECK REGULATED CONSTITUENTS FOR LISTED WASTES IDENTIFIED ABOVE (F001-F005):

				Acetone
				Benzene
				n-Butyl alcohol
				Carbon disulfide
				Carbon tetrachloride
				Chlorobenzene
				o-Cresol
				m-Cresol
				p-Cresol
				Cresol
				Cyclohexanone
				o-Dichlorobenzene
				Ethyl acetate
				Ethyl benzene
				Ethyl ether
				Isobutyl alcohol
				Methanol
				Methylene chloride
				Methyl ethyl ketone
				Methyl isobutyl ketone
				Nitrobenzene
				Pyridine
				Tetrachloroethylene
				Toluene
				1,1,1-Trichloroethane
				1,1,2-Trichloroethane
				1,1,2-Trichloro-1,2,2-trifluoroethane
				Trichloroethylene
				Trichloromonofluoromethane
				Xylenes
				2-Nitropropane
				2-Ethoxyethanol

				F006	Electroplating WWT sludge
				F035	Wood preserving wastewater
				F037	Petroleum refinery primary oil/water separation sludge
				F038	Petroleum refinery secondary oil/water separation sludge
				F039	Multi-source Leachate
				K048	Dissolved air flotation float
				K049	Slop oil emulsion solids

Does the waste identified by an asterisk (*) contain any Underlying Hazardous Constituents per 268.7(a)(1)?

a				
				YES
				NO

If YES, *attach a completed UTS/UHC form to this document*

R WASTES (for codes not listed above)

L	I	Enter waste codes/subcategory, if applicable, in the table below.
		U036, U060, U061

e: [signature] Date: 7-26-01

829 - REV 8/98 - CURTIS1000

Sludge Contents of Oil/Water Separator

(AS REQUIRED BY THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.

FISHER INDUSTRIAL SERVICE, INC.
A Member of The North American Group Ltd.

111014

Form Approved. OMB No. 2050-0039. Expires 9-30-92

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
F L 5 1 7 0 0 2 2 4 7 4	2 7 2 8 3		

3. Generator's Name and Mailing Address
US Navy
PWC JAX BOX 30 Code 330
Jacksonville, FL 32212
4. Generator's Phone (904) 542-5979

SITE ADDRESS:
U.S. NAVY
Cecil Field (NAS)
JACKSONVILLE, FL 32212

A. State Manifest Document Number: FIS 0112916
B. State Generator's ID:

5. Transporter 1 Company Name: Freehold Cartage Inc.
6. US EPA ID Number: NJD054126164
C. State Transporter's ID:
D. Transporter's Phone: 2324621001

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Fisher Industrial Service, Inc.
402 Webster Chapel Rd.
Glencoe, AL 35905
10. US EPA ID Number: A L D 9 8 1 0 2 0 8 9 4
G. State Facility's ID: ALD981020894
H. Facility's Phone: (256) 492-8340

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Flammable liquids, n.o.s. (Contains Diesel Fuel and Oil), 3, UN1993, PGIII FIS Profile #: 61034	002	D M	00800	P	D001
b. FIS Profile #:					
c. FIS Profile #:					
d. FIS Profile #:					

J. Additional Descriptions for Materials Listed Above — Transporter has E.R.G. Book.
a) L/I

K. Handling Codes for Wastes Listed Above
S01, S01

State of Origin: FL

15. Special Handling Instructions and Additional Information
a) ERG#: 128
Emergency Contact (800) 535-5053 Infotrac - Caller Must Identify: Environmental Mgmt.
Purchase Order #:27283
Work Order #: 24574
Purchase Order #:

24 Hr. Emergency Response Name/Number:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Mitchell B. McPherson		07	27	01

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jon Rucks		07	27	01

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Mark Steve Brock	Mary Anne Brock	8	2	01

ORIGINAL - RETURN TO GENERATOR

EPA Form 8700-22 (Rev. 9-88) Previous edition obsolete.

7-BLC-M5 (Rev. 10-91)

LAND DISPOSAL RESTRICTION NOTIFICATION FORM

110/4

r Name U.S. NAVY - Caulfield EPA ID#: FL5170022424 Manifest Document# JIS 0112916/27283

te(s) indicated below does not meet the applicable treatment standards in 40 CFR 268 Subpart D and/or exceeds the applicable prohibition 40 CFR 268.32 or RCRA 3004(d)(California List).

ocation of constituents on the manifest by inserting manifest line item (M.L.I.) identification (11-A, etc.) in boxes at left of waste code.

11-A 61034 11-D_____ 28-C_____ 28-F_____ 28-I_____ M.L.I:_____

11-B_____ 28-A_____ 28-D_____ 28-G_____

11-C_____ 28-B_____ 28-E_____ 28-H_____

|_|_|_|_| Wastewater

A |_|_|_| Non-Wastewater

CK REGULATED CONSTITUENT(S) IN F001 THROUGH F005 WASTE(S). (USE TABLE AT THE BOTTOM FOR CODES NOT FOUND HERE)

	CODE	SUBCATEGORY/CONSTITUENTS
_|_|	D001	Ignitable Liquids (TOC>=10%)
_|_|	D001*	Other Ignitables
_|_|	D002*	ph < 2 corrosive wastes
_|_|	D002*	ph > 12.5 corrosive wastes
_|_|	D004	
_|_|	D005	
_|_|	D006	Cadmium non-batteries
_|_|	D006	Cadmium batteries
_|_|	D007	
_|_|	D008	Lead non-batteries
_|_|	D008	Lead Batteries
_|_|	D009	>= 260 mg/kg with organics
_|_|	D009	>= 260 mg/kg no organics
_|_|	D009	< 260 mg/kg non-wastewater
_|_|	D009	< 260 mg/kg wastewater
_|_|	D010	
_|_|	D011	
_|_|	D012*	Endrin
_|_|	D012*	Endrin aldehyde
_|_|	D013*	Alpha BHC
_|_|	D013*	Beta BHC
_|_|	D013*	Delta BHC
_|_|	D013*	Gamma BHC (Lindane)
_|_|	D014*	
_|_|	D015*	
_|_|	D016*	
_|_|	D017*	

M.L.I.	CODE
|_|_|_|_|	D018*
|_|_|_|_|	D019*
|_|_|_|_|	D020*
|_|_|_|_|	D021*
|_|_|_|_|	D022*
|_|_|_|_|	D023*
|_|_|_|_|	D024*
|_|_|_|_|	D025*
|_|_|_|_|	D026*
|_|_|_|_|	D027*
|_|_|_|_|	D028*
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|_|_|_|_|	D039*
|_|_|_|_|	D040*
|_|_|_|_|	D041*
|_|_|_|_|	D042*
|_|_|_|_|	D043*

M.L.I.	CODE
|_|_|_|_|	F001
|_|_|_|_|	F002
|_|_|_|_|	F003
|_|_|_|_|	F004
|_|_|_|_|	F005

M.L.I.	CONSTITUENTS	Total Composition mg/kg
|_|_|_|_|	Acetone	160
|_|_|_|_|	Benzene	10
|_|_|_|_|	n-Butyl alcohol	2.6
|_|_|_|_|	Carbon disulfide	4.81(TCLP)
|_|_|_|_|	Carbon tetrachloride	6.0
|_|_|_|_|	Chlorobenzene	6.0
|_|_|_|_|	o,m,p Cresols	5.6 (ea)
|_|_|_|_|	Cyclohexanone	0.72 (TCLP)
|_|_|_|_|	o,Dichlorobenzene	6.0
|_|_|_|_|	Ethyl acetate	33
|_|_|_|_|	Ethyl benzene	10
|_|_|_|_|	Ethyl ether	160
|_|_|_|_|	Isobutanol	170
|_|_|_|_|	Methanol	0.75 (TCLP)
|_|_|_|_|	Methylene chloride	30
|_|_|_|_|	Methyl ethyl ketone	36
|_|_|_|_|	Methyl isobutyl ketone	33
|_|_|_|_|	Nitrobenzene	14
|_|_|_|_|	Pyridine	16
|_|_|_|_|	Tetrachloroethylene	5.0
|_|_|_|_|	Toluene	10
|_|_|_|_|	1,1,1 Trichloroethane	6.0
|_|_|_|_|	1,1,2 Trichloroethane	6.0
|_|_|_|_|	1,1,2-Trichloro-1,2,2-Trifluoroethane	30
|_|_|_|_|	Trichloroethylene	6.0
|_|_|_|_|	Trichloromonofluoromethane	30
|_|_|_|_|	Xylene(s) (total)	30
|_|_|_|_|	2-Ethoxyethanol	INCIN
|_|_|_|_|	2-Nitropropane	INCIN

ornia List Constituents

ate the individual constituents likely to be present in each waste.

_|_|_|	Arsenic - 500 mg/l	|_|_|_|_|	Selenium - 100 mg/l
_|_|_|	Cadmium - 100 mg/l	|_|_|_|_|	Thallium - 130 mg/l
_|_|_|	Chromium - 500 mg/l	|_|_|_|_|	Liquids with PCB's > 50 ppm
_|_|_|	Lead - 500 mg/l	|_|_|_|_|	Wastes containing HOC's
_|_|_|	Mercury - 20 mg/l	|_|_|_|_|	Liquid wastes containing cyanides > 1000 mg/l
_|_|_|	Nickel - 134 mg/l	|_|_|_|_|	Liquid aqueous wastes having a ph <= 2

TACH A UNIVERSAL TREATMENT STANDARDS (UTS) TABLE WHICH INDICATES CONSTITUENTS CONTAINED IN WASTE STREAMS HAVING THESE STE CODES (EXCEPT D001 - HIGH TOC > 10%) WHEN THE CORRESPONDING CONCENTRATION LEVELS SHOWN IN THE UTS TABLE HAVE BEEN CEEDED.

ENTER WASTE CODE AND SUBCATEGORY, IF APPLICABLE, IN THE TABLE BELOW FOR CODES NOT FOUND ABOVE.

.I.	CODE							M.L.I.	CODE	SUBCATEGORY (IF ANY)
_|_|_|	_____	_____	_____	_____	_____	_____	_____	|_|_|_|_|	_____	_____
_|_|_|	_____	_____	_____	_____	_____	_____	_____	|_|_|_|_|	_____	_____
|_|_|_|					_____	_____	_____	|_|_|_|_|	_____	_____

ARDOUS DEBRIS ☐ Yes, debris is subject to the alternative treatment standards of 40 CFR 268.45 - M.I.I. :_____ |_|_|_|_|_|

zene NESHAP Certification:

check the boxes below which indicates your status in regard to the reporting requirements under 40CFR61 Subpart FF:

that our company has evaluated the waste profiles or analyzed the individual streams that were utilized to produce this load, and the following information is curate, and complete to the best of my knowledge.

s waste does not contain benzene which is required to be controlled and treated in accordance with the provisions of 40CFR Subpart FF (61.342(f)(2)).
s waste contains benzene which is required to be controlled and treated in accordance with the provisions of 40CFR61 Subpart FF (61.342(f)(2)).

provide the benzene concentration in the waste shipment, if known: _____ ppm.

BICIDE/PESTICIDE/PCB CERTIFICATION

/ under the penalty of law that I am the original generator of the waste described on the manifest listed above and am familiar with the process by which the was generated and can certify that no herbicides, pesticides, or PCB's above regulatory limits are contained in the waste listed on the manifest.

herbicides, pesticides, or PCB's are present above regulatory limits in our waste when processed, we will be liable to bear all cost for disposal of any waste minated with those materials and the decontamination of all processing equipment contaminated with those materials.

rstand that there are significant penalties for submitting a false certification.

RTIFICATION

y under penalty of law that I have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this cation.

Name Mitchell B. McPherson Sign _____ Date 7-27-01

Appendix C

Certificates of Disposal

Soil

Broadhurst
Environmental, Inc.

JULY 10, 2001

CERTIFICATE OF DISPOSAL

This letter is to certify that all wastes received from Omegasys, Inc. on behalf of CCI/US Navy on the following dates were landfilled in accordance with all state and federal regulations.

SITE NAME: CECIL FIELD – SITE#25

Manifest Number	Tonnage	Dates
14125-14333	5136.16	4/27/01-5/24/01

Waste material = Low level Benzo(a)pyrene,pesticides,PCBS.CONTAMINATED SOIL
Profile number 20154

Disposal Method was D-81 (Subtitle D Landfill)

BROADHURST ENVIRONMENTAL, INC.

John W. Simmons 7/11/01
Date

P. O. Box 278 • Screven, Georgia 31560 • Phone (912) 530-7050 • Fax (912) 530-7070

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 8522792

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 8522093

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 8522794

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☑ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 8522795

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☑ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 8522796

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

Liquid Contents of Oil/Water Separator

INDUSTRIAL WATER SERVICES

Industrial Water Services
1980 Avenue "A"
Mobile, Alabama 36615

Facility:
1980 Avenue "A"
Mobile, Alabama 36615
(334) 694-7500
FAX: (334) 694-7508

Corporate Office:
1-800-447-3592
FAX (904) 350-1313

Customer Service:
1-800-4-IWS-HAUL
800-449-7428

Industrial Water Services, Inc.
P.O. Box 43369
Jacksonville, Florida 32203

Facility:
1705 Danese Street
Jacksonville, Florida 32206
(904) 354-0372
FAX: (904) 354-7612

CERTIFICATE OF COMPLIANCE AND DISPOSAL

This certifies that on the 8th of June, 2001; 700 gallons of non-hazardous waste water from U.S. Navy, Cecil Field, Florida: as described on non-hazardous manifest number P-397-01 was disposed of in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN019.

Facility Name: Industrial Water Services, Inc.

Facility Address: 1640 Talleyrand Avenue
Jacksonville, FL

Facility EPA ID #: FLD 981 928 484

Certified By: Leslie Detlefsen

Signature Leslie Detlefsen

Date: July 25, 2001

Appendix D

Waste Characterization Analytical Reports

Waste Characterization for Soil

1010000 1000101 1100110

PEL Laboratories, Inc.

Customer Name:	CH2MHILL
Date & Time Received:	2-2-01, 10:10 AM
Date Reported:	2-19-01
PEL Submission Number:	2101310
Project:	NAS Cecil Field

Samples: The submission consisted of 10 samples with sample identification shown in the attached data tables.

Tests: The sample was analyzed for EPA method:
TCLP 8260, TCLP 8270, TCLP Pest., TCLP Herb., TCLP Metals, Ignitability, Corrosivity, 8082, 8081, and Reactivity.

Results: See the attached data tables for results.

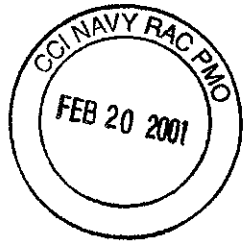
Distribution of Reports:

1-CH2MHILL
Attn: Jennifer Zimmerman
Phone: (904) 777-4812

2-CH2M HILL
Attn: Jeff Wilmoth
Phone: (770) 604-9182

Respectfully Submitted,

Brian Spann
Laboratory Manager
PEL Laboratories, Inc.



Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualitities of apparently identical or similar materials.

4420 Pendola Point Road • Tampa, Florida 33619
(813) 247-2805 • FAX: (813) 248-1537

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Organics

Organic Data Qualifiers

U	Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.
J	Indicates estimated value. It is used when the data indicates the presence of a compound above the method MDL yet lower than the reporting limit.
B	Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.
E	Indicates the value reported is above the highest calibration standard for that compound. The sample should be analyzed at an appropriate dilution. "B" qualified values are estimations and the diluted result will be reported on another Form 1.
D	Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.
C	The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.
P	This qualifier is used for pesticide / Aloclor target analytes where there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 with a "P" code.
N	This qualifier indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.
A	This qualifier indicates that a TIC is suspected aldol-condensation product.
M	This qualifier indicates that the compound is reported as a summation of analyte isomers.
X	Data flagged as rejected by analyst utilizing analytical judgment.

Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis is defined below:

DL	Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.
R	Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.
RE	Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.
MS	Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).
SD	Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

GC/MS VOLATILE ORGANICS

METHOD 8260_TCLP

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHILL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA 8260B/SW846

IV. PREPARATION

The TCLP samples were prepared by EPA 1311/SW846 for volatiles analysis.
All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Initial calibration criteria are stated in SW-846 EPA method 8260B. All analytes have a maximum percent RSD of 15 with the exception of the Calibration Check Compounds that may have a percent RSD of 30.
The CCCs are:
1,1-Dichloroethene, Chloroform, 1,2-Dichloropropane, Toluene, Ethylbenzene and Vinyl chloride. If the CCCs are not part of the target analyte list then they will not be reported on the calibration forms. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, if one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 15. In those instances, the average will be calculated and cited on the calibration forms.

Continuing Calibration criteria is stated in SW-846 EPA method 8260B. All analytes have a maximum percent RSD of 20. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, If one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 20. In those instances, the average will be calculated and cited on the calibration forms.

B. Blanks:

Blank 0208tblk32 analyzed with the TCLP samples was non-detect for all target analytes.

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

C. Surrogates:

All surrogate criteria were met.

D. Spikes:

Laboratory Control Samples (LCS)

One LCS was analyzed with the TCLP samples where all criteria were met for percent recovery.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

The client sample 00525WC01S0201 was analyzed as an MS/SD where 1 out of 20 analytes did not meet the acceptance criteria met for percent recovery. All criteria were met for Relative Percent Difference.

E. Internal standards:

All internal standard criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specific reporting limits were used. The TCLP samples were analyzed at a dilution of 1:10 per PEL protocol. All results are reported in Mg/L.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: Ana Pilo **DATE:** 02/15/21

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method: 8260_TCLP

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010

Sample Data

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131001 Lab File ID 31001.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 2:44 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 1 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131002 Lab File ID 31002.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 3:11 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 2 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131003 Lab File ID 31003.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 3:38 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 3 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131004 Lab File ID 31004.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 4:05 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 4 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131005 Lab File ID 31005.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 4:33 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 5 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131006 Lab File ID 31006.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 5:00 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 6 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131007 Lab File ID 31007.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 5:28 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 7 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131008 Lab File ID 31008.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 5:55 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 Area 8 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131009 Lab File ID 31009.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 6:23 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 / PCB1 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131010 Lab File ID 31010.D

Sample wt/vol: 5 Units: ML Date Received: 2/2/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 6:50 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID Site 25 / PCB2 Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

QC Summary

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0208tblk32

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 0208tblk32 Lab File ID TBLK32.D

Sample wt/vol: 5 Units: ML Date Received: 2/8/2001

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 2/8/2001 Time: 1:13 PM

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: PURGETRAP Station ID QC Method: 8260_TCLP

GPC Cleanup : (Y/N) pH:

GC Column: DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-01-4	Vinyl chloride	0.05	U
75-35-4	1,1-Dichloroethene	0.1	U
78-93-3	2-Butanone (MEK)	20	U
67-66-3	Chloroform	1	U
56-23-5	Carbon tetrachloride	0.1	U
71-43-2	Benzene	0.1	U
107-06-2	1,2-Dichloroethane	0.1	U
79-01-6	Trichloroethene	0.1	U
127-18-4	Tetrachloroethylene	0.7	U
108-90-7	Chlorobenzene	20	U

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

0208TBLK32

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: TBLK32 Lab Sample ID: 0208TBLK32

Date Analyzed: 02/08/01 Time Analyzed: 1313

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Instrument ID: VMS03

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0208LCS31	0208LCS31	LCS32	1123
02	00525WC01S0201MS	210131001MS	31001S	1150
03	00525WC01S0201SD	210131001SD	31001D	1219
04	00525WC01S0201	210131001	31001	1444
05	00525WC02S0201	210131002	31002	1511
06	00525WC03S0201	210131003	31003	1538
07	00525WC04S0201	210131004	31004	1605
08	00525WC05S0201	210131005	31005	1633
09	00525WC06S0201	210131006	31006	1700
10	00525WC07S0201	210131007	31007	1728
11	00525WC08S0201	210131008	31008	1755
12	00525WC09S0201	210131009	31009	1823
13	00525WC10S0201	210131010	31010	1850
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: DB-624 ID: 0.18

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	108	104	112	110			0
00525WC01S0201ms	110	106	108	108			0
00525WC01S0201sd	102	98	100	100			0
00525WC02S0201	108	104	108	108			0
00525WC03S0201	106	106	102	108			0
00525WC04S0201	102	110	110	106			0
00525WC05S0201	108	100	108	106			0
00525WC06S0201	104	102	114	106			0
00525WC07S0201	106	106	110	108			0
00525WC08S0201	104	104	114	104			0
00525WC09S0201	102	102	104	104			0
00525WC10S0201	110	108	108	108			0
0208lcs31	110	110	110	114			0
0208tblk32	110	108	108	108			0

		Control Limits
S1	= Toluene-d8	88 - 110
S2	= 4-Bromofluorobenzene	86 - 115
S3	= 1,2-Dichloroethane-d4	80 - 120
S4	= Dibromofluoromethane	86 - 118

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) LAB

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: BFB31 BFB Injection Date: 02/06/01

Instrument ID: VMS03 BFB Injection Time: 0833

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	20.5	
75	30.0 - 60.0% of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	5.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 100.0% of mass 95	57.0	
175	5.0 - 9.0% of mass 174	3.6	(6.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	54.8	(96.2)1
177	5.0 - 9.0% of mass 176	3.0	(5.4)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1PPBSTD	1PPBSTD	1PPB	02/06/01	1019
02	2PPBSTD	2PPBSTD	2PPB	02/06/01	1046
03	5PPBSTD	5PPBSTD	5PPB	02/06/01	1114
04	10PPBSTD	10PPBSTD	10PPB	02/06/01	1141
05	20PPBSTD	20PPBSTD	20PPB	02/06/01	1209
06	50PPBSTD	50PPBSTD	50PPB	02/06/01	1333
07	60PPBSTD	60PPBSTD	60PPB	02/06/01	1400
08	80PPBSTD	80PPBSTD	80PPB	02/06/01	1428
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: BFB33 BFB Injection Date: 02/08/01

Instrument ID: VMS03 BFB Injection Time: 0931

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	60.6
175	5.0 - 9.0% of mass 174	4.4 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	58.5 (96.5)1
177	5.0 - 9.0% of mass 176	4.5 (7.8)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0208CCV32	0208CCV32	50CCV32	02/08/01	1033
02	0208LCS31	0208LCS31	LCS32	02/08/01	1123
03	00525WC01S0201MS	210131001MS	31001S	02/08/01	1150
04	00525WC01S0201SD	210131001SD	31001D	02/08/01	1219
05	0208TBLK32	0208TBLK32	TBLK32	02/08/01	1313
06	00525WC01S0201	210131001	31001	02/08/01	1444
07	00525WC02S0201	210131002	31002	02/08/01	1511
08	00525WC03S0201	210131003	31003	02/08/01	1538
09	00525WC04S0201	210131004	31004	02/08/01	1605
10	00525WC05S0201	210131005	31005	02/08/01	1633
11	00525WC06S0201	210131006	31006	02/08/01	1700
12	00525WC07S0201	210131007	31007	02/08/01	1728
13	00525WC08S0201	210131008	31008	02/08/01	1755
14	00525WC09S0201	210131009	31009	02/08/01	1823
15	00525WC10S0201	210131010	31010	02/08/01	1850
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID (Standard): 50CCV32 Date Analyzed: 02/08/01

Instrument ID: VMS03 Time Analyzed: 1033

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

GC Column: DB-624 ID: 0.18 (mm) GC Column: DB-624 ID: 0.18 (mm)
Heated Purge: (Y/N) NO

		IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	581728	10.83	281631	13.77	762803	6.97
	UPPER LIMIT	1163456	11.33	563262	14.27	1525606	7.47
	LOWER LIMIT	290864	10.33	140816	13.27	381402	6.47
	EPA SAMPLE NO.						
01	0208LCS31	561767	10.83	259317	13.77	750366	6.97
02	00525WC01S0201MS	588113	10.83	260669	13.78	764675	6.97
03	00525WC01S0201SD	578196	10.83	276565	13.77	795591	6.97
04	0208TBLK32	573458	10.84	237656	13.78	785099	6.97
05	00525WC01S0201	542738	10.83	232262	13.78	750515	6.97
06	00525WC02S0201	528663	10.84	236151	13.78	753439	6.97
07	00525WC03S0201	535194	10.84	234324	13.78	763040	6.97
08	00525WC04S0201	533857	10.83	225791	13.78	763749	6.97
09	00525WC05S0201	525981	10.84	233134	13.78	729556	6.98
10	00525WC06S0201	550412	10.83	234114	13.78	759581	6.98
11	00525WC07S0201	516608	10.83	221107	13.78	718216	6.97
12	00525WC08S0201	521760	10.83	229025	13.78	739021	6.97
13	00525WC09S0201	514812	10.83	224993	13.78	749508	6.97
14	00525WC10S0201	533461	10.83	218028	13.78	722385	6.97
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = CHLOROBENZENE d5 (IS)
IS2 = 1,4-DICHLOROBENZENE-d4 (IS)
IS3 = FLUOROBENZENE (IS)

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk.

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

0208lcs31

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
Vinyl chloride	0.02	0.016	80	70 - 130
1,1-Dichloroethene	0.02	0.02	100	70 - 130
2-Butanone (MEK)	0.06	0.069	115	70 - 130
Chloroform	0.02	0.02	100	70 - 130
Carbon tetrachloride	0.02	0.02	100	70 - 130
Benzene	0.02	0.019	95	70 - 130
1,2-Dichloroethane	0.02	0.018	90	70 - 130
Trichloroethene	0.02	0.018	90	70 - 130
Tetrachloroethylene	0.02	0.017	85	70 - 130
Chlorobenzene	0.02	0.018	90	70 - 130

Spike Recovery: 0 out of 10 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

00525WC01S0201ms

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
Vinyl chloride	0.02	0	0.14	70	70 - 130
1,1-Dichloroethene	0.02	0	0.18	90	70 - 130
2-Butanone (MEK)	0.06	0	0.6	100	70 - 130
Chloroform	0.02	0	0.18	90	70 - 130
Carbon tetrachloride	0.02	0	0.18	90	70 - 130
Benzene	0.02	0	0.19	95	70 - 130
1,2-Dichloroethane	0.02	0	0.17	85	70 - 130
Trichloroethene	0.02	0	0.17	85	70 - 130
Tetrachloroethylene	0.02	0	0.15	75	70 - 130
Chlorobenzene	0.02	0	0.17	85	70 - 130

Spike Recovery: 0 out of 10 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 00525WC01S0201sd

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	0.02	0.13	65*	7.4	50	70 - 130
1,1-Dichloroethene	0.02	0.17	85	5.7	50	70 - 130
2-Butanone (MEK)	0.06	0.6	100	0	50	70 - 130
Chloroform	0.02	0.17	85	5.7	50	70 - 130
Carbon tetrachloride	0.02	0.17	85	5.7	50	70 - 130
Benzene	0.02	0.18	90	5.4	50	70 - 130
1,2-Dichloroethane	0.02	0.16	80	6.1	50	70 - 130
Trichloroethene	0.02	0.17	85	0	50	70 - 130
Tetrachloroethylene	0.02	0.16	80	6.5	50	70 - 130
Chlorobenzene	0.02	0.16	80	6.1	50	70 - 130

RPD 0 out of 10 outside limits

Spike Recovery: 1 out of 10 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Standards Data

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: VMS03 Calibration Date: 02/06/01

Column: DB-624 ID: 0.18 (mm) Calibration Time: 1643

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF3 =5PPB.D RRF4 =10PPB.D RRF5 =20PPB.D

COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD	
Vinyl Chloride	*	0.519	0.371	0.536	0.472	0.334			*
1,1-Dichloroethene		0.616	0.526	0.752	0.632	0.574			
2-Butanone		0.013	0.015	0.029	0.030	0.035			
Chloroform	*	0.638	0.568	0.752	0.612	0.600			*
Carbon tetrachloride		0.302	0.258	0.345	0.310	0.302			
Benzene		1.511	1.306	1.790	1.518	1.405			
1,2-Dichloroethane		0.515	0.493	0.636	0.540	0.514			
Trichloroethylene		0.286	0.227	0.325	0.267	0.272			
Tetrachloroethylene		0.334	0.300	0.387	0.356	0.317			
Chlorobenzene	#	1.197	1.072	1.423	1.316	1.191			#
DIBROMOFLUOROMETHANE (surr			0.253	0.243	0.256	0.254			
TOLUENE d8 (surr)			0.989	0.984	1.066	1.097			
4-BROMOFLUOROBENZENE (surr)			1.103	1.184	1.246	1.209			
1,2-DICHLOROETHANE d4 (surr			0.058	0.062	0.066	0.066			

Calibration Criteria Is Stated In Narrative

FORM VI VOA 1/87 Rev.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: VMS03 Calibration Date: 02/06/01

Column: DB-624 ID: 0.18 (mm) Calibration Time: 1643

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF6 =50PPB.D RRF7 =60PPB.D
RRF8 =80PPB.D

COMPOUND	RRF6	RRF7	RRF8			$\overline{RRF}$	% RSD	
Vinyl Chloride *	0.302	0.321	0.276			0.3914	26.2*	
1,1-Dichloroethene	0.603	0.596	0.561			0.6075	11.1	
2-Butanone	0.034	0.038	0.035			0.0286	32.8	<- JP
Chloroform *	0.584	0.584	0.579			0.6146	9.7*	
Carbon tetrachloride	0.294	0.312	0.298			0.3026	7.9	
Benzene	1.444	1.425	1.405			1.4755	9.7	
1,2-Dichloroethane	0.524	0.515	0.500			0.5296	8.6	
Trichloroethylene	0.272	0.266	0.255			0.2712	10.2	
Tetrachloroethylene	0.304	0.290	0.320			0.3260	9.8	
Chlorobenzene #	1.137	1.123	1.147			1.2008	9.6#	
DIBROMOFLUOROMETHANE (surr	0.251	0.268	0.251			0.2537	2.9	
TOLUENE d8 (surr)	1.039	1.062	1.031			1.0383	4.0	
4-BROMOFLUOROBENZENE (surr)	1.160	1.299	1.266			1.2096	5.5	
1,2-DICHLOROETHANE d4 (surr	0.062	0.067	0.064			0.0636	4.9	

Calibration Criteria Is Stated In Narrative

Average Used: 10.9

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: VMS03 Calibration Date: 02/08/01 Time: 1033

Lab File ID: 50CCV32 Init. Calib. Date:02/06/01 Time: 1643

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF50 for SPCC(#) = 0.100 Max %D for CCC(*) = 20.0%
(0.300 for Chlorobenzene and 1,1,2,2 tetrachloroethane)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Vinyl Chloride *	0.391	0.358	0.1	8.4	20.0*	
1,1-Dichloroethene	0.608	0.567	0.1	6.7	20.0	
2-Butanone	0.029	0.030	0.01	3.4	20.0	
Chloroform *	0.615	0.588	0.2	4.4	20.0*	
Carbon tetrachloride	0.303	0.302	0.1	0.3	20.0	
Benzene	1.476	1.359	0.5	7.9	20.0	
1,2-Dichloroethane	0.530	0.496	0.1	6.4	20.0	
Trichloroethylene	0.271	0.241	0.1	11.1	20.0	
Tetrachloroethylene	0.326	0.255	0.2	21.8	20.0	<- N
Chlorobenzene #	1.201	1.047	0.5	12.8	20.0#	
DIBROMOFLUOROMETHANE (surr)	0.254	0.278	0.01	9.4	20.0	
TOLUENE d8 (surr)	1.038	1.185	0.01	14.2	20.0	
4-BROMOFLUOROBENZENE (surr)	1.210	1.202	0.01	0.7	20.0	
1,2-DICHLOROETHANE d4 (surr)	0.064	0.070	0.01	9.4	20.0	

Average Used: 8.35804

GC/MS SEMI-VOLATILE ORGANICS

METHOD 8270_TCLP

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHILL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8270

IV. PREPARATION

TCLP samples were prepared by EPA SW846 1311 prior to 8270 semi-volatiles preparation.
Water/TCLP samples were prepared by EPA SW846 3510 for 8270 semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Initial calibration criteria is stated in SW-846 EPA method 8270. All analytes have a maximum percent RSD of 15 with the exception of the Calibration Check Compounds which may have a percent RSD of 30. The CCCs are:
Acenapthene, 1,4-Dichlorobenzene, Hexachlorobutadiene, Diphenylamine, Di-n-octyl phthalate, Fluoranthene, Benzo (a) pyrene, 4-Chloro-3-methylphenol, 2,4-Dichlorophenol, 2-Nitrophenol, Phenol, Pentachlorophenol and 2,4,6-Trichlorophenol. If the CCCs are not part of the target analyte list then they will not be reported on the calibration forms. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1 and SW-846 method 8270; section 7.371, if one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 15. In those instances, the average will be calculated and cited on the calibration forms.

Calibration verification criteria is stated in SW-846 EPA method 8270. All analytes have a maximum percent D of 20. As per SW-846 EPA method 8000; Section 7.7, if one or more of the analytes exceed the maximum percent D the average percent D may be used provided the average is less than or equal to 20. In those instances, the average will be calculated and cited on the calibration forms.

B. Blanks:

There was one blank analyzed associated with the TCLP sample that was non-detect for target parameters.

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

C. Surrogates:

All of the surrogate recoveries met acceptable criteria for the TCLP samples.

D. Spikes:

Laboratory Control Spikes (LCS)

One LCS, 0208LCSA1, was analyzed with the water samples which did not meet the criteria one out of the 12 target parameters.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

There was one MS analyzed with the TCLP samples, on sample 00525WC03S0201 that met all criteria for percent recovery set forth by the project instructions.

E. Internal standards:

All internal standard criteria were met for the TCLP samples.

F. Samples:

Sample analysis proceeded normally. Specific RLs were used per client request. All samples and quality control samples were analyzed after a calibration curve.

TCLP results are reported in mg/L

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: Zina Kaene **DATE:** 2/15/01

SEMI-VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method: 8270_TCLP

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010

Sample Data

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131001 Lab File ID 310-01.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 11:57 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 1 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131002 Lab File ID 310-02.D

Sample wt/vol: 350 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 12:35 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 2 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131003 Lab File ID 310-03.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 1:13 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 3 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131004 Lab File ID 310-04.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 2:32 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 4 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131005 Lab File ID 310-05.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 3:11 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 5 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131006 Lab File ID 310-06.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 3:49 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 6 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131007 Lab File ID 310-07.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 4:27 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 7 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131008 Lab File ID 310-08.D

Sample wt/vol: 480 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 5:05 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 8 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No : 2101310

Matrix: WATER Lab Sample ID 210131009 Lab File ID 310-09.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 5:45 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB1 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131010 Lab File ID 310-10.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 6:23 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB2 Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
782-06-0	3/4-Methylphenol	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.01	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.02	U

QC Summary

SEMI-VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0208BLKA1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID: 0208BLKA1 Lab File ID: BLKA1.D

Sample wt/vol: 1000 Units: ML Date Received: 2/8/01

Concentrated Extract Volume: 1 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 9:21 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: QC Method: 8270_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: HPMS-5 ID: 0.25 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
110-86-1	Pyridine	0.005	U
106-46-7	1,4-Dichlorobenzene	0.005	U
95-48-7	2-Methylphenol	0.005	U
67-72-1	Hexachloroethane	0.005	U
782-06-0	3/4-Methylphenol	0.005	U
98-95-3	Nitrobenzene	0.005	U
87-68-3	Hexachlorobutadiene	0.005	U
88-06-2	2,4,6-Trichlorophenol	0.005	U
95-95-4	2,4,5-Trichlorophenol	0.005	U
121-14-2	2,4-Dinitrotoluene	0.005	U
118-74-1	Hexachlorobenzene	0.005	U
87-86-5	Pentachlorophenol	0.01	U

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

0208BLKA1

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: BLKA1 Lab Sample ID: 0208BLKA1

Instrument ID: SMSD02 Date Extracted: 02/08/01

Matrix: (soil/water) WATER Date Analyzed: 02/10/01

Level: (low/med) LOW Time Analyzed: 0921

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0208LCSA1	0208LCSA1	LCSA1	02/10/01
02	00525WC01S0201	210131001	310-01	02/10/01
03	00525WC02S0201	210131002	310-02	02/10/01
04	00525WC03S0201	210131003	310-03	02/10/01
05	00525WC03S0201MS	210131003MS	310-03S	02/10/01
06	00525WC04S0201	210131004	310-04	02/10/01
07	00525WC05S0201	210131005	310-05	02/10/01
08	00525WC06S0201	210131006	310-06	02/10/01
09	00525WC07S0201	210131007	310-07	02/10/01
10	00525WC08S0201	210131008	310-08	02/10/01
11	00525WC09S0201	210131009	310-09	02/10/01
12	00525WC10S0201	210131010	310-10	02/10/01
13				
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COMMENTS:

WATER SEMI-VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: HPMS-5 ID: 0.25

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	70.3	59.3	81.5	81.5	95.8	81.5	0
00525WC02S0201	72.9	66.2	80.4	77.6	93.2	80.8	0
00525WC03S0201	62.3	51.3	82.5	86	95.8	79	0
00525WC03S0201MS	71.5	57	81.5	84	95	87	0
00525WC04S0201	68.5	59.3	79	78.5	90.3	53.5	0
00525WC05S0201	73.8	66.5	83	86	96.5	76	0
00525WC06S0201	70.5	62	78	87	100.5	83.5	0
00525WC07S0201	75.3	65	82.5	85.5	97.3	88.5	0
00525WC08S0201	69.5	59	80.8	82.7	93	92.8	0
00525WC09S0201	63.5	53.8	78.5	79	86	84.5	0
00525WC10S0201	68.8	58.3	79	82	93.8	92	0
0208BLKA1	53.5	38.5	78.4	82.1	91	87	0
0208LCSA1	55.5	38.2	83.8	91.1	100	91.6	0

		Control Limits
S1	= 2-Fluorophenol	25 - 125
S2	= Phenol-d5	25 - 125
S3	= Nitrobenzene-d5	32 - 125
S4	= 2-Fluorobiphenyl	43 - 125
S5	= 2,4,6-Tribromophenol	25 - 134
S6	= Terphenyl-d14	42 - 126

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: DFTPP DFTPP Injection Date: 02/08/01

Instrument ID: SMSD02 DFTPP Injection Time: 1359

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	64.3
70	Less than 2.0% of mass 69	0.2 (0.2)1
127	40.0 - 60.0% of mass 198	50.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	18.6
365	1.0 - 100.0% of mass 198	2.1
441	Present, but less than mass 443	9.3
442	40.0 - 100.0% of mass 198	63.3
443	17.0 - 23.0% of mass 442	12.4 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	100STD	100STD	100STD	02/08/01	1425
02	75STD	75STD	75STD	02/08/01	1504
03	60STD	60STD	60STD	02/08/01	1547
04	45STD	45STD	45STD	02/08/01	1625
05	20STD	20STD	20STD	02/08/01	1704
06	10STD	10STD	10STD	02/08/01	1743
07	5STD	5STD	5STD	02/08/01	1822
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID: DFTPP DFTPP Injection Date: 02/10/01

Instrument ID: SMSD02 DFTPP Injection Time: 0822

GC Column: HPMS-5 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	56.9	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Less than 100.0% of mass 198	70.7	
70	Less than 2.0% of mass 69	0.0	(0.0)
127	40.0 - 60.0% of mass 198	53.7	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0% of mass 198	6.6	
275	10.0 - 30.0% of mass 198	17.7	
365	1.0 - 100.0% of mass 198	1.9	
441	Present, but less than mass 443	6.0	
442	40.0 - 100.0% of mass 198	41.2	
443	17.0 - 23.0% of mass 442	8.0	(19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		45CCV1	45CCV1	02/10/01	0842
02	0208BLKA1	0208BLKA1	BLKA1	02/10/01	0921
03	0208LCSA1	0208LCSA1	LCSA1	02/10/01	1118
04	00525WC01S0201	210131001	310-01	02/10/01	1157
05	00525WC02S0201	210131002	310-02	02/10/01	1235
06	00525WC03S0201	210131003	310-03	02/10/01	1313
07	00525WC03S0201MS	210131003MS	310-03S	02/10/01	1352
08	00525WC04S0201	210131004	310-04	02/10/01	1432
09	00525WC05S0201	210131005	310-05	02/10/01	1511
10	00525WC06S0201	210131006	310-06	02/10/01	1549
11	00525WC07S0201	210131007	310-07	02/10/01	1627
12	00525WC08S0201	210131008	310-08	02/10/01	1705
13	00525WC09S0201	210131009	310-09	02/10/01	1745
14	00525WC10S0201	210131010	310-10	02/10/01	1823
15					
16					
17					
18					
19					

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID (Standard): 45CCV1 Date Analyzed: 02/10/01

Instrument ID: SMSD02 Time Analyzed: 0842

GC Column: HPMS-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT	IS2 (NPT) AREA #	RT	IS3 (ANT) AREA #	RT
	12 HOUR STD	491473	4.88	1797039	5.99	942278	8.24
	UPPER LIMIT	982946	5.38	3594078	6.49	1884556	8.74
	LOWER LIMIT	245737	4.38	898520	5.49	471139	7.74
	EPA SAMPLE NO.						
01	0208BLKA1	483643	4.87	1741009	5.98	952759	8.24
02	0208LCSA1	496399	4.87	1744155	5.99	921131	8.25
03	00525WC01S0201	487005	4.87	1770553	5.97	972489	8.23
04	00525WC02S0201	482189	4.87	1701979	5.98	993675	8.24
05	00525WC03S0201	533451	4.88	1806021	5.98	948825	8.24
06	00525WC03S0201MS	476114	4.88	1731976	5.98	941936	8.24
07	00525WC04S0201	503674	4.88	1747560	5.98	981603	8.24
08	00525WC05S0201	502565	4.88	1786688	5.98	950263	8.24
09	00525WC06S0201	507909	4.88	1797316	5.98	951512	8.24
10	00525WC07S0201	533005	4.88	1912012	5.98	1015865	8.24
11	00525WC08S0201	520204	4.88	1849356	5.98	982233	8.24
12	00525WC09S0201	518131	4.87	1796453	5.99	971689	8.25
13	00525WC10S0201	534151	4.88	1864635	5.98	1011260	8.24
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab File ID (Standard): 45CCV1 Date Analyzed: 02/10/01

Instrument ID: SMSD02 Time Analyzed: 0842

GC Column: HPMS-5 ID: 0.25 (mm)

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	1459825	10.77	1117096	15.87	1110600	18.45
	UPPER LIMIT	2919650	11.27	2234192	16.37	2221200	18.95
	LOWER LIMIT	729913	10.27	558548	15.37	555300	17.95
	EPA SAMPLE NO.						
01	0208BLKA1	1418233	10.75	1160630	15.85	1220984	18.44
02	0208LCSA1	1393196	10.76	1132633	15.86	1173759	18.45
03	00525WC01S0201	1451830	10.75	1173929	15.85	1202475	18.44
04	00525WC02S0201	1364660	10.75	1140733	15.85	1211113	18.45
05	00525WC03S0201	1430923	10.76	1241136	15.85	1273200	18.45
06	00525WC03S0201MS	1422348	10.77	1160564	15.86	1176752	18.46
07	00525WC04S0201	1425378	10.76	1169686	15.86	1207137	18.45
08	00525WC05S0201	1387688	10.76	1155546	15.86	1238824	18.45
09	00525WC06S0201	1363517	10.76	1175077	15.86	1195339	18.45
10	00525WC07S0201	1516116	10.76	1206487	15.86	1299657	18.45
11	00525WC08S0201	1429966	10.76	1176886	15.86	1275667	18.44
12	00525WC09S0201	1461524	10.75	1210795	15.85	1233558	18.45
13	00525WC10S0201	1480500	10.76	1189780	15.85	1271193	18.45
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

SEMI-VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 0208LCSA1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
Pyridine	0.04	0.017	41.8 *	70 - 130
1,4-Dichlorobenzene	0.04	0.029	73	70 - 130
2-Methylphenol	0.04	0.035	88	70 - 130
Hexachloroethane	0.04	0.028	70.8	70 - 130
3/4-Methylphenol	0.04	0.031	77.8	70 - 130
Nitrobenzene	0.04	0.036	89.5	70 - 130
Hexachlorobutadiene	0.04	0.031	78.5	70 - 130
2,4,6-Trichlorophenol	0.04	0.041	103	70 - 130
2,4,5-Trichlorophenol	0.04	0.041	102.5	70 - 130
2,4-Dinitrotoluene	0.04	0.044	109.8	70 - 130
Hexachlorobenzene	0.04	0.04	98.8	70 - 130
Pentachlorophenol	0.04	0.04	100.3	70 - 130

Spike Recovery: 1 out of 12 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

SEMI-VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 00525WC03S0201MS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
Pyridine	0.08	0	0.046	57.3	50 - 150
1,4-Dichlorobenzene	0.08	0	0.055	69.1	50 - 150
2-Methylphenol	0.08	0	0.08	100.3	50 - 150
Hexachloroethane	0.08	0	0.057	71.8	50 - 150
3/4-Methylphenol	0.08	0	0.078	97.6	50 - 150
Nitrobenzene	0.08	0	0.069	85.6	50 - 150
Hexachlorobutadiene	0.08	0	0.055	69	50 - 150
2,4,6-Trichlorophenol	0.08	0	0.079	99	50 - 150
2,4,5-Trichlorophenol	0.08	0	0.076	94.9	50 - 150
2,4-Dinitrotoluene	0.08	0	0.083	104.3	50 - 150
Hexachlorobenzene	0.08	0	0.078	96.9	50 - 150
Pentachlorophenol	0.08	0	0.08	100.5	50 - 150

Spike Recovery: 0 out of 12 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS:

Standards Data

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SMSD02 Calibration Date: 02/08/01

Column: HPMS-5 ID: 0.25 (mm) Calibration Time: 1822

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF5 =5STD.D RRF10 =10STD.D
RRF20 =20STD.D RRF45 =45STD.D RRF60 =60STD.D

COMPOUND		RRF5	RRF10	RRF20	RRF45	RRF60	$\overline{RRF}$	% RSD	
Pyridine		1.172	1.230	1.364	1.238	1.369			
1,4-Dichlorobenzene	*	1.530	1.501	1.553	1.545	1.467			*
2-Methylphenol		1.384	1.435	1.460	1.422	1.286			
Hexachloroethane		0.680	0.707	0.729	0.682	0.655			
m and p-Methylphenol		1.470	1.501	1.571	1.380	1.384			
Nitrobenzene		0.486	0.471	0.516	0.437	0.419			
Hexachlorobutadiene	*	0.154	0.154	0.172	0.159	0.158			*
2,4,6-Trichlorophenol	*	0.333	0.352	0.385	0.380	0.384			*
2,4,5-Trichlorophenol		0.314	0.358	0.386	0.387	0.385			
2,4-Dinitrotoluene		0.378	0.423	0.479	0.475	0.475			
Hexachlorobenzene		0.247	0.239	0.272	0.269	0.268			
Pentachlorophenol	*		0.141	0.168	0.174	0.176			*
2-Fluorophenol (SURR)		1.447	1.594	1.646	1.738	1.488			
Phenol-d5 (SURR)		2.060	2.113	2.034	1.806	1.632			
Nitrobenzene-d5 (SURR)		0.501	0.486	0.507	0.464	0.447			
2-Fluorobiphenyl (SURR)		1.230	1.294	1.334	1.261	1.309			
2,4,6-Tribromophenol (SURR)		0.115	0.122	0.145	0.145	0.146			
Terphenyl-d14 (SURR)		0.678	0.679	0.770	0.722	0.744			

Calibration Criteria Is Stated In Narrative

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SMSD02 Calibration Date: 02/08/01

Column: HPMS-5 ID: 0.25 (mm) Calibration Time: 1822

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF75 =75STD.D RRF100=100STD.D

COMPOUND	RRF75	RRF100				$\overline{RRF}$	% RSD
Pyridine	1.322	1.364				1.2941	6.2
1,4-Dichlorobenzene *	1.492	1.386				1.4963	3.8*
2-Methylphenol	1.340	1.269				1.3708	5.5
Hexachloroethane	0.650	0.592				0.6707	6.6
m and p-Methylphenol	1.398	1.329				1.4333	5.9
Nitrobenzene	0.421	0.406				0.4508	9.0
Hexachlorobutadiene *	0.152	0.166				0.1593	4.5*
2,4,6-Trichlorophenol *	0.388	0.378				0.3714	5.6*
2,4,5-Trichlorophenol	0.392	0.376				0.3711	7.4
2,4-Dinitrotoluene	0.497	0.475				0.4574	9.1
Hexachlorobenzene	0.258	0.269				0.2603	5.0
Pentachlorophenol *	0.178	0.186				0.1705	9.1*
2-Fluorophenol (SURR)	1.473	1.395				1.5401	8 0
Phenol-d5 (SURR)	1.675	1.613				1.8476	1 . 8
Nitrobenzene-d5 (SURR)	0.448	0.455				0.4726	5.3
2-Fluorobiphenyl (SURR)	1.306	1.211				1.2778	3.5
2,4,6-Tribromophenol (SURR)	0.145	0.151				0.1384	10.0
Terphenyl-d14 (SURR)	0.721	0.712				0.7180	4.6

Calibration Criteria Is Stated In Narrative

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SMSD02 Calibration Date: 02/10/01 Time: 0842

Lab File ID: 45CCV1 Init. Calib. Date:02/08/01 Time: 1822

GC Column: HPMS-5 ID: 0.25 (mm)

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 20.0%

COMPOUND		$\overline{RRF}$	RRF45	MIN RRF	%D	MAX %D
Pyridine		1.294	1.238	0.01	4.3	20.0
1,4-Dichlorobenzene	*	1.496	1.545	0.01	3.3	20.0*
2-Methylphenol		1.371	1.422	0.01	3.7	20.0
Hexachloroethane		0.671	0.682	0.01	1.6	20.0
m and p-Methylphenol		1.433	1.380	0.01	3.7	20.0
Nitrobenzene		0.451	0.437	0.01	3.1	20.0
Hexachlorobutadiene	*	0.159	0.159	0.01	0.0	20.0*
2,4,6-Trichlorophenol	*	0.371	0.380	0.01	2.4	20.0*
2,4,5-Trichlorophenol		0.371	0.387	0.01	4.3	20.0
2,4-Dinitrotoluene		0.457	0.475	0.01	3.9	20.0
Hexachlorobenzene		0.260	0.269	0.01	3.5	20.0
Pentachlorophenol	*	0.170	0.174	0.01	2.4	20.0*
2-Fluorophenol (SURR)		1.540	1.738	0.01	12.8	20.0
Phenol-d5 (SURR)		1.848	1.806	0.01	2.3	20.0
Nitrobenzene-d5 (SURR)		0.472	0.464	0.01	1.7	20.0
2-Fluorobiphenyl (SURR)		1.278	1.261	0.01	1.3	20.0
2,4,6-Tribromophenol (SURR)		0.138	0.145	0.01	5.1	20.0
Terphenyl-d14 (SURR)		0.718	0.722	0.01	0.6	20.0

FORM VII SV-1

GC/ECD PESTICIDE ORGANICS

METHOD 8081_TCLP

CASE NARRATIVE
GC/ECD SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHILL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8081

IV. PREPARATION

TCLP samples were prepared by EPA SW846 1311 for 8081 semi-volatiles analysis.
Water/TCLP samples were prepared by EPA SW846 3510 for 8081 semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. The continuing calibration verification standards for the 8081 analytical runs did not meet the less than 15 % D criteria for all analytes. The average % D was used as per SW846 method 8000 section 7.7. The average % D is noted on the form 7 as required.

The Pesticide standards correspond to the following calibration files for pesticide concentration at the instrument level:
CAL1= 0.005ug/mL
CAL2=0.01ug/mL
CAL3=0.02ug/mL
CAL4=0.04ug/mL
CAL5=0.06ug/ml
CAL6=0.08ug/mL
CAL7=0.1ug/mL
CAL8=0.15ug/mL
Toxaphene and Chlordane are run with a one-point calibration per EPA SW846 8081 method. The concentration of the standard is 1.0ug/mL at the instrument.

B. Blanks:

There was one blank analyzed associated with the TCLP samples that was non-detect for target parameters.

C. Surrogates:

The surrogates met all criteria for the TCLP.

CASE NARRATIVE
GC/ECD SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

C. Spikes:

Laboratory Control Spikes (LCS)

One regular LCS, tlcs0208, was analyzed with the TCLP samples where all criteria were met.
One Tox LCS, ttlcs0208, was analyzed with the TCLP samples where all criteria were met.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

There was one reagent MS/SD sample analyzed with the TCLP samples, where all acceptance criteria were met percent recovery.

E. Internal standards:

All internal standard criteria were met for the water samples.

F. Samples:

Sample analysis proceeded normally. Data was collected using dual column analysis. Specific RLs were used per client instructions.

TCLP's are reported in mg/L per client request.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: Lisa Kane **DATE:** 2/19/01

PESTICIDE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method: 8081_TCLP

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010

Sample Data

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131001 Lab File ID 31001A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 9:18 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 1 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131002 Lab File ID 31002A.D

Sample wt/vol: 350 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 9:48 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 2 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.03	U
8001-35-2	Toxaphene	0.03	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131003 Lab File ID 31003A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 10:17 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 3 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131004 Lab File ID 31004A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 10:47 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 4 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131005 Lab File ID 31005A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 11:17 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 5 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.0011	J
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131006 Lab File ID 31006A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 2:14 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 6 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GO Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131007 Lab File ID 31007A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 2:44 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 7 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.0018	J
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131008 Lab File ID 31008A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 3:14 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 8 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131009 Lab File ID 31009A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 4:13 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB1 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131010 Lab File ID 31010A.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/10/01 Time: 4:43 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB2 Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.0001	U
76-44-8	Heptachlor	0.0001	U
1024-57-3	Heptachlor epoxide	0.0001	U
72-20-8	Endrin	0.0001	U
72-43-5	Methoxychlor	0.0001	U
57-74-9	Chlordane	0.02	U
8001-35-2	Toxaphene	0.02	U

QC Summary

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0208blka

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 0208blka Lab File ID 8BLKA.D

Sample wt/vol: 1000 Units: ML Date Received: 2/8/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 6:50 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID QC Method: 8081_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
58-89-9	Gamma-BHC (Lindane)	0.00005	U
76-44-8	Heptachlor	0.00005	U
1024-57-3	Heptachlor epoxide	0.00005	U
72-20-8	Endrin	0.00005	U
72-43-5	Methoxychlor	0.00005	U
57-74-9	Chlordane	0.01	U
8001-35-2	Toxaphene	0.01	U

FORM 4
SVPEST METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0208BLKA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208BLKA Lab File ID: 8BLKA

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 02/08/01

Date Analyzed (1): 02/09/01 Date Analyzed (2): 02/09/01

Time Analyzed (1): 1850 Time Analyzed (2): 1850

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	0208BLKAMS	0208BLKAMS	02/09/01	02/09/01
02	0208BLKASD	0208BLKAMSD	02/09/01	02/09/01
03	0208LCSA	0208LCSA	02/09/01	02/09/01
04	0208TOXLCS	0208TOXLCS	02/09/01	02/09/01
05	00525WC01S0201	210131001	02/09/01	02/09/01
06	00525WC02S0201	210131002	02/09/01	02/09/01
07	00525WC03S0201	210131003	02/09/01	02/09/01
08	00525WC04S0201	210131004	02/09/01	02/09/01
09	00525WC05S0201	210131005	02/09/01	02/09/01
10	00525WC06S0201	210131006	02/10/01	02/10/01
11	00525WC07S0201	210131007	02/10/01	02/10/01
12	00525WC08S0201	210131008	02/10/01	02/10/01
13	00525WC09S0201	210131009	02/10/01	02/10/01
14	00525WC10S0201	210131010	02/10/01	02/10/01
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

WATER PESTICIDE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: XTI-5 & RTX-170 ID: 0.53

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	80	75					0
00525WC02S0201	75	82.1					0
00525WC03S0201	65	65					0
00525WC04S0201	65	60					0
00525WC05S0201	50	65					0
00525WC06S0201	65	60					0
00525WC07S0201	70	47					0
00525WC08S0201	60	60					0
00525WC09S0201	70	60					0
00525WC10S0201	65	70					0
0208blka	72	69					0
0208blkams	77	75					0
0208blkasd	80	74					0
0208lcsa	73	64					0
0208toxlcs	74	64					0

Control Limits

S1 = Decachlorobiphenyl 34 - 133

S2 = 2,4,5,6-Tetrachloro-m-xylene 45 - 125

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) LAB

Form II

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEM	PEM	02/05/01	1025		
02	PCAL8	PCAL8	02/05/01	1055	4.35	21.87
03	PCAL7	PCAL7	02/05/01	1125	4.35	21.87
04	PCAL6	PCAL6	02/05/01	1154	4.35	21.87
05	PCAL5	PCAL5	02/05/01	1224	4.35	21.86
06	PCAL4	PCAL4	02/05/01	1254	4.35	21.87
07	PCAL3	PCAL3	02/05/01	1324	4.35	21.87
08	PCAL2	PCAL2	02/05/01	1353	4.35	21.87
09	PCAL1	PCAL1	02/05/01	1423	4.35	21.87
10	TOXCAL	TOXCAL	02/05/01	1453		
11	CHLORCAL	CHLORCAL	02/05/01	1523		
12	PEM4	PEM4	02/06/01	1714		
13	PEST CCV4	PEST CCV4	02/06/01	1743	4.35	21.87
14	TOX CCV4	TOX CCV4	02/06/01	1813		
15	CHLOR CCV4	CHLOR CCV4	02/06/01	1843		
16	ZZZZZ	ZZZZZ	02/06/01	1912	4.35	21.87
17	ZZZZZ	ZZZZZ	02/06/01	1942	4.35	21.86
18	ZZZZZ	ZZZZZ	02/06/01	2012	4.35	21.86
19	ZZZZZ	ZZZZZ	02/06/01	2041	4.35	21.87
20	ZZZZZ	ZZZZZ	02/06/01	2111	4.35	21.86
21	ZZZZZ	ZZZZZ	02/06/01	2141	4.35	21.87
22	ZZZZZ	ZZZZZ	02/06/01	2210	4.35	21.87
23	ZZZZZ	ZZZZZ	02/06/01	2240	4.35	21.87
24	ZZZZZ	ZZZZZ	02/06/01	2309	4.35	21.87
25	ZZZZZ	ZZZZZ	02/06/01	2339	4.35	21.87
26	ZZZZZ	ZZZZZ	02/07/01	0008	4.35	21.87
27	ZZZZZ	ZZZZZ	02/07/01	0038	4.35	21.87
28	ZZZZZ	ZZZZZ	02/07/01	0108	4.35	21.87
29	PEM5	PEM5	02/07/01	0207		
30	PEST CCV5	PEST CCV5	02/07/01	0237	4.35	21.87
31	TOX CCV5	TOX CCV5	02/07/01	0306		
32	CHLOR CCV5	CHLOR CCV5	02/07/01	0336		

QC LIMITS

S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/07/01	0405	4.36	21.87
02	ZZZZZ	ZZZZZ	02/07/01	0435	4.36	21.87
03	ZZZZZ	ZZZZZ	02/07/01	0505	4.36	21.87
04	ZZZZZ	ZZZZZ	02/07/01	0633	4.36	21.87
05	PEST CCV6	PEST CCV6	02/07/01	0900	4.38	21.87
06	CHLOR CCV6	CHLOR CCV6	02/07/01	1000		
07	PEM14	PEM14	02/09/01	1650		
08	PEST CCV14	PEST CCV14	02/09/01	1720	4.34	21.86
09	TOX CCV14	TOX CCV14	02/09/01	1750		
10	CHLOR CCV14	CHLOR CCV14	02/09/01	1820		
11	0208BLKA	0208BLKA	02/09/01	1850	4.34	21.86
12	0208BLKAMS	0208BLKAMS	02/09/01	1919	4.35	21.86
13	0208BLKASD	0208BLKAMSD	02/09/01	1949	4.35	21.86
14	0208LCSA	0208LCSA	02/09/01	2019	4.35	21.86
15	0208TOXLCS	0208TOXLCS	02/09/01	2048	4.35	21.86
16	00525WC01S0201	210131001	02/09/01	2118	4.34	21.86
17	00525WC02S0201	210131002	02/09/01	2148	4.35	21.86
18	00525WC03S0201	210131003	02/09/01	2217	4.34	21.86
19	00525WC04S0201	210131004	02/09/01	2247	4.35	21.86
20	00525WC05S0201	210131005	02/09/01	2317	4.34	21.86
21	PEM15	PEM15	02/10/01	0016		
22	PEST CCV15	PEST CCV15	02/10/01	0045	4.35	21.86
23	TOX CCV15	TOX CCV15	02/10/01	0115		
24	CHLOR CCV15	CHLOR CCV15	02/10/01	0145		
25	00525WC06S0201	210131006	02/10/01	0214	4.35	21.86
26	00525WC07S0201	210131007	02/10/01	0244	4.35	21.86
27	00525WC08S0201	210131008	02/10/01	0314	4.35	21.86
28	00525WC09S0201	210131009	02/10/01	0413	4.35	21.86
29	00525WC10S0201	210131010	02/10/01	0443	4.35	21.86
30	ZZZZZ	ZZZZZ	02/10/01	0512	4.35	21.87
31	ZZZZZ	ZZZZZ	02/10/01	0612	4.35	21.86
32	ZZZZZ	ZZZZZ	02/10/01	0644	4.36	21.87

QC LIMITS

S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEM16	PEM16	02/10/01	2020		
02	PEST CCV16	PEST CCV16	02/10/01	2050	4.35	21.86
03	TOX CCV16	TOX CCV16	02/10/01	2119		
04	CHLORCCV16	CHLORCCV16	02/10/01	2149		
05	ZZZZZ	ZZZZZ	02/10/01	2219	4.35	21.86
06	ZZZZZ	ZZZZZ	02/11/01	0017	4.35	21.86
07	ZZZZZ	ZZZZZ	02/11/01	0047	4.35	21.86
08	PEST CCV17	PEST CCV17	02/11/01	0414	4.35	21.86
09						
10						
11						
12						
13						
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31						
32						

QC LIMITS

S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEM	PEM	02/05/01	1025		
02	PCAL8	PCAL8	02/05/01	1055	4.71	22.21
03	PCAL7	PCAL7	02/05/01	1125	4.71	22.21
04	PCAL6	PCAL6	02/05/01	1154	4.71	22.21
05	PCAL5	PCAL5	02/05/01	1224	4.71	22.21
06	PCAL4	PCAL4	02/05/01	1254	4.71	22.21
07	PCAL3	PCAL3	02/05/01	1324	4.71	22.21
08	PCAL2	PCAL2	02/05/01	1353	4.71	22.21
09	PCAL1	PCAL1	02/05/01	1423	4.71	22.21
10	TOXCAL	TOXCAL	02/05/01	1453		
11	CHLORCAL	CHLORCAL	02/05/01	1523		
12	PEM4	PEM4	02/06/01	1714		
13	PEST CCV4	PEST CCV4	02/06/01	1743	4.71	22.21
14	TOX CCV4	TOX CCV4	02/06/01	1813		
15	CHLOR CCV4	CHLOR CCV4	02/06/01	1843		
16	ZZZZZ	ZZZZZ	02/06/01	1912	4.71	22.21
17	ZZZZZ	ZZZZZ	02/06/01	1942	4.71	22.21
18	ZZZZZ	ZZZZZ	02/06/01	2012	4.71	22.21
19	ZZZZZ	ZZZZZ	02/06/01	2041	4.71	22.21
20	ZZZZZ	ZZZZZ	02/06/01	2111	4.71	22.21
21	ZZZZZ	ZZZZZ	02/06/01	2141	4.71	22.21
22	ZZZZZ	ZZZZZ	02/06/01	2210	4.71	22.21
23	ZZZZZ	ZZZZZ	02/06/01	2240	4.71	22.21
24	ZZZZZ	ZZZZZ	02/06/01	2309	4.71	22.21
25	ZZZZZ	ZZZZZ	02/06/01	2339	4.71	22.21
26	ZZZZZ	ZZZZZ	02/07/01	0008	4.71	22.21
27	ZZZZZ	ZZZZZ	02/07/01	0038	4.71	22.21
28	ZZZZZ	ZZZZZ	02/07/01	0108	4.71	22.21
29	PEM5	PEM5	02/07/01	0207		
30	PEST CCV5	PEST CCV5	02/07/01	0237	4.71	22.21
31	TOX CCV5	TOX CCV5	02/07/01	0306		
32	CHLOR CCV5	CHLOR CCV5	02/07/01	0336		

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/07/01	0405	4.72	22.21
02	ZZZZZ	ZZZZZ	02/07/01	0435	4.72	22.22
03	ZZZZZ	ZZZZZ	02/07/01	0505	4.72	22.22
04	ZZZZZ	ZZZZZ	02/07/01	0633	4.72	22.22
05	PEST CCV6	PEST CCV6	02/07/01	0900	4.72	22.21
06	PEM14	PEM14	02/09/01	1650		
07	PEST CCV14	PEST CCV14	02/09/01	1720	4.70	22.21
08	TOX CCV14	TOX CCV14	02/09/01	1750		
09	CHLOR CCV14	CHLOR CCV14	02/09/01	1820		
10	0208BLKA	0208BLKA	02/09/01	1850	4.70	22.21
11	0208BLKAMS	0208BLKAMS	02/09/01	1919	4.71	22.21
12	0208BLKASD	0208BLKAMSD	02/09/01	1949	4.71	22.21
13	0208LCSA	0208LCSA	02/09/01	2019	4.71	22.21
14	0208TOXLCS	0208TOXLCS	02/09/01	2048	4.71	22.21
15	00525WC01S0201	210131001	02/09/01	2118	4.71	22.21
16	00525WC02S0201	210131002	02/09/01	2148	4.71	22.21
17	00525WC03S0201	210131003	02/09/01	2217	4.70	22.21
18	00525WC04S0201	210131004	02/09/01	2247	4.71	22.21
19	00525WC05S0201	210131005	02/09/01	2317	4.71	22.21
20	PEM15	PEM15	02/10/01	0016		
21	PEST CCV15	PEST CCV15	02/10/01	0045	4.71	22.21
22	TOX CCV15	TOX CCV15	02/10/01	0115		
23	CHLOR CCV15	CHLOR CCV15	02/10/01	0145		
24	00525WC06S0201	210131006	02/10/01	0214	4.71	22.21
25	00525WC07S0201	210131007	02/10/01	0244	4.71	22.21
26	00525WC08S0201	210131008	02/10/01	0314	4.71	22.21
27	00525WC09S0201	210131009	02/10/01	0413	4.71	22.21
28	00525WC10S0201	210131010	02/10/01	0443	4.71	22.21
29	ZZZZZ	ZZZZZ	02/10/01	0512	4.71	22.21
30	ZZZZZ	ZZZZZ	02/10/01	0612	4.71	22.21
31	ZZZZZ	ZZZZZ	02/10/01	0644	4.71	22.21
32	PEM16	PEM16	02/10/01	2020		

QC LIMITS

S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEST CCV16	PEST CCV16	02/10/01	2050	4.71	22.21
02	TOX CCV16	TOX CCV16	02/10/01	2119		
03	CHLOR CCV16	CHLOR CCV16	02/10/01	2149		
04	ZZZZZ	ZZZZZ	02/10/01	2219	4.71	22.21
05	ZZZZZ	ZZZZZ	02/11/01	0017	4.71	22.21
06	ZZZZZ	ZZZZZ	02/11/01	0047	4.71	22.21
07	PEST CCV17	PEST CCV17	02/11/01	0414	4.71	22.21
08						
09						
10						
11						
12						
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27						
28						
29						
30						
31						
32						

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC01S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	759546	0.200	0.200	
	2	8.223	8.227	0.004	711703	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.343	4.347	0.004	172961	0.078	1.600	
	* 2	4.707	4.707	0.000	170794	0.076	1.500	6.67
Decachlorobiphenyl *	1	21.863	21.867	0.004	207762	0.079	1.600	
	2	22.210	22.213	0.003	187336	0.083	1.700	6.25

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC02S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131002 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	726326	0.200	0.200	
	2	8.227	8.227	0.000	679340	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	179985	0.085	2.400	
	* 2	4.707	4.707	0.000	173468	0.081	2.300	4.35
Decachlorobiphenyl *	1	21.863	21.867	0.004	181203	0.072	2.100	
	2	22.210	22.213	0.003	177826	0.082	2.400	14.28

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC03S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131003 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	726790	0.200	0.200	
	2	8.223	8.227	0.004	679051	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.343	4.347	0.004	141074	0.066	1.300	
	2	4.703	4.707	0.004	142232	0.067	1.300	0.00
Decachlorobiphenyl	1	21.863	21.867	0.004	182008	0.072	1.400	
	* 2	22.210	22.213	0.003	145289	0.067	1.300	7.69

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC04S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	717173	0.200	0.200	
	2	8.223	8.227	0.004	673558	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	131775	0.063	1.200	
	2	4.707	4.707	0.000	129908	0.061	1.200	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	161934	0.065	1.300	
	2	22.210	22.213	0.003	145150	0.068	1.400	7.69

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC05S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131005 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	729579	0.200	0.200	
	2	8.227	8.227	0.000	684842	0.200	0.200	0.00
Chlordane-Total	1	0.890	0.890	0.000	38929	0.060	1.200	
	* 2	0.890	0.890	0.000	36300	0.056	1.100	9.09
2,4,5,6-tetrachloro*	1	4.343	4.347	0.004	140526	0.066	1.300	
	2	4.707	4.707	0.000	138734	0.064	1.300	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	130052	0.052	1.000	
	2	22.210	22.213	0.003	121002	0.056	1.100	10.00

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC06S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131006 Date(s) Analyzed: 02/10/01 02/10/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	751582	0.200	0.200	
	2	8.227	8.227	0.000	703204	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	130806	0.059	1.200	
	2	4.707	4.707	0.000	128743	0.058	1.200	0.00
Decachlorobiphenyl	1	21.863	21.867	0.004	177990	0.069	1.400	
	* 2	22.210	22.213	0.003	148348	0.066	1.300	7.69

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC07S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007 Date(s) Analyzed: 02/10/01 02/10/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	727421	0.200	0.200	
	2	8.227	8.227	0.000	681960	0.200	0.200	0.00
Chlordane-Total	1	0.890	0.890	0.000	74491	0.102	2.000	
*	2	0.890	0.890	0.000	62351	0.093	1.800	11.11
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	100273	0.047	0.940	
	2	4.710	4.707	0.003	100767	0.047	0.940	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	170797	0.068	1.400	
	2	22.210	22.213	0.003	175423	0.081	1.600	14.28

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC08S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131008 Date(s) Analyzed: 02/10/01 02/10/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	727042	0.200	0.200	
	2	8.227	8.227	0.000	679046	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	125355	0.059	1.200	
	2	4.710	4.707	0.003	124251	0.058	1.200	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	154407	0.062	1.200	
	2	22.210	22.213	0.003	132569	0.062	1.200	0.00

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC09S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131009 Date(s) Analyzed: 02/10/01 02/10/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	718952	0.200	0.200	
	2	8.227	8.227	0.000	667418	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.350	4.347	0.003	122164	0.058	1.200	
	2	4.710	4.707	0.003	122197	0.058	1.200	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	177353	0.071	1.400	
	2	22.210	22.213	0.003	160149	0.076	1.500	7.14

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC10S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010 Date(s) Analyzed: 02/10/01 02/10/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	696167	0.200	0.200	
	2	8.227	8.227	0.000	650125	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.350	4.347	0.003	142371	0.070	1.400	
	2	4.710	4.707	0.003	140487	0.069	1.400	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	161833	0.067	1.300	
	2	22.210	22.213	0.003	155365	0.075	1.500	15.38

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0208BLKA

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208BLKA Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	801198	0.200	0.200	
	2	8.223	8.227	0.004	751823	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.343	4.347	0.004	164662	0.070	0.700	
	* 2	4.703	4.707	0.004	163089	0.069	0.690	1.45
Decachlorobiphenyl	* 1	21.863	21.867	0.004	200522	0.072	0.720	
	2	22.210	22.213	0.003	196817	0.082	0.820	13.89

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0208BLKAMS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208BLKAMS Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
gamma-BHC (Lindane)	* 1	6.583	6.583	0.000	100856	0.042	0.420	
	2	9.103	9.103	0.000	102775	0.042	0.420	0.00
heptachlor	1	8.723	8.727	0.004	80539	0.038	0.380	
	* 2	9.633	9.637	0.004	84453	0.037	0.370	2.70
heptachlor epoxide	* 1	10.997	11.000	0.003	99821	0.041	0.410	
	2	12.783	12.787	0.004	97163	0.042	0.420	2.44
endrin	1	13.790	13.793	0.003	78958	0.044	0.440	
	* 2	16.093	16.097	0.004	94385	0.043	0.430	2.32
methoxychlor	1	18.980	18.983	0.003	39744	0.048	0.480	
	* 2	20.367	20.370	0.003	31535	0.044	0.440	9.09
Pentachloronitroben	* 1	6.743	6.743	0.000	765884	0.200	0.200	
	2	8.227	8.227	0.000	717363	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	171390	0.076	0.760	
	* 2	4.707	4.707	0.000	169052	0.075	0.750	1.33
Decachlorobiphenyl	* 1	21.863	21.867	0.004	203875	0.077	0.770	
	2	22.210	22.213	0.003	191825	0.084	0.840	9.09

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0208BLKASD

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208BLKAMSD Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
gamma-BHC (Lindane)	* 1	6.583	6.583	0.000	105757	0.043	0.430	
	2	9.103	9.103	0.000	107766	0.044	0.440	2.32
heptachlor	1	8.723	8.727	0.004	85335	0.040	0.400	
	* 2	9.633	9.637	0.004	89682	0.039	0.390	2.56
heptachlor epoxide	* 1	11.000	11.000	0.000	102397	0.042	0.420	
	2	12.783	12.787	0.004	100448	0.044	0.440	4.76
endrin	* 1	13.790	13.793	0.003	80868	0.044	0.440	
	2	16.093	16.097	0.004	99865	0.045	0.450	2.27
methoxychlor	1	18.980	18.983	0.003	39908	0.048	0.480	
	* 2	20.367	20.370	0.003	31376	0.044	0.440	9.09
Pentachloronitroben	* 1	6.747	6.743	0.004	768847	0.200	0.200	
	2	8.227	8.227	0.000	720785	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	170814	0.076	0.760	
	* 2	4.707	4.707	0.000	168040	0.074	0.740	2.70
Decachlorobiphenyl	1	21.863	21.867	0.004	216743	0.082	0.820	
	* 2	22.210	22.213	0.003	181752	0.080	0.800	2.50

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

0208LCSA

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208LCSA Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
gamma-BHC (Lindane) *	1	6.583	6.583	0.000	103751	0.039	0.390	
	2	9.103	9.103	0.000	106140	0.040	0.400	2.56
heptachlor	1	8.723	8.727	0.004	81314	0.035	0.350	
*	2	9.633	9.637	0.004	84209	0.034	0.340	2.94
heptachlor epoxide *	1	10.997	11.000	0.003	101852	0.038	0.380	
	2	12.783	12.787	0.004	99444	0.040	0.400	5.26
endrin *	1	13.790	13.793	0.003	80416	0.041	0.410	
	2	16.093	16.097	0.004	99603	0.042	0.420	2.44
methoxychlor *	1	18.980	18.983	0.003	39674	0.044	0.440	
	2	20.367	20.370	0.003	34187	0.044	0.440	0.00
Pentachloronitroben*	1	6.743	6.743	0.000	835592	0.200	0.200	
	2	8.223	8.227	0.004	782072	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	158020	0.064	0.640	
	2	4.707	4.707	0.000	155869	0.064	0.640	0.00
Decachlorobiphenyl *	1	21.863	21.867	0.004	209888	0.073	0.730	
	2	22.210	22.213	0.003	190623	0.077	0.770	5.48

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0208TOXLCS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0208TOXLCS Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	731519	0.200	0.200	
	2	8.227	8.227	0.000	689159	0.200	0.200	0.00
Toxaphene-Total	1	0.890	0.890	0.000	112986	0.828	8.300	
	* 2	0.890	0.890	0.000	123339	0.764	7.600	9.21
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	139707	0.065	0.650	
	* 2	4.707	4.707	0.000	138443	0.064	0.640	1.56
Decachlorobiphenyl *	1	21.863	21.867	0.004	188067	0.074	0.740	
	2	22.210	22.213	0.003	178180	0.082	0.820	10.81

* Column used for quantitation

PESTICIDE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

0208lcsa

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
Gamma-BHC (Lindane)	0.0005	0.00039	78	32 - 128
Heptachlor	0.0005	0.00034	68	36 - 115
Heptachlor epoxide	0.0005	0.00038	76	39 - 124
Endrin	0.0005	0.00041	82	42 - 151
Methoxychlor	0.0005	0.00044	88	41 - 119

Spike Recovery: 0 out of 5 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

PESTICIDE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

0208toxlcs

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
Toxaphene	0.01	0.0076	76	54 - 110

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PESTICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

0208blkams

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
Gamma-BHC (Lindane)	0.0005	0	0.00042	84	32 - 128
Heptachlor	0.0005	0	0.00037	74	36 - 115
Heptachlor epoxide	0.0005	0	0.00041	82	39 - 124
Endrin	0.0005	0	0.00043	86	42 - 151
Methoxychlor	0.0005	0	0.00044	88	41 - 119

Spike Recovery: 0 out of 5 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PESTICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

0208blkasd

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gamma-BHC (Lindane)	0.0005	0.00043	86	2.4	39	32 - 128
Heptachlor	0.0005	0.00039	78	5.3	31	36 - 115
Heptachlor epoxide	0.0005	0.00042	84	2.4	31	39 - 124
Endrin	0.0005	0.00044	88	2.3	31	42 - 151
Methoxychlor	0.0005	0.00044	88	0	30	41 - 119

RPD 0 out of 5 outside limits

Spike Recovery: 0 out of 5 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

Standards Data

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.005=CAL1 RRF0.01=CAL2
RRF0.02=CAL3 RRF0.04=CAL4 RRF0.06=CAL5

COMPOUND	RRF 0.005	RRF 0.01	RRF 0.02	RRF 0.04	RRF 0.06	$\overline{RRF}$	% RSD
alpha-BHC	0.571	0.528	0.523	0.591	0.672		
beta-BHC	0.489	0.424	0.386	0.378	0.381		
delta-BHC	0.834	0.593	0.536	0.558	0.613		
gamma-BHC (Lindane)	0.610	0.560	0.551	0.601	0.657		
heptachlor	0.732	0.630	0.563	0.530	0.520		
aldrin	0.636	0.577	0.549	0.583	0.627		
heptachlor epoxide	0.823	0.690	0.597	0.583	0.612		
endosulfan I	0.669	0.595	0.546	0.538	0.551		
dieldrin	0.446	0.388	0.351	0.345	0.357		
4,4'-DDE	0.651	0.568	0.527	0.527	0.574		
endrin	0.572	0.502	0.453	0.430	0.516		
endosulfan II	0.682	0.602	0.544	0.523	0.579		
4,4'-DDD	0.387	0.346	0.310	0.296	0.313		
endosulfan sulfate	0.938	0.752	0.638	0.618	0.599		
4,4'-DDT	0.713	0.592	0.518	0.503	0.480		
methoxychlor		0.279	0.241	0.219	0.214		
endrin aldehyde	0.607	0.516	0.421	0.402	0.387		
gamma-chlordane	0.823	0.724	0.661	0.646	0.655		
alpha-chlordane	0.856	0.752	0.688	0.678	0.686		
endrin ketone	0.841	0.734	0.658	0.625	0.698		
2,4,5,6-tetrachloro-m-xylene	0.591	0.566	0.565	0.577	0.617		
Decachlorobiphenyl	0.730	0.879	0.740	0.707	0.635		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.08=CAL6 RRF0.1=CAL7
RRF0.15=CAL8

COMPOUND	RRF 0.08	RRF0.1	RRF 0.15			$\overline{RRF}$	% RSD
alpha-BHC	0.703	0.742	0.761			0.6364	15.0
beta-BHC	0.377	0.377	0.365			0.3971	10.3
delta-BHC	0.619	0.652	0.670			0.6344	14.5
gamma-BHC (Lindane)	0.675	0.703	0.706			0.6329	9.6
heptachlor	0.511	0.505	0.485			0.5595	14.8
aldrin	0.644	0.662	0.662			0.6175	6.9
heptachlor epoxide	0.591	0.597	0.587			0.6350	13.1
endosulfan I	0.557	0.563	0.559			0.5722	7.4
dieldrin	0.357	0.361	0.360			0.3706	8.9
4,4'-DDE	0.570	0.594	0.600			0.5764	7.0
endrin	0.440	0.442	0.426			0.4726	11.1
endosulfan II	0.530	0.540	0.528			0.5660	9.6
4,4'-DDD	0.294	0.299	0.297			0.3178	10.3
endosulfan sulfate	0.578	0.578	0.569			0.6588	19.3
4,4'-DDT	0.454	0.450	0.446			0.5195	17.7
methoxychlor	0.198	0.190	0.173			0.2163	16.4
endrin aldehyde	0.375	0.386	0.369			0.4329	19.5
gamma-chlordane	0.661	0.666	0.663			0.6874	8.7
alpha-chlordane	0.688	0.694	0.685			0.7159	8.6
endrin ketone	0.614	0.612	0.588			0.6712	12.5
2,4,5,6-tetrachloro-m-xylene	0.592	0.598	0.580			0.5858	3.0
Decachlorobiphenyl	0.626	0.630	0.574			0.6901	13.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.005=CAL1 RRF0.01=CAL2
RRF0.02=CAL3 RRF0.04=CAL4 RRF0.06=CAL5

COMPOUND	RRF 0.005	RRF 0.01	RRF 0.02	RRF 0.04	RRF 0.06	$\overline{RRF}$	% RSD
alpha-BHC	0.628	0.579	0.575	0.643	0.716		
beta-BHC	0.568	0.495	0.449	0.435	0.428		
delta-BHC	0.633	0.555	0.531	0.575	0.658		
gamma-BHC (Lindane)	0.710	0.620	0.609	0.650	0.700		
heptachlor	0.832	0.717	0.646	0.604	0.600		
aldrin	0.636	0.577	0.551	0.581	0.616		
heptachlor epoxide	0.748	0.672	0.618	0.603	0.626		
endosulfan I	0.722	0.643	0.584	0.569	0.692		
dieldrin	0.423	0.372	0.348	0.340	0.348		
4,4'-DDE	0.604	0.542	0.518	0.515	0.541		
endrin	0.698	0.696	0.677	0.580	0.578		
endosulfan II	0.761	0.675	0.613	0.595	0.601		
4,4'-DDD	0.537	0.492	0.449	0.434	0.448		
endosulfan sulfate	0.655	0.540	0.494	0.485	0.492		
4,4'-DDT	0.499	0.454	0.439	0.423	0.439		
methoxychlor		0.249	0.218	0.199	0.195		
endrin aldehyde		0.565	0.457	0.445	0.417		
gamma-chlordane	0.868	0.765	0.700	0.668	0.725		
alpha-chlordane	0.898	0.795	0.736	0.701	0.778		
endrin ketone	0.639	0.585	0.591	0.572	0.564		
2,4,5,6-tetrachloro-m-xylene	0.672	0.628	0.622	0.616	0.631		
Decachlorobiphenyl	0.669	0.647	0.709	0.638	0.629		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.08=CAL6 RRF0.1=CAL7
RRF0.15=CAL8

COMPOUND	RRF 0.08	RRF0.1	RRF 0.15			$\overline{RRF}$	% RSD
alpha-BHC	0.742	0.772	0.785			0.6800	12.4
beta-BHC	0.427	0.423	0.406			0.4539	11.7
delta-BHC	0.648	0.672	0.689			0.6201	9.5
gamma-BHC (Lindane)	0.719	0.735	0.732			0.6844	7.4
heptachlor	0.590	0.579	0.549			0.6396	14.5
aldrin	0.631	0.643	0.640			0.6094	5.7
heptachlor epoxide	0.613	0.619	0.609			0.6385	7.7
endosulfan I	0.581	0.583	0.582			0.6195	9.5
dieldrin	0.352	0.354	0.352			0.3611	7.4
4,4'-DDE	0.552	0.564	0.587			0.5529	5.7
endrin	0.578	0.555	0.534			0.6120	10.9
endosulfan II	0.593	0.595	0.583			0.6270	9.8
4,4'-DDD	0.429	0.428	0.412			0.4536	9.1
endosulfan sulfate	0.487	0.493	0.486			0.5165	11.4
4,4'-DDT	0.423	0.424	0.416			0.4396	6.1
methoxychlor	0.184	0.180	0.171			0.1994	13.3
endrin aldehyde	0.418	0.415	0.397			0.4448	12.7
gamma-chlordane	0.670	0.670	0.668			0.7168	9.8
alpha-chlordane	0.699	0.697	0.689			0.7491	9.6
endrin ketone	0.561	0.561	0.549			0.5778	4.9
2,4,5,6-tetrachloro-m-xylene	0.621	0.624	0.606			0.6275	3.2
Decachlorobiphenyl	0.604	0.589	0.587			0.6340	6.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	5.573	5.573	5.573	5.577	5.577
beta-BHC	6.437	6.437	6.437	6.437	6.437
delta-BHC	7.350	7.350	7.350	7.350	7.350
gamma-BHC (Lindane)	6.583	6.583	6.583	6.583	6.583
heptachlor	8.727	8.727	8.727	8.727	8.727
aldrin	9.740	9.740	9.740	9.740	9.743
heptachlor epoxide	11.000	11.000	11.000	11.000	11.000
endosulfan I	12.123	12.127	12.123	12.127	12.127
dieldrin	13.007	13.010	13.007	13.007	13.010
4,4'-DDE	13.167	13.167	13.167	13.167	13.167
endrin	13.793	13.793	13.793	13.793	13.793
endosulfan II	14.220	14.220	14.220	14.220	14.220
4,4'-DDD	14.927	14.927	14.927	14.927	14.923
endosulfan sulfate	16.080	16.080	16.080	16.080	16.080
4,4'-DDT	16.467	16.463	16.463	16.463	16.463
methoxychlor	18.983	18.983	18.983	18.983	18.980
endrin aldehyde	15.123	15.123	15.123	15.123	15.123
gamma-chlordane	11.760	11.760	11.760	11.760	11.760
alpha-chlordane	12.267	12.267	12.267	12.267	12.267
endrin ketone	18.037	18.033	18.033	18.033	18.033
2,4,5,6-tetrachloro-m-xylene	4.347	4.347	4.347	4.347	4.347
Decachlorobiphenyl	21.867	21.867	21.867	21.867	21.863

COMMENTS:

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT6: CAL6 RT7: CAL7 RT8: CAL8

COMPOUND	RT6	RT7	RT8	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	5.577	5.577	5.580	5.576	5.523	5.623
beta-BHC	6.440	6.440	6.440	6.438	6.387	6.487
delta-BHC	7.353	7.350	7.353	7.351	7.300	7.400
gamma-BHC (Lindane)	6.587	6.587	6.587	6.585	6.533	6.633
heptachlor	8.727	8.727	8.730	8.727	8.677	8.777
aldrin	9.743	9.743	9.743	9.742	9.690	9.790
heptachlor epoxide	11.003	11.000	11.003	11.001	10.950	11.050
endosulfan I	12.127	12.127	12.127	12.126	12.073	12.173
dieldrin	13.010	13.010	13.010	13.009	12.957	13.057
4,4'-DDE	13.170	13.170	13.170	13.168	13.117	13.217
endrin	13.797	13.797	13.797	13.794	13.743	13.843
endosulfan II	14.220	14.223	14.223	14.221	14.170	14.270
4,4'-DDD	14.927	14.927	14.927	14.926	14.877	14.977
endosulfan sulfate	16.080	16.083	16.083	16.081	16.030	16.130
4,4'-DDT	16.467	16.467	16.467	16.465	16.417	16.517
methoxychlor	18.983	18.983	18.983	18.983	18.933	19.033
endrin aldehyde	15.123	15.123	15.123	15.123	15.073	15.173
gamma-chlordane	11.763	11.763	11.763	11.761	11.710	11.810
alpha-chlordane	12.267	12.267	12.270	12.267	12.217	12.317
endrin ketone	18.037	18.037	18.037	18.035	17.987	18.087
2,4,5,6-tetrachloro-m-xylene	4.350	4.347	4.350	4.348	4.297	4.397
Decachlorobiphenyl	21.867	21.867	21.867	21.866	21.817	21.917

COMMENTS:

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	7.800	7.803	7.803	7.803	7.803
beta-BHC	11.917	11.920	11.917	11.917	11.917
delta-BHC	12.493	12.493	12.493	12.493	12.493
gamma-BHC (Lindane)	9.103	9.103	9.103	9.107	9.107
heptachlor	9.637	9.637	9.637	9.637	9.637
aldrin	10.400	10.400	10.400	10.400	10.400
heptachlor epoxide	12.787	12.787	12.787	12.787	12.787
endosulfan I	13.697	13.697	13.697	13.697	13.697
dieldrin	15.350	15.350	15.350	15.350	15.350
4,4'-DDE	15.057	15.060	15.057	15.057	15.057
endrin	16.097	16.097	16.097	16.097	16.097
endosulfan II	18.403	18.403	18.403	18.403	18.403
4,4'-DDD	18.560	18.560	18.560	18.560	18.560
endosulfan sulfate	20.207	20.207	20.207	20.210	20.207
4,4'-DDT	18.957	18.957	18.957	18.957	18.957
methoxychlor	20.370	20.370	20.370	20.370	20.370
endrin aldehyde	19.550	19.550	19.550	19.550	19.550
gamma-chlordane	14.133	14.133	14.133	14.133	14.133
alpha-chlordane	14.417	14.420	14.417	14.420	14.420
endrin ketone	20.763	20.763	20.763	20.763	20.763
2,4,5,6-tetrachloro-m-xylene	4.707	4.707	4.707	4.707	4.707
Decachlorobiphenyl	22.213	22.213	22.210	22.213	22.213

COMMENTS: _____

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT6: CAL6 RT7: CAL7 RT8: CAL8

COMPOUND	RT6	RT7	RT8	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	7.807	7.803	7.807	7.804	7.750	7.850
beta-BHC	11.920	11.920	11.920	11.919	11.867	11.967
delta-BHC	12.497	12.493	12.497	12.494	12.443	12.543
gamma-BHC (Lindane)	9.107	9.107	9.107	9.105	9.053	9.153
heptachlor	9.637	9.637	9.640	9.637	9.587	9.687
aldrin	10.403	10.400	10.403	10.401	10.350	10.450
heptachlor epoxide	12.790	12.790	12.790	12.788	12.737	12.837
endosulfan I	13.700	13.700	13.700	13.698	13.647	13.747
dieldrin	15.353	15.353	15.353	15.351	15.300	15.400
4,4'-DDE	15.060	15.060	15.060	15.059	15.007	15.107
endrin	16.100	16.100	16.100	16.098	16.047	16.147
endosulfan II	18.403	18.407	18.403	18.403	18.353	18.453
4,4'-DDD	18.563	18.563	18.563	18.561	18.510	18.610
endosulfan sulfate	20.207	20.210	20.210	20.208	20.157	20.257
4,4'-DDT	18.957	18.957	18.957	18.957	18.907	19.007
methoxychlor	20.370	20.370	20.370	20.370	20.320	20.420
endrin aldehyde	19.550	19.550	19.550	19.550	19.500	19.600
gamma-chlordane	14.137	14.137	14.137	14.134	14.083	14.183
alpha-chlordane	14.420	14.420	14.420	14.419	14.367	14.467
endrin ketone	20.763	20.763	20.763	20.763	20.713	20.813
2,4,5,6-tetrachloro-m-xylene	4.710	4.707	4.710	4.707	4.657	4.757
Decachlorobiphenyl	22.213	22.213	22.213	22.213	22.163	22.263

COMMENTS: _____

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

L Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1720

Lab File ID: PCCV14 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.69919	N/A	9.8	15.0	
beta-BHC	0.39722	0.38824	N/A	2.3	15.0	
delta-BHC	0.63446	0.62606	N/A	1.3	15.0	
gamma-BHC (Lindane)	0.63298	0.66820	N/A	5.6	15.0	
heptachlor	0.55959	0.52843	N/A	5.6	15.0	
aldrin	0.61752	0.62703	N/A	1.5	15.0	
heptachlor epoxide	0.63495	0.75498	N/A	18.9	15.0	<-
endosulfan I	0.57243	0.55289	N/A	3.4	15.0	
dieldrin	0.37044	0.37366	N/A	0.9	15.0	
4,4'-DDE	0.57632	0.56542	N/A	1.9	15.0	
endrin	0.47275	0.58994	N/A	24.8	15.0	<-
endosulfan II	0.56618	0.60426	N/A	6.7	15.0	
4,4'-DDD	0.31782	0.40274	N/A	26.7	15.0	<-
endosulfan sulfate	0.65866	0.59374	N/A	9.8	15.0	
4,4'-DDT	0.51965	0.44726	N/A	13.9	15.0	
methoxychlor	0.21636	0.25399	N/A	17.4	15.0	<-
endrin aldehyde	0.43319	0.37981	N/A	12.3	15.0	
gamma-chlordane	0.68732	0.65318	N/A	5.0	15.0	
alpha-chlordane	0.71607	0.68788	N/A	3.9	15.0	
endrin ketone	0.67139	0.66574	N/A	0.8	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.64330	N/A	9.8	15.0	
Decachlorobiphenyl	0.69024	0.56088	N/A	18.7	15.0	<-

Average Used: 9.14687

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 210131C

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1750

Lab File ID: TCCV14 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.06149	0.07008	N/A	14.0	15.0	
Toxaphene-2	0.02960	0.03558	N/A	20.2	15.0	<- Wd
Toxaphene-3	0.09888	0.10895	N/A	10.2	15.0	
Toxaphene-4	0.01468	0.01550	N/A	5.6	15.0	
Toxaphene-5	0.00733	0.00738	N/A	0.7	15.0	
Toxaphene-Total	0.04240	0.04750	N/A	12.0	15.0	

Average Used: 10.442

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1750

Lab File ID: TCCV14 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.04867	0.04915	N/A	1.0	15.0
Toxaphene-2	0.04022	0.04453	N/A	10.7	15.0
Toxaphene-3	0.04468	0.04834	N/A	8.2	15.0
Toxaphene-4	0.04516	0.03995	N/A	11.5	15.0
Toxaphene-5	0.05453	0.04735	N/A	13.2	15.0
Toxaphene-Total	0.04665	0.04586	N/A	1.7	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1820

Lab File ID: CCCV14 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Chlordane-1	0.08922	0.09179	N/A	2.9	15.0
Chlordane-2	0.16034	0.16402	N/A	2.3	15.0
Chlordane-3	0.32310	0.32856	N/A	1.7	15.0
Chlordane-4	0.28615	0.29171	N/A	1.9	15.0
Chlordane-5	0.19310	0.19484	N/A	0.9	15.0
Chlordane-Total	0.21038	0.21419	N/A	1.8	15.0

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1820

Lab File ID: CCCV14 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Chlordane-1	0.10036	0.09967	N/A	0.7	15.0
Chlordane-2	0.17311	0.16146	N/A	6.7	15.0
Chlordane-3	0.31395	0.31139	N/A	0.8	15.0
Chlordane-4	0.25982	0.25767	N/A	0.8	15.0
Chlordane-5	0.19867	0.19400	N/A	2.4	15.0
Chlordane-Total	0.20918	0.20484	N/A	2.1	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0045

Lab File ID: PCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.68978	N/A	8.4	15.0	
beta-BHC	0.39722	0.37994	N/A	4.4	15.0	
delta-BHC	0.63446	0.60560	N/A	4.5	15.0	
gamma-BHC (Lindane)	0.63298	0.64740	N/A	2.3	15.0	
heptachlor	0.55959	0.50143	N/A	10.4	15.0	
aldrin	0.61752	0.62852	N/A	1.8	15.0	
heptachlor epoxide	0.63495	0.74281	N/A	17.0	15.0	<- lvl
endosulfan I	0.57243	0.54935	N/A	4.0	15.0	
dieldrin	0.37044	0.34634	N/A	6.5	15.0	
4,4'-DDE	0.57632	0.55675	N/A	3.4	15.0	
endrin	0.47275	0.58515	N/A	23.8	15.0	<- lvl
endosulfan II	0.56618	0.59741	N/A	5.5	15.0	
4,4'-DDD	0.31782	0.35830	N/A	12.7	15.0	
endosulfan sulfate	0.65866	0.58173	N/A	11.7	15.0	
4,4'-DDT	0.51965	0.46532	N/A	10.4	15.0	
methoxychlor	0.21636	0.24932	N/A	15.2	15.0	<- lvl
endrin aldehyde	0.43319	0.35073	N/A	19.0	15.0	<- lvl
gamma-chlordane	0.68732	0.65460	N/A	4.8	15.0	
alpha-chlordane	0.71607	0.70178	N/A	2.0	15.0	
endrin ketone	0.67139	0.66949	N/A	0.3	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.61261	N/A	4.6	15.0	
Decachlorobiphenyl	0.69024	0.57966	N/A	16.0	15.0	<- lvl

Average Used: 8.57821

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0045

Lab File ID: PCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.73488	N/A	8.1	15.0	
beta-BHC	0.45397	0.42148	N/A	7.2	15.0	
delta-BHC	0.62024	0.79805	N/A	28.7	15.0	<- WK
gamma-BHC (Lindane)	0.68417	0.70504	N/A	3.0	15.0	
heptachlor	0.63981	0.59004	N/A	7.8	15.0	
aldrin	0.60940	0.63056	N/A	3.5	15.0	
heptachlor epoxide	0.63832	0.64052	N/A	0.3	15.0	
endosulfan I	0.61936	0.73661	N/A	18.9	15.0	<- WK
dieldrin	0.36106	0.35319	N/A	2.2	15.0	
4,4'-DDE	0.55309	0.56598	N/A	2.3	15.0	
endrin	0.61212	0.58651	N/A	4.2	15.0	
endosulfan II	0.62716	0.56965	N/A	9.2	15.0	
4,4'-DDD	0.45385	0.49003	N/A	8.0	15.0	
endosulfan sulfate	0.51646	0.47659	N/A	7.7	15.0	
4,4'-DDT	0.43967	0.39762	N/A	9.6	15.0	
methoxychlor	0.19955	0.20308	N/A	1.8	15.0	
endrin aldehyde	0.44470	0.36349	N/A	18.3	15.0	<- WK
gamma-chlordane	0.71679	0.73053	N/A	1.9	15.0	
alpha-chlordane	0.74920	0.81010	N/A	8.1	15.0	
endrin ketone	0.57775	0.54228	N/A	6.1	15.0	
2,4,5,6-tetrachloro-m-xylene	0.62733	0.65581	N/A	4.5	15.0	
Decachlorobiphenyl	0.63402	0.63972	N/A	0.9	15.0	

Average Used: 7.37499

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0115

Lab File ID: TCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.06149	0.06419	N/A	4.4	15.0	
Toxaphene-2	0.02960	0.03178	N/A	7.4	15.0	
Toxaphene-3	0.09888	0.10009	N/A	1.2	15.0	
Toxaphene-4	0.01468	0.01527	N/A	4.0	15.0	
Toxaphene-5	0.00733	0.00574	N/A	21.7	15.0	<-
Toxaphene-Total	0.04240	0.04341	N/A	2.4	15.0	
				Average Used:	6.84539	

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0115

Lab File ID: TCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.04867	0.05117	N/A	5.1	15.0	
Toxaphene-2	0.04022	0.04594	N/A	14.2	15.0	
Toxaphene-3	0.04468	0.04221	N/A	5.5	15.0	
Toxaphene-4	0.04516	0.04000	N/A	11.4	15.0	
Toxaphene-5	0.05453	0.04166	N/A	23.6	15.0	<-
Toxaphene-Total	0.04665	0.04420	N/A	5.2	15.0	

Average Used: 10.8610

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0145

Lab File ID: CCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Chlordane-1	0.08922	0.09149	N/A	2.5	15.0
Chlordane-2	0.16034	0.15729	N/A	1.9	15.0
Chlordane-3	0.32310	0.32918	N/A	1.9	15.0
Chlordane-4	0.28615	0.29150	N/A	1.9	15.0
Chlordane-5	0.19310	0.19433	N/A	0.6	15.0
Chlordane-Total	0.21038	0.21276	N/A	1.1	15.0

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 0145

Lab File ID: CCCV15 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Chlordane-1	0.10036	0.09843	N/A	1.9	15.0
Chlordane-2	0.17311	0.15909	N/A	8.1	15.0
Chlordane-3	0.31395	0.31312	N/A	0.3	15.0
Chlordane-4	0.25982	0.25872	N/A	0.4	15.0
Chlordane-5	0.19867	0.19625	N/A	1.2	15.0
Chlordane-Total	0.20918	0.20512	N/A	1.9	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2050

Lab File ID: PCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.69709	N/A	9.5	15.0	
beta-BHC	0.39722	0.33737	N/A	15.1	15.0	<-
delta-BHC	0.63446	0.59148	N/A	6.8	15.0	
gamma-BHC (Lindane)	0.63298	0.57640	N/A	8.9	15.0	
heptachlor	0.55959	0.42954	N/A	23.2	15.0	<-
aldrin	0.61752	0.60256	N/A	2.4	15.0	
heptachlor epoxide	0.63495	0.68855	N/A	8.4	15.0	
endosulfan I	0.57243	0.52085	N/A	9.0	15.0	
dieldrin	0.37044	0.26286	N/A	29.0	15.0	<-
4,4'-DDE	0.57632	0.54062	N/A	6.2	15.0	
endrin	0.47275	0.56859	N/A	20.3	15.0	<-
endosulfan II	0.56618	0.58388	N/A	3.1	15.0	
4,4'-DDD	0.31782	0.29277	N/A	7.9	15.0	
endosulfan sulfate	0.65866	0.55432	N/A	15.8	15.0	<-
4,4'-DDT	0.51965	0.41156	N/A	20.8	15.0	<-
methoxychlor	0.21636	0.19047	N/A	12.0	15.0	
endrin aldehyde	0.43319	0.30356	N/A	29.9	15.0	<-
gamma-chlordane	0.68732	0.63476	N/A	7.6	15.0	
alpha-chlordane	0.71607	0.67776	N/A	5.4	15.0	
endrin ketone	0.67139	0.60990	N/A	9.2	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.63987	N/A	9.2	15.0	
Decachlorobiphenyl	0.69024	0.56892	N/A	17.6	15.0	<-

Average Used: 12.6107

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2050

Lab File ID: PCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.72538	N/A	6.7	15.0	
beta-BHC	0.45397	0.40185	N/A	11.5	15.0	
delta-BHC	0.62024	0.74974	N/A	20.9	15.0	<- lvl
gamma-BHC (Lindane)	0.68417	0.66194	N/A	3.2	15.0	
heptachlor	0.63981	0.49526	N/A	22.6	15.0	<- lvl
aldrin	0.60940	0.59552	N/A	2.3	15.0	
heptachlor epoxide	0.63832	0.55600	N/A	12.9	15.0	
endosulfan I	0.61936	0.68479	N/A	10.6	15.0	
dieldrin	0.36106	0.26015	N/A	27.9	15.0	<- lvl
4,4'-DDE	0.55309	0.52452	N/A	5.2	15.0	
endrin	0.61212	0.49834	N/A	18.6	15.0	<- lvl
endosulfan II	0.62716	0.54992	N/A	12.3	15.0	
4,4'-DDD	0.45385	0.40905	N/A	9.9	15.0	
endosulfan sulfate	0.51646	0.44959	N/A	12.9	15.0	
4,4'-DDT	0.43967	0.34838	N/A	20.8	15.0	<- lvl
methoxychlor	0.19955	0.14449	N/A	27.6	15.0	<- lvl
endrin aldehyde	0.44470	0.31720	N/A	28.7	15.0	<- lvl
gamma-chlordane	0.71679	0.66459	N/A	7.3	15.0	
alpha-chlordane	0.74920	0.72084	N/A	3.8	15.0	
endrin ketone	0.57775	0.45066	N/A	22.0	15.0	<- lvl
2,4,5,6-tetrachloro-m-xylene	0.62733	0.66869	N/A	6.6	15.0	
Decachlorobiphenyl	0.63402	0.60681	N/A	4.3	15.0	

Average Used: 13.5650

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2119

Lab File ID: TCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.06149	0.05908	N/A	3.9	15.0
Toxaphene-2	0.02960	0.03094	N/A	4.5	15.0
Toxaphene-3	0.09888	0.09735	N/A	1.5	15.0
Toxaphene-4	0.01468	0.01612	N/A	9.8	15.0
Toxaphene-5	0.00733	0.00782	N/A	6.7	15.0
Toxaphene-Total	0.04240	0.04226	N/A	0.3	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2119

Lab File ID: TCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.04867	0.04800	N/A	1.4	15.0	
Toxaphene-2	0.04022	0.04103	N/A	2.0	15.0	
Toxaphene-3	0.04468	0.04807	N/A	7.6	15.0	
Toxaphene-4	0.04516	0.04483	N/A	0.7	15.0	
Toxaphene-5	0.05453	0.04253	N/A	22.0	15.0	<- WK
Toxaphene-Total	0.04665	0.04489	N/A	3.8	15.0	
				Average Used:	6.24793	

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2149

Lab File ID: CCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Chlordane-1	0.08922	0.08996	N/A	0.8	15.0
Chlordane-2	0.16034	0.14071	N/A	12.2	15.0
Chlordane-3	0.32310	0.32346	N/A	0.1	15.0
Chlordane-4	0.28615	0.28822	N/A	0.7	15.0
Chlordane-5	0.19310	0.19158	N/A	0.8	15.0
Chlordane-Total	0.21038	0.20679	N/A	1.7	15.0

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2149

Lab File ID: CCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Chlordane-1	0.10036	0.09734	N/A	3.0	15.0	
Chlordane-2	0.17311	0.14385	N/A	16.9	15.0	<-
Chlordane-3	0.31395	0.30574	N/A	2.6	15.0	
Chlordane-4	0.25982	0.25483	N/A	1.9	15.0	
Chlordane-5	0.19867	0.18913	N/A	4.8	15.0	
Chlordane-Total	0.20918	0.19818	N/A	5.2	15.0	

Average Used: 5.75132

FORM VII SV-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM Date Analyzed :02/05/01

Lab Sample ID (PEM): PEM Time Analyzed :1025

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.80	13.74	13.84	0.039	0.050	24.7	
4,4'-DDT	16.47	16.42	16.52	0.075	0.10	28.6	<- W

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM Date Analyzed :02/05/01

Lab Sample ID (PEM): PEM Time Analyzed :1025

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD
endrin	16.10	16.05	16.15	0.040	0.050	22.2
4,4'-DDT	18.96	18.91	19.01	0.081	0.10	21.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM14 Date Analyzed :02/09/01

Lab Sample ID (PEM): PEM14 Time Analyzed :1650

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.78	13.74	13.84	0.038	0.050	27.3	<-
4,4'-DDT	16.45	16.42	16.52	0.065	0.10	42.4	<-

4,4'-DDT % breakdown (1): 8.82 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 8.82

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM14 Date Analyzed :02/09/01

Lab Sample ID (PEM): PEM14 Time Analyzed :1650

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	16.09	16.05	16.15	0.037	0.050	29.9	<-
4,4'-DDT	18.95	18.91	19.01	0.068	0.10	38.1	<-

4,4'-DDT % breakdown (1): 7.97 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 7.97

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM15 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM15 Time Analyzed :0016

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.79	13.74	13.84	0.035	0.050	35.3	<--
4,4'-DDT	16.46	16.42	16.52	0.063	0.10	45.4	<--

4,4'-DDT % breakdown (1): 7.72 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 7.72

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM15 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM15 Time Analyzed :0016

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	16.09	16.05	16.15	0.038	0.050	27.3	<-
4,4'-DDT	18.95	18.91	19.01	0.068	0.10	38.1	<-

4,4'-DDT % breakdown (1): 8.22 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 8.22

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM16 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM16 Time Analyzed :2020

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.79	13.74	13.84	0.027	0.050	59.7	<-
4,4'-DDT	16.46	16.42	16.52	0.056	0.10	56.4	<-

4,4'-DDT % breakdown (1): 4.57 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.57

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM16 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM16 Time Analyzed :2020

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	16.10	16.05	16.15	0.029	0.050	53.2	<-
4,4'-DDT	18.95	18.91	19.01	0.060	0.10	50.0	<-

4,4'-DDT % breakdown (1): 4.64 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.64

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

GC/ECD PESTICIDE ORGANICS

METHOD 8081

CASE NARRATIVE
GC/ECD PESTICIDES SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

SW846/EPA 8081

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3550 for 8081 semi-volatiles analysis.

All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. Initial calibration criteria is stated in SW846 such that all required parameters have a maximum percent RSD of 20. If an analyte exceeds the percent RSD, then the mean of the RSD values for all analytes must be below 20%. The continuing calibration verification standards for the 8081 analytical runs may not be less than 15 % D criteria for all analytes. The average % D was used as per SW846 method 8000 section 7.7. The average % D is noted on the form 7 as required.

The Pesticide standards correspond to the following calibration files for pesticide concentration at the instrument level:
CAL1= 0.005ug/mL
CAL2=0.01ug/mL
CAL3=0.02ug/mL
CAL4=0.04ug/mL
CAL5=0.06ug/mL
CAL6=0.08ug/mL
CAL7=0.10ug/mL
CAL8=0.15ug/mL

B. Blanks:

One blank was analyzed with the soil samples and was non-detect for target parameters.

C. Surrogates:

All surrogate criteria were met for the soil samples.

CASE NARRATIVE
GC/ECD PESTICIDES SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

D. Spikes:

Laboratory Control Spikes (LCS)

One regular LCS, 0207lcss was analyzed with the soil samples which did not meet criteria for one out of 20 analytes.

One Tox LCS was analyzed with the soil samples, which met all criteria.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

One reagent MS/SD set was analyzed with the soil samples, which met all criteria for relative percent difference, but did not meet criteria for two out of 40 parameters for percent recovery.

E. Internal standards:

All internal standard criteria were met for the soil samples.

F. Samples:

Sample analysis proceeded normally. Data was collected using dual column analysis. Project specific RLs were used per client request.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: Erica Keene **DATE:** 2/19/01

PESTICIDE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Method: 8081

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC01S0201DL1	210131001DL1
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC03S0201DL1	210131003DL1
00525WC04S0201	210131004
00525WC04S0201DL1	210131004DL1
00525WC05S0201	210131005
00525WC05S0201DL1	210131005DL1
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC07S0201DL1	210131007DL1
00525WC07S0201DL2	210131007DL2
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010
00525WC10S0201DL1	210131010DL1

Sample Data

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131001 Lab File ID 31001.D

Sample wt/vol: 33.01 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/8/01 Time: 11:52 PM

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 1 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	106	EP
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	3.4	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	1.7	U
5103-74-2	Gamma-Chlordane	1.7	U
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	340	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC01S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131001DL1 Lab File ID 31001D.D

Sample wt/vol: 33.01 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 2:45 AM

PercentSolids: 89 decanted : Dilution Factor: 5

Extraction: SONC Station ID Site 25 Area 1 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	8.5	U
319-85-7	Beta-BHC	8.5	U
319-86-8	Delta-BHC	8.5	U
58-89-9	Gamma-BHC (Lindane)	8.5	U
76-44-8	Heptachlor	8.5	U
309-00-2	Aldrin	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
959-98-8	Endosulfan I	8.5	U
60-57-1	Dieldrin	122	P
72-55-9	4,4'-DDE	8.5	U
72-20-8	Endrin	8.5	U
33213-65-9	Endosulfan II	8.5	U
72-54-8	4,4'-DDD	8.5	U
1031-07-8	Endosulfan sulfate	8.5	U
50-29-3	4,4'-DDT	8.5	U
72-43-5	Methoxychlor	17	U
7421-93-4	Endrin aldehyde	8.5	U
5103-71-9	Alpha-Chlordane	8.5	U
5103-74-2	Gamma-Chlordane	8.5	U
53494-70-5	Endrin Ketone	8.5	U
8001-35-2	Toxaphene	1700	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131002 Lab File ID 31002.D

Sample wt/vol: 33.2 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 12:22 AM

PercentSolids: 88 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 2 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	6.1	P
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	3.4	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	7.5	
5103-74-2	Gamma-Chlordane	9	
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	344	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131003 Lab File ID: 31003.D

Sample wt/vol: 33.35 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 12:52 AM

PercentSolids: 87 decanted : Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 3 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	1.7	U
72-55-9	4,4'-DDE	418	E
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	348	EP
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	117	EP
72-43-5	Methoxychlor	3.5	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	275	E
5103-74-2	Gamma-Chlordane	270	E
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	345	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC03S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131003DL1 Lab File ID 31003D.D

Sample wt/vol: 33.35 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 5:43 AM

PercentSolids: 87 decanted : Dilution Factor: 20

Extraction: SONC Station ID Site 25 Area 3 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	35	U
319-85-7	Beta-BHC	35	U
319-86-8	Delta-BHC	35	U
58-89-9	Gamma-BHC (Lindane)	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	35	U
72-55-9	4,4'-DDE	297	
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	289	
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	93	
72-43-5	Methoxychlor	69	U
7421-93-4	Endrin aldehyde	35	U
5103-71-9	Alpha-Chlordane	246	
5103-74-2	Gamma-Chlordane	232	
53494-70-5	Endrin Ketone	35	U
8001-35-2	Toxaphene	6900	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131004 Lab File ID: 31004.D

Sample wt/vol: 33.08 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 1:21 AM

PercentSolids: 90 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 4 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.4	J
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	21	P
72-55-9	4,4'-DDE	102	E
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	236	E
72-43-5	Methoxychlor	3.4	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	105	EP
5103-74-2	Gamma-Chlordane	130	E
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	337	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC04S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131004DL1 Lab File ID: 31004D.D

Sample wt/vol: 33.08 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 6:12 AM

PercentSolids: 90 decanted: Dilution Factor: 10

Extraction: SONC Station ID: Site 25 Area 4 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	17	U
319-85-7	Beta-BHC	17	U
319-86-8	Delta-BHC	17	U
58-89-9	Gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	17	P
72-55-9	4,4'-DDE	71	
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	172	
72-43-5	Methoxychlor	34	U
7421-93-4	Endrin aldehyde	17	U
5103-71-9	Alpha-Chlordane	91	P
5103-74-2	Gamma-Chlordane	106	
53494-70-5	Endrin Ketone	17	U
8001-35-2	Toxaphene	3370	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131005 Lab File ID 31005.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 1:51 AM

PercentSolids: 91 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 5 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	4.8	P
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	91	E JVC
72-55-9	4,4'-DDE	22	P
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	78	EP JVC
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	79	E JVC
72-43-5	Methoxychlor	3.3	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	124	E JVC
5103-74-2	Gamma-Chlordane	149	E JVC
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	334	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC05S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131005DL1 Lab File ID: 31005D.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 6:42 AM

PercentSolids: 91 decanted: Dilution Factor: 10

Extraction: SONC Station ID: Site 25 Area 5 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	17	U
319-85-7	Beta-BHC	17	U
319-86-8	Delta-BHC	17	U
58-89-9	Gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	55	
72-55-9	4,4'-DDE	17	P
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	73	
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	72	
72-43-5	Methoxychlor	33	U
7421-93-4	Endrin aldehyde	17	U
5103-71-9	Alpha-Chlordane	102	
5103-74-2	Gamma-Chlordane	119	
53494-70-5	Endrin Ketone	17	U
8001-35-2	Toxaphene	3340	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131006 Lab File ID 31006.D

Sample wt/vol: 33.25 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 4:49 AM

PercentSolids: 88 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 6 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	1.7	U
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	3.4	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	1.7	U
5103-74-2	Gamma-Chlordane	1.7	U
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	343	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131007 Lab File ID 31007.D

Sample wt/vol: 33.17 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 5:19 AM

PercentSolids: 78 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 7 Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.9	U
319-85-7	Beta-BHC	1.9	U
319-86-8	Delta-BHC	1.9	U
58-89-9	Gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	1.9	U
72-55-9	4,4'-DDE	46	
72-20-8	Endrin	1.9	U
33213-65-9	Endosulfan II	1.9	U
72-54-8	4,4'-DDD	135	EP
1031-07-8	Endosulfan sulfate	1.9	U
50-29-3	4,4'-DDT	1090	E
72-43-5	Methoxychlor	3.9	U
7421-93-4	Endrin aldehyde	1.9	U
5103-71-9	Alpha-Chlordane	216	E
5103-74-2	Gamma-Chlordane	249	E
53494-70-5	Endrin Ketone	1.9	U
8001-35-2	Toxaphene	387	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC07S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131007DL1 Lab File ID 31007D.D

Sample wt/vol: 33.17 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 7:12 AM

PercentSolids: 78 decanted : Dilution Factor: 10

Extraction: SONC Station ID QC Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	19	U
319-85-7	Beta-BHC	19	U
319-86-8	Delta-BHC	19	U
58-89-9	Gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	26	P
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	135	
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	779	E
72-43-5	Methoxychlor	39	U
7421-93-4	Endrin aldehyde	19	U
5103-71-9	Alpha-Chlordane	160	
5103-74-2	Gamma-Chlordane	181	
53494-70-5	Endrin Ketone	19	U
8001-35-2	Toxaphene	3870	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC07S0201DL2

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131007DL2 Lab File ID 31007DD.D

Sample wt/vol: 33.17 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 7:41 AM

PercentSolids: 78 decanted : Dilution Factor: 50

Extraction: SONC Station ID QC Method: 8081

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	97	U
319-85-7	Beta-BHC	97	U
319-86-8	Delta-BHC	97	U
58-89-9	Gamma-BHC (Lindane)	97	U
76-44-8	Heptachlor	97	U
309-00-2	Aldrin	97	U
1024-57-3	Heptachlor epoxide	97	U
959-98-8	Endosulfan I	97	U
60-57-1	Dieldrin	97	U
72-55-9	4,4'-DDE	27	JP
72-20-8	Endrin	97	U
33213-65-9	Endosulfan II	97	U
72-54-8	4,4'-DDD	164	
1031-07-8	Endosulfan sulfate	97	U
50-29-3	4,4'-DDT	744	
72-43-5	Methoxychlor	194	U
7421-93-4	Endrin aldehyde	97	U
5103-71-9	Alpha-Chlordane	166	
5103-74-2	Gamma-Chlordane	187	
53494-70-5	Endrin Ketone	97	U
8001-35-2	Toxaphene	19400	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131008 Lab File ID: 31008.D

Sample wt/vol: 33.3 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 5:48 AM

PercentSolids: 93 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 8 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.6	U
319-85-7	Beta-BHC	1.6	U
319-86-8	Delta-BHC	1.6	U
58-89-9	Gamma-BHC (Lindane)	1.6	U
76-44-8	Heptachlor	1.6	U
309-00-2	Aldrin	1.6	U
1024-57-3	Heptachlor epoxide	1.8	
959-98-8	Endosulfan I	1.6	U
60-57-1	Dieldrin	1.6	U
72-55-9	4,4'-DDE	7.1	
72-20-8	Endrin	1.6	U
33213-65-9	Endosulfan II	1.6	U
72-54-8	4,4'-DDD	15	P
1031-07-8	Endosulfan sulfate	1.6	U
50-29-3	4,4'-DDT	9.4	
72-43-5	Methoxychlor	3.2	U
7421-93-4	Endrin aldehyde	1.6	U
5103-71-9	Alpha-Chlordane	27	
5103-74-2	Gamma-Chlordane	28	
53494-70-5	Endrin Ketone	1.6	U
8001-35-2	Toxaphene	324	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131009 Lab File ID: 31009.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 6:18 AM

PercentSolids: 84 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 / PCB1 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.8	U
319-85-7	Beta-BHC	1.8	U
319-86-8	Delta-BHC	1.8	U
58-89-9	Gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	1.8	U
72-55-9	4,4'-DDE	1.8	U
72-20-8	Endrin	1.8	U
33213-65-9	Endosulfan II	1.8	U
72-54-8	4,4'-DDD	1.8	U
1031-07-8	Endosulfan sulfate	1.8	U
50-29-3	4,4'-DDT	1.8	U
72-43-5	Methoxychlor	3.6	U
7421-93-4	Endrin aldehyde	1.8	U
5103-71-9	Alpha-Chlordane	1.8	U
5103-74-2	Gamma-Chlordane	1.8	U
53494-70-5	Endrin Ketone	1.8	U
8001-35-2	Toxaphene	360	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131010 Lab File ID: 31010.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 6:48 AM

PercentSolids: 88 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 / PCB2 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.7	U
319-85-7	Beta-BHC	1.7	U
319-86-8	Delta-BHC	1.7	U
58-89-9	Gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	451	EP
72-55-9	4,4'-DDE	1.7	U
72-20-8	Endrin	1.7	U
33213-65-9	Endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	Endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	Methoxychlor	3.5	U
7421-93-4	Endrin aldehyde	1.7	U
5103-71-9	Alpha-Chlordane	1.7	U
5103-74-2	Gamma-Chlordane	1.7	U
53494-70-5	Endrin Ketone	1.7	U
8001-35-2	Toxaphene	345	U

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131010DL1 Lab File ID: 31010D.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 8:11 AM

PercentSolids: 88 decanted: Dilution Factor: 20

Extraction: SONC Station ID: Site 25 / PCB2 Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	35	U
319-85-7	Beta-BHC	35	U
319-86-8	Delta-BHC	35	U
58-89-9	Gamma-BHC (Lindane)	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	492	P
72-55-9	4,4'-DDE	35	U
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	35	U
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	35	U
72-43-5	Methoxychlor	69	U
7421-93-4	Endrin aldehyde	35	U
5103-71-9	Alpha-Chlordane	35	U
5103-74-2	Gamma-Chlordane	35	U
53494-70-5	Endrin Ketone	35	U
8001-35-2	Toxaphene	6910	U

QC Summary

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0207blks

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 0207blks Lab File ID: 07BLKS.D

Sample wt/vol: 33 Units: G Date Received: 2/7/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/8/01 Time: 9:24 PM

PercentSolids: 100 decanted: Dilution Factor: 1

Extraction: SONC Station ID: QC Method: 8081

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
319-84-6	Alpha-BHC	1.5	U
319-85-7	Beta-BHC	1.5	U
319-86-8	Delta-BHC	1.5	U
58-89-9	Gamma-BHC (Lindane)	1.5	U
76-44-8	Heptachlor	1.5	U
309-00-2	Aldrin	1.5	U
1024-57-3	Heptachlor epoxide	1.5	U
959-98-8	Endosulfan I	1.5	U
60-57-1	Dieldrin	1.5	U
72-55-9	4,4'-DDE	1.5	U
72-20-8	Endrin	1.5	U
33213-65-9	Endosulfan II	1.5	U
72-54-8	4,4'-DDD	1.5	U
1031-07-8	Endosulfan sulfate	1.5	U
50-29-3	4,4'-DDT	1.5	U
72-43-5	Methoxychlor	3	U
7421-93-4	Endrin aldehyde	1.5	U
5103-71-9	Alpha-Chlordane	1.5	U
5103-74-2	Gamma-Chlordane	1.5	U
53494-70-5	Endrin Ketone	1.5	U
8001-35-2	Toxaphene	303	U

FORM 4
SVPEST METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0207BLKS

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKS Lab File ID: 07BLKS

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 02/07/01

Date Analyzed (1): 02/08/01 Date Analyzed (2): 02/08/01

Time Analyzed (1): 2124 Time Analyzed (2): 2124

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column (1): XTI-5 ID: 0.53 (mm) GC Column (2): RTX-1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	0207BLKSMS	0207BLKSMS	02/08/01	02/08/01
02	0207BLKSSD	0207BLKSMSD	02/08/01	02/08/01
03	0207LCSS	0207LCSS	02/08/01	02/08/01
04	0207TOXLCS	0207TOXLCS	02/08/01	02/08/01
05	00525WC01S0201	210131001	02/08/01	02/08/01
06	00525WC02S0201	210131002	02/09/01	02/09/01
07	00525WC03S0201	210131003	02/09/01	02/09/01
08	00525WC04S0201	210131004	02/09/01	02/09/01
09	00525WC05S0201	210131005	02/09/01	02/09/01
10	00525WC06S0201	210131006	02/09/01	02/09/01
11	00525WC07S0201	210131007	02/09/01	02/09/01
12	00525WC08S0201	210131008	02/09/01	02/09/01
13	00525WC09S0201	210131009	02/09/01	02/09/01
14	00525WC10S0201	210131010	02/09/01	02/09/01
15	00525WC01S0201DL	210131001DL1	02/11/01	02/11/01
16	00525WC03S0201DL	210131003DL1	02/11/01	02/11/01
17	00525WC04S0201DL	210131004DL1	02/11/01	02/11/01
18	00525WC05S0201DL	210131005DL1	02/11/01	02/11/01
19	00525WC07S0201DL	210131007DL1	02/11/01	02/11/01
20	00525WC07S0201DL	210131007DL2	02/11/01	02/11/01
21	00525WC10S0201DL	210131010DL1	02/11/01	02/11/01
22				
23				
24				
25				
26				

COMMENTS: _____

SOIL PESTICIDE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: XTI-5 & RTX-170 ID: 0.53

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	61.2	74.4					0
00525WC01S0201DL1	60	62.6					0
00525WC02S0201	89.2	80.2					0
00525WC03S0201	71.3	72.5					0
00525WC03S0201DL1	59.7	64.3					0
00525WC04S0201	72.1	78					0
00525WC04S0201DL1	86.1	64.1					0
00525WC05S0201	67.1	81.7					0
00525WC05S0201DL1	79.6	65.6					0
00525WC06S0201	79.6	88.6					0
00525WC07S0201	67.4	82.7					0
00525WC07S0201DL1	74.4	61.2					0
00525WC07S0201DL2	55	66.4					0
00525WC08S0201	77.5	88.3					0
00525WC09S0201	81.9	87.2					0
00525WC10S0201	71.9	82.6					0
00525WC10S0201DL1	68.7	73.3					0
0207blks	72.9	66.7					0
0207blksms	81.8	79.2					0
0207blkssd	71.3	66					0
0207lcss	73.6	72.3					0
0207toxlcs	80.5	71.3					0

Control Limits

S1 = Decachlorobiphenyl 25 - 143

S2 = 2,4,5,6-Tetrachloro-m-xylene 35 - 135

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) LAB

Form II

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEM	PEM	02/05/01	1025		
02	PCAL8	PCAL8	02/05/01	1055	4.35	21.87
03	PCAL7	PCAL7	02/05/01	1125	4.35	21.87
04	PCAL6	PCAL6	02/05/01	1154	4.35	21.87
05	PCAL5	PCAL5	02/05/01	1224	4.35	21.86
06	PCAL4	PCAL4	02/05/01	1254	4.35	21.87
07	PCAL3	PCAL3	02/05/01	1324	4.35	21.87
08	PCAL2	PCAL2	02/05/01	1353	4.35	21.87
09	PCAL1	PCAL1	02/05/01	1423	4.35	21.87
10	TOXCAL	TOXCAL	02/05/01	1453		
11	CHLORCAL	CHLORCAL	02/05/01	1523		
12	PEM1	PEM1	02/05/01	1958		
13	PEST CCV1	PEST CCV1	02/05/01	2028	4.35	21.87
14	TOX CCV1	TOX CCV1	02/05/01	2057		
15	CHLORCCV1	CHLORCCV1	02/05/01	2127		
16	ZZZZZ	ZZZZZ	02/05/01	2157	4.35	21.87
17	ZZZZZ	ZZZZZ	02/05/01	2226	4.35	21.87
18	ZZZZZ	ZZZZZ	02/05/01	2256	4.35	21.87
19	ZZZZZ	ZZZZZ	02/05/01	2326	4.35	21.87
20	ZZZZZ	ZZZZZ	02/05/01	2355	4.35	21.87
21	ZZZZZ	ZZZZZ	02/06/01	0025	4.35	21.87
22	ZZZZZ	ZZZZZ	02/06/01	0054	4.35	21.87
23	ZZZZZ	ZZZZZ	02/06/01	0124	4.35	21.87
24	ZZZZZ	ZZZZZ	02/06/01	0154	4.35	21.87
25	ZZZZZ	ZZZZZ	02/06/01	0223	4.36	21.87
26	PEM2	PEM2	02/06/01	0323		
27	PEST CCV2	PEST CCV2	02/06/01	0352	4.36	21.87
28	TOX CCV2	TOX CCV2	02/06/01	0422		
29	CHLOR CCV2	CHLOR CCV2	02/06/01	0452		
30	ZZZZZ	ZZZZZ	02/06/01	0521	4.36	21.87
31	ZZZZZ	ZZZZZ	02/06/01	0551	4.36	21.87
32	ZZZZZ	ZZZZZ	02/06/01	0621	4.36	21.92

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/06/01	0650	4.36	21.87
02	ZZZZZ	ZZZZZ	02/06/01	0720	4.36	21.87
03	ZZZZZ	ZZZZZ	02/06/01	0750	4.36	21.87
04	ZZZZZ	ZZZZZ	02/06/01	0819	4.36	21.87
05	ZZZZZ	ZZZZZ	02/06/01	0849	4.35	21.87
06	ZZZZZ	ZZZZZ	02/06/01	0919	4.35	21.87
07	ZZZZZ	ZZZZZ	02/06/01	0948	4.35	21.87
08	ZZZZZ	ZZZZZ	02/06/01	1018		21.90
09	PEM3	PEM3	02/06/01	1047		
10	PEST CCV3	PEST CCV3	02/06/01	1117	4.35	21.86
11	TOX CCV3	TOX CCV3	02/06/01	1147		
12	CHLOR CCV3	CHLOR CCV3	02/06/01	1217		
13	ZZZZZ	ZZZZZ	02/06/01	1246	4.35	21.86
14	ZZZZZ	ZZZZZ	02/06/01	1316	4.35	21.86
15	ZZZZZ	ZZZZZ	02/06/01	1346	4.35	21.86
16	ZZZZZ	ZZZZZ	02/06/01	1416	4.34	21.86
17	ZZZZZ	ZZZZZ	02/06/01	1445	4.35	21.86
18	ZZZZZ	ZZZZZ	02/06/01	1515	4.35	21.87
19	ZZZZZ	ZZZZZ	02/06/01	1545	4.34	21.87
20	ZZZZZ	ZZZZZ	02/06/01	1614	4.34	
21	ZZZZZ	ZZZZZ	02/06/01	1644		21.91
22	PEM4	PEM4	02/06/01	1714		
23	PEST CCV4	PEST CCV4	02/06/01	1743	4.35	21.87
24	TOX CCV4	TOX CCV4	02/06/01	1813		
25	CHLOR CCV4	CHLOR CCV4	02/06/01	1843		
26	PEM5	PEM5	02/07/01	0207		
27	PEST CCV6	PEST CCV6	02/07/01	0900	4.38	21.87
28	TOX CCV6	TOX CCV6	02/07/01	0930		
29	ZZZZZ	ZZZZZ	02/07/01	1029	4.35	21.86
30	ZZZZZ	ZZZZZ	02/07/01	1059	4.35	21.86
31	ZZZZZ	ZZZZZ	02/07/01	1129	4.34	
32	ZZZZZ	ZZZZZ	02/07/01	1158	4.34	21.86

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/07/01	1228		
02	PEM7	PEM7	02/07/01	1258		
03	PEST CCV7	PEST CCV7	02/07/01	1328	4.34	21.86
04	TOX CCV7	TOX CCV7	02/07/01	1358		
05	ZZZZZ	ZZZZZ	02/07/01	1428		
06	ZZZZZ	ZZZZZ	02/07/01	1457	4.34	21.86
07	ZZZZZ	ZZZZZ	02/07/01	1527	4.34	21.86
08	ZZZZZ	ZZZZZ	02/07/01	1556	4.34	21.86
09	ZZZZZ	ZZZZZ	02/07/01	1626	4.34	21.86
10	ZZZZZ	ZZZZZ	02/07/01	1656	4.34	21.86
11	ZZZZZ	ZZZZZ	02/07/01	1725	4.34	21.86
12	ZZZZZ	ZZZZZ	02/07/01	1755	4.34	21.86
13	ZZZZZ	ZZZZZ	02/07/01	1825	4.34	21.86
14	ZZZZZ	ZZZZZ	02/07/01	1854	4.34	21.86
15	ZZZZZ	ZZZZZ	02/07/01	1924	4.34	21.86
16	ZZZZZ	ZZZZZ	02/07/01	1954		21.86
17	PEM8	PEM8	02/07/01	2023		
18	PEST CCV8	PEST CCV8	02/07/01	2053	4.35	21.86
19	ZZZZZ	ZZZZZ	02/07/01	2123		21.88
20	ZZZZZ	ZZZZZ	02/07/01	2152		
21	ZZZZZ	ZZZZZ	02/07/01	2222	4.35	21.86
22	ZZZZZ	ZZZZZ	02/07/01	2252	4.35	21.86
23	ZZZZZ	ZZZZZ	02/07/01	2321	4.35	21.86
24	ZZZZZ	ZZZZZ	02/07/01	2351	4.35	21.86
25	ZZZZZ	ZZZZZ	02/08/01	0021	4.35	21.86
26	ZZZZZ	ZZZZZ	02/08/01	0050	4.35	21.86
27	ZZZZZ	ZZZZZ	02/08/01	0120	4.35	21.86
28	ZZZZZ	ZZZZZ	02/08/01	0150	4.35	21.86
29	ZZZZZ	ZZZZZ	02/08/01	0219	4.35	21.86
30	ZZZZZ	ZZZZZ	02/08/01	0249	4.35	21.86
31	ZZZZZ	ZZZZZ	02/08/01	0319		21.85
32	PEM9	PEM9	02/08/01	0348		

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEST CCV9	PEST CCV9	02/08/01	0418	4.35	21.86
02	TOX CCV9	TOX CCV9	02/08/01	0448		
03	CHLOR CCV9	CHLOR CCV9	02/08/01	0517		
04	ZZZZZ	ZZZZZ	02/08/01	0547	4.35	21.86
05	ZZZZZ	ZZZZZ	02/08/01	0617	4.35	21.86
06	ZZZZZ	ZZZZZ	02/08/01	0646	4.35	21.86
07	ZZZZZ	ZZZZZ	02/08/01	0716	4.35	21.86
08	ZZZZZ	ZZZZZ	02/08/01	0746	4.35	21.86
09	ZZZZZ	ZZZZZ	02/08/01	0815	4.35	21.86
10	ZZZZZ	ZZZZZ	02/08/01	0845	4.35	21.86
11	ZZZZZ	ZZZZZ	02/08/01	0915	4.35	21.86
12	ZZZZZ	ZZZZZ	02/08/01	0945	4.34	21.86
13	ZZZZZ	ZZZZZ	02/08/01	1014	4.34	21.86
14	ZZZZZ	ZZZZZ	02/08/01	1044		21.84
15	PEM10	PEM10	02/08/01	1114		
16	PEST CCV10	PEST CCV10	02/08/01	1144	4.34	21.86
17	TOX CCV10	TOX CCV10	02/08/01	1213		
18	CHLOR CCV10	CHLOR CCV10	02/08/01	1243		
19	ZZZZZ	ZZZZZ	02/08/01	1313	4.34	21.86
20	ZZZZZ	ZZZZZ	02/08/01	1342	4.34	21.86
21	ZZZZZ	ZZZZZ	02/08/01	1428	4.36	21.86
22	ZZZZZ	ZZZZZ	02/08/01	1458	4.34	21.86
23	ZZZZZ	ZZZZZ	02/08/01	1527	4.34	21.86
24	ZZZZZ	ZZZZZ	02/08/01	1557	4.34	21.86
25	ZZZZZ	ZZZZZ	02/08/01	1627	4.34	21.86
26	ZZZZZ	ZZZZZ	02/08/01	1656	4.34	21.86
27	ZZZZZ	ZZZZZ	02/08/01	1726	4.34	21.86
28	ZZZZZ	ZZZZZ	02/08/01	1756	4.34	21.86
29	ZZZZZ	ZZZZZ	02/08/01	1825		
30	ZZZZZ	ZZZZZ	02/08/01	1855		21.85
31	PEM11	PEM11	02/08/01	1925		
32	PEST CCV11	PEST CCV11	02/08/01	1955	4.34	21.86

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	TOX CCV11	TOX CCV11	02/08/01	2024		
02	ZZZZZ	ZZZZZ	02/08/01	2054		
03	0207BLKS	0207BLKS	02/08/01	2124	4.34	21.86
04	0207BLKSMS	0207BLKSMS	02/08/01	2153	4.34	21.86
05	0207BLKSSD	0207BLKSMSD	02/08/01	2223	4.35	21.86
06	0207LCSS	0207LCSS	02/08/01	2253	4.34	21.86
07	0207TOXLCS	0207TOXLCS	02/08/01	2322	4.35	21.86
08	00525WC01S0201	210131001	02/08/01	2352	4.35	21.86
09	00525WC02S0201	210131002	02/09/01	0022	4.34	21.86
10	00525WC03S0201	210131003	02/09/01	0052	4.35	21.86
11	00525WC04S0201	210131004	02/09/01	0121	4.35	21.86
12	00525WC05S0201	210131005	02/09/01	0151	4.35	21.86
13	ZZZZZ	ZZZZZ	02/09/01	0221		21.92
14	PEM12	PEM12	02/09/01	0250		
15	PEST CCV12	PEST CCV12	02/09/01	0320	4.35	21.86
16	TOX CCV12	TOX CCV12	02/09/01	0350		
17	ZZZZZ	ZZZZZ	02/09/01	0419	4.30	
18	00525WC06S0201	210131006	02/09/01	0449	4.35	21.87
19	00525WC07S0201	210131007	02/09/01	0519	4.35	21.87
20	00525WC08S0201	210131008	02/09/01	0548	4.35	21.87
21	00525WC09S0201	210131009	02/09/01	0618	4.35	21.87
22	00525WC10S0201	210131010	02/09/01	0648	4.35	21.87
23	ZZZZZ	ZZZZZ	02/09/01	0717	4.35	21.87
24	ZZZZZ	ZZZZZ	02/09/01	0747	4.35	21.86
25	ZZZZZ	ZZZZZ	02/09/01	0817	4.35	21.86
26	ZZZZZ	ZZZZZ	02/09/01	0847	4.35	21.86
27	ZZZZZ	ZZZZZ	02/09/01	0916	4.35	21.86
28	ZZZZZ	ZZZZZ	02/09/01	0946		21.83
29	PEM13	PEM13	02/09/01	1016		
30	PEST CCV13	PEST CCV13	02/09/01	1105	4.36	21.86
31	TOX CCV13	TOX CCV13	02/09/01	1134		
32	ZZZZZ	ZZZZZ	02/09/01	1204		

QC LIMITS

S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ_	ZZZZZ	02/09/01	1234	4.34	21.86
02	ZZZZZ	ZZZZZ	02/09/01	1304	4.34	21.86
03	ZZZZZ	ZZZZZ	02/09/01	1340	4.35	21.86
04	ZZZZZ	ZZZZZ	02/09/01	1422	4.35	21.86
05	ZZZZZ	ZZZZZ	02/09/01	1451	4.33	21.86
06	ZZZZZ	ZZZZZ	02/09/01	1521	4.34	21.86
07	ZZZZZ	ZZZZZ	02/09/01	1551	4.33	21.86
08	ZZZZZ	ZZZZZ	02/09/01	1620		21.86
09	PEM14	PEM14	02/09/01	1650		
10	PEST CCV14	PEST CCV14	02/09/01	1720	4.34	21.86
11	TOX CCV14	TOX CCV14	02/09/01	1750		
12	CHLOR CCV14	CHLOR CCV14	02/09/01	1820		
13	ZZZZZ	ZZZZZ	02/09/01	2346		21.85
14	PEM15	PEM15	02/10/01	0016		
15	PEST CCV15	PEST CCV15	02/10/01	0045	4.35	21.86
16	TOX CCV15	TOX CCV15	02/10/01	0115		
17	CHLOR CCV15	CHLOR CCV15	02/10/01	0145		
18	ZZZZZ	ZZZZZ	02/10/01	1950		21.88
19	PEM16	PEM16	02/10/01	2020		
20	PEST CCV16	PEST CCV16	02/10/01	2050	4.35	21.86
21	TOX CCV16	TOX CCV16	02/10/01	2119		
22	CHLOR CCV16	CHLOR CCV16	02/10/01	2149		
23	ZZZZZ	ZZZZZ	02/11/01	0116	4.35	21.87
24	ZZZZZ	ZZZZZ	02/11/01	0146	4.35	21.86
25	ZZZZZ	ZZZZZ	02/11/01	0215	4.35	21.86
26	00525WC01S0201DL	210131001DL1	02/11/01	0245	4.35	21.86
27	ZZZZZ	ZZZZZ	02/11/01	0315		
28	PEM17	PEM17	02/11/01	0344		
29	PEST CCV17	PEST CCV17	02/11/01	0414	4.35	21.86
30	TOX CCV17	TOX CCV17	02/11/01	0443		
31	ZZZZZ	ZZZZZ	02/11/01	0513		21.83
32	00525WC03S0201DL	210131003DL1	02/11/01	0543	4.34	21.86

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.35 DCB: 21.87

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	00525WC04S0201DL	210131004DL1	02/11/01	0612	4.34	21.86
02	00525WC05S0201DL	210131005DL1	02/11/01	0642	4.35	21.86
03	00525WC07S0201DL	210131007DL1	02/11/01	0712	4.34	21.86
04	00525WC07S0201DL	210131007DL2	02/11/01	0741	4.34	21.86
05	00525WC10S0201DL	210131010DL1	02/11/01	0811	4.35	21.86
06	ZZZZZ	ZZZZZ	02/11/01	0841		21.92
07	PEST CCV18	PEST CCV18	02/11/01	0911	4.35	21.86
08						
09						
10						
11						
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QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEM	PEM	02/05/01	1025		
02	PCAL8	PCAL8	02/05/01	1055	4.71	22.21
03	PCAL7	PCAL7	02/05/01	1125	4.71	22.21
04	PCAL6	PCAL6	02/05/01	1154	4.71	22.21
05	PCAL5	PCAL5	02/05/01	1224	4.71	22.21
06	PCAL4	PCAL4	02/05/01	1254	4.71	22.21
07	PCAL3	PCAL3	02/05/01	1324	4.71	22.21
08	PCAL2	PCAL2	02/05/01	1353	4.71	22.21
09	PCAL1	PCAL1	02/05/01	1423	4.71	22.21
10	TOXCAL	TOXCAL	02/05/01	1453		
11	CHLORCAL	CHLORCAL	02/05/01	1523		
12	PEM1	PEM1	02/05/01	1958		
13	PEST CCV1	PEST CCV1	02/05/01	2028	4.71	22.21
14	TOX CCV1	TOX CCV1	02/05/01	2057		
15	CHLORCCV1	CHLORCCV1	02/05/01	2127		
16	ZZZZZ	ZZZZZ	02/05/01	2157	4.71	22.21
17	ZZZZZ	ZZZZZ	02/05/01	2226	4.71	22.22
18	ZZZZZ	ZZZZZ	02/05/01	2256	4.71	22.21
19	ZZZZZ	ZZZZZ	02/05/01	2326	4.72	22.21
20	ZZZZZ	ZZZZZ	02/05/01	2355	4.71	22.22
21	ZZZZZ	ZZZZZ	02/06/01	0025	4.72	22.21
22	ZZZZZ	ZZZZZ	02/06/01	0054	4.71	22.22
23	ZZZZZ	ZZZZZ	02/06/01	0124	4.72	22.22
24	ZZZZZ	ZZZZZ	02/06/01	0154	4.72	22.22
25	ZZZZZ	ZZZZZ	02/06/01	0223	4.72	22.22
26	PEM2	PEM2	02/06/01	0323		
27	PEST CCV2	PEST CCV2	02/06/01	0352	4.72	22.22
28	TOX CCV2	TOX CCV2	02/06/01	0422		
29	CHLOR CCV2	CHLOR CCV2	02/06/01	0452		
30	ZZZZZ	ZZZZZ	02/06/01	0521	4.72	22.22
31	ZZZZZ	ZZZZZ	02/06/01	0551	4.72	22.22
32	ZZZZZ	ZZZZZ	02/06/01	0621	4.72	

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/06/01	0650	4.72	22.22
02	ZZZZZ	ZZZZZ	02/06/01	0720	4.72	22.22
03	ZZZZZ	ZZZZZ	02/06/01	0750	4.72	22.22
04	ZZZZZ	ZZZZZ	02/06/01	0819	4.72	22.22
05	ZZZZZ	ZZZZZ	02/06/01	0849	4.72	22.22
06	ZZZZZ	ZZZZZ	02/06/01	0919	4.72	22.22
07	ZZZZZ	ZZZZZ	02/06/01	0948	4.71	22.21
08	ZZZZZ	ZZZZZ	02/06/01	1018		
09	PEM3	PEM3	02/06/01	1047		
10	PEST CCV3	PEST CCV3	02/06/01	1117	4.71	22.21
11	TOX CCV3	TOX CCV3	02/06/01	1147		
12	CHLOR CCV3	CHLOR CCV3	02/06/01	1217		
13	ZZZZZ	ZZZZZ	02/06/01	1246	4.71	22.21
14	ZZZZZ	ZZZZZ	02/06/01	1316	4.71	22.21
15	ZZZZZ	ZZZZZ	02/06/01	1346	4.71	22.21
16	ZZZZZ	ZZZZZ	02/06/01	1416	4.71	22.21
17	ZZZZZ	ZZZZZ	02/06/01	1445	4.71	22.21
18	ZZZZZ	ZZZZZ	02/06/01	1515	4.71	22.21
19	ZZZZZ	ZZZZZ	02/06/01	1545	4.71	
20	ZZZZZ	ZZZZZ	02/06/01	1614	4.71	
21	ZZZZZ	ZZZZZ	02/06/01	1644		
22	PEM4	PEM4	02/06/01	1714		
23	PEST CCV4	PEST CCV4	02/06/01	1743	4.71	22.21
24	TOX CCV4	TOX CCV4	02/06/01	1813		
25	CHLOR CCV4	CHLOR CCV4	02/06/01	1843		
26	PEM5	PEM5	02/07/01	0207		
27	PEST CCV6	PEST CCV6	02/07/01	0900	4.72	22.21
28	TOX CCV6	TOX CCV6	02/07/01	0930		
29	ZZZZZ	ZZZZZ	02/07/01	1029	4.71	22.21
30	ZZZZZ	ZZZZZ	02/07/01	1059	4.71	22.21
31	ZZZZZ	ZZZZZ	02/07/01	1129	4.71	
32	ZZZZZ	ZZZZZ	02/07/01	1158	4.71	22.21

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/07/01	1228		22.25
02	PEM7	PEM7	02/07/01	1258		
03	PEST CCV7	PEST CCV7	02/07/01	1328	4.70	22.21
04	TOX CCV7	TOX CCV7	02/07/01	1358		
05	ZZZZZ	ZZZZZ	02/07/01	1428		
06	ZZZZZ	ZZZZZ	02/07/01	1457	4.70	22.21
07	ZZZZZ	ZZZZZ	02/07/01	1527	4.70	22.21
08	ZZZZZ	ZZZZZ	02/07/01	1556	4.70	22.21
09	ZZZZZ	ZZZZZ	02/07/01	1626	4.70	22.21
10	ZZZZZ	ZZZZZ	02/07/01	1656	4.70	22.21
11	ZZZZZ	ZZZZZ	02/07/01	1725	4.70	22.21
12	ZZZZZ	ZZZZZ	02/07/01	1755	4.70	22.21
13	ZZZZZ	ZZZZZ	02/07/01	1825	4.70	22.21
14	ZZZZZ	ZZZZZ	02/07/01	1854	4.71	22.21
15	ZZZZZ	ZZZZZ	02/07/01	1924	4.70	22.21
16	ZZZZZ	ZZZZZ	02/07/01	1954		
17	PEM8	PEM8	02/07/01	2023		
18	PEST CCV8	PEST CCV8	02/07/01	2053	4.71	22.21
19	ZZZZZ	ZZZZZ	02/07/01	2123		
20	ZZZZZ	ZZZZZ	02/07/01	2152		
21	ZZZZZ	ZZZZZ	02/07/01	2222	4.71	22.21
22	ZZZZZ	ZZZZZ	02/07/01	2252	4.71	22.21
23	ZZZZZ	ZZZZZ	02/07/01	2321	4.71	22.21
24	ZZZZZ	ZZZZZ	02/07/01	2351	4.71	22.21
25	ZZZZZ	ZZZZZ	02/08/01	0021	4.71	22.21
26	ZZZZZ	ZZZZZ	02/08/01	0050	4.71	22.21
27	ZZZZZ	ZZZZZ	02/08/01	0120	4.71	22.21
28	ZZZZZ	ZZZZZ	02/08/01	0150	4.71	22.21
29	ZZZZZ	ZZZZZ	02/08/01	0219	4.71	22.21
30	ZZZZZ	ZZZZZ	02/08/01	0249	4.71	22.21
31	ZZZZZ	ZZZZZ	02/08/01	0319		22.20
32	PEM9	PEM9	02/08/01	0348		

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	PEST CCV9	PEST CCV9	02/08/01	0418	4.71	22.21
02	TOX CCV9	TOX CCV9	02/08/01	0448		
03	CHLOR CCV9	CHLOR CCV9	02/08/01	0517		
04	ZZZZZ	ZZZZZ	02/08/01	0547	4.71	22.21
05	ZZZZZ	ZZZZZ	02/08/01	0617	4.71	22.21
06	ZZZZZ	ZZZZZ	02/08/01	0646	4.71	22.21
07	ZZZZZ	ZZZZZ	02/08/01	0716	4.71	22.21
08	ZZZZZ	ZZZZZ	02/08/01	0746	4.71	22.21
09	ZZZZZ	ZZZZZ	02/08/01	0815	4.71	22.21
10	ZZZZZ	ZZZZZ	02/08/01	0845	4.71	22.22
11	ZZZZZ	ZZZZZ	02/08/01	0915	4.71	22.21
12	ZZZZZ	ZZZZZ	02/08/01	0945	4.70	22.21
13	ZZZZZ	ZZZZZ	02/08/01	1014	4.70	22.21
14	ZZZZZ	ZZZZZ	02/08/01	1044		
15	PEM10	PEM10	02/08/01	1114		
16	PEST CCV10	PEST CCV10	02/08/01	1144	4.70	22.21
17	TOX CCV10	TOX CCV10	02/08/01	1213		
18	CHLOR CCV10	CHLOR CCV10	02/08/01	1243		
19	ZZZZZ	ZZZZZ	02/08/01	1313	4.70	22.21
20	ZZZZZ	ZZZZZ	02/08/01	1342	4.70	22.21
21	ZZZZZ	ZZZZZ	02/08/01	1428	4.70	22.21
22	ZZZZZ	ZZZZZ	02/08/01	1458	4.70	22.21
23	ZZZZZ	ZZZZZ	02/08/01	1527	4.70	22.21
24	ZZZZZ	ZZZZZ	02/08/01	1557	4.70	22.21
25	ZZZZZ	ZZZZZ	02/08/01	1627	4.70	22.21
26	ZZZZZ	ZZZZZ	02/08/01	1656	4.70	22.22
27	ZZZZZ	ZZZZZ	02/08/01	1726	4.70	22.21
28	ZZZZZ	ZZZZZ	02/08/01	1756	4.70	22.21
29	ZZZZZ	ZZZZZ	02/08/01	1825		
30	ZZZZZ	ZZZZZ	02/08/01	1855		22.25
31	PEM11	PEM11	02/08/01	1925		
32	PEST CCV11	PEST CCV11	02/08/01	1955	4.70	22.21

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	TOX CCV11	TOX CCV11	02/08/01	2024		
02	ZZZZZ	ZZZZZ	02/08/01	2054		
03	0207BLKS	0207BLKS	02/08/01	2124	4.71	22.21
04	0207BLKSMS	0207BLKSMS	02/08/01	2153	4.70	22.21
05	0207BLKSSD	0207BLKSMSD	02/08/01	2223	4.71	22.21
06	ZZZZZ	ZZZZZ	02/08/01	2253	4.71	22.21
07	0207TOXLCS	0207TOXLCS	02/08/01	2322	4.71	22.21
08	00525WC01S0201	210131001	02/08/01	2352	4.71	22.21
09	00525WC02S0201	210131002	02/09/01	0022	4.71	22.21
10	00525WC03S0201	210131003	02/09/01	0052	4.71	22.21
11	00525WC04S0201	210131004	02/09/01	0121	4.71	22.21
12	00525WC05S0201	210131005	02/09/01	0151	4.71	22.21
13	ZZZZZ	ZZZZZ	02/09/01	0221		22.22
14	PEM12	PEM12	02/09/01	0250		
15	PEST CCV12	PEST CCV12	02/09/01	0320	4.71	22.21
16	TOX CCV12	TOX CCV12	02/09/01	0350		
17	ZZZZZ	ZZZZZ	02/09/01	0419		
18	00525WC06S0201	210131006	02/09/01	0449	4.71	22.21
19	00525WC07S0201	210131007	02/09/01	0519	4.71	22.21
20	00525WC08S0201	210131008	02/09/01	0548	4.71	22.21
21	00525WC09S0201	210131009	02/09/01	0618	4.71	22.21
22	00525WC10S0201	210131010	02/09/01	0648	4.72	22.21
23	ZZZZZ	ZZZZZ	02/09/01	0717	4.71	22.21
24	ZZZZZ	ZZZZZ	02/09/01	0747	4.71	22.24
25	ZZZZZ	ZZZZZ	02/09/01	0817	4.71	22.24
26	ZZZZZ	ZZZZZ	02/09/01	0847	4.71	22.21
27	ZZZZZ	ZZZZZ	02/09/01	0916	4.71	22.21
28	ZZZZZ	ZZZZZ	02/09/01	0946		22.18
29	PEM13	PEM13	02/09/01	1016		
30	PEST CCV13	PEST CCV13	02/09/01	1105	4.71	22.21
31	TOX CCV13	TOX CCV13	02/09/01	1134		
32	ZZZZZ	ZZZZZ	02/09/01	1204		

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	ZZZZZ	ZZZZZ	02/09/01	1234	4.70	22.21
02	ZZZZZ	ZZZZZ	02/09/01	1304	4.70	22.21
03	ZZZZZ	ZZZZZ	02/09/01	1340	4.69	22.20
04	ZZZZZ	ZZZZZ	02/09/01	1422	4.69	22.20
05	ZZZZZ	ZZZZZ	02/09/01	1451	4.69	22.21
06	ZZZZZ	ZZZZZ	02/09/01	1521	4.70	22.20
07	ZZZZZ	ZZZZZ	02/09/01	1551	4.70	
08	ZZZZZ	ZZZZZ	02/09/01	1620		
09	PEM14	PEM14	02/09/01	1650		
10	PEST CCV14	PEST CCV14	02/09/01	1720	4.70	22.21
11	TOX CCV14	TOX CCV14	02/09/01	1750		
12	CHLOR CCV14	CHLOR CCV14	02/09/01	1820		
13	ZZZZZ	ZZZZZ	02/09/01	2346		22.21
14	PEM15	PEM15	02/10/01	0016		
15	PEST CCV15	PEST CCV15	02/10/01	0045	4.71	22.21
16	TOX CCV15	TOX CCV15	02/10/01	0115		
17	CHLOR CCV15	CHLOR CCV15	02/10/01	0145		
18	ZZZZZ	ZZZZZ	02/10/01	1950		
19	PEM16	PEM16	02/10/01	2020		
20	PEST CCV16	PEST CCV16	02/10/01	2050	4.71	22.21
21	TOX CCV16	TOX CCV16	02/10/01	2119		
22	CHLORCCV16	CHLORCCV16	02/10/01	2149		
23	ZZZZZ	ZZZZZ	02/11/01	0116	4.71	22.21
24	ZZZZZ	ZZZZZ	02/11/01	0146	4.71	22.21
25	ZZZZZ	ZZZZZ	02/11/01	0215	4.71	22.22
26	00525WC01S0201DL	210131001DL1	02/11/01	0245	4.71	22.21
27	ZZZZZ	ZZZZZ	02/11/01	0315		22.21
28	PEM17	PEM17	02/11/01	0344		
29	PEST CCV17	PEST CCV17	02/11/01	0414	4.71	22.21
30	TOX CCV17	TOX CCV17	02/11/01	0443		
31	ZZZZZ	ZZZZZ	02/11/01	0513		
32	00525WC03S0201DL	210131003DL1	02/11/01	0543	4.71	

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SVPEST ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

Instrument ID: SECD01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.71 DCB: 22.21

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	DCB RT #
01	00525WC04S0201DL	210131004DL1	02/11/01	0612	4.71	22.21
02	00525WC05S0201DL	210131005DL1	02/11/01	0642	4.71	22.21
03	00525WC07S0201DL	210131007DL1	02/11/01	0712	4.71	22.21
04	00525WC07S0201DL	210131007DL2	02/11/01	0741	4.71	
05	00525WC10S0201DL	210131010DL1	02/11/01	0811	4.71	
06	ZZZZZ	ZZZZZ	02/11/01	0841		
07	PEST CCV18	PEST CCV18	02/11/01	0911	4.71	22.21
08						
09						
10						
11						
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32						

QC LIMITS
S1 = 2,4,5,6-tetrachloro-m- (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC01S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001 Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin	* 1	13.023	13.007	0.016	511976	0.312	106.000	
	2	15.383	15.350	0.033	794257	0.430	146.000	37.74
Pentachloronitroben	* 1	6.747	6.743	0.004	713819	0.200	0.200	
	2	8.227	8.227	0.000	663826	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	157186	0.075	25.500	
	* 2	4.707	4.707	0.000	155101	0.074	25.300	0.79
Decachlorobiphenyl	* 1	21.863	21.867	0.004	151069	0.061	20.800	
	2	22.210	22.213	0.003	218767	0.104	35.300	69.71

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC0
1S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin	* 1	13.023	13.007	0.016	136123	0.072	122.000	
	2	15.390	15.350	0.040	199068	0.094	160.000	31.15
Pentachloronitroben	* 1	6.747	6.743	0.004	828503	0.200	0.200	
	2	8.227	8.227	0.000	760397	0.200	0.200	0.00
2,4,5,6-tetrachloro	* 1	4.347	4.347	0.000	30372	0.012	21.300	
	2	4.707	4.707	0.000	30430	0.013	21.700	1.88
Decachlorobiphenyl	1	21.863	21.867	0.004	45223	0.016	26.900	
	* 2	22.210	22.213	0.003	28885	0.012	20.400	31.86

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC02S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131002 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin	* 1	13.020	13.007	0.013	28701	0.018	6.100	
	2	15.373	15.350	0.023	54899	0.030	10.400	70.49
alpha-chlordane	1	12.267	12.267	0.000	58142	0.023	8.000	
	* 2	14.420	14.417	0.003	53371	0.022	7.500	6.67
gamma-chlordane	* 1	11.757	11.760	0.003	62816	0.026	9.000	
	2	14.133	14.133	0.000	61449	0.026	9.000	0.00
Pentachloronitroben	* 1	6.743	6.743	0.000	701191	0.200	0.200	
	2	8.227	8.227	0.000	654732	0.200	0.200	0.00
2,4,5,6-tetrachloro	* 1	4.343	4.347	0.004	164869	0.080	27.600	
	2	4.707	4.707	0.000	164796	0.080	27.600	0.00
Decachlorobiphenyl	1	21.863	21.867	0.004	219279	0.091	31.200	
	* 2	22.210	22.213	0.003	185130	0.089	30.700	1.63

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC03S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131003 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
4,4'-DDE	1	13.163	13.167	0.004	2426208	1.220	421.000	
	* 2	15.053	15.057	0.004	2140159	1.211	418.000	0.72
4,4'-DDD	1	14.913	14.927	0.014	1497809	1.366	472.000	
	* 2	18.557	18.560	0.003	1460825	1.008	348.000	35.63
4,4'-DDT	* 1	16.463	16.467	0.004	606750	0.338	117.000	
	2	18.953	18.957	0.004	601711	0.428	148.000	26.50
alpha-chlordane	1	12.263	12.267	0.004	2106561	0.853	294.000	
	* 2	14.413	14.417	0.004	1905862	0.796	275.000	6.91
gamma-chlordane	1	11.757	11.760	0.003	2116650	0.893	308.000	
	* 2	14.130	14.133	0.003	1792224	0.783	270.000	14.07
Pentachloronitroben*	1	6.747	6.743	0.004	689909	0.200	0.200	
	2	8.227	8.227	0.000	638919	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	146702	0.072	25.000	
	2	4.707	4.707	0.000	149673	0.075	25.800	3.20
Decachlorobiphenyl *	1	21.863	21.867	0.004	169453	0.071	24.600	
	2	22.210	22.213	0.003	194809	0.096	33.200	34.96

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC0
3S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131003DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
4,4'-DDE	* 1	13.167	13.167	0.000	106118	0.043	297.000	
	2	15.053	15.057	0.004	92955	0.043	297.000	0.00
4,4'-DDD	1	14.913	14.927	0.014	61624	0.045	313.000	
	* 2	18.560	18.560	0.000	74128	0.042	289.000	8.30
4,4'-DDT	* 1	16.463	16.467	0.004	29860	0.013	92.800	
	2	18.957	18.957	0.000	26004	0.015	105.000	13.15
alpha-chlordane	* 1	12.263	12.267	0.004	109306	0.036	246.000	
	2	14.413	14.417	0.004	104063	0.036	246.000	0.00
gamma-chlordane	1	11.757	11.760	0.003	106840	0.036	251.000	
	* 2	14.130	14.133	0.003	93968	0.034	232.000	8.19
Pentachloronitroben	* 1	6.743	6.743	0.000	854796	0.200	0.200	
	2	8.227	8.227	0.000	780130	0.200	0.200	0.00
2,4,5,6-tetrachloro	* 1	4.343	4.347	0.004	8067	0.003	22.200	
	2	4.707	4.707	0.000	8820	0.004	24.900	12.16

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC04S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
heptachlor	* 1	8.727	8.727	0.000	8275	0.004	1.400	
	2	9.637	9.637	0.000	10195	0.005	1.600	14.28
dieldrin	* 1	13.007	13.007	0.000	100128	0.061	20.500	
	2	15.370	15.350	0.020	178938	0.096	32.400	58.05
4,4'-DDE	1	13.163	13.167	0.004	673459	0.326	110.000	
	* 2	15.050	15.057	0.007	561585	0.304	102.000	7.84
4,4'-DDT	1	16.460	16.467	0.007	1371557	0.736	248.000	
	* 2	18.953	18.957	0.004	1029781	0.702	236.000	5.08
alpha-chlordane	1	12.263	12.267	0.004	1122458	0.437	147.000	
	* 2	14.417	14.417	0.000	779409	0.312	105.000	40.00
gamma-chlordane	1	11.760	11.760	0.000	1065632	0.432	146.000	
	* 2	14.130	14.133	0.003	921976	0.386	130.000	12.31
Pentachloronitroben	* 1	6.747	6.743	0.004	717016	0.200	0.200	
	2	8.227	8.227	0.000	666904	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	165384	0.079	26.500	
	* 2	4.707	4.707	0.000	163439	0.078	26.300	0.76
Decachlorobiphenyl	1	21.863	21.867	0.004	224615	0.091	30.600	
	* 2	22.210	22.213	0.003	152425	0.072	24.300	25.92

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC0
4S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin	* 1	13.003	13.007	0.004	10196	0.005	17.000	
	2	15.377	15.350	0.027	16303	0.007	24.600	44.70
4,4'-DDE	1	13.163	13.167	0.004	54786	0.022	72.800	
	* 2	15.050	15.057	0.007	46638	0.021	70.800	2.82
4,4'-DDT	* 1	16.460	16.467	0.007	116423	0.051	172.000	
	2	18.953	18.957	0.004	90751	0.051	173.000	0.58
alpha-chlordane	1	12.263	12.267	0.004	110807	0.035	118.000	
	* 2	14.413	14.417	0.004	81111	0.027	90.900	29.81
gamma-chlordane	1	11.757	11.760	0.003	100322	0.033	112.000	
	* 2	14.130	14.133	0.003	90823	0.032	106.000	5.66
Pentachloronitroben	* 1	6.743	6.743	0.000	879307	0.200	0.200	
	2	8.227	8.227	0.000	802581	0.200	0.200	0.00
2,4,5,6-tetrachloro	* 1	4.343	4.347	0.004	16505	0.006	21.600	
	2	4.707	4.707	0.000	17009	0.007	22.800	5.56
Decachlorobiphenyl	1	21.863	21.867	0.004	29214	0.010	32.400	
	* 2	22.210	22.213	0.003	21940	0.009	29.000	11.72

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC05S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131005 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
heptachlor	1	8.723	8.727	0.004	39703	0.020	6.600	
	* 2	9.637	9.637	0.000	30348	0.014	4.800	37.50
dieldrin	1	13.007	13.007	0.000	485457	0.297	99.200	
	* 2	15.353	15.350	0.003	501276	0.271	90.500	9.61
4,4'-DDE	1	13.167	13.167	0.000	214949	0.105	35.000	
	* 2	15.053	15.057	0.004	121900	0.066	22.200	57.66
4,4'-DDD	1	14.897	14.927	0.030	375887	0.332	111.000	
	* 2	18.567	18.560	0.007	352945	0.234	78.200	41.94
4,4'-DDT	* 1	16.463	16.467	0.004	439094	0.237	79.300	
	2	18.953	18.957	0.004	421464	0.288	96.400	21.56
alpha-chlordane	1	12.263	12.267	0.004	1091980	0.428	143.000	
	* 2	14.417	14.417	0.000	920994	0.370	124.000	15.32
gamma-chlordane	1	11.760	11.760	0.000	1230725	0.502	168.000	
	* 2	14.130	14.133	0.003	1060296	0.445	149.000	12.75
Pentachloronitroben	* 1	6.747	6.743	0.004	713087	0.200	0.200	
	2	8.227	8.227	0.000	664913	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	172125	0.082	27.600	
	* 2	4.707	4.707	0.000	170252	0.082	27.300	1.10
Decachlorobiphenyl	* 1	21.863	21.867	0.004	165120	0.067	22.400	
	2	22.210	22.213	0.003	163705	0.078	26.000	16.07

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC0
5S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131005DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin	* 1	13.007	13.007	0.000	32781	0.016	55.400	
	2	15.350	15.350	0.000	43584	0.020	66.100	19.31
4,4'-DDE	1	13.167	13.167	0.000	17358	0.007	23.400	
	* 2	15.050	15.057	0.007	11062	0.005	16.900	38.46
4,4'-DDD	1	14.893	14.927	0.034	30809	0.022	75.200	
	* 2	18.567	18.560	0.007	39190	0.022	72.900	3.16
4,4'-DDT	* 1	16.463	16.467	0.004	48019	0.021	71.700	
	2	18.953	18.957	0.004	38813	0.022	74.600	4.04
alpha-chlordane	1	12.263	12.267	0.004	111812	0.036	121.000	
	* 2	14.413	14.417	0.004	90639	0.030	102.000	18.63
gamma-chlordane	1	11.760	11.760	0.000	118972	0.040	134.000	
	* 2	14.130	14.133	0.003	101201	0.036	119.000	12.60
Pentachloronitroben*	1	6.747	6.743	0.004	861922	0.200	0.200	
	2	8.227	8.227	0.000	792105	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	16505	0.006	21.900	
	2	4.707	4.707	0.000	17023	0.007	22.900	4.57
Decachlorobiphenyl	* 1	21.863	21.867	0.004	23617	0.008	26.600	
	2	22.210	22.213	0.003	24931	0.010	33.200	24.81

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC06S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131006 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.747	6.743	0.004	695180	0.200	0.200	
	2	8.230	8.227	0.003	650727	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	184147	0.090	31.000	
	* 2	4.710	4.707	0.003	180956	0.089	30.400	1.97
Decachlorobiphenyl	* 1	21.867	21.867	0.000	190930	0.080	27.300	
	2	22.210	22.213	0.003	176839	0.086	29.400	7.69

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
4,4'-DDE	1	13.170	13.167	0.003	316424	0.147	56.800	
	* 2	15.057	15.057	0.000	229875	0.119	46.000	23.48
4,4'-DDD	1	14.950	14.927	0.023	1160642	0.976	378.000	
	* 2	18.567	18.560	0.007	554222	0.349	135.000	180.00
4,4'-DDT	* 1	16.460	16.467	0.007	5477440	2.817	1090.000	
	2	18.953	18.957	0.004	4558406	2.964	1150.000	5.50
alpha-chlordane	1	12.267	12.267	0.000	1761497	0.657	255.000	
	* 2	14.417	14.417	0.000	1458912	0.557	216.000	18.06
gamma-chlordane	1	11.760	11.760	0.000	1866330	0.726	281.000	
	* 2	14.133	14.133	0.000	1609522	0.642	249.000	12.85
Pentachloronitroben*	1	6.747	6.743	0.004	748407	0.200	0.200	
	2	8.230	8.227	0.003	699529	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.350	4.347	0.003	184626	0.084	32.600	
	* 2	4.710	4.707	0.003	181208	0.082	32.000	1.88
Decachlorobiphenyl	* 1	21.867	21.867	0.000	173962	0.067	26.100	
	2	22.210	22.213	0.003	200335	0.090	35.000	34.10

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC0
7S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
4,4'-DDE	1	13.167	13.167	0.000	23758	0.009	36.700	
*	2	15.053	15.057	0.004	14594	0.007	25.800	42.25
4,4'-DDD	1	14.943	14.927	0.016	55573	0.040	156.000	
*	2	18.563	18.560	0.003	62903	0.035	135.000	15.56
4,4'-DDT *	1	16.460	16.467	0.007	454352	0.201	779.000	
	2	18.953	18.957	0.004	390278	0.224	866.000	11.17
alpha-chlordane	1	12.263	12.267	0.004	156666	0.050	195.000	
*	2	14.413	14.417	0.004	122629	0.041	160.000	21.88
gamma-chlordane	1	11.757	11.760	0.003	159424	0.053	206.000	
*	2	14.130	14.133	0.003	132915	0.047	181.000	13.81
Pentachloronitroben*	1	6.743	6.743	0.000	869991	0.200	0.200	
	2	8.227	8.227	0.000	793820	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.343	4.347	0.004	15573	0.006	23.700	
	2	4.707	4.707	0.000	16078	0.006	25.000	5.48
Decachlorobiphenyl *	1	21.863	21.867	0.004	22318	0.007	28.800	
	2	22.210	22.213	0.003	19709	0.008	30.300	5.21

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC0
7S0201DL2

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007DL2 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
4,4'-DDE	1	13.167	13.167	0.000	5938	0.002	45.400	
	* 2	15.053	15.057	0.004	3131	0.001	27.300	66.30
4,4'-DDD	1	14.943	14.927	0.016	13367	0.010	185.000	
	* 2	18.563	18.560	0.003	15471	0.008	164.000	12.80
4,4'-DDT	* 1	16.463	16.467	0.004	87813	0.038	744.000	
	2	18.953	18.957	0.004	74317	0.042	814.000	9.41
alpha-chlordane	1	12.263	12.267	0.004	30527	0.010	188.000	
	* 2	14.413	14.417	0.004	25786	0.008	166.000	13.25
gamma-chlordane	1	11.757	11.760	0.003	31046	0.010	199.000	
	* 2	14.130	14.133	0.003	27858	0.010	187.000	6.42
Pentachloronitroben*	1	6.743	6.743	0.000	879248	0.200	0.200	
	2	8.227	8.227	0.000	804013	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.343	4.347	0.004	3417	0.001	25.700	
	2	4.707	4.707	0.000	4003	0.002	30.700	19.46

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC08S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131008 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
heptachlor epoxide	* 1	11.020	11.000	0.020	11956	0.005	1.800	
	2	12.747	12.787	0.040	13575	0.007	2.100	16.67
4,4'-DDE	1	13.170	13.167	0.003	48884	0.025	8.000	
	* 2	15.057	15.057	0.000	39195	0.022	7.100	12.68
4,4'-DDD	1	14.897	14.927	0.030	78999	0.072	23.400	
	* 2	18.567	18.560	0.007	65482	0.045	14.600	60.27
4,4'-DDT	* 1	16.473	16.467	0.006	51843	0.029	9.400	
	2	18.957	18.957	0.000	50518	0.036	11.600	23.40
alpha-chlordane	1	12.267	12.267	0.000	244557	0.099	32.200	
	* 2	14.420	14.417	0.003	199163	0.083	26.800	20.15
gamma-chlordane	1	11.763	11.760	0.003	228150	0.096	31.300	
	* 2	14.137	14.133	0.004	199642	0.087	28.100	11.39
Pentachloronitroben	* 1	6.750	6.743	0.007	687945	0.200	0.200	
	2	8.230	8.227	0.003	642455	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.350	4.347	0.003	179398	0.089	28.800	
	* 2	4.713	4.707	0.006	177804	0.088	28.600	0.70
Decachlorobiphenyl	* 1	21.867	21.867	0.000	184000	0.077	25.100	
	2	22.213	22.213	0.000	184801	0.091	29.400	17.13

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC09S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131009 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.753	6.743	0.010	709459	0.200	0.200	
	2	8.233	8.227	0.006	657519	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.353	4.347	0.006	183064	0.088	31.700	
	* 2	4.713	4.707	0.006	180133	0.087	31.400	0.96
Decachlorobiphenyl	1	21.867	21.867	0.000	221004	0.090	32.500	
	* 2	22.213	22.213	0.000	170745	0.082	29.500	10.17

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

00525WC10S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin *	1	13.027	13.007	0.020	2228823	1.306	451.000	
	2	15.380	15.350	0.030	3866036	1.997	690.000	52.99
Pentachloronitroben*	1	6.753	6.743	0.010	743843	0.200	0.200	
	2	8.233	8.227	0.006	695174	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.353	4.347	0.006	182627	0.084	29.000	
*	2	4.717	4.707	0.010	179941	0.082	28.500	1.75
Decachlorobiphenyl *	1	21.867	21.867	0.000	184340	0.072	24.800	
	2	22.213	22.213	0.000	175305	0.080	27.500	10.89

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC1
0S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010DL1 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
dieldrin *	1	13.023	13.007	0.016	147665	0.071	492.000	
	2	15.373	15.350	0.023	231220	0.101	696.000	41.46
Pentachloronitroben*	1	6.747	6.743	0.004	903040	0.200	0.200	
	2	8.227	8.227	0.000	823806	0.200	0.200	0.00
2,4,5,6-tetrachloro*	1	4.347	4.347	0.000	9690	0.004	25.300	
	2	4.707	4.707	0.000	10030	0.004	26.800	5.93

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0207BLKS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	796920	0.200	0.200	
	2	8.227	8.227	0.000	742483	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.343	4.347	0.004	157526	0.067	20.400	
	* 2	4.707	4.707	0.000	154881	0.066	20.200	0.99
Decachlorobiphenyl *	1	21.863	21.867	0.004	200371	0.073	22.100	
	2	22.210	22.213	0.003	178585	0.076	23.000	4.07

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

0207BLKSMS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKSMS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
alpha-BHC	* 1	5.573	5.573	0.000	90418	0.039	11.800	
	2	7.800	7.800	0.000	91800	0.040	12.000	1.69
beta-BHC	1	6.437	6.437	0.000	63135	0.044	13.200	
	* 2	11.913	11.917	0.004	65610	0.042	12.900	2.32
delta-BHC	* 1	7.350	7.350	0.000	53511	0.023	7.000	
	2	12.490	12.493	0.003	50706	0.024	7.300	4.28
gamma-BHC (Lindane)	1	6.583	6.583	0.000	97429	0.042	12.800	
	* 2	9.103	9.103	0.000	97360	0.042	12.700	0.79
heptachlor	1	8.723	8.727	0.004	92604	0.045	13.700	
	* 2	9.633	9.637	0.004	92083	0.042	12.800	7.03
aldrin	* 1	9.740	9.740	0.000	92171	0.041	12.500	
	2	10.397	10.400	0.003	89697	0.042	12.700	1.60
heptachlor epoxide	* 1	10.997	11.000	0.003	99475	0.043	13.000	
	2	12.783	12.787	0.004	94927	0.044	13.200	1.54
endosulfan I	1	12.123	12.123	0.000	90278	0.043	13.100	
	* 2	13.693	13.697	0.004	89831	0.043	12.900	1.55
dieldrin	1	13.007	13.007	0.000	81854	0.049	14.800	
	* 2	15.347	15.350	0.003	85814	0.045	13.700	8.03
4,4'-DDE	* 1	13.163	13.167	0.004	90324	0.043	13.000	
	2	15.053	15.057	0.004	82846	0.044	13.400	3.08
endrin	1	13.790	13.793	0.003	83930	0.049	14.700	
	* 2	16.093	16.097	0.004	100435	0.048	14.600	0.68
endosulfan II	1	14.217	14.220	0.003	90654	0.044	13.300	
	* 2	18.400	18.403	0.003	92776	0.044	13.200	0.76
4,4'-DDD	1	14.917	14.927	0.010	62701	0.054	16.400	
	* 2	18.557	18.560	0.003	74741	0.048	14.700	11.56

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0207BLKSMS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKSMS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
endosulfan sulfate	1	16.077	16.080	0.003	90502	0.038	11.400	
	* 2	20.207	20.207	0.000	65182	0.037	11.200	1.78
4,4'-DDT	* 1	16.460	16.467	0.007	80421	0.042	12.800	
	2	18.953	18.957	0.004	66083	0.044	13.400	4.69
methoxychlor	1	18.980	18.983	0.003	45456	0.058	17.400	
	* 2	20.367	20.370	0.003	34588	0.051	15.400	12.99
endrin aldehyde	1	15.117	15.123	0.006	66357	0.042	12.700	
	* 2	19.547	19.550	0.003	60675	0.040	12.200	4.10
alpha-chlordane	1	12.263	12.267	0.004	111111	0.042	12.900	
	* 2	14.413	14.417	0.004	107289	0.042	12.800	0.78
gamma-chlordane	* 1	11.760	11.760	0.000	106422	0.042	12.800	
	2	14.130	14.133	0.003	103038	0.042	12.800	0.00
endrin ketone	* 1	18.030	18.037	0.007	113456	0.046	14.000	
	2	20.760	20.763	0.003	99096	0.050	15.300	9.28
Pentachloronitroben	* 1	6.743	6.743	0.000	730587	0.200	0.200	
	2	8.223	8.227	0.004	679745	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.343	4.347	0.004	172464	0.080	24.400	
	* 2	4.703	4.707	0.004	169277	0.079	24.000	1.67
Decachlorobiphenyl	* 1	21.863	21.867	0.004	206676	0.082	24.800	
	2	22.210	22.213	0.003	179050	0.083	25.200	1.61

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0207BLKSSD

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKSMSD Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
alpha-BHC	* 1	5.577	5.573	0.004	86693	0.034	10.300	
	2	7.800	7.800	0.000	88248	0.035	10.500	1.94
beta-BHC	1	6.437	6.437	0.000	62621	0.039	11.900	
	* 2	11.913	11.917	0.004	64641	0.038	11.500	3.48
delta-BHC	* 1	7.350	7.350	0.000	53122	0.021	6.300	
	2	12.490	12.493	0.003	51104	0.022	6.700	6.35
gamma-BHC (Lindane)	1	6.583	6.583	0.000	94523	0.037	11.300	
	* 2	9.103	9.103	0.000	94660	0.037	11.200	0.89
heptachlor	1	8.723	8.727	0.004	88865	0.040	12.000	
	* 2	9.633	9.637	0.004	89137	0.037	11.300	6.19
aldrin	* 1	9.740	9.740	0.000	90927	0.037	11.200	
	2	10.397	10.400	0.003	86692	0.037	11.200	0.00
heptachlor epoxide	* 1	10.997	11.000	0.003	100330	0.039	11.900	
	2	12.783	12.787	0.004	95731	0.040	12.200	2.52
endosulfan I	1	12.123	12.123	0.000	90970	0.040	12.000	
	* 2	13.693	13.697	0.004	89694	0.039	11.700	2.56
dieldrin	1	13.007	13.007	0.000	83135	0.045	13.700	
	* 2	15.347	15.350	0.003	84931	0.041	12.400	10.48
4,4'-DDE	* 1	13.163	13.167	0.004	92582	0.040	12.100	
	2	15.053	15.057	0.004	82822	0.040	12.100	0.00
endrin	1	13.790	13.793	0.003	83978	0.044	13.400	
	* 2	16.093	16.097	0.004	98031	0.043	13.000	3.08
endosulfan II	1	14.217	14.220	0.003	89895	0.040	12.000	
	* 2	18.400	18.403	0.003	92059	0.039	11.900	0.84
4,4'-DDD	1	14.917	14.927	0.010	62356	0.049	14.800	
	* 2	18.557	18.560	0.003	72741	0.043	13.000	13.85

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

0207BLKSSD

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207BLKSMSD Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
endosulfan sulfate	1	16.077	16.080	0.003	90222	0.034	10.300	
	* 2	20.207	20.207	0.000	65162	0.034	10.200	0.98
4,4'-DDT	* 1	16.460	16.467	0.007	79937	0.038	11.600	
	2	18.953	18.957	0.004	65125	0.040	12.000	3.45
methoxychlor	1	18.980	18.983	0.003	45934	0.053	16.000	
	* 2	20.367	20.370	0.003	33801	0.045	13.700	16.79
endrin aldehyde	1	15.117	15.123	0.006	63586	0.036	11.100	
	* 2	19.547	19.550	0.003	57097	0.034	10.400	6.73
alpha-chlordane	1	12.263	12.267	0.004	112591	0.039	11.900	
	* 2	14.413	14.417	0.004	108371	0.039	11.700	1.71
gamma-chlordane	* 1	11.760	11.760	0.000	107772	0.039	11.800	
	2	14.130	14.133	0.003	103907	0.039	11.800	0.00
endrin ketone	* 1	18.030	18.037	0.007	113108	0.042	12.700	
	2	20.763	20.763	0.000	90580	0.042	12.700	0.00
Pentachloronitroben	* 1	6.743	6.743	0.000	803371	0.200	0.200	
	2	8.227	8.227	0.000	747203	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	157124	0.067	20.200	
	* 2	4.707	4.707	0.000	154592	0.066	20.000	0.10
Decachlorobiphenyl	* 1	21.863	21.867	0.004	197987	0.071	21.600	
	2	22.210	22.213	0.003	176051	0.074	22.500	4.17

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0207LCSS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207LCSS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
alpha-BHC	* 1	5.573	5.573	0.000	87487	0.036	11.100	
	2	7.800	7.800	0.000	89231	0.037	11.300	1.80
beta-BHC	1	6.437	6.437	0.000	63011	0.042	12.800	
	* 2	11.913	11.917	0.004	65993	0.041	12.600	1.59
delta-BHC	* 1	7.350	7.350	0.000	53350	0.022	6.800	
	2	12.490	12.493	0.003	51440	0.024	7.200	5.88
gamma-BHC (Lindane)	1	6.583	6.583	0.000	94804	0.040	12.100	
	* 2	9.103	9.103	0.000	94833	0.040	12.000	0.83
heptachlor	1	8.727	8.727	0.000	88657	0.042	12.800	
	* 2	9.633	9.637	0.004	88945	0.040	12.000	6.67
aldrin	* 1	9.740	9.740	0.000	88995	0.039	11.700	
	2	10.400	10.400	0.000	85546	0.039	11.800	0.85
heptachlor epoxide	* 1	11.000	11.000	0.000	99293	0.042	12.600	
	2	12.787	12.787	0.000	94826	0.042	12.800	1.59
endosulfan I	1	12.123	12.123	0.000	91409	0.042	12.900	
	* 2	13.693	13.697	0.004	90013	0.041	12.600	2.38
dieldrin	1	13.007	13.007	0.000	82298	0.048	14.400	
	* 2	15.347	15.350	0.003	86574	0.044	13.400	7.46
4,4'-DDE	* 1	13.163	13.167	0.004	92569	0.043	12.900	
	2	15.053	15.057	0.004	84281	0.043	13.200	2.32
endrin	* 1	13.790	13.793	0.003	83743	0.047	14.300	
	2	16.093	16.097	0.004	101950	0.047	14.400	0.70
endosulfan II	1	14.217	14.220	0.003	90490	0.042	12.900	
	* 2	18.400	18.403	0.003	92942	0.042	12.800	0.78
4,4'-DDD	1	14.917	14.927	0.010	63547	0.053	16.100	
	* 2	18.557	18.560	0.003	73015	0.046	13.900	15.83

* Column used for quantitation

SVPEST DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

0207LCSS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207LCSS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
endosulfan sulfate	1	16.077	16.080	0.003	92169	0.037	11.300	
	* 2	20.207	20.207	0.000	67129	0.037	11.200	0.89
4,4'-DDT	* 1	16.460	16.467	0.007	82116	0.042	12.700	
	2	18.957	18.957	0.000	67070	0.043	13.200	3.94
methoxychlor	1	18.980	18.983	0.003	44009	0.054	16.400	
	* 2	20.367	20.370	0.003	34129	0.049	14.800	10.81
endrin aldehyde	1	15.117	15.123	0.006	67441	0.041	12.500	
	* 2	19.547	19.550	0.003	60460	0.039	11.700	6.84
alpha-chlordane	* 1	12.267	12.267	0.000	111676	0.041	12.600	
	2	14.413	14.417	0.004	109350	0.042	12.600	0.00
gamma-chlordane	1	11.760	11.760	0.000	107962	0.042	12.600	
	* 2	14.130	14.133	0.003	103688	0.041	12.500	0.80
endrin ketone	1	18.033	18.037	0.004	113608	0.045	13.600	
	* 2	20.763	20.763	0.000	86078	0.042	12.900	5.43
Pentachloronitroben	* 1	6.743	6.743	0.000	752524	0.200	0.200	
	2	8.227	8.227	0.000	701588	0.200	0.200	0.00
2,4,5,6-tetrachloro	1	4.343	4.347	0.004	162438	0.074	22.300	
	* 2	4.707	4.707	0.000	159072	0.072	21.900	1.83
Decachlorobiphenyl	* 1	21.863	21.867	0.004	191271	0.074	22.300	
	2	22.210	22.213	0.003	179858	0.081	24.500	9.86

* Column used for quantitation

CLIENT SAMPLE NO.

SVPEST DUAL COLUMN CONFIRMATION CHECK

0207TOXLCS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 0207TOXLCS Date(s) Analyzed: 02/08/01 02/08/01

Instrument ID (1): SECD01 Instrument ID (2): SECD01

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
Pentachloronitroben*	1	6.743	6.743	0.000	717118	0.200	0.200	
	2	8.227	8.227	0.000	671051	0.200	0.200	0.00
Toxaphene-Total *	1	0.890	0.890	0.000	111073	0.544	165.000	
	2	0.890	0.890	0.000	153265	0.975	296.000	79.39
2,4,5,6-tetrachloro	1	4.347	4.347	0.000	153597	0.073	22.200	
*	2	4.707	4.707	0.000	150366	0.071	21.600	2.78
Decachlorobiphenyl *	1	21.863	21.867	0.004	199339	0.080	24.400	
	2	22.210	22.213	0.003	193934	0.091	27.600	13.11

* Column used for quantitation

PESTICIDE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 0207lcss

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	QC LIMITS REC.
Alpha-BHC	15	11	73	46 - 125
Beta-BHC	15	13	82.9	46 - 164
Delta-BHC	15	6.8	44.7 *	54 - 129
Gamma-BHC (Lindane)	15	12	78.9	43 - 135
Heptachlor	15	12	78.9	42 - 137
Aldrin	15	12	77	40 - 141
Heptachlor epoxide	15	13	82.9	42 - 148
Endosulfan I	15	13	82.9	43 - 147
Dieldrin	15	13	88.2	64 - 123
4,4'-DDE	15	13	84.9	54 - 120
Endrin	15	14	94.1	40 - 124
Endosulfan II	15	13	84.2	48 - 149
4,4'-DDD	15	14	91.4	27 - 161
Endosulfan sulfate	15	11	73.7	49 - 152
4,4'-DDT	15	13	83.6	62 - 117
Methoxychlor	15	15	97.4	40 - 161
Endrin aldehyde	15	12	77	49 - 155
Alpha-Chlordane	15	13	82.9	20 - 150
Gamma-Chlordane	15	13	82.2	20 - 150
Endrin Ketone	15	13	84.9	20 - 150

Spike Recovery: 1 out of 20 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PESTICIDE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 0207toxlcs

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	QC LIMITS REC.
Toxaphene	303	165	54.5	54 - 110

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PESTICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

0207blksms

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC #	QC LIMITS REC.
Alpha-BHC	15	0	12	77.6	46 - 125
Beta-BHC	15	0	13	84.9	46 - 164
Delta-BHC	15	0	7	46.1*	54 - 129
Gamma-BHC (Lindane)	15	0	13	83.6	43 - 135
Heptachlor	15	0	13	84.2	42 - 137
Aldrin	15	0	13	82.2	40 - 141
Heptachlor epoxide	15	0	13	85.5	42 - 148
Endosulfan I	15	0	13	84.9	43 - 147
Dieldrin	15	0	14	90.1	64 - 123
4,4'-DDE	15	0	13	85.5	54 - 120
Endrin	15	0	15	96.1	40 - 124
Endosulfan II	15	0	13	86.8	48 - 149
4,4'-DDD	15	0	15	96.7	27 - 161
Endosulfan sulfate	15	0	11	73.7	49 - 152
4,4'-DDT	15	0	13	84.2	62 - 117
Methoxychlor	15	0	15	101.3	40 - 161
Endrin aldehyde	15	0	12	80.3	49 - 155
Alpha-Chlordane	15	0	13	84.2	20 - 150
Gamma-Chlordane	15	0	13	84.2	20 - 150
Endrin Ketone	15	0	14	92.1	20 - 150

Spike Recovery: 1 out of 20 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PESTICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

0207blkssd

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Alpha-BHC	15	10	67.8	18.2	36	46 - 125
Beta-BHC	15	12	75.7	8	19	46 - 164
Delta-BHC	15	6.3	41.4*	10.5	64	54 - 129
Gamma-BHC (Lindane)	15	11	73.7	16.7	43	43 - 135
Heptachlor	15	11	74.3	16.7	40	42 - 137
Aldrin	15	11	73.7	16.7	41	40 - 141
Heptachlor epoxide	15	12	78.3	8	39	42 - 148
Endosulfan I	15	12	77	8	20	43 - 147
Dieldrin	15	12	81.6	15.4	29	64 - 123
4,4'-DDE	15	12	79.6	8	32	54 - 120
Endrin	15	13	85.5	14.3	53	40 - 124
Endosulfan II	15	12	78.3	8	46	48 - 149
4,4'-DDD	15	13	85.5	14.3	31	27 - 161
Endosulfan sulfate	15	10	67.1	9.5	45	49 - 152
4,4'-DDT	15	12	76.3	8	45	62 - 117
Methoxychlor	15	14	90.1	6.9	45	40 - 161
Endrin aldehyde	15	10	68.4	18.2	51	49 - 155
Alpha-Chlordane	15	12	77	8	40	20 - 150
Gamma-Chlordane	15	12	77.6	8	40	20 - 150
Endrin Ketone	15	13	83.6	7.4	40	20 - 150

RPD 0 out of 20 outside limits

Spike Recovery: 1 out of 20 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

Standards Data

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.005=CAL1 RRF0.01=CAL2
RRF0.02=CAL3 RRF0.04=CAL4 RRF0.06=CAL5

COMPOUND	RRF 0.005	RRF 0.01	RRF 0.02	RRF 0.04	RRF 0.06	$\overline{RRF}$	% RSD
alpha-BHC	0.571	0.528	0.523	0.591	0.672		
beta-BHC	0.489	0.424	0.386	0.378	0.381		
delta-BHC	0.834	0.593	0.536	0.558	0.613		
gamma-BHC (Lindane)	0.610	0.560	0.551	0.601	0.657		
heptachlor	0.732	0.630	0.563	0.530	0.520		
aldrin	0.678	0.602	0.554	0.567	0.606		
heptachlor epoxide	0.823	0.690	0.597	0.583	0.612		
endosulfan I	0.669	0.595	0.546	0.538	0.551		
dieldrin	0.572	0.494	0.441	0.427	0.442		
4,4'-DDE	0.651	0.568	0.527	0.527	0.574		
endrin	0.572	0.502	0.453	0.430	0.516		
endosulfan II	0.682	0.602	0.544	0.523	0.579		
4,4'-DDD	0.387	0.346	0.310	0.296	0.313		
endosulfan sulfate	0.938	0.752	0.638	0.618	0.599		
4,4'-DDT	0.713	0.592	0.518	0.503	0.480		
methoxychlor		0.279	0.241	0.219	0.214		
endrin aldehyde	0.607	0.516	0.421	0.402	0.387		
alpha-chlordane	0.856	0.752	0.688	0.678	0.686		
gamma-chlordane	0.823	0.724	0.661	0.646	0.655		
endrin ketone	0.841	0.734	0.658	0.625	0.698		
2,4,5,6-tetrachloro-m-xylene	0.591	0.566	0.565	0.577	0.617		
Decachlorobiphenyl	0.730	0.879	0.740	0.707	0.635		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.08=CAL6 RRF0.1=CAL7
RRF0.15=CAL8

COMPOUND	RRF 0.08	RRF0.1	RRF 0.15			$\overline{RRF}$	% RSD
alpha-BHC	0.703	0.742	0.761			0.6364	15.0
beta-BHC	0.377	0.377	0.365			0.3971	10.3
delta-BHC	0.619	0.652	0.670			0.6344	14.5
gamma-BHC (Lindane)	0.675	0.703	0.706			0.6329	9.6
heptachlor	0.511	0.505	0.485			0.5595	14.8
aldrin	0.616	0.635	0.638			0.6120	6.5
heptachlor epoxide	0.591	0.597	0.587			0.6350	13.1
endosulfan I	0.557	0.563	0.559			0.5722	7.4
dieldrin	0.430	0.436	0.429			0.4589	11.0
4,4'-DDE	0.570	0.594	0.600			0.5764	7.0
endrin	0.440	0.442	0.426			0.4726	11.1
endosulfan II	0.530	0.540	0.528			0.5660	9.6
4,4'-DDD	0.294	0.299	0.297			0.3178	10.3
endosulfan sulfate	0.578	0.578	0.569			0.6588	19.3
4,4'-DDT	0.454	0.450	0.446			0.5195	17.7
methoxychlor	0.198	0.190	0.173			0.2163	16.4
endrin aldehyde	0.375	0.386	0.369			0.4329	19.5
alpha-chlordane	0.688	0.694	0.685			0.7159	8.6
gamma-chlordane	0.661	0.666	0.663			0.6874	8.7
endrin ketone	0.614	0.612	0.588			0.6712	12.5
2,4,5,6-tetrachloro-m-xylene	0.592	0.598	0.580			0.5858	3.0
Decachlorobiphenyl	0.626	0.630	0.574			0.6901	13.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.005=CAL1 RRF0.01=CAL2
RRF0.02=CAL3 RRF0.04=CAL4 RRF0.06=CAL5

COMPOUND	RRF 0.005	RRF 0.01	RRF 0.02	RRF 0.04	RRF 0.06	$\overline{RRF}$	% RSD
alpha-BHC	0.628	0.579	0.575	0.643	0.716		
beta-BHC	0.568	0.495	0.449	0.435	0.428		
delta-BHC	0.633	0.555	0.531	0.575	0.658		
gamma-BHC (Lindane)	0.710	0.620	0.609	0.650	0.700		
heptachlor	0.832	0.717	0.646	0.604	0.600		
aldrin	0.710	0.621	0.580	0.585	0.616		
heptachlor epoxide	0.748	0.672	0.618	0.603	0.626		
endosulfan I	0.722	0.643	0.584	0.569	0.692		
dieldrin	0.669	0.578	0.557	0.526	0.523		
4,4'-DDE	0.604	0.542	0.518	0.515	0.541		
endrin	0.698	0.696	0.677	0.580	0.578		
endosulfan II	0.761	0.675	0.613	0.595	0.601		
4,4'-DDD	0.537	0.492	0.449	0.434	0.448		
endosulfan sulfate	0.655	0.540	0.494	0.485	0.492		
4,4'-DDT	0.499	0.454	0.439	0.423	0.439		
methoxychlor		0.249	0.218	0.199	0.195		
endrin aldehyde		0.565	0.457	0.445	0.417		
gamma-chlordane	0.868	0.765	0.700	0.668	0.725		
alpha-chlordane	0.898	0.795	0.736	0.701	0.778		
endrin ketone	0.639	0.585	0.591	0.572	0.564		
2,4,5,6-tetrachloro-m-xylene	0.672	0.628	0.622	0.616	0.631		
Decachlorobiphenyl	0.669	0.647	0.709	0.638	0.629		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date(s): 02/05/01 02/05/01

Calibration Time(s): 1055 1423

LAB FILE ID: RRF0.08=CAL6 RRF0.1=CAL7
RRF0.15=CAL8

COMPOUND	RRF 0.08	RRF0.1	RRF 0.15			$\overline{RRF}$	% RSD
alpha-BHC	0.742	0.772	0.785			0.6800	12.4
beta-BHC	0.427	0.423	0.406			0.4539	11.7
delta-BHC	0.648	0.672	0.689			0.6201	9.5
gamma-BHC (Lindane)	0.719	0.735	0.732			0.6844	7.4
heptachlor	0.590	0.579	0.549			0.6396	14.5
aldrin	0.628	0.642	0.643			0.6281	6.5
heptachlor epoxide	0.613	0.619	0.609			0.6385	7.7
endosulfan I	0.581	0.583	0.582			0.6195	9.5
dieldrin	0.539	0.530	0.534			0.5570	8.8
4,4'-DDE	0.552	0.564	0.587			0.5529	5.7
endrin	0.578	0.555	0.534			0.6120	10.9
endosulfan II	0.593	0.595	0.583			0.6270	9.8
4,4'-DDD	0.429	0.428	0.412			0.4536	9.1
endosulfan sulfate	0.487	0.493	0.486			0.5165	11.4
4,4'-DDT	0.423	0.424	0.416			0.4396	6.1
methoxychlor	0.184	0.180	0.171			0.1994	13.3
endrin aldehyde	0.418	0.415	0.397			0.4448	12.7
gamma-chlordane	0.670	0.670	0.668			0.7168	9.8
alpha-chlordane	0.699	0.697	0.689			0.7491	9.6
endrin ketone	0.561	0.561	0.549			0.5778	4.9
2,4,5,6-tetrachloro-m-xylene	0.621	0.624	0.606			0.6275	3.2
Decachlorobiphenyl	0.604	0.589	0.587			0.6340	6.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	5.573	5.573	5.573	5.577	5.577
beta-BHC	6.437	6.437	6.437	6.437	6.437
delta-BHC	7.350	7.350	7.350	7.350	7.350
gamma-BHC (Lindane)	6.583	6.583	6.583	6.583	6.583
heptachlor	8.727	8.727	8.727	8.727	8.727
aldrin	9.740	9.740	9.740	9.740	9.743
heptachlor epoxide	11.000	11.000	11.000	11.000	11.000
endosulfan I	12.123	12.127	12.123	12.127	12.127
dieldrin	13.007	13.010	13.007	13.007	13.010
4,4'-DDE	13.167	13.167	13.167	13.167	13.167
endrin	13.793	13.793	13.793	13.793	13.793
endosulfan II	14.220	14.220	14.220	14.220	14.220
4,4'-DDD	14.927	14.927	14.927	14.927	14.923
endosulfan sulfate	16.080	16.080	16.080	16.080	16.080
4,4'-DDT	16.467	16.463	16.463	16.463	16.463
methoxychlor	18.983	18.983	18.983	18.983	18.980
endrin aldehyde	15.123	15.123	15.123	15.123	15.123
alpha-chlordane	12.267	12.267	12.267	12.267	12.267
gamma-chlordane	11.760	11.760	11.760	11.760	11.760
endrin ketone	18.037	18.033	18.033	18.033	18.033
2,4,5,6-tetrachloro-m-xylene	4.347	4.347	4.347	4.347	4.347
Decachlorobiphenyl	21.867	21.867	21.867	21.867	21.863

COMMENTS:

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT6: CAL6 RT7: CAL7 RT8: CAL8

COMPOUND	RT6	RT7	RT8	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	5.577	5.577	5.580	5.576	5.523	5.623
beta-BHC	6.440	6.440	6.440	6.438	6.387	6.487
delta-BHC	7.353	7.350	7.353	7.351	7.300	7.400
gamma-BHC (Lindane)	6.587	6.587	6.587	6.585	6.533	6.633
heptachlor	8.727	8.727	8.730	8.727	8.677	8.777
aldrin	9.743	9.743	9.743	9.742	9.690	9.790
heptachlor epoxide	11.003	11.000	11.003	11.001	10.950	11.050
endosulfan I	12.127	12.127	12.127	12.126	12.073	12.173
dieldrin	13.010	13.010	13.010	13.009	12.957	13.057
4,4'-DDE	13.170	13.170	13.170	13.168	13.117	13.217
endrin	13.797	13.797	13.797	13.794	13.743	13.843
endosulfan II	14.220	14.223	14.223	14.221	14.170	14.270
4,4'-DDD	14.927	14.927	14.927	14.926	14.877	14.977
endosulfan sulfate	16.080	16.083	16.083	16.081	16.030	16.130
4,4'-DDT	16.467	16.467	16.467	16.465	16.417	16.517
methoxychlor	18.983	18.983	18.983	18.983	18.933	19.033
endrin aldehyde	15.123	15.123	15.123	15.123	15.073	15.173
alpha-chlordane	12.267	12.267	12.270	12.267	12.217	12.317
gamma-chlordane	11.763	11.763	11.763	11.761	11.710	11.810
endrin ketone	18.037	18.037	18.037	18.035	17.987	18.087
2,4,5,6-tetrachloro-m-xylene	4.350	4.347	4.350	4.348	4.297	4.397
Decachlorobiphenyl	21.867	21.867	21.867	21.866	21.817	21.917

COMMENTS:

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	7.800	7.803	7.803	7.803	7.803
beta-BHC	11.917	11.920	11.917	11.917	11.917
delta-BHC	12.493	12.493	12.493	12.493	12.493
gamma-BHC (Lindane)	9.103	9.103	9.103	9.107	9.107
heptachlor	9.637	9.637	9.637	9.637	9.637
aldrin	10.400	10.400	10.400	10.400	10.400
heptachlor epoxide	12.787	12.787	12.787	12.787	12.787
endosulfan I	13.697	13.697	13.697	13.697	13.697
dieldrin	15.350	15.350	15.350	15.350	15.350
4,4'-DDE	15.057	15.060	15.057	15.057	15.057
endrin	16.097	16.097	16.097	16.097	16.097
endosulfan II	18.403	18.403	18.403	18.403	18.403
4,4'-DDD	18.560	18.560	18.560	18.560	18.560
endosulfan sulfate	20.207	20.207	20.207	20.210	20.207
4,4'-DDT	18.957	18.957	18.957	18.957	18.957
methoxychlor	20.370	20.370	20.370	20.370	20.370
endrin aldehyde	19.550	19.550	19.550	19.550	19.550
gamma-chlordane	14.133	14.133	14.133	14.133	14.133
alpha-chlordane	14.417	14.420	14.417	14.420	14.420
endrin ketone	20.763	20.763	20.763	20.763	20.763
2,4,5,6-tetrachloro-m-xylene	4.707	4.707	4.707	4.707	4.707
Decachlorobiphenyl	22.213	22.213	22.210	22.213	22.213

COMMENTS: _____

FORM 6
SVPEST INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/05/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1423

LAB FILE ID: RT6: CAL6 RT7: CAL7 RT8: CAL8

COMPOUND	RT6	RT7	RT8	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	7.807	7.803	7.807	7.804	7.750	7.850
beta-BHC	11.920	11.920	11.920	11.919	11.867	11.967
delta-BHC	12.497	12.493	12.497	12.494	12.443	12.543
gamma-BHC (Lindane)	9.107	9.107	9.107	9.105	9.053	9.153
heptachlor	9.637	9.637	9.640	9.637	9.587	9.687
aldrin	10.403	10.400	10.403	10.401	10.350	10.450
heptachlor epoxide	12.790	12.790	12.790	12.788	12.737	12.837
endosulfan I	13.700	13.700	13.700	13.698	13.647	13.747
dieldrin	15.353	15.353	15.353	15.351	15.300	15.400
4,4'-DDE	15.060	15.060	15.060	15.059	15.007	15.107
endrin	16.100	16.100	16.100	16.098	16.047	16.147
endosulfan II	18.403	18.407	18.403	18.403	18.353	18.453
4,4'-DDD	18.563	18.563	18.563	18.561	18.510	18.610
endosulfan sulfate	20.207	20.210	20.210	20.208	20.157	20.257
4,4'-DDT	18.957	18.957	18.957	18.957	18.907	19.007
methoxychlor	20.370	20.370	20.370	20.370	20.320	20.420
endrin aldehyde	19.550	19.550	19.550	19.550	19.500	19.600
gamma-chlordane	14.137	14.137	14.137	14.134	14.083	14.183
alpha-chlordane	14.420	14.420	14.420	14.419	14.367	14.467
endrin ketone	20.763	20.763	20.763	20.763	20.713	20.813
2,4,5,6-tetrachloro-m-xylene	4.710	4.707	4.710	4.707	4.657	4.757
Decachlorobiphenyl	22.213	22.213	22.213	22.213	22.163	22.263

COMMENTS: _____

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/08/01 Time: 1955

Lab File ID: PCCV11 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.68937	N/A	8.3	15.0	
beta-BHC	0.39722	0.39069	N/A	1.6	15.0	
delta-BHC	0.63446	0.63304	N/A	0.2	15.0	
gamma-BHC (Lindane)	0.63298	0.68279	N/A	7.9	15.0	
heptachlor	0.55959	0.60546	N/A	8.2	15.0	
aldrin	0.61206	0.59950	N/A	2.0	15.0	
heptachlor epoxide	0.63495	0.62930	N/A	0.9	15.0	
endosulfan I	0.57243	0.56118	N/A	2.0	15.0	
dieldrin	0.45898	0.51227	N/A	11.6	15.0	
4,4'-DDE	0.57632	0.55993	N/A	2.8	15.0	
endrin	0.47275	0.53745	N/A	13.7	15.0	
endosulfan II	0.56618	0.54490	N/A	3.8	15.0	
4,4'-DDD	0.31782	0.40192	N/A	26.5	15.0	<- ok
endosulfan sulfate	0.65866	0.59658	N/A	9.4	15.0	
4,4'-DDT	0.51965	0.47756	N/A	8.1	15.0	
methoxychlor	0.21636	0.22786	N/A	5.3	15.0	
endrin aldehyde	0.43319	0.37305	N/A	13.9	15.0	
alpha-chlordane	0.71607	0.67283	N/A	6.0	15.0	
gamma-chlordane	0.68732	0.65425	N/A	4.8	15.0	
endrin ketone	0.67139	0.67713	N/A	0.8	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.58601	N/A	0.0	15.0	
Decachlorobiphenyl	0.69024	0.67326	N/A	2.5	15.0	

Average Used: 6.38365

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/08/01 Time: 1955

Lab File ID: PCCV11 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.73733	N/A	8.4	15.0	
beta-BHC	0.45397	0.43188	N/A	4.9	15.0	
delta-BHC	0.62024	0.65387	N/A	5.4	15.0	
gamma-BHC (Lindane)	0.68417	0.72136	N/A	5.4	15.0	
heptachlor	0.63981	0.63384	N/A	0.9	15.0	
aldrin	0.62811	0.62206	N/A	1.0	15.0	
heptachlor epoxide	0.63832	0.63410	N/A	0.7	15.0	
endosulfan I	0.61936	0.62063	N/A	0.2	15.0	
dieldrin	0.55705	0.55152	N/A	1.0	15.0	
4,4'-DDE	0.55309	0.53566	N/A	3.2	15.0	
endrin	0.61212	0.61716	N/A	0.8	15.0	
endosulfan II	0.62716	0.56914	N/A	9.2	15.0	
4,4'-DDD	0.45385	0.47920	N/A	5.6	15.0	
endosulfan sulfate	0.51646	0.45236	N/A	12.4	15.0	
4,4'-DDT	0.43967	0.40808	N/A	7.2	15.0	
methoxychlor	0.19955	0.21313	N/A	6.8	15.0	
endrin aldehyde	0.44470	0.33788	N/A	24.0	15.0	<- fail
gamma-chlordane	0.71679	0.67930	N/A	5.2	15.0	
alpha-chlordane	0.74920	0.70139	N/A	6.4	15.0	
endrin ketone	0.57775	0.56740	N/A	1.8	15.0	
2,4,5,6-tetrachloro-m-xylene	0.62733	0.62782	N/A	0.1	15.0	
Decachlorobiphenyl	0.63402	0.59327	N/A	6.4	15.0	

Average Used: 5.32070

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/08/01 Time: 2024

Lab File ID: TCCV11 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.06149	0.05872	N/A	4.5	15.0
Toxaphene-2	0.02960	0.02800	N/A	5.4	15.0
Toxaphene-3	0.09888	0.09361	N/A	5.3	15.0
Toxaphene-4	0.01468	0.01543	N/A	5.1	15.0
Toxaphene-5	0.00733	0.00813	N/A	10.9	15.0
Toxaphene-Total	0.04240	0.04078	N/A	3.8	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/08/01 Time: 2024

Lab File ID: TCCV11 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.04867	0.04344	N/A	10.7	15.0
Toxaphene-2	0.04022	0.03656	N/A	9.1	15.0
Toxaphene-3	0.04468	0.03930	N/A	12.0	15.0
Toxaphene-4	0.04516	0.04414	N/A	2.2	15.0
Toxaphene-5	0.05453	0.04642	N/A	14.9	15.0
Toxaphene-Total	0.04665	0.04197	N/A	10.0	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 0320

Lab File ID: PCCV12 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.68892	N/A	8.2	15.0	
beta-BHC	0.39722	0.39192	N/A	1.3	15.0	
delta-BHC	0.63446	0.63234	N/A	0.3	15.0	
gamma-BHC (Lindane)	0.63298	0.67743	N/A	7.0	15.0	
heptachlor	0.55959	0.57040	N/A	1.9	15.0	
aldrin	0.61206	0.61814	N/A	1.0	15.0	
heptachlor epoxide	0.63495	0.71249	N/A	12.2	15.0	
endosulfan I	0.57243	0.56755	N/A	0.8	15.0	
dieldrin	0.45898	0.48669	N/A	6.0	15.0	
4,4'-DDE	0.57632	0.56570	N/A	1.8	15.0	
endrin	0.47275	0.53511	N/A	13.2	15.0	
endosulfan II	0.56618	0.53568	N/A	5.4	15.0	
4,4'-DDD	0.31782	0.39449	N/A	24.1	15.0	<-WC
endosulfan sulfate	0.65866	0.59188	N/A	10.1	15.0	
4,4'-DDT	0.51965	0.46116	N/A	11.2	15.0	
methoxychlor	0.21636	0.24790	N/A	14.6	15.0	
endrin aldehyde	0.43319	0.37181	N/A	14.2	15.0	
alpha-chlordane	0.71607	0.68479	N/A	4.4	15.0	
gamma-chlordane	0.68732	0.65592	N/A	4.6	15.0	
endrin ketone	0.67139	0.70839	N/A	5.5	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.61691	N/A	5.3	15.0	
Decachlorobiphenyl	0.69024	0.57633	N/A	16.5	15.0	<-WC

Average Used: 7.72312

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 0320

Lab File ID: PCCV12 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.73952	N/A	8.8	15.0	
beta-BHC	0.45397	0.44966	N/A	0.9	15.0	
delta-BHC	0.62024	0.75600	N/A	21.9	15.0	<- wk
gamma-BHC (Lindane)	0.68417	0.71553	N/A	4.6	15.0	
heptachlor	0.63981	0.62267	N/A	2.7	15.0	
aldrin	0.62811	0.62504	N/A	0.5	15.0	
heptachlor epoxide	0.63832	0.66376	N/A	4.0	15.0	
endosulfan I	0.61936	0.66818	N/A	7.9	15.0	
dieldrin	0.55705	0.56667	N/A	1.7	15.0	
4,4'-DDE	0.55309	0.55172	N/A	0.2	15.0	
endrin	0.61212	0.61736	N/A	0.8	15.0	
endosulfan II	0.62716	0.59057	N/A	5.8	15.0	
4,4'-DDD	0.45385	0.52550	N/A	15.8	15.0	<- wk
endosulfan sulfate	0.51646	0.47016	N/A	9.0	15.0	
4,4'-DDT	0.43967	0.39010	N/A	11.3	15.0	
methoxychlor	0.19955	0.21528	N/A	7.9	15.0	
endrin aldehyde	0.44470	0.34204	N/A	23.1	15.0	<- wk
gamma-chlordane	0.71679	0.66426	N/A	7.3	15.0	
alpha-chlordane	0.74920	0.70450	N/A	6.0	15.0	
endrin ketone	0.57775	0.53386	N/A	7.6	15.0	
2,4,5,6-tetrachloro-m-xylene	0.62733	0.63376	N/A	1.0	15.0	
Decachlorobiphenyl	0.63402	0.62836	N/A	0.9	15.0	

Average Used: 6.80371

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 0350

Lab File ID: TCCV12 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.06149	0.06174	N/A	0.4	15.0	
Toxaphene-2	0.02960	0.02754	N/A	7.0	15.0	
Toxaphene-3	0.09888	0.09022	N/A	8.8	15.0	
Toxaphene-4	0.01468	0.01293	N/A	11.9	15.0	
Toxaphene-5	0.00733	0.00896	N/A	22.2	15.0	<4uc
Toxaphene-Total	0.04240	0.04028	N/A	5.0	15.0	

Average Used: 9.21375

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 0350

Lab File ID: TCCV12 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.04867	0.04640	N/A	4.7	15.0	
Toxaphene-2	0.04022	0.04053	N/A	0.8	15.0	
Toxaphene-3	0.04468	0.04118	N/A	7.8	15.0	
Toxaphene-4	0.04516	0.03709	N/A	17.9	15.0	<-
Toxaphene-5	0.05453	0.04419	N/A	19.0	15.0	<-
Toxaphene-Total	0.04665	0.04188	N/A	10.2	15.0	

Average Used: 10.0542

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1105

Lab File ID: PCCV13 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.69760	N/A	9.6	15.0	
beta-BHC	0.39722	0.38926	N/A	2.0	15.0	
delta-BHC	0.63446	0.62787	N/A	1.0	15.0	
gamma-BHC (Lindane)	0.63298	0.67314	N/A	6.3	15.0	
heptachlor	0.55959	0.53737	N/A	4.0	15.0	
aldrin	0.61206	0.61234	N/A	0.0	15.0	
heptachlor epoxide	0.63495	0.72801	N/A	14.6	15.0	
endosulfan I	0.57243	0.54534	N/A	4.7	15.0	
dieldrin	0.45898	0.48444	N/A	5.5	15.0	
4,4'-DDE	0.57632	0.56623	N/A	1.8	15.0	
endrin	0.47275	0.51128	N/A	8.2	15.0	
endosulfan II	0.56618	0.52531	N/A	7.2	15.0	
4,4'-DDD	0.31782	0.39294	N/A	23.6	15.0	<- Ok
endosulfan sulfate	0.65866	0.57309	N/A	13.0	15.0	
4,4'-DDT	0.51965	0.44524	N/A	14.3	15.0	
methoxychlor	0.21636	0.23607	N/A	9.1	15.0	
endrin aldehyde	0.43319	0.35438	N/A	18.2	15.0	<- Ok
alpha-chlordane	0.71607	0.65839	N/A	8.0	15.0	
gamma-chlordane	0.68732	0.62834	N/A	8.6	15.0	
endrin ketone	0.67139	0.68698	N/A	2.3	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.60137	N/A	2.6	15.0	
Decachlorobiphenyl	0.69024	0.55205	N/A	20.0	15.0	<- Ok

Average Used: 8.40697

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/09/01 Time: 1105

Lab File ID: PCCV13 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.74252	N/A	9.2	15.0	
beta-BHC	0.45397	0.42278	N/A	6.9	15.0	
delta-BHC	0.62024	0.76080	N/A	22.7	15.0	<- LVL
gamma-BHC (Lindane)	0.68417	0.71055	N/A	3.8	15.0	
heptachlor	0.63981	0.58164	N/A	9.1	15.0	
aldrin	0.62811	0.61644	N/A	1.8	15.0	
heptachlor epoxide	0.63832	0.65518	N/A	2.6	15.0	
endosulfan I	0.61936	0.69820	N/A	12.7	15.0	
dieldrin	0.55705	0.52598	N/A	5.6	15.0	
4,4'-DDE	0.55309	0.53440	N/A	3.4	15.0	
endrin	0.61212	0.58571	N/A	4.3	15.0	
endosulfan II	0.62716	0.51037	N/A	18.6	15.0	<- LVL
4,4'-DDD	0.45385	0.45326	N/A	0.1	15.0	
endosulfan sulfate	0.51646	0.44780	N/A	13.3	15.0	
4,4'-DDT	0.43967	0.35053	N/A	20.3	15.0	<- LVL
methoxychlor	0.19955	0.20643	N/A	3.4	15.0	
endrin aldehyde	0.44470	0.33500	N/A	24.7	15.0	<- LVL
gamma-chlordane	0.71679	0.67513	N/A	5.8	15.0	
alpha-chlordane	0.74920	0.73360	N/A	2.1	15.0	
endrin ketone	0.57775	0.54381	N/A	5.9	15.0	
2,4,5,6-tetrachloro-m-xylene	0.62733	0.65417	N/A	4.3	15.0	
Decachlorobiphenyl	0.63402	0.59838	N/A	5.6	15.0	

Average Used: 8.46739

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2050

Lab File ID: PCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.68426	N/A	7.5	15.0	
beta-BHC	0.39722	0.36553	N/A	8.0	15.0	
delta-BHC	0.63446	0.58060	N/A	8.5	15.0	
gamma-BHC (Lindane)	0.63298	0.60884	N/A	3.8	15.0	
heptachlor	0.55959	0.42164	N/A	24.6	15.0	<-
aldrin	0.61206	0.60204	N/A	1.6	15.0	
heptachlor epoxide	0.63495	0.67588	N/A	6.4	15.0	
endosulfan I	0.57243	0.51126	N/A	10.7	15.0	
dieldrin	0.45898	0.33245	N/A	27.6	15.0	<-
4,4'-DDE	0.57632	0.53067	N/A	7.9	15.0	
endrin	0.47275	0.55813	N/A	18.1	15.0	<-
endosulfan II	0.56618	0.57314	N/A	1.2	15.0	
4,4'-DDD	0.31782	0.28738	N/A	9.6	15.0	
endosulfan sulfate	0.65866	0.54412	N/A	17.4	15.0	<-
4,4'-DDT	0.51965	0.40399	N/A	22.2	15.0	<-
methoxychlor	0.21636	0.18696	N/A	13.6	15.0	
endrin aldehyde	0.43319	0.29797	N/A	31.2	15.0	<-
alpha-chlordane	0.71607	0.66529	N/A	7.1	15.0	
gamma-chlordane	0.68732	0.62308	N/A	9.3	15.0	
endrin ketone	0.67139	0.59868	N/A	10.8	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.62810	N/A	7.2	15.0	
Decachlorobiphenyl	0.69024	0.55845	N/A	19.1	15.0	<-

Average Used: 12.4365

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2050

Lab File ID: PCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.72494	N/A	6.6	15.0	
beta-BHC	0.45397	0.40161	N/A	11.5	15.0	
delta-BHC	0.62024	0.74929	N/A	20.8	15.0	<-
gamma-BHC (Lindane)	0.68417	0.66154	N/A	3.3	15.0	
heptachlor	0.63981	0.49496	N/A	22.6	15.0	<-
aldrin	0.62811	0.59439	N/A	5.4	15.0	
heptachlor epoxide	0.63832	0.55567	N/A	12.9	15.0	
endosulfan I	0.61936	0.74441	N/A	20.2	15.0	<-
dieldrin	0.55705	0.41802	N/A	25.0	15.0	<-
4,4'-DDE	0.55309	0.52421	N/A	5.2	15.0	
endrin	0.61212	0.49804	N/A	18.6	15.0	<-
endosulfan II	0.62716	0.54959	N/A	12.4	15.0	
4,4'-DDD	0.45385	0.40881	N/A	9.9	15.0	
endosulfan sulfate	0.51646	0.44932	N/A	13.0	15.0	
4,4'-DDT	0.43967	0.34817	N/A	20.8	15.0	<-
methoxychlor	0.19955	0.14440	N/A	27.6	15.0	<-
endrin aldehyde	0.44470	0.31701	N/A	28.7	15.0	<-
gamma-chlordane	0.71679	0.71469	N/A	0.3	15.0	
alpha-chlordane	0.74920	0.75650	N/A	1.0	15.0	
endrin ketone	0.57775	0.45038	N/A	22.0	15.0	<-
2,4,5,6-tetrachloro-m-xylene	0.62733	0.66829	N/A	6.5	15.0	
Decachlorobiphenyl	0.63402	0.60645	N/A	4.3	15.0	

Average Used: 13.5849

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2119

Lab File ID: TCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.06149	0.05434	N/A	11.6	15.0
Toxaphene-2	0.02960	0.02774	N/A	6.3	15.0
Toxaphene-3	0.09888	0.08768	N/A	11.3	15.0
Toxaphene-4	0.01468	0.01255	N/A	14.5	15.0
Toxaphene-5	0.00733	0.00711	N/A	3.0	15.0
Toxaphene-Total	0.04240	0.03789	N/A	10.6	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/10/01 Time: 2119

Lab File ID: TCCV16 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.04867	0.04611	N/A	5.2	15.0	
Toxaphene-2	0.04022	0.04108	N/A	2.1	15.0	
Toxaphene-3	0.04468	0.04037	N/A	9.6	15.0	
Toxaphene-4	0.04516	0.03764	N/A	16.6	15.0	<- ur
Toxaphene-5	0.05453	0.03916	N/A	28.2	15.0	<- ur
Toxaphene-Total	0.04665	0.04087	N/A	12.4	15.0	

Average Used: 12.3788

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0414

Lab File ID: PCCV17 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.69187	N/A	8.7	15.0	
beta-BHC	0.39722	0.38790	N/A	2.3	15.0	
delta-BHC	0.63446	0.62041	N/A	2.2	15.0	
gamma-BHC (Lindane)	0.63298	0.67348	N/A	6.4	15.0	
heptachlor	0.55959	0.53365	N/A	4.6	15.0	
aldrin	0.61206	0.60466	N/A	1.2	15.0	
heptachlor epoxide	0.63495	0.59883	N/A	5.7	15.0	
endosulfan I	0.57243	0.55819	N/A	2.5	15.0	
dieldrin	0.45898	0.45452	N/A	1.0	15.0	
4,4'-DDE	0.57632	0.56809	N/A	1.4	15.0	
endrin	0.47275	0.46704	N/A	1.2	15.0	
endosulfan II	0.56618	0.53372	N/A	5.7	15.0	
4,4'-DDD	0.31782	0.35409	N/A	11.4	15.0	
endosulfan sulfate	0.65866	0.57538	N/A	12.6	15.0	
4,4'-DDT	0.51965	0.43424	N/A	16.4	15.0	<- WL
methoxychlor	0.21636	0.20555	N/A	5.0	15.0	
endrin aldehyde	0.43319	0.37612	N/A	13.2	15.0	
alpha-chlordane	0.71607	0.68538	N/A	4.3	15.0	
gamma-chlordane	0.68732	0.66012	N/A	4.0	15.0	
endrin ketone	0.67139	0.63732	N/A	5.1	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.59524	N/A	1.6	15.0	
Decachlorobiphenyl	0.69024	0.99459	N/A	44.1	15.0	<- WL

Average Used: 7.30517

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0414

Lab File ID: PCCV17 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
alpha-BHC	0.67998	0.73925	N/A	8.7	15.0
beta-BHC	0.45397	0.43553	N/A	4.1	15.0
delta-BHC	0.62024	0.63929	N/A	3.1	15.0
gamma-BHC (Lindane)	0.68417	0.71469	N/A	4.5	15.0
heptachlor	0.63981	0.58656	N/A	8.3	15.0
aldrin	0.62811	0.62620	N/A	0.3	15.0
heptachlor epoxide	0.63832	0.61738	N/A	3.3	15.0
endosulfan I	0.61936	0.58809	N/A	5.0	15.0
dieldrin	0.55705	0.53427	N/A	4.1	15.0
4,4'-DDE	0.55309	0.55575	N/A	0.5	15.0
endrin	0.61212	0.59499	N/A	2.8	15.0
endosulfan II	0.62716	0.59779	N/A	4.7	15.0
4,4'-DDD	0.45385	0.46096	N/A	1.6	15.0
endosulfan sulfate	0.51646	0.48110	N/A	6.8	15.0
4,4'-DDT	0.43967	0.39884	N/A	9.3	15.0
methoxychlor	0.19955	0.19633	N/A	1.6	15.0
endrin aldehyde	0.44470	0.38017	N/A	14.5	15.0
gamma-chlordane	0.71679	0.68454	N/A	4.5	15.0
alpha-chlordane	0.74920	0.71019	N/A	5.2	15.0
endrin ketone	0.57775	0.62643	N/A	8.4	15.0
2,4,5,6-tetrachloro-m-xylene	0.62733	0.63979	N/A	2.0	15.0
Decachlorobiphenyl	0.63402	0.67460	N/A	6.4	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0443

Lab File ID: TCCV17 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D
Toxaphene-1	0.06149	0.06236	N/A	1.4	15.0
Toxaphene-2	0.02960	0.02994	N/A	1.1	15.0
Toxaphene-3	0.09888	0.09543	N/A	3.5	15.0
Toxaphene-4	0.01468	0.01281	N/A	12.7	15.0
Toxaphene-5	0.00733	0.00704	N/A	4.0	15.0
Toxaphene-Total	0.04240	0.04152	N/A	2.1	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0443

Lab File ID: TCCV17 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1523

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
Toxaphene-1	0.04867	0.04540	N/A	6.7	15.0	
Toxaphene-2	0.04022	0.03533	N/A	12.2	15.0	
Toxaphene-3	0.04468	0.03887	N/A	13.0	15.0	
Toxaphene-4	0.04516	0.03834	N/A	15.1	15.0	<-
Toxaphene-5	0.05453	0.04357	N/A	20.1	15.0	<-
Toxaphene-Total	0.04665	0.04030	N/A	13.6	15.0	

Average Used: 13.4489

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0911

Lab File ID: PCCV18 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.63644	0.70268	N/A	10.4	15.0	
beta-BHC	0.39722	0.39373	N/A	0.9	15.0	
delta-BHC	0.63446	0.63848	N/A	0.6	15.0	
gamma-BHC (Lindane)	0.63298	0.68348	N/A	8.0	15.0	
heptachlor	0.55959	0.55774	N/A	0.3	15.0	
aldrin	0.61206	0.64215	N/A	4.9	15.0	
heptachlor epoxide	0.63495	0.75042	N/A	18.2	15.0	<- ok
endosulfan I	0.57243	0.59971	N/A	4.8	15.0	
dieldrin	0.45898	0.52664	N/A	14.7	15.0	
4,4'-DDE	0.57632	0.61734	N/A	7.1	15.0	
endrin	0.47275	0.58253	N/A	23.2	15.0	<- ok
endosulfan II	0.56618	0.62336	N/A	10.1	15.0	
4,4'-DDD	0.31782	0.37995	N/A	19.5	15.0	<- ok
endosulfan sulfate	0.65866	0.59853	N/A	9.1	15.0	
4,4'-DDT	0.51965	0.47256	N/A	9.1	15.0	
methoxychlor	0.21636	0.24635	N/A	13.9	15.0	
endrin aldehyde	0.43319	0.39518	N/A	8.8	15.0	
alpha-chlordane	0.71607	0.76390	N/A	6.7	15.0	
gamma-chlordane	0.68732	0.68547	N/A	0.3	15.0	
endrin ketone	0.67139	0.69033	N/A	2.8	15.0	
2,4,5,6-tetrachloro-m-xylene	0.58581	0.62491	N/A	6.7	15.0	
Decachlorobiphenyl	0.69024	0.60538	N/A	12.3	15.0	

Average Used: 8.74500

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD01 Calibration Date: 02/11/01 Time: 0911

Lab File ID: PCCV18 Init. Calib. Date: 02/05/01

Init. Calib. Time: 1423

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.06	MIN RRF	%D	MAX %D	
alpha-BHC	0.67998	0.74806	N/A	10.0	15.0	
beta-BHC	0.45397	0.43085	N/A	5.1	15.0	
delta-BHC	0.62024	0.79373	N/A	28.0	15.0	<- WC
gamma-BHC (Lindane)	0.68417	0.72261	N/A	5.6	15.0	
heptachlor	0.63981	0.62630	N/A	2.1	15.0	
aldrin	0.62811	0.63842	N/A	1.6	15.0	
heptachlor epoxide	0.63832	0.65494	N/A	2.6	15.0	
endosulfan I	0.61936	0.73234	N/A	18.2	15.0	<- WC
dieldrin	0.55705	0.55975	N/A	0.5	15.0	
4,4'-DDE	0.55309	0.56801	N/A	2.7	15.0	
endrin	0.61212	0.60676	N/A	0.9	15.0	
endosulfan II	0.62716	0.60812	N/A	3.0	15.0	
4,4'-DDD	0.45385	0.52382	N/A	15.4	15.0	<- WC
endosulfan sulfate	0.51646	0.48468	N/A	6.2	15.0	
4,4'-DDT	0.43967	0.42044	N/A	4.4	15.0	
methoxychlor	0.19955	0.20691	N/A	3.7	15.0	
endrin aldehyde	0.44470	0.38749	N/A	12.9	15.0	
gamma-chlordane	0.71679	0.74029	N/A	3.3	15.0	
alpha-chlordane	0.74920	0.80274	N/A	7.1	15.0	
endrin ketone	0.57775	0.57070	N/A	1.2	15.0	
2,4,5,6-tetrachloro-m-xylene	0.62733	0.63673	N/A	1.5	15.0	
Decachlorobiphenyl	0.63402	0.72168	N/A	13.8	15.0	

Average Used: 6.81153

FORM VII SV-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM Date Analyzed :02/05/01

Lab Sample ID (PEM): PEM Time Analyzed :1025

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.80	13.74	13.84	0.039	0.050	24.7	
4,4'-DDT	16.47	16.42	16.52	0.075	0.10	28.6	<- ok

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM Date Analyzed :02/05/01

Lab Sample ID (PEM): PEM Time Analyzed :1025

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD
endrin	16.10	16.05	16.15	0.040	0.050	22.2
4,4'-DDT	18.96	18.91	19.01	0.081	0.10	21.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM11 Date Analyzed :02/08/01

Lab Sample ID (PEM): PEM11 Time Analyzed :1925

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD
endrin	13.79	13.74	13.84	0.045	0.050	10.5
4,4'-DDT	16.46	16.42	16.52	0.080	0.10	22.2

4,4'-DDT % breakdown (1): 7.13 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 7.13

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM11 Date Analyzed :02/08/01

Lab Sample ID (PEM): PEM11 Time Analyzed :1925

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD
endrin	16.09	16.05	16.15	0.043	0.050	15.0
4,4'-DDT	18.95	18.91	19.01	0.085	0.10	16.2

4,4'-DDT % breakdown (1): 8.32 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 8.32

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM12 Date Analyzed :02/09/01

Lab Sample ID (PEM): PEM12 Time Analyzed :0250

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.80	13.74	13.84	0.042	0.050	17.4	
4,4'-DDT	16.46	16.42	16.52	0.076	0.10	27.3	<- ue

4,4'-DDT % breakdown (1): 6.96 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 6.96

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM12 Date Analyzed :02/09/01

Lab Sample ID (PEM): PEM12 Time Analyzed :0250

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD
endrin	16.10	16.05	16.15	0.042	0.050	17.4
4,4'-DDT	18.96	18.91	19.01	0.084	0.10	17.4

4,4'-DDT % breakdown (1): 6.55 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 6.55

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM16 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM16 Time Analyzed :2020

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.79	13.74	13.84	0.027	0.050	59.7	<-
4,4'-DDT	16.46	16.42	16.52	0.056	0.10	56.4	<-

4,4'-DDT % breakdown (1): 4.57 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.57

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM16 Date Analyzed :02/10/01

Lab Sample ID (PEM): PEM16 Time Analyzed :2020

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	16.10	16.05	16.15	0.029	0.050	53.2	<-
4,4'-DDT	18.95	18.91	19.01	0.060	0.10	50.0	<-

4,4'-DDT % breakdown (1): 4.64 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.64

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM17 Date Analyzed :02/11/01

Lab Sample ID (PEM): PEM17 Time Analyzed :0344

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	13.79	13.74	13.84	0.038	0.050	27.3	<- WK
4,4'-DDT	16.46	16.42	16.52	0.069	0.10	36.7	<- WK

4,4'-DDT % breakdown (1): 5.01 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 5.01

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/05/01

EPA Sample No.(PEM): PEM17 Date Analyzed :02/11/01

Lab Sample ID (PEM): PEM17 Time Analyzed :0344

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ug/ml)	NOM AMOUNT (ug/ml)	RPD	
endrin	16.09	16.05	16.15	0.037	0.050	29.9	<- WK
4,4'-DDT	18.95	18.91	19.01	0.075	0.10	28.6	<- WK

4,4'-DDT % breakdown (1): 4.98 Endrin % breakdown (1): 0.00

Combined % breakdown (1): 4.98

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

GC/ECD HERBICIDE ORGANICS

METHOD 8151

CASE NARRATIVE
GC/ECD SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHILL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA SW846 8151

IV. PREPARATION

TCLP samples were prepared by EPA SW846 1311 prior to 8151 semi-volatiles preparation.
Water samples were prepared by EPA SW846 3510 for 8151 semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. . Initial calibration criteria is stated in SW846 such that all required parameters have a maximum percent RSD of 20. If an analyte exceeds the percent RSD, then the mean of the RSD values for all analytes must be below 20%.
The continuing calibration verification standards for the 8151 analytical runs did not meet the less than 15 % D criteria for all analytes. The average % D was used as per SW846 method 8000 section 7.7. The average % D is noted on the form 7 as required.

The Herbicide standards correspond to the following calibration files for Herbicide concentration at the instrument level:

CAL1= 0.025ug/mL
CAL2=0.05ug/mL
CAL3=0.1ug/mL
CAL4=0.15ug/mL
CAL5=0.2ug/mL
CAL6=0.25ug/mL
CAL7=0.3ug/mL

B. Blanks:

There was one blank analyzed associated with the TCLP samples that was non-detect for target parameters.

CASE NARRATIVE
GC/ECD SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

C. Surrogates:

Surrogate recoveries for 2,4-Dichlorophenylacetic acid fell below criteria for all samples with the exception of BLK208. The laboratory has recently re-extracted several batches of TCLP herbicides to attempt to locate the problem with the surrogates, but each re-extracted batch showed similar results as the first extraction and showed similar results of this extraction. The problem with the TCLP surrogates is still being investigated, however these samples were not re-extracted or re-analyzed.

D. Spikes:

Laboratory Control Spikes (LCS)

One LCS, 020801LCSA, was analyzed with the TCLP samples, which met all criteria for percent recovery.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

There was one reagent MS/SD analyzed with the TCLP samples, which met all criteria for percent recovery and relative percent difference.
There was one MS sample analyzed with the TCLP samples, on sample 00525WC07S0201, which did not meet criteria for one out of two analytes for percent recovery.

E. Internal standards:

All internal standard criteria were met for the TCLP samples.

F. Samples:

Sample analysis proceeded normally. Data was collected using dual column analysis. Project specific RLs were used per client instructions.

TCLP's are reported in mg/L.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: Tina Keene **DATE:** 2/19/01

HERBICIDE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method: 8151

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010

Sample Data

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131001 Lab File ID 310-01.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 11:12 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 1 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131002 Lab File ID 310-02.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 11:54 AM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 2 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131003 Lab File ID 310-03.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 12:35 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 3 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract: Cecil Field	00525WC04S0201
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2101310
Matrix:	WATER	Lab Sample ID 210131004	Lab File ID 310-04.D
Sample wt/vol:	500 Units: ML	Date Received:	2/2/01
Concentrated Extract Volume:	10	Date Extracted:	2/8/01
Level:(low/med)	LOW	Date Analyzed:	2/12/01 Time: 1:17 PM
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	SEPF	Station ID Site 25 Area 4	Method: 8151_TCLP
GPC Cleanup : (Y/N)	N pH:		
GC Column:	XTI-5 & RTX-1701 ID: 0.53 (mm)		

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131005 Lab File ID 310-05.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 1:58 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 5 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131006 Lab File ID 310-06.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 2:39 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 6 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC07S0201

Lab Name: PEL Laboratories, Inc. | Contract: Cecil Field

Lab Code: PEL | Case No. | SAS No: | SDG No.: 2101310

Matrix: WATER | Lab Sample ID: 210131007 | Lab File ID: 310-07.D

Sample wt/vol: 500 | Units: ML | Date Received: 2/2/01

Concentrated Extract Volume: 10 | Date Extracted: 2/8/01

Level:(low/med) LOW | Date Analyzed: 2/12/01 | Time: 4:44 PM

PercentSolids: 0 | decanted: | Dilution Factor: 1

Extraction: SEPF | Station ID: Site 25 Area 7 | Method: 8151_TCLP

GPC Cleanup: (Y/N) N | pH:

GC Column: XTI-5 & RTX-1701 | ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131008 Lab File ID 310-08.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 6:07 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 Area 8 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	ANALYTE	RESULT	Q
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131009 Lab File ID 310-09.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 6:49 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB1 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID 210131010 Lab File ID 310-10.D

Sample wt/vol: 500 Units: ML Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/12/01 Time: 7:30 PM

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID Site 25 / PCB2 Method: 8151_TCLP

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

TCLP Analysis

CAS NO.	*ANALYTE*	*RESULT*	*Q*
94-75-7	2,4-D	0.0005	U
93-72-1	2,4,5-TP (Silvex)	0.0005	U

QC Summary

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: blk208

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: WATER Lab Sample ID: blk208 Lab File ID: BLK208.D

Sample wt/vol: 1000 Units: ML Date Received: 2/8/01

Concentrated Extract Volume: 10 Date Extracted: 2/8/01

Level:(low/med) LOW Date Analyzed: 2/11/01 Time: 2:06 PM

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: QC Method: 8151_TCLP

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

TCLP Analysis

CONCENTRATION UNITS: MG/L

CAS NO.	ANALYTE	RESULT	Q
94-75-7	2,4-D	0.00025	U
93-72-1	2,4,5-TP (Silvex)	0.00025	U

FORM 4
HERB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BLK208

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208 Lab File ID: BLK208

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 02/08/01

Date Analyzed (1): 02/11/01 Date Analyzed (2): 02/11/01

Time Analyzed (1): 1406 Time Analyzed (2): 1406

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	BLK208MS	BLK208MS	02/11/01	02/11/01
02	BLK208SD	BLK208MSD	02/12/01	02/12/01
03	00525WC01S0201	210131001	02/12/01	02/12/01
04	00525WC02S0201	210131002	02/12/01	02/12/01
05	00525WC03S0201	210131003	02/12/01	02/12/01
06	00525WC04S0201	210131004	02/12/01	02/12/01
07	00525WC05S0201	210131005	02/12/01	02/12/01
08	00525WC06S0201	210131006	02/12/01	02/12/01
09	00525WC07S0201	210131007	02/12/01	02/12/01
10	00525WC07S0201MS	210131007MS	02/12/01	02/12/01
11	00525WC08S0201	210131008	02/12/01	02/12/01
12	00525WC09S0201	210131009	02/12/01	02/12/01
13	00525WC10S0201	210131010	02/12/01	02/12/01
14	020801LCSA	020801LCSA	02/14/01	02/14/01
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 4
HERB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BLK208

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208 Lab File ID: BLK208

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 02/08/01

Date Analyzed (1): 02/11/01 Date Analyzed (2): 02/11/01

Time Analyzed (1): 1406 Time Analyzed (2): 1406

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column (1): RTX-5 ID: 0.53 (mm) GC Column (2): RTX-1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	BLK208MS	BLK208MS	02/11/01	02/11/01
02	BLK208MSD	BLK208MSD	02/12/01	02/12/01
03	00525WC01S0201	210131001	02/12/01	02/12/01
04	00525WC02S0201	210131002	02/12/01	02/12/01
05	00525WC03S0201	210131003	02/12/01	02/12/01
06	00525WC04S0201	210131004	02/12/01	02/12/01
07	00525WC05S0201	210131005	02/12/01	02/12/01
08	00525WC06S0201	210131006	02/12/01	02/12/01
09	00525WC07S0201	210131007	02/12/01	02/12/01
10	00525WC07S0201MS	210131007MS	02/12/01	02/12/01
11	00525WC08S0201	210131008	02/12/01	02/12/01
12	00525WC09S0201	210131009	02/12/01	02/12/01
13	00525WC10S0201	210131010	02/12/01	02/12/01
14	020801LCSA	020801LCSA	02/14/01	02/14/01
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

WATER HERBICIDE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: XTI-5 & RTX-170 ID: 0.53

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	45.2*						1
00525WC02S0201	49.4*						1
00525WC03S0201	19.1*						1
00525WC04S0201	32.4*						1
00525WC05S0201	14.3*						1
00525WC06S0201	11*						1
00525WC07S0201	19.5*						1
00525WC07S0201ms	13.4*						1
00525WC08S0201	0.7*						1
00525WC09S0201	20*						1
00525WC10S0201	13.1*						1
020801lcsa	54.4*						1
blk208	44.8*						1
blk208ms	68.8						0
blk208sd	45.2*						1

Control Limits

S1 = 2,4-Dichlorophenylacetic acid 60 - 130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) LAB

Form II

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 02/11/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 17.44

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/11/01	0631		
02	CSBLK208	CSBLK208	02/11/01	0713	17.47	
03	CS25	CS25	02/11/01	0754	17.45	
04	CS50	CS50	02/11/01	0835	17.45	
05	CS100	CS100	02/11/01	0916	17.45	
06	CS150	CS150	02/11/01	0958	17.44	
07	CS200	CS200	02/11/01	1039	17.44	
08	CS250	CS250	02/11/01	1120	17.44	
09	CS300	CS300	02/11/01	1202	17.44	
10	SCS150	SCS150	02/11/01	1243	17.44	
11	CCV01	CCV01	02/11/01	1325	17.44	
12	BLK208	BLK208	02/11/01	1406	17.48	
13	BLK208MS	BLK208MS	02/11/01	1447	17.45	
14	ZZZZZ	ZZZZZ	02/12/01	0618	17.76*	
15	BLK208SD	BLK208MSD	02/12/01	0659	17.44	
16	ZZZZZ	ZZZZZ	02/12/01	0746	17.44	
17	CCV02	CCV02	02/12/01	0909	17.44	
18	ZZZZZ	ZZZZZ	02/12/01	0950		
19	ZZZZZ	ZZZZZ	02/12/01	1031	17.44	
20	00525WC01S0201	210131001	02/12/01	1112	17.46	
21	00525WC02S0201	210131002	02/12/01	1154	17.45	
22	00525WC03S0201	210131003	02/12/01	1235	17.46	
23	00525WC04S0201	210131004	02/12/01	1317	17.46	
24	00525WC05S0201	210131005	02/12/01	1358	17.47	
25	00525WC06S0201	210131006	02/12/01	1439	17.48	
26	ZZZZZ	ZZZZZ	02/12/01	1521		
27	CCV02	CCV02	02/12/01	1602	17.44	
28	00525WC07S0201	210131007	02/12/01	1644	17.46	
29	00525WC07S0201MS	210131007MS	02/12/01	1726	17.45	
30	00525WC08S0201	210131008	02/12/01	1807	17.55	
31	00525WC09S0201	210131009	02/12/01	1849	17.46	
32	00525WC10S0201	210131010	02/12/01	1930	17.46	

S1 = DCAA

QC LIMITS
(+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 02/11/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 17.44

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/12/01	2011		
02	CCV03	CCV03	02/12/01	2053	17.44	
03	ZZZZZ	ZZZZZ	02/12/01	2134	17.46	
04	ZZZZZ	ZZZZZ	02/12/01	2216	17.44	
05	ZZZZZ	ZZZZZ	02/12/01	2257	17.46	
06	ZZZZZ	ZZZZZ	02/12/01	2338	17.46	
07	ZZZZZ	ZZZZZ	02/13/01	0020	17.46	
08	ZZZZZ	ZZZZZ	02/13/01	0101		
09	CCV04	CCV04	02/13/01	0142	17.44	
10	ZZZZZ	ZZZZZ	02/13/01	0224		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
S1 = DCAA (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII HERB

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/11/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 19.78

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/11/01	0631	19.76	
02	CSBLK208	CSBLK208	02/11/01	0713	19.79	
03	CS25	CS25	02/11/01	0754	19.79	
04	CS50	CS50	02/11/01	0835	19.78	
05	CS100	CS100	02/11/01	0916	19.78	
06	CS150	CS150	02/11/01	0958	19.78	
07	CS200	CS200	02/11/01	1039	19.78	
08	CS250	CS250	02/11/01	1120	19.78	
09	CS300	CS300	02/11/01	1202	19.78	
10	SCS150	SCS150	02/11/01	1243	19.78	
11	CCV01	CCV01	02/11/01	1325	19.78	
12	BLK208	BLK208	02/11/01	1406	19.80	
13	BLK208MS	BLK208MS	02/11/01	1447	19.78	
14	ZZZZZ	ZZZZZ	02/12/01	0618	19.77	
15	BLK208SD	BLK208MSD	02/12/01	0659	19.78	
16	ZZZZZ	ZZZZZ	02/12/01	0746	19.77	
17	CCV02	CCV02	02/12/01	0909	19.78	
18	ZZZZZ	ZZZZZ	02/12/01	0950		
19	ZZZZZ	ZZZZZ	02/12/01	1031	19.77	
20	00525WC01S0201	210131001	02/12/01	1112	19.78	
21	00525WC02S0201	210131002	02/12/01	1154	19.78	
22	00525WC03S0201	210131003	02/12/01	1235	19.78	
23	00525WC04S0201	210131004	02/12/01	1317	19.78	
24	00525WC05S0201	210131005	02/12/01	1358	19.79	
25	00525WC06S0201	210131006	02/12/01	1439	19.80	
26	ZZZZZ	ZZZZZ	02/12/01	1521	19.62	
27	CCV02	CCV02	02/12/01	1602	19.78	
28	00525WC07S0201	210131007	02/12/01	1644	19.79	
29	00525WC07S0201MS	210131007MS	02/12/01	1726	19.78	
30	00525WC08S0201	210131008	02/12/01	1807	19.80	
31	00525WC09S0201	210131009	02/12/01	1849	19.79	
32	00525WC10S0201	210131010	02/12/01	1930	19.79	

QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/11/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 19.78

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/12/01	2011	19.79	
02	CCV03	CCV03	02/12/01	2053	19.78	
03	ZZZZZ	ZZZZZ	02/12/01	2134	19.79	
04	ZZZZZ	ZZZZZ	02/12/01	2216	19.77	
05	ZZZZZ	ZZZZZ	02/12/01	2257	19.78	
06	ZZZZZ	ZZZZZ	02/12/01	2338	19.78	
07	ZZZZZ	ZZZZZ	02/13/01	0020	19.79	
08	ZZZZZ	ZZZZZ	02/13/01	0101	19.78	
09	CCV04	CCV04	02/13/01	0142	19.77	
10	ZZZZZ	ZZZZZ	02/13/01	0224	19.79	
11						
12						
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QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 02/13/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 17.46

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/13/01	0305	17.51	
02	CAL300	CAL300	02/13/01	0346	17.44	
03	CAL250	CAL250	02/13/01	0428	17.44	
04	CAL200	CAL200	02/13/01	0509	17.44	
05	CAL150	CAL150	02/13/01	0550	17.44	
06	CAL100	CAL100	02/13/01	0632	17.45	
07	CAL50	CAL50	02/13/01	0713	17.45	
08	CAL25	CAL25	02/13/01	0755	17.46	
09	SECSTD	SECSTD	02/13/01	0836	17.44	
10	ZZZZZ	ZZZZZ	02/13/01	0917		
11	150CCV1	150CCV1	02/13/01	0958	17.44	
12	ZZZZZ	ZZZZZ	02/13/01	1040	17.46	
13	ZZZZZ	ZZZZZ	02/13/01	1121	17.45	
14	ZZZZZ	ZZZZZ	02/13/01	1202	17.46	
15	ZZZZZ	ZZZZZ	02/13/01	1244	17.45	
16	ZZZZZ	ZZZZZ	02/13/01	1325	17.46	
17	ZZZZZ	ZZZZZ	02/13/01	1406	17.46	
18	ZZZZZ	ZZZZZ	02/13/01	1448	17.46	
19	ZZZZZ	ZZZZZ	02/13/01	1529	17.45	
20	ZZZZZ	ZZZZZ	02/13/01	1610	17.45	
21	ZZZZZ	ZZZZZ	02/13/01	1652	17.45	
22	ZZZZZ	ZZZZZ	02/13/01	1733		
23	150CCV2	150CCV2	02/13/01	1815	17.44	
24	ZZZZZ	ZZZZZ	02/13/01	1856	17.44	
25	ZZZZZ	ZZZZZ	02/13/01	1937	17.44	
26	ZZZZZ	ZZZZZ	02/13/01	2019	17.45	
27	ZZZZZ	ZZZZZ	02/13/01	2100		
28	ZZZZZ	ZZZZZ	02/13/01	2141	17.45	
29	ZZZZZ	ZZZZZ	02/13/01	2222	17.44	
30	ZZZZZ	ZZZZZ	02/13/01	2304	17.44	
31	ZZZZZ	ZZZZZ	02/13/01	2345	17.44	
32	020801LCSA	020801LCSA	02/14/01	0027	17.45	

QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 02/13/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 17.46

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/14/01	0108		
02	150CCV3	150CCV3	02/14/01	0149	17.44	
03	ZZZZZ	ZZZZZ	02/14/01	0231	17.46	
04	ZZZZZ	ZZZZZ	02/14/01	0312	17.46	
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QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII HERB

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/13/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 19.79

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/13/01	0305	19.82	
02	CAL300	CAL300	02/13/01	0346	19.77	
03	CAL250	CAL250	02/13/01	0428	19.77	
04	CAL200	CAL200	02/13/01	0509	19.77	
05	CAL150	CAL150	02/13/01	0550	19.77	
06	CAL100	CAL100	02/13/01	0632	19.78	
07	CAL50	CAL50	02/13/01	0713	19.78	
08	CAL25	CAL25	02/13/01	0755	19.79	
09	SECSTD	SECSTD	02/13/01	0836	19.78	
10	ZZZZZ	ZZZZZ	02/13/01	0917	19.79	
11	150CCV1	150CCV1	02/13/01	0958	19.77	
12	ZZZZZ	ZZZZZ	02/13/01	1040	19.79	
13	ZZZZZ	ZZZZZ	02/13/01	1121	19.78	
14	ZZZZZ	ZZZZZ	02/13/01	1202	19.78	
15	ZZZZZ	ZZZZZ	02/13/01	1244	19.78	
16	ZZZZZ	ZZZZZ	02/13/01	1325	19.78	
17	ZZZZZ	ZZZZZ	02/13/01	1406	19.79	
18	ZZZZZ	ZZZZZ	02/13/01	1448	19.78	
19	ZZZZZ	ZZZZZ	02/13/01	1529	19.77	
20	ZZZZZ	ZZZZZ	02/13/01	1610	19.77	
21	ZZZZZ	ZZZZZ	02/13/01	1652	19.78	
22	ZZZZZ	ZZZZZ	02/13/01	1733	19.82	
23	150CCV2	150CCV2	02/13/01	1815	19.77	
24	ZZZZZ	ZZZZZ	02/13/01	1856	19.77	
25	ZZZZZ	ZZZZZ	02/13/01	1937	19.77	
26	ZZZZZ	ZZZZZ	02/13/01	2019	19.77	
27	ZZZZZ	ZZZZZ	02/13/01	2100	19.91	
28	ZZZZZ	ZZZZZ	02/13/01	2141	19.77	
29	ZZZZZ	ZZZZZ	02/13/01	2222	19.77	
30	ZZZZZ	ZZZZZ	02/13/01	2304	19.77	
31	ZZZZZ	ZZZZZ	02/13/01	2345	19.77	
32	020801LCSA	020801LCSA	02/14/01	0027	19.78	

QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
HERB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/13/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 19.79

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	ZZZZZ	ZZZZZ	02/14/01	0108	19.81	
02	150CCV3	150CCV3	02/14/01	0149	19.77	
03	ZZZZZ	ZZZZZ	02/14/01	0231	19.78	
04	ZZZZZ	ZZZZZ	02/14/01	0312	19.78	
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QC LIMITS
(+/- 0.20 MINUTES)

S1 = DCAA

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC01S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	599062	0.100	0.100	
		2	23.177	23.177	0.000	1380423	0.100	0.100	0.00
DCAA	*	1	17.457	17.440	0.017	105233	0.113	2.260	
		2	19.783	19.777	0.006	199093	0.138	2.750	21.68

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC02S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131002 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	578369	0.100	0.100	
		2	23.177	23.177	0.000	1300731	0.100	0.100	0.00
DCAA	*	1	17.453	17.440	0.013	111626	0.123	2.470	
		2	19.780	19.777	0.003	188934	0.149	2.980	20.65

* Column used for quantitation

HERB DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC03S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131003 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	564715	0.100	0.100	
		2	23.177	23.177	0.000	1263502	0.100	0.100	0.00
DCAA	*	1	17.457	17.440	0.017	40366	0.048	0.957	
		2	19.780	19.777	0.003	75886	0.060	1.210	26.44

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC04S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	558798	0.100	0.100	
		2	23.173	23.177	0.004	1276220	0.100	0.100	0.00
DCAA	*	1	17.457	17.440	0.017	70754	0.081	1.620	
		2	19.783	19.777	0.006	128675	0.104	2.090	29.01

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC05S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131005 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	* 1	21.490	21.487	0.003	605726	0.100	0.100	
	2	23.177	23.177	0.000	1365744	0.100	0.100	0.00
DCAA	* 1	17.470	17.440	0.030	36598	0.036	0.717	
	2	19.790	19.777	0.013	75873	0.053	1.060	47.84

* Column used for quantitation

HERB DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC06S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131006 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.490	21.487	0.003	575745	0.100	0.100	
		2	23.177	23.177	0.000	1289487	0.100	0.100	0.00
DCAA	*	1	17.480	17.440	0.040	28495	0.028	0.550	
		2	19.797	19.777	0.020	64081	0.044	0.870	58.18

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC07S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.490	21.487	0.003	587433	0.100	0.100	
		2	23.177	23.177	0.000	1328474	0.100	0.100	0.00
DCAA	*	1	17.463	17.440	0.023	48766	0.049	0.973	
		2	19.790	19.777	0.013	93721	0.067	1.340	37.72

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC0
7S0201MS

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007MS Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	587638	0.100	0.100	
		2	23.177	23.177	0.000	1352509	0.100	0.100	0.00
2,4-D	*	1	20.490	20.487	0.003	63026	0.072	1.440	
		2	23.650	23.643	0.007	129693	0.075	1.500	4.17
2,4,5-TP	*	1	22.963	22.960	0.003	122979	0.043	0.868	
		2	25.457	25.453	0.004	304028	0.046	0.917	5.64
DCAA	*	1	17.447	17.440	0.007	26166	0.034	0.672	
		2	19.780	19.777	0.003	67442	0.048	0.952	41.67

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC08S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131008 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	* 1	21.490	21.487	0.003	567344	0.100	0.100	
	2	23.177	23.177	0.000	1290726	0.100	0.100	0.00
DCAA	* 1	17.547	17.440	0.107	1209	0.002	0.035	
	2	19.797	19.777	0.020	12885	0.008	0.150	328.57

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

00525WC09S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131009 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	559668	0.100	0.100	
		2	23.177	23.177	0.000	1271362	0.100	0.100	0.00
DCAA	*	1	17.460	17.440	0.020	44159	0.050	0.999	
		2	19.787	19.777	0.010	115605	0.075	1.510	51.15

* Column used for quantitation

HERB DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

00525WC10S0201

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010 Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	* 1	21.490	21.487	0.003	571022	0.100	0.100	
	2	23.177	23.177	0.000	1315846	0.100	0.100	0.00
DCAA	* 1	17.463	17.440	0.023	27056	0.033	0.653	
	2	19.793	19.777	0.016	76183	0.048	0.969	48.39

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

020801LCSA

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020801LCSA Date(s) Analyzed: 02/14/01 02/14/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	560277	0.100	0.100	
		2	23.170	23.173	0.003	1420505	0.100	0.100	0.00
DCAA	*	1	17.447	17.457	0.010	90020	0.136	1.360	
		2	19.777	19.790	0.013	238352	0.138	1.380	1.47

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

BLK208

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.493	21.487	0.006	674027	0.100	0.100	
		2	23.180	23.177	0.003	1524515	0.100	0.100	0.00
DCAA	*	1	17.477	17.440	0.037	147428	0.112	1.120	
		2	19.797	19.777	0.020	261172	0.138	1.380	23.21

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

BLK208MS

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208MS Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	* 1	21.487	21.487	0.000	668975	0.100	0.100	
	2	23.177	23.177	0.000	1559719	0.100	0.100	0.00
2,4-D	* 1	20.487	20.487	0.000	84776	0.085	0.849	
	2	23.647	23.643	0.004	172053	0.088	0.875	3.06
2,4,5-TP	1	22.957	22.960	0.003	293744	0.086	0.863	
	* 2	25.453	25.453	0.000	691654	0.085	0.852	1.29
DCAA	* 1	17.447	17.440	0.007	164969	0.172	1.720	
	2	19.777	19.777	0.000	293405	0.188	1.880	9.30

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

BLK208MSD

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208MSD Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	627555	0.100	0.100	
		2	23.173	23.177	0.004	1515882	0.100	0.100	0.00
2,4-D	*	1	20.487	20.487	0.000	68282	0.073	0.729	
		2	23.647	23.643	0.004	154481	0.078	0.775	6.31
2,4,5-TP	*	1	22.957	22.960	0.003	243753	0.075	0.747	
		2	25.450	25.453	0.003	599477	0.076	0.759	1.61
DCAA	*	1	17.443	17.440	0.003	98695	0.113	1.130	
		2	19.777	19.777	0.000	190615	0.123	1.230	8.85

* Column used for quantitation

CLIENT SAMPLE NO.

HERB DUAL COLUMN CONFIRMATION CHECK

BLK208SD

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: BLK208MSD Date(s) Analyzed: 02/12/01 02/12/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.487	21.487	0.000	627555	0.100	0.100	
		2	23.173	23.177	0.004	1515882	0.100	0.100	0.00
2,4-D	*	1	20.487	20.487	0.000	68282	0.073	0.729	
		2	23.647	23.643	0.004	154481	0.078	0.775	6.31
2,4,5-TP	*	1	22.957	22.960	0.003	243753	0.075	0.747	
		2	25.450	25.453	0.003	599477	0.076	0.759	1.61
DCAA	*	1	17.443	17.440	0.003	98695	0.113	1.130	
		2	19.777	19.777	0.000	190615	0.123	1.230	8.85

* Column used for quantitation

HERB DUAL COLUMN CONFIRMATION CHECK

CLIENT SAMPLE NO.

CSBLK208

Lab Name: PEL Laboratories Inc. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: CSBLK208 Date(s) Analyzed: 02/11/01 02/11/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
DBOB	*	1	21.493	21.487	0.006	609576	0.100	0.100	
		2	23.180	23.177	0.003	1346796	0.100	0.100	0.00
DCAA	*	1	17.473	17.440	0.033	170508	0.156	1.560	
		2	19.793	19.777	0.016	283141	0.188	1.880	20.51

* Column used for quantitation

HERBICIDE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 020801lcsa

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
2,4-D	0.001	0.0001	72	43 - 161
2,4,5-TP (Silvex)	0.001	0.0001	81	54 - 150

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

HERBICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

00525WC07S0201ms

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
2,4-D	0.002	0	0.0014	72	43 - 161
2,4,5-TP (Silvex)	0.002	0	0.000868	43.4*	54 - 150

Spike Recovery: 1 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

HERBICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

blk208ms

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
2,4-D	0.001	0	0.000849	84.9	43 - 161
2,4,5-TP (Silvex)	0.001	0	0.000852	85.2	54 - 150

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

HERBICIDE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

blk208sd

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

TCLP Analysis

COMPOUND	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	0.001	0.000729	72.9	15.2	75	43 - 161
2,4,5-TP (Silvex)	0.001	0.000747	74.7	13.1	71	54 - 150

RPD 0 out of 2 outside limits

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

Standards Data

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/11/01 02/11/01

Calibration Time(s): 0754 1202

LAB FILE ID: RRF0.025=CS25 RRF0.05=CS50
RRF0.1=CS100 RRF0.15=CS150 RRF0.2=CS200

COMPOUND	RRF 0.025	RRF 0.05	RRF0.1	RRF 0.15	RRF0.2	$\overline{RRF}$	% RSD
2,4-D	0.137	0.162	0.160	0.155	0.149		
2,4,5-TP	0.501	0.480	0.484	0.475	0.468		
DCAA	0.174	0.133	0.118	0.122	0.115		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/11/01 02/11/01

Calibration Time(s): 0754 1202

LAB FILE ID: RRF0.25=CS250 RRF0.3=CS300

COMPOUND	RRF 0.25	RRF0.3				$\overline{RRF}$	% RSD
2,4-D	0.147	0.136				0.1494	6.9
2,4,5-TP	0.487	0.433				0.4754	4.5
DCAA	0.110	0.106				0.1254	18.5

* Compounds with required minimum RRF and maximim %RSD values. All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/11/01 02/11/01

Calibration Time(s): 0754 1202

LAB FILE ID: RRF0.025=CS25 RRF0.05=CS50
RRF0.1=CS100 RRF0.15=CS150 RRF0.2=CS200

COMPOUND	RRF 0.025	RRF 0.05	RRF0.1	RRF 0.15	RRF0.2	$\overline{RRF}$	% RSD
2,4-D	0.109	0.106	0.103	0.099	0.095		
2,4,5-TP	0.590	0.550	0.517	0.491	0.467		
DCAA		0.103	0.088	0.090	0.084		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/11/01 02/11/01

Calibration Time(s): 0754 1202

LAB FILE ID: RRF0.25=CS250 RRF0.3=CS300

COMPOUND	RRF 0.25	RRF0.3				$\overline{RRF}$	% RSD
2,4-D	0.097	0.086				0.0993	7.5
2,4,5-TP	0.468	0.416				0.4998	11.6
DCAA	0.079	0.076				0.0867	10.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/13/01 02/13/01

Calibration Time(s): 0346 0755

LAB FILE ID: RRF0.025=CAL25 RRF0.05=CAL50
RRF0.1=CAL100 RRF0.15=CAL150 RRF0.2=CAL200

COMPOUND	RRF 0.025	RRF 0.05	RRF0.1	RRF 0.15	RRF0.2	$\overline{RRF}$	% RSD
2,4-D	0.158	0.145	0.148	0.168	0.169		
2,4,5-TP	0.270	0.254	0.283	0.352	0.362		
DCAA		0.130	0.095	0.107	0.104		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/13/01 02/13/01

Calibration Time(s): 0346 0755

LAB FILE ID: RRF0.25=CAL250 RRF0.3=CAL300

COMPOUND	RRF 0.25	RRF0.3				$\overline{RRF}$	% RSD
2,4-D	0.158	0.154				0.1571	5.8
2,4,5-TP	0.354	0.358				0.3190	15.0
DCAA	0.099	0.105				0.1067	11.5

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/13/01 02/13/01

Calibration Time(s): 0346 0755

LAB FILE ID: RRF0.025=CAL25 RRF0.05=CAL50
RRF0.1=CAL100 RRF0.15=CAL150 RRF0.2=CAL200

COMPOUND	RRF 0.025	RRF 0.05	RRF0.1	RRF 0.15	RRF0.2	$\overline{RRF}$	% RSD
2,4-D	0.101	0.088	0.088	0.102	0.102		
2,4,5-TP	0.560	0.472	0.448	0.494	0.487		
DCAA		0.104	0.076	0.084	0.082		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/13/01 02/13/01

Calibration Time(s): 0346 0755

LAB FILE ID: RRF0.25=CAL250 RRF0.3=CAL300

COMPOUND	RRF 0.25	RRF0.3				$\overline{RRF}$	% RSD
2,4-D	0.097	0.096				0.0963	6.2
2,4,5-TP	0.464	0.444				0.4813	8.2
DCAA	0.078	0.081				0.0842	11.9

* Compounds with required minimum RRF and maximim %RSD values. All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1202

LAB FILE ID: RT1: CS25 RT2: CS50 RT3: CS100
RT4: CS150 RT5: CS200

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	20.520	20.540	20.523	20.510	20.500
2,4,5-TP	22.970	22.977	22.973	22.970	22.967
DCAA	17.453	17.450	17.447	17.443	17.443

COMMENTS:

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1202

LAB FILE ID: RT6: CS250 RT7: CS300

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4-D	20.483	20.487	20.509	20.287	20.687
2,4,5-TP	22.960	22.960	22.968	22.760	23.160
DCAA	17.443	17.440	17.446	17.240	17.640

COMMENTS: _____

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1202

LAB FILE ID: RT1: CS25 RT2: CS50 RT3: CS100
RT4: CS150 RT5: CS200

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	23.667	23.673	23.663	23.657	23.650
2,4,5-TP	25.460	25.463	25.463	25.457	25.457
DCAA	19.790	19.783	19.780	19.777	19.777

COMMENTS:

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1202

LAB FILE ID: RT6: CS250 RT7: CS300

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4-D	23.643	23.643	23.657	23.443	23.843
2,4,5-TP	25.453	25.453	25.458	25.253	25.653
DCAA	19.777	19.777	19.780	19.577	19.977

COMMENTS:

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 0755

LAB FILE ID: RT1: CAL25 RT2: CAL50 RT3: CAL100
RT4: CAL150 RT5: CAL200

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	20.467	20.467	20.467	20.467	20.467
2,4,5-TP	23.680	23.660	23.633	23.613	23.603
DCAA	17.457	17.450	17.447	17.443	17.443

COMMENTS: _____

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 0755

LAB FILE ID: RT6: CAL250 RT7: CAL300

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4-D	20.467	20.467	20.467	20.267	20.667
2,4,5-TP	23.597	23.587	23.625	23.480	23.880
DCAA	17.440	17.440	17.446	17.257	17.657

COMMENTS: _____

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 0755

LAB FILE ID: RT1: CAL25 RT2: CAL50 RT3: CAL100
RT4: CAL150 RT5: CAL200

COMPOUND	RT1	RT2	RT3	RT4	RT5
2,4-D	23.720	23.700	23.677	23.660	23.650
2,4,5-TP	25.477	25.470	25.463	25.457	25.453
DCAA	19.790	19.783	19.780	19.773	19.773

COMMENTS: _____

FORM 6
HERB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 0755

LAB FILE ID: RT6: CAL250 RT7: CAL300

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4-D	23.647	23.643	23.671	23.520	23.920
2,4,5-TP	25.453	25.450	25.460	25.277	25.677
DCAA	19.773	19.773	19.778	19.590	19.990

COMMENTS: _____

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01 Time: 1325

Lab File ID: CCV01 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.14932	0.16139	0.01	8.1	15.0
2,4,5-TP	0.47549	0.47286	0.01	0.6	15.0
DCAA	0.12541	0.12214	0.01	2.6	15.0

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/11/01 Time: 1325

Lab File ID: CCV01 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.09955	0.09872	0.01	0.8	15.0
2,4,5-TP	0.49991	0.48966	0.01	2.0	15.0
DCAA	0.08665	0.09154	0.01	5.6	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 0909

Lab File ID: CCV1A Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.14932	0.16100	0.01	7.8	15.0
2,4,5-TP	0.47549	0.47608	0.01	0.1	15.0
DCAA	0.12541	0.12045	0.01	4.0	15.0

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 0909

Lab File ID: CCV1A Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.09955	0.10023	0.01	0.7	15.0
2,4,5-TP	0.49991	0.49123	0.01	1.7	15.0
DCAA	0.08665	0.08938	0.01	3.2	15.0

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 1602

Lab File ID: CCV2 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.14932	0.16792	0.01	12.4	15.0
2,4,5-TP	0.47549	0.48144	0.01	1.2	15.0
DCAA	0.12541	0.11264	0.01	10.2	15.0

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 1602

Lab File ID: CCV2 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.09955	0.10237	0.01	2.8	15.0
2,4,5-TP	0.49991	0.49518	0.01	0.9	15.0
DCAA	0.08665	0.09245	0.01	6.7	15.0

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 2053

Lab File ID: CCV3 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.14932	0.16910	0.01	13.2	15.0
2,4,5-TP	0.47549	0.48341	0.01	1.7	15.0
DCAA	0.12541	0.11345	0.01	9.5	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/12/01 Time: 2053

Lab File ID: CCV3 Init. Calib. Date: 02/11/01

Init. Calib. Time: 1202

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.09955	0.10290	0.01	3.4	15.0
2,4,5-TP	0.49991	0.49913	0.01	0.2	15.0
DCAA	0.08665	0.09222	0.01	6.4	15.0

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01 Time: 1815

Lab File ID: HCCV2 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.15722	0.14740	0.01	6.2	15.0	
2,4,5-TP	0.31923	0.47104	0.01	47.6	15.0	<-
DCAA	0.10676	0.11751	0.01	10.1	15.0	

Average Used: 21.2901

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01 Time: 1815

Lab File ID: HCCV2 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.09655	0.11711	0.01	21.3	15.0	<-Ud
2,4,5-TP	0.48123	0.53228	0.01	10.6	15.0	
DCAA	0.08432	0.09146	0.01	8.5	15.0	

Average Used: 13.4569

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/14/01 Time: 0149

Lab File ID: HCCV3 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D
2,4-D	0.15722	0.14839	0.01	5.6	15.0
2,4,5-TP	0.31923	0.48547	0.01	52.1	15.0
DCAA	0.10676	0.11460	0.01	7.3	15.0

Average Used: 21.6784

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/14/01 Time: 0149

Lab File ID: HCCV3 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.09655	0.11870	0.01	22.9	15.0	<-
2,4,5-TP	0.48123	0.52999	0.01	10.1	15.0	
DCAA	0.08432	0.08293	0.01	1.6	15.0	

Average Used: 11.5741

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01 Time: 1815

Lab File ID: HCCV2 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.15722	0.14740	0.01	6.2	15.0	
2,4,5-TP	0.31923	0.47104	0.01	47.6	15.0	<- WL
DCAA	0.10676	0.11751	0.01	10.1	15.0	

Average Used: 21.2901

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/13/01 Time: 1815

Lab File ID: HCCV2 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.09655	0.11711	0.01	21.3	15.0	<- ok
2,4,5-TP	0.48123	0.53228	0.01	10.6	15.0	
DCAA	0.08432	0.09146	0.01	8.5	15.0	

Average Used: 13.4569

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/14/01 Time: 0149

Lab File ID: HCCV3 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.15722	0.14839	0.01	5.6	15.0	
2,4,5-TP	0.31923	0.48547	0.01	52.1	15.0	<-
DCAA	0.10676	0.11460	0.01	7.3	15.0	

Average Used: 21.6784

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/14/01 Time: 0149

Lab File ID: HCCV3 Init. Calib. Date: 02/13/01

Init. Calib. Time: 0755

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.15	MIN RRF	%D	MAX %D	
2,4-D	0.09655	0.11870	0.01	22.9	15.0	<-
2,4,5-TP	0.48123	0.52999	0.01	10.1	15.0	
DCAA	0.08432	0.08293	0.01	1.6	15.0	

Average Used: 11.5741

FORM VII SV-1

GC/ECD PCB ORGANICS

METHOD 8082

CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

Client: CH2MHill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

SW846/EPA 8082

IV. PREPARATION

Soil samples were prepared by SW846 EPA 3550 for 8082 semi-volatiles analysis.

All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. All analytes have a maximum percent RSD of 20. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, if one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 15. In those instances, the average will be calculated and cited on the calibration forms. The continuing calibration verification standards for the 8082 analytical runs did not meet the less than 15 % D criteria for all analytes. The average % D was used as per SW846 method 8000 section 7.7. The average % D is noted on the form 7 as required.

The PCB standards correspond to the following calibration files for total PCB concentration at the instrument level:
RRF0.01= 0.05ug/ml
RRF0.02=0.10ug/ml
RRF0.1=0.50ug/ml
RRF0.2=1.00ug/ml
RRF0.4=2.00ug/ml
RRF0.5=2.50ug/ml

For this particular project the RRF0.01 level was omitted. Therefore the low standard is 0.10ug/ml.

B. Blanks:

One blank was analyzed with the soil samples and was non-detect for target parameters.

C. Surrogates:

All surrogate criteria were met for the soil samples.

CASE NARRATIVE
POLYCHLORINATED BIPHENYLS (PCB) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2101310

D. Spikes:

PCB 1016 and PCB 1260 were used as the spiking solution for all QC spikes.

Laboratory Control Spikes (LCS)

One LCS, 20701lcss, was analyzed with the soil samples which met all criteria for percent recovery.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

One reagent MS/SD set was analyzed with the soil samples, which passed all criteria .

E. Internal standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally. Data was collected using dual column analysis. Data is reported using the lower of the two columns. The following samples were analyzed at dilutions due to over-calibration hits of Aroclor 1016 and/or 1260; 00525WC01S0201, 00525WC02S0201, 00525WC04S0201, 00525WC06S0201, 00525WC09S0201, and 00525WC10S0201.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: Lisa Klein **DATE:** 2/19/21

PCB ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method: 8082

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC01S0201DL1	210131001DL1
00525WC02S0201	210131002
00525WC02S0201DL1	210131002DL1
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC04S0201DL1	210131004DL1
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC06S0201DL1	210131006DL1
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC09S0201DL1	210131009DL1
00525WC10S0201	210131010
00525WC10S0201DL1	210131010DL1

Sample Data

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131001 Lab File ID 310-01.D

Sample wt/vol: 33.01 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 1:02 PM

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 1 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	34	U
11096-82-5	Aroclor 1260	18600	E
11104-28-2	Aroclor 1221	34	U
11141-16-5	Aroclor 1232	34	U
53469-21-9	Aroclor 1242	34	U
12672-29-6	Aroclor 1248	34	U
11097-69-1	Aroclor 1254	34	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC01S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131001DL1 Lab File ID 310-01D.D

Sample wt/vol: 33.01 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 12:47 AM

PercentSolids: 89 decanted : Dilution Factor: 50

Extraction: SONC Station ID Site 25 Area 1 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	1700	U
11096-82-5	Aroclor 1260	30300	
11104-28-2	Aroclor 1221	1700	U
11141-16-5	Aroclor 1232	1700	U
53469-21-9	Aroclor 1242	1700	U
12672-29-6	Aroclor 1248	1700	U
11097-69-1	Aroclor 1254	1700	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131002 Lab File ID: 310-02.D

Sample wt/vol: 33.2 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 1:38 PM

PercentSolids: 88 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 2 Method: 8082

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	34	U
11096-82-5	Aroclor 1260	1610	E
11104-28-2	Aroclor 1221	34	U
11141-16-5	Aroclor 1232	34	U
53469-21-9	Aroclor 1242	34	U
12672-29-6	Aroclor 1248	34	U
11097-69-1	Aroclor 1254	34	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC02S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131002DL1 Lab File ID 310-02D.D

Sample wt/vol: 33.2 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 1:23 AM

PercentSolids: 88 decanted : Dilution Factor: 5

Extraction: SONC Station ID Site 25 Area 2 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	172	U
11096-82-5	Aroclor 1260	2380	
11104-28-2	Aroclor 1221	172	U
11141-16-5	Aroclor 1232	172	U
53469-21-9	Aroclor 1242	172	U
12672-29-6	Aroclor 1248	172	U
11097-69-1	Aroclor 1254	172	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131003 Lab File ID: 310-03.D

Sample wt/vol: 33.35 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 2:22 PM

PercentSolids: 87 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 3 Method: 8082

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	35	U
11096-82-5	Aroclor 1260	35	U
11104-28-2	Aroclor 1221	35	U
11141-16-5	Aroclor 1232	35	U
53469-21-9	Aroclor 1242	35	U
12672-29-6	Aroclor 1248	35	U
11097-69-1	Aroclor 1254	35	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131004 Lab File ID 310-04.D

Sample wt/vol: 33.08 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 2:57 PM

PercentSolids: 90 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 4 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	34	U
11096-82-5	Aroclor 1260	1200	EP
11104-28-2	Aroclor 1221	34	U
11141-16-5	Aroclor 1232	34	U
53469-21-9	Aroclor 1242	34	U
12672-29-6	Aroclor 1248	34	U
11097-69-1	Aroclor 1254	34	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC04S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131004DL1 Lab File ID: 310-04D.D

Sample wt/vol: 33.08 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 1:58 AM

PercentSolids: 90 decanted: Dilution Factor: 5

Extraction: SONC Station ID: Site 25 Area 4 Method: 8082

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	168	U
11096-82-5	Aroclor 1260	1550	
11104-28-2	Aroclor 1221	168	U
11141-16-5	Aroclor 1232	168	U
53469-21-9	Aroclor 1242	168	U
12672-29-6	Aroclor 1248	168	U
11097-69-1	Aroclor 1254	168	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131005 Lab File ID: 310-05.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 3:33 PM

PercentSolids: 91 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 Area 5 Method: 8082

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	33	U
11096-82-5	Aroclor 1260	33	U
11104-28-2	Aroclor 1221	33	U
11141-16-5	Aroclor 1232	33	U
53469-21-9	Aroclor 1242	33	U
12672-29-6	Aroclor 1248	33	U
11097-69-1	Aroclor 1254	33	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131006 Lab File ID 310-06.D

Sample wt/vol: 33.25 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 5:19 PM

PercentSolids: 88 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 6 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	34	U
11096-82-5	Aroclor 1260	682	P
11104-28-2	Aroclor 1221	34	U
11141-16-5	Aroclor 1232	34	U
53469-21-9	Aroclor 1242	34	U
12672-29-6	Aroclor 1248	34	U
11097-69-1	Aroclor 1254	34	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC06S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131006DL1 Lab File ID 310-06D.D

Sample wt/vol: 33.25 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 2:34 AM

PercentSolids: 88 decanted : Dilution Factor: 2

Extraction: SONC Station ID Site 25 Area 6 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	69	U
11096-82-5	Aroclor 1260	796	
11104-28-2	Aroclor 1221	69	U
11141-16-5	Aroclor 1232	69	U
53469-21-9	Aroclor 1242	69	U
12672-29-6	Aroclor 1248	69	U
11097-69-1	Aroclor 1254	69	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131007 Lab File ID 310-07.D

Sample wt/vol: 33.17 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 5:55 PM

PercentSolids: 78 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 7 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	39	U
11096-82-5	Aroclor 1260	39	U
11104-28-2	Aroclor 1221	39	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131008 Lab File ID 310-08.D

Sample wt/vol: 33.3 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 6:30 PM

PercentSolids: 93 decanted : Dilution Factor: 1

Extraction: SONC Station ID Site 25 Area 8 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	32	U
11096-82-5	Aroclor 1260	32	U
11104-28-2	Aroclor 1221	32	U
11141-16-5	Aroclor 1232	32	U
53469-21-9	Aroclor 1242	32	U
12672-29-6	Aroclor 1248	32	U
11097-69-1	Aroclor 1254	32	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131009 Lab File ID: 310-09.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 7:06 PM

PercentSolids: 84 decanted : Dilution Factor: 1

Extraction: SONC Station ID: Site 25 / PCB1 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	2810	EP
11096-82-5	Aroclor 1260	14500	E
11104-28-2	Aroclor 1221	36	U
11141-16-5	Aroclor 1232	36	U
53469-21-9	Aroclor 1242	36	U
12672-29-6	Aroclor 1248	36	U
11097-69-1	Aroclor 1254	36	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC09S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131009DL1 Lab File ID 310-09D.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 3:09 AM

PercentSolids: 84 decanted : Dilution Factor: 50

Extraction: SONC Station ID Site 25 / PCB1 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	3160	
11096-82-5	Aroclor 1260	23000	
11104-28-2	Aroclor 1221	1800	U
11141-16-5	Aroclor 1232	1800	U
53469-21-9	Aroclor 1242	1800	U
12672-29-6	Aroclor 1248	1800	U
11097-69-1	Aroclor 1254	1800	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 210131010 Lab File ID: 310-10.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 7:41 PM

PercentSolids: 88 decanted: Dilution Factor: 1

Extraction: SONC Station ID: Site 25 / PCB2 Method: 8082

GPC Cleanup: (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	35	U
11096-82-5	Aroclor 1260	2840	EP WK
11104-28-2	Aroclor 1221	35	U
11141-16-5	Aroclor 1232	35	U
53469-21-9	Aroclor 1242	35	U
12672-29-6	Aroclor 1248	35	U
11097-69-1	Aroclor 1254	35	U

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 00525WC10S0201DL1

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131010DL1 Lab File ID 310-10D.D

Sample wt/vol: 33.03 Units: G Date Received: 2/2/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/17/01 Time: 3:45 AM

PercentSolids: 88 decanted : Dilution Factor: 10

Extraction: SONC Station ID Site 25 / PCB2 Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	345	U
11096-82-5	Aroclor 1260	4320	
11104-28-2	Aroclor 1221	345	U
11141-16-5	Aroclor 1232	345	U
53469-21-9	Aroclor 1242	345	U
12672-29-6	Aroclor 1248	345	U
11097-69-1	Aroclor 1254	345	U

QC Summary

PCB ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 020701bks

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code: PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID: 020701bks Lab File ID: 7BKS.D

Sample wt/vol: 33.13 Units: G Date Received: 2/7/01

Concentrated Extract Volume: 10 Date Extracted: 2/7/01

Level:(low/med) LOW Date Analyzed: 2/9/01 Time: 8:47 AM

PercentSolids: 100 decanted : Dilution Factor: 1

Extraction: SONC Station ID: QC Method: 8082

GPC Cleanup : (Y/N) N pH:

GC Column: XTI-5 & RTX-1701 ID: 0.53 (mm)

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
12674-11-2	Aroclor 1016	30	U
11096-82-5	Aroclor 1260	30	U
11104-28-2	Aroclor 1221	30	U
11141-16-5	Aroclor 1232	30	U
53469-21-9	Aroclor 1242	30	U
12672-29-6	Aroclor 1248	30	U
11097-69-1	Aroclor 1254	30	U

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

020701BKS

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020701BKS Lab File ID: 7BKS

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 02/07/01

Date Analyzed (1): 02/09/01 Date Analyzed (2): 02/09/01

Time Analyzed (1): 0847 Time Analyzed (2): 0847

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	020701BKSMS	020701BKSMS	02/09/01	02/09/01
02	020701BKSSD	020701BKSMSD	02/09/01	02/09/01
03	020701LCSS	020701LCSS	02/09/01	02/09/01
04	00525WC01S0201	210131001	02/09/01	02/09/01
05	00525WC02S0201	210131002	02/09/01	02/09/01
06	00525WC03S0201	210131003	02/09/01	02/09/01
07	00525WC04S0201	210131004	02/09/01	02/09/01
08	00525WC05S0201	210131005	02/09/01	02/09/01
09	00525WC06S0201	210131006	02/09/01	02/09/01
10	00525WC07S0201	210131007	02/09/01	02/09/01
11	00525WC08S0201	210131008	02/09/01	02/09/01
12	00525WC09S0201	210131009	02/09/01	02/09/01
13	00525WC10S0201	210131010	02/09/01	02/09/01
14	00525WC01S0201DL	210131001DL1	02/17/01	02/17/01
15	00525WC02S0201DL	210131002DL1	02/17/01	02/17/01
16	00525WC04S0201DL	210131004DL1	02/17/01	02/17/01
17	00525WC06S0201DL	210131006DL1	02/17/01	02/17/01
18	00525WC09S0201DL	210131009DL1	02/17/01	02/17/01
19	00525WC10S0201DL	210131010DL1	02/17/01	02/17/01
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

SOIL PCB ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2101310

GC Column: XTI-5 & RTX-170 ID: 0.53

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
00525WC01S0201	81.8						0
00525WC01S0201DL1	100.6						0
00525WC02S0201	91.9						0
00525WC02S0201DL1	120.1						0
00525WC03S0201	85.8						0
00525WC04S0201	88.1						0
00525WC04S0201DL1	114.8						0
00525WC05S0201	93.7						0
00525WC06S0201	96.8						0
00525WC06S0201DL1	108.2						0
00525WC07S0201	86.6						0
00525WC08S0201	96						0
00525WC09S0201	91.4						0
00525WC09S0201DL1	118.3						0
00525WC10S0201	97.7						0
00525WC10S0201DL1	119.1						0
020701bks	91.3						0
020701bksms	93.7						0
020701bkssd	92.4						0
020701lcss	99.3						0

Control Limits

S1 = Decachlorobiphenyl 52 - 124

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) LAB

Form II

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/08/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.04

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	ZZZZZ	ZZZZZ	02/08/01	1614		
02	HEXANE	HEXANE	02/08/01	1650		
03	16606 SV1067	16606 SV1067	02/08/01	1725	24.03	
04	16605 SV1068	16605 SV1068	02/08/01	1801	24.03	
05	16604 SV1069	16604 SV1069	02/08/01	1836	24.04	
06	16603 SV1070	16603 SV1070	02/08/01	1912	24.04	
07	16602 SV1071	16602 SV1071	02/08/01	1947	24.04	
08	16601 SV1072	16601 SV1072	02/08/01	2023	24.04	
09	1221 SV1073	1221 SV1073	02/08/01	2058		
10	1232 SV1074	1232 SV1074	02/08/01	2134		
11	1242 SV1075	1242 SV1075	02/08/01	2209		
12	1248 SV1076	1248 SV1076	02/08/01	2245		
13	254 SV1077	1254 SV1077	02/08/01	2320		
14	ZZZZZ	ZZZZZ	02/08/01	2356		
15	CCV1 SV1069	CCV1 SV1069	02/09/01	0031	24.04	
16	ZZZZZ	ZZZZZ	02/09/01	0107	24.03	
17	ZZZZZ	ZZZZZ	02/09/01	0142	24.03	
18	ZZZZZ	ZZZZZ	02/09/01	0218	24.03	
19	ZZZZZ	ZZZZZ	02/09/01	0253	24.03	
20	ZZZZZ	ZZZZZ	02/09/01	0329	24.03	
21	ZZZZZ	ZZZZZ	02/09/01	0404	24.03	
22	ZZZZZ	ZZZZZ	02/09/01	0439	24.03	
23	ZZZZZ	ZZZZZ	02/09/01	0515	24.03	
24	ZZZZZ	ZZZZZ	02/09/01	0550	24.03	
25	ZZZZZ	ZZZZZ	02/09/01	0626	24.03	
26	HEXANE	HEXANE	02/09/01	0701		
27	CCV2 SV1069	CCV2 SV1069	02/09/01	0737	24.03	
28	ZZZZZ	ZZZZZ	02/09/01	0812	24.03	
29	020701BKS	020701BKS	02/09/01	0847	24.03	
30	020701BKSMS	020701BKSMS	02/09/01	0923	24.03	
31	020701BKSSD	020701BKSMSD	02/09/01	0958	24.03	
32	020701LCSS	020701LCSS	02/09/01	1227	24.03	

QC LIMITS
(+/- 0.20 MINUTES)

DCB = decachlorobiphenyl

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/08/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.04

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	00525WC01S0201	210131001	02/09/01	1302	24.03	
02	00525WC02S0201	210131002	02/09/01	1338	24.03	
03	00525WC03S0201	210131003	02/09/01	1422	24.04	
04	00525WC04S0201	210131004	02/09/01	1457	24.03	
05	00525WC05S0201	210131005	02/09/01	1533	24.03	
06	ZZZZZ	ZZZZZ	02/09/01	1608		
07	CCV3 SV1069	CCV3 SV1069	02/09/01	1644	24.03	
08	00525WC06S0201	210131006	02/09/01	1719	24.03	
09	00525WC07S0201	210131007	02/09/01	1755	24.03	
10	00525WC08S0201	210131008	02/09/01	1830	24.03	
11	00525WC09S0201	210131009	02/09/01	1906	24.03	
12	00525WC10S0201	210131010	02/09/01	1941	24.03	
13	ZZZZZ	ZZZZZ	02/09/01	2127	24.03	
14	ZZZZZ	ZZZZZ	02/09/01	2203	23.97	
15	ZZZZZ	ZZZZZ	02/09/01	2238	24.03	
16	ZZZZZ	ZZZZZ	02/09/01	2314	23.90	
17	CCV4 SV1069	CCV4 SV1069	02/09/01	2349	24.03	
18	ZZZZZ	ZZZZZ	02/10/01	0025	24.03	
19	ZZZZZ	ZZZZZ	02/10/01	0619		
20	ZZZZZ	ZZZZZ	02/10/01	0654	24.03	
21	ZZZZZ	ZZZZZ	02/10/01	0805	24.03	
22	ZZZZZ	ZZZZZ	02/10/01	0952	24.03	
23	ZZZZZ	ZZZZZ	02/10/01	1214	24.03	
24	CCV5G SV3475	CCV5G SV3475	02/10/01	1325	24.03	
25	ZZZZZ	ZZZZZ	02/10/01	1622		
26	CCV6 SV3475	CCV6 SV3475	02/10/01	1658	24.03	
27	CCV6 SV3475	CCV6 SV3475	02/10/01	1800	24.04	
28						
29						
30						
31						
32						

QC LIMITS
(+/- 0.20 MINUTES)

DCB = decachlorobiphenyl

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/08/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.89

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	ZZZZZ	ZZZZZ	02/08/01	1614		
02	HEXANE	HEXANE	02/08/01	1650		
03	16606 SV1067	16606 SV1067	02/08/01	1725	24.89	
04	16605 SV1068	16605 SV1068	02/08/01	1801	24.89	
05	16604 SV1069	16604 SV1069	02/08/01	1836	24.90	
06	16603 SV1070	16603 SV1070	02/08/01	1912	24.90	
07	16602 SV1071	16602 SV1071	02/08/01	1947	24.90	
08	16601 SV1072	16601 SV1072	02/08/01	2023	24.90	
09	1221 SV1073	1221 SV1073	02/08/01	2058		
10	1232 SV1074	1232 SV1074	02/08/01	2134		
11	1242 SV1075	1242 SV1075	02/08/01	2209		
12	1248 SV1076	1248 SV1076	02/08/01	2245		
13	254 SV1077	1254 SV1077	02/08/01	2320		
14	ZZZZZ	ZZZZZ	02/08/01	2356		
15	CCV1 SV1069	CCV1 SV1069	02/09/01	0031	24.89	
16	ZZZZZ	ZZZZZ	02/09/01	0107	24.89	
17	ZZZZZ	ZZZZZ	02/09/01	0142	24.89	
18	ZZZZZ	ZZZZZ	02/09/01	0218	24.89	
19	ZZZZZ	ZZZZZ	02/09/01	0253	24.89	
20	ZZZZZ	ZZZZZ	02/09/01	0329	24.89	
21	ZZZZZ	ZZZZZ	02/09/01	0404	24.89	
22	ZZZZZ	ZZZZZ	02/09/01	0439	24.89	
23	ZZZZZ	ZZZZZ	02/09/01	0515	24.89	
24	ZZZZZ	ZZZZZ	02/09/01	0550	24.89	
25	ZZZZZ	ZZZZZ	02/09/01	0626	24.88	
26	HEXANE	HEXANE	02/09/01	0701		
27	CCV2 SV1069	CCV2 SV1069	02/09/01	0737	24.89	
28	ZZZZZ	ZZZZZ	02/09/01	0812	24.89	
29	020701BKS	020701BKS	02/09/01	0847	24.89	
30	020701BKSMS	020701BKSMS	02/09/01	0923	24.89	
31	020701BKSSD	020701BKSMSD	02/09/01	0958	24.89	
32	020701LCSS	020701LCSS	02/09/01	1227	24.89	

QC LIMITS
DCB = decachlorobiphenyl (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/08/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.89

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	00525WC01S0201	210131001	02/09/01	1302	24.89	
02	00525WC02S0201	210131002	02/09/01	1338	24.89	
03	00525WC03S0201	210131003	02/09/01	1422	24.89	
04	00525WC04S0201	210131004	02/09/01	1457	24.89	
05	00525WC05S0201	210131005	02/09/01	1533	24.89	
06	ZZZZZ	ZZZZZ	02/09/01	1608		
07	CCV3 SV1069	CCV3 SV1069	02/09/01	1644	24.89	
08	00525WC06S0201	210131006	02/09/01	1719	24.89	
09	00525WC07S0201	210131007	02/09/01	1755	24.89	
10	00525WC08S0201	210131008	02/09/01	1830	24.89	
11	00525WC09S0201	210131009	02/09/01	1906	24.89	
12	00525WC10S0201	210131010	02/09/01	1941	24.89	
13	ZZZZZ	ZZZZZ	02/09/01	2127	24.89	
14	ZZZZZ	ZZZZZ	02/09/01	2203	24.87	
15	ZZZZZ	ZZZZZ	02/09/01	2238	24.87	
16	ZZZZZ	ZZZZZ	02/09/01	2314	24.74	
17	CCV4 SV1069	CCV4 SV1069	02/09/01	2349	24.89	
18	ZZZZZ	ZZZZZ	02/10/01	0025	24.89	
19	ZZZZZ	ZZZZZ	02/10/01	0619		
20	ZZZZZ	ZZZZZ	02/10/01	0654	24.89	
21	ZZZZZ	ZZZZZ	02/10/01	0805	24.89	
22	ZZZZZ	ZZZZZ	02/10/01	0952	24.89	
23	ZZZZZ	ZZZZZ	02/10/01	1214	24.89	
24	CCV5G SV3475	CCV5G SV3475	02/10/01	1325	24.89	
25	ZZZZZ	ZZZZZ	02/10/01	1622		
26	CCV6 SV3475	CCV6 SV3475	02/10/01	1658	24.89	
27	CCV6 SV3475	CCV6 SV3475	02/10/01	1800	24.89	
28						
29						
30						
31						
32						

QC LIMITS
(+/- 0.20 MINUTES)

DCB = decachlorobiphenyl

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: XTI-5 ID: 0.53 (mm) Init. Calib. Date: 02/16/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.03

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	16606	16606	02/16/01	1407	24.03	
02	16605	16605	02/16/01	1442	24.03	
03	16604	16604	02/16/01	1555	24.03	
04	16603	16603	02/16/01	1630	24.03	
05	16602	16602	02/16/01	1706	24.03	
06	16601	16601	02/16/01	1741	24.03	
07	1221	1221	02/16/01	1817		
08	1232	1232	02/16/01	1852		
09	1242	1242	02/16/01	1928		
10	1248	1248	02/16/01	2003		
11	1254	1254	02/16/01	2039		
12	16604CCV1	16604CCV1	02/16/01	2150	24.03	
13	ZZZZZ	ZZZZZ	02/16/01	2225	24.03	
14	ZZZZZ	ZZZZZ	02/16/01	2301	24.03	
15	ZZZZZ	ZZZZZ	02/16/01	2336	24.03	
16	ZZZZZ	ZZZZZ	02/17/01	0012	24.03	
17	00525WC01S0201DL	210131001DL1	02/17/01	0047	24.03	
18	00525WC02S0201DL	210131002DL1	02/17/01	0123	24.03	
19	00525WC04S0201DL	210131004DL1	02/17/01	0158	24.03	
20	00525WC06S0201DL	210131006DL1	02/17/01	0234	24.03	
21	00525WC09S0201DL	210131009DL1	02/17/01	0309	24.03	
22	00525WC10S0201DL	210131010DL1	02/17/01	0345	24.03	
23	16604CCV2	16604CCV2	02/17/01	0455	24.03	
24	ZZZZZ	ZZZZZ	02/17/01	0531	24.02	
25	ZZZZZ	ZZZZZ	02/17/01	0606	24.03	
26	16604CCV3	16604CCV3	02/17/01	1113	24.03	
27						
28						
29						
30						
31						
32						

QC LIMITS
(+/- 0.20 MINUTES)

DCB = decachlorobiphenyl

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date: 02/16/01

Instrument ID: SECD02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 24.88

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	RT #
01	16606	16606	02/16/01	1407	24.88	
02	16605	16605	02/16/01	1442	24.88	
03	16604	16604	02/16/01	1555	24.88	
04	16603	16603	02/16/01	1630	24.88	
05	16602	16602	02/16/01	1706	24.89	
06	16601	16601	02/16/01	1741	24.89	
07	1221	1221	02/16/01	1817		
08	1232	1232	02/16/01	1852		
09	1242	1242	02/16/01	1928		
10	1248	1248	02/16/01	2003		
11	1254	1254	02/16/01	2039		
12	16604CCV1	16604CCV1	02/16/01	2150	24.88	
13	ZZZZZ	ZZZZZ	02/16/01	2225	24.88	
14	ZZZZZ	ZZZZZ	02/16/01	2301	24.88	
15	ZZZZZ	ZZZZZ	02/16/01	2336	24.88	
16	ZZZZZ	ZZZZZ	02/17/01	0012	24.88	
17	00525WC01S0201DL	210131001DL1	02/17/01	0047	24.88	
18	00525WC02S0201DL	210131002DL1	02/17/01	0123	24.88	
19	00525WC04S0201DL	210131004DL1	02/17/01	0158	24.88	
20	00525WC06S0201DL	210131006DL1	02/17/01	0234	24.88	
21	00525WC09S0201DL	210131009DL1	02/17/01	0309	24.88	
22	00525WC10S0201DL	210131010DL1	02/17/01	0345	24.88	
23	16604CCV2	16604CCV2	02/17/01	0455	24.88	
24	ZZZZZ	ZZZZZ	02/17/01	0531	24.88	
25	ZZZZZ	ZZZZZ	02/17/01	0606	24.88	
26	16604CCV3	16604CCV3	02/17/01	1113	24.88	
27						
28						
29						
30						
31						
32						

QC LIMITS
(+/- 0.20 MINUTES)

DCB = decachlorobiphenyl

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC01S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	*	1	17.000	17.000	0.000	22753665	54.665	18600.00	
		2	17.000	17.000	0.000	47212758	59.349	20200.00	8.60
decachlorobiphenyl	*	1	24.030	24.040	0.010	105705	0.082	27.800	
		2	24.890	24.890	0.000	216809	0.094	32.100	15.47

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC0
1S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131001DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	742415	1.929	32800.00	
	* 2	17.000	17.000	0.000	1635794	1.782	30300.00	8.25
decachlorobiphenyl	* 1	24.030	24.027	0.003	2078	0.002	34.200	
	2	24.883	24.880	0.003	4940	0.002	39.300	14.91

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC02S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131002 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	*	1	17.000	17.000	0.000	1915378	4.684	1610.000	
		2	17.000	17.000	0.000	4287786	5.353	1840.000	14.28
decachlorobiphenyl	*	1	24.030	24.040	0.010	118634	0.092	31.600	
		2	24.890	24.890	0.000	245129	0.107	36.800	16.46

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC0
2S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131002DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	607113	1.521	2610.000	
	* 2	17.000	17.000	0.000	1216723	1.386	2380.000	9.66
decachlorobiphenyl	* 1	24.027	24.027	0.000	24798	0.024	41.300	
	2	24.880	24.880	0.000	62720	0.029	50.600	22.52

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC03S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131003 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
decachlorobiphenyl *	1	24.037	24.040	0.003	110860	0.086	29.600	
	2	24.890	24.890	0.000	204835	0.089	30.800	4.05

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC04S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	2128860	5.354	1800.000	
	* 2	17.000	17.000	0.000	2897295	3.563	1200.000	50.00
decachlorobiphenyl	* 1	24.033	24.040	0.007	113769	0.088	29.700	
	2	24.890	24.890	0.000	210654	0.092	30.900	4.04

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC0
4S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131004DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	411606	0.992	1670.000	
	* 2	17.000	17.000	0.000	832395	0.918	1550.000	7.74
decachlorobiphenyl	* 1	24.027	24.027	0.000	23739	0.023	38.700	
	2	24.880	24.880	0.000	54738	0.026	43.200	11.63

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC05S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131005 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
decachlorobiphenyl *	1	24.033	24.040	0.007	120946	0.094	31.300	
	2	24.890	24.890	0.000	214774	0.094	31.300	0.00

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC06S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131006 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	1327429	2.705	928.000	
	* 2	17.000	17.000	0.000	1436342	1.989	682.000	36.07
decachlorobiphenyl	* 1	24.033	24.040	0.007	124745	0.097	33.200	
	2	24.890	24.890	0.000	242098	0.106	36.200	9.04

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC0
6S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131006DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	500926	1.438	986.000	
	* 2	17.000	17.000	0.000	984701	1.160	796.000	23.87
decachlorobiphenyl	* 1	24.027	24.027	0.000	55873	0.054	37.100	
	2	24.880	24.880	0.000	122087	0.057	39.300	5.93

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC07S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131007 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
decachlorobiphenyl *	1	24.033	24.040	0.007	111697	0.086	33.500	
	2	24.890	24.890	0.000	222040	0.097	37.500	11.94

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC08S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131008 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
decachlorobiphenyl *	1	24.033	24.040	0.007	123787	0.096	31.100	
	2	24.890	24.890	0.000	226350	0.099	32.000	2.89

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC09S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131009 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1016 Total	1	8.000	8.000	0.000	2257482	12.958	4660.000	
	* 2	8.000	8.000	0.000	4431443	7.815	2810.000	65.84
PCB 1260 Total	1	17.000	17.000	0.000	19704330	45.850	16500.00	
	* 2	17.000	17.000	0.000	32727994	40.380	14500.00	13.79
decachlorobiphenyl	* 1	24.033	24.040	0.007	117935	0.091	32.900	
	2	24.890	24.890	0.000	245297	0.107	38.500	17.02

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC0
9S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131009DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1016 Total	1	8.000	8.000	0.000	37390	0.189	3400.000	
	* 2	8.000	8.000	0.000	95960	0.175	3160.000	7.59
PCB 1260 Total	1	17.000	17.000	0.000	550510	1.378	24800.00	
	* 2	17.000	17.000	0.000	1125549	1.276	23000.00	7.83
decachlorobiphenyl	* 1	24.027	24.027	0.000	2444	0.002	42.600	
	2	24.883	24.880	0.003	8011	0.004	67.600	58.68

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC10S0201

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010 Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	6798187	13.668	4720.000	
	* 2	17:000	17.000	0.000	5917644	8.209	2840.000	66.20
decachlorobiphenyl	1	24.033	24.040	0.007	133418	0.103	35.700	
	* 2	24.890	24.890	0.000	223695	0.098	33.700	5.93

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

00525WC1
0S0201DL1

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 210131010DL1 Date(s) Analyzed: 02/17/01 02/17/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1260 Total	1	17.000	17.000	0.000	432404	1.339	4630.000	
	* 2	17.000	17.000	0.000	1066554	1.251	4320.000	7.18
decachlorobiphenyl	* 1	24.027	24.027	0.000	12270	0.012	41.100	
	2	24.880	24.880	0.000	29475	0.014	47.700	16.06

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

020701BKS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020701BKS Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND	COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
decachlorobiphenyl *	1	24.030	24.040	0.010	117871	0.091	27.600	
	2	24.887	24.890	0.003	215049	0.094	28.300	2.54

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

020701BKSMS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020701BKSMS Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1016 Total	*	1	8.000	8.000	0.000	209179	0.845	254.000	
		2	8.000	8.000	0.000	606306	0.914	274.000	7.87
PCB 1260 Total	*	1	17.000	17.000	0.000	462783	1.115	335.000	
		2	17.000	17.000	0.000	930574	1.130	339.000	1.19
decachlorobiphenyl	*	1	24.027	24.040	0.013	120980	0.094	28.100	
		2	24.887	24.890	0.003	226154	0.099	29.600	5.34

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

020701BKSSD

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020701BKSMSD Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1016 Total	*	1	8.000	8.000	0.000	215408	0.858	258.000	
		2	8:000	8.000	0.000	617547	0.923	278.000	7.75
PCB 1260 Total	*	1	17.000	17.000	0.000	460671	1.096	330.000	
		2	17.000	17.000	0.000	925385	1.124	339.000	2.73
decachlorobiphenyl	*	1	24.027	24.040	0.013	118873	0.092	27.800	
		2	24.887	24.890	0.003	222020	0.097	29.200	5.04

* Column used for quantitation

CLIENT SAMPLE NO.

PCB DUAL COLUMN CONFIRMATION CHECK

020701LCSS

Lab Name: PEL Laboratories Inc. Contract: Cecil Field

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Lab Sample ID: 020701LCSS Date(s) Analyzed: 02/09/01 02/09/01

Instrument ID (1): SECD02 Instrument ID (2): SECD02

GC Column(1): XTI-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

COMPOUND		COL	RT	EXP RT	DIFF	AREA	AMOUNT	CONC	%D
PCB 1016 Total	*	1	8.000	8.000	0.000	208078	0.840	253.000	
		2	8.000	8.000	0.000	594282	0.889	268.000	5.93
PCB 1260 Total	*	1	17.000	17.000	0.000	500957	1.192	359.000	
		2	17.000	17.000	0.000	1028421	1.203	363.000	1.11
decachlorobiphenyl	*	1	24.027	24.040	0.013	128301	0.099	30.000	
		2	24.887	24.890	0.003	236847	0.103	31.100	3.67

* Column used for quantitation

PCB ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 020701lcss

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	QC LIMITS REC.
Aroclor 1016	302	253	83.8	36 - 100
Aroclor 1260	302	359	118.9	27 - 124

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PCB ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 020701lcss

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	LCS CONCENTRATION ug/Kg	LCS % REC #	QC LIMITS REC.
Aroclor 1016	302	253	83.8	36 - 100
Aroclor 1260	302	359	118.9	27 - 124

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

PCB ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: 020701bkssd

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

COMPOUND	SPIKE ADDED ug/Kg	MSD CONCENTRATION ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	301	258	85.7	1.6	36	36 - 100
Aroclor 1260	301	330	109.6	1.5	22	27 - 124

RPD 0 out of 2 outside limits

Spike Recovery: 0 out of 2 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) LAB

COMMENTS: _____

Form III

Standards Data

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/08/01 02/08/01

Calibration Time(s): 1725 2023

LAB FILE ID: RRF0.01=16601 RRF0.02=16602
RRF0.1=16603 RRF0.2=16604 RRF0.4=16605

COMPOUND	RRF 0.01	RRF 0.02	RRF0.1	RRF0.2	RRF0.4	$\overline{RRF}$	% RSD
1260-1		70200	61090	56690	53295		
1260-2		76300	69650	66280	64055		
1260-3		52450	56090	55715	57800		
1260-4		82200	77050	77270	79845		
1260-5		46600	44340	43865	46538		
1016-1		210400	198110	191180	185030		
1016-2		65550	54440	49970	46885		
1016-3		64850	56170	52615	50653		
1016-4		47650	39480	35475	32433		
1016-5		31750	28950	27435	25638		
PCB 1016 Total		84040	75430	71335	68128		
PCB 1260 Total		65550	61644	59964	60307		
decachlorobiphenyl		2e+006	1e+006	1e+006	1e+006		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/08/01 02/08/01

Calibration Time(s): 1725 2023

LAB FILE ID: RRF0.5=16606

COMPOUND	RRF0.5					RRF	% RSD
1260-1	52688					58793	12.2
1260-2	63072					67871	7.9
1260-3	57522					55915	3.8
1260-4	79674					79208	2.7
1260-5	46942					45657	3.1
1016-1	181740					193292	5.9
1016-2	45820					52533	15.2
1016-3	49788					54815	11.2
1016-4	31602					37328	17.5
1016-5	25152					27785	9.6
PCB 1016 Total	66820					73151	9.5
PCB 1260 Total	59980					61489	3.9
decachlorobiphenyl	1e+006					1e+006	13.3

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/08/01 02/08/01

Calibration Time(s): 1725 2023

LAB FILE ID: RRF0.01=16601 RRF0.02=16602
RRF0.1=16603 RRF0.2=16604 RRF0.4=16605

COMPOUND	RRF 0.01	RRF 0.02	RRF0.1	RRF0.2	RRF0.4	$\overline{RRF}$	% RSD
1260-1		129000	108010	96985	87678		
1260-2		120400	109200	101475	94215		
1260-3		110950	98790	90385	83058		
1260-4		232500	207440	194285	186378		
1260-5		153400	137390	127540	119218		
1016-1		453750	384870	353525	329045		
1016-2		84600	72480	66360	60510		
1016-3		249250	216370	200905	188243		
1016-4		96450	80780	73155	65868		
1016-5		66050	62130	59520	55590		
PCB 1016 Total		190020	163326	150693	139851		
PCB 1260 Total		149250	132166	122134	114109		
decachlorobiphenyl		3e+006	2e+006	2e+006	2e+006		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/08/01 02/08/01

Calibration Time(s): 1725 2023

LAB FILE ID: RRF0.5=16606

COMPOUND	RRF0.5					$\overline{RRF}$	% RSD
1260-1	85082					101351	17.6
1260-2	92056					103469	11.2
1260-3	80574					92751	13.4
1260-4	183122					200745	10.0
1260-5	116132					130736	11.6
1016-1	321226					368483	14.6
1016-2	59042					68598	15.2
1016-3	184656					207885	12.6
1016-4	63846					76020	17.4
1016-5	54662					59590	7.9
PCB 1016 Total	136686					156115	13.9
PCB 1260 Total	111393					125810	12.2
decachlorobiphenyl	2e+006					2e+006	18.5

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/16/01 02/16/01

Calibration Time(s): 1407 1741

LAB FILE ID: RRF0.01=16601 RRF0.02=16602
RRF0.1=16603 RRF0.2=16604RE RRF0.4=16605

COMPOUND	RRF 0.01	RRF 0.02	RRF0.1	RRF0.2	RRF0.4	$\overline{RRF}$	% RSD
1260-1		54600	52800	49885	47713		
1260-2		65150	64020	61335	59233		
1260-3		49900	51850	51200	51285		
1260-4		88350	91150	91645	91095		
1260-5		47650	48660	49455	50178		
1016-1		39950	37920	35145	33418		
1016-2		44550	43420	40780	39635		
1016-3		105700	102310	96845	93333		
1016-4		50050	49490	46945	45343		
1016-5		29700	30110	29225	29118		
PCB 1016 Total		53990	52650	49788	48169		
PCB 1260 Total		61130	61696	60704	59901		
decachlorobiphenyl		1e+006	1e+006	1e+006	1e+006		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/16/01 02/16/01

Calibration Time(s): 1407 1741

LAB FILE ID: RRF0.5=16606

COMPOUND	RRF0.5					$\overline{RRF}$	% RSD
1260-1	46010					50202	7.0
1260-2	57660					61480	5.1
1260-3	50766					51000	1.4
1260-4	90512					90550	1.4
1260-5	49866					49162	2.1
1016-1	32196					35726	8.9
1016-2	38322					41341	6.3
1016-3	90310					97700	6.5
1016-4	43886					47143	5.6
1016-5	28634					29357	1.9
PCB 1016 Total	46670					50253	6.1
PCB 1260 Total	58963					60479	1.8
decachlorobiphenyl	1e+006					1e+006	2.0

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6B

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/16/01 02/16/01

Calibration Time(s): 1407 1741

LAB FILE ID: RRF0.01=16601 RRF0.02=16602
RRF0.1=16603 RRF0.2=16604RE RRF0.4=16605

COMPOUND	RRF 0.01	RRF 0.02	RRF0.1	RRF0.2	RRF0.4	$\overline{RRF}$	% RSD
1260-1		115300	106240	96465	89208		
1260-2		127650	117210	107270	99220		
1260-3		120250	113360	100750	97273		
1260-4		289550	272610	244850	237388		
1260-5		167950	159350	147045	139980		
1016-1		76200	70370	63925	60013		
1016-2		145700	131970	117740	108813		
1016-3		260050	232570	209675	194270		
1016-4		91000	85170	78090	73318		
1016-5		87900	80890	73775	68825		
PCB 1016 Total		132170	120194	108641	101048		
PCB 1260 Total		164140	153754	139276	132614		
decachlorobiphenyl		2e+006	2e+006	2e+006	2e+006		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

PESTICIDE ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date(s): 02/16/01 02/16/01

Calibration Time(s): 1407 1741

LAB FILE ID: RRF0.5=16606

COMPOUND	RRF0.5						RRF	% RSD
1260-1	85114						98465	12.6
1260-2	95180						109306	12.1
1260-3	93670						105061	10.7
1260-4	230074						254894	9.9
1260-5	134926						149850	9.1
1016-1	57200						65542	11.8
1016-2	103188						121482	14.3
1016-3	186024						216518	13.9
1016-4	70052						79526	10.8
1016-5	65630						75404	12.0
PCB 1016 Total	96419						111694	13.0
PCB 1260 Total	127793						143515	10.5
decachlorobiphenyl	2e+006						2e+006	10.6

* Compounds with required minimum RRF and maximim %RSD values. All other compounds must meet a minimim RRF of 0.010.

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/08/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 2023

LAB FILE ID: RT1: 16601 RT2: 16602 RT3: 16603
RT4: 16604 RT5: 16605

COMPOUND	RT1	RT2	RT3	RT4	RT5
1260-1	13.660	13.657	13.650	13.663	13.647
1260-2	14.623	14.617	14.593	14.590	14.580
1260-3	15.667	15.657	15.627	15.617	15.610
1260-4	18.633	18.630	18.610	18.593	18.590
1260-5	19.597	19.593	19.577	19.550	19.557
1016-1	4.800	4.800	4.800	4.817	4.800
1016-2	7.090	7.090	7.090	7.107	7.087
1016-3	8.050	8.050	8.047	8.060	8.043
1016-4	8.737	8.737	8.737	8.750	8.733
1016-5	10.710	10.713	10.710	10.723	10.707
decachlorobiphenyl	24.043	24.043	24.040	24.040	24.033

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/08/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 2023

RT6: 16606

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
1260-1	13.647	13.654	13.463	13.863
1260-2	14.580	14.597	14.390	14.790
1260-3	15.607	15.631	15.417	15.817
1260-4	18.590	18.608	18.393	18.793
1260-5	19.553	19.571	19.350	19.750
1016-1	4.800	4.803	4.617	5.017
1016-2	7.087	7.092	6.907	7.307
1016-3	8.043	8.049	7.860	8.260
1016-4	8.733	8.738	8.550	8.950
1016-5	10.707	10.712	10.523	10.923
decachlorobiphenyl	24.033	24.039	23.840	24.240

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/08/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 2023

LAB FILE ID: RT1: 16601 RT2: 16602 RT3: 16603
RT4: 16604 RT5: 16605

COMPOUND	RT1	RT2	RT3	RT4	RT5
1260-1	15.420	15.420	15.413	15.403	15.410
1260-2	16.423	16.417	16.400	16.377	16.387
1260-3	19.317	19.313	19.307	19.293	19.300
1260-4	20.217	20.213	20.200	20.180	20.190
1260-5	21.323	21.323	21.310	21.280	21.293
1016-1	5.253	5.253	5.250	5.250	5.250
1016-2	6.693	6.693	6.693	6.683	6.687
1016-3	9.060	9.060	9.053	9.043	9.047
1016-4	10.217	10.217	10.217	10.207	10.210
1016-5	11.340	11.343	11.340	11.330	11.337
decachlorobiphenyl	24.900	24.900	24.897	24.890	24.893

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/08/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 2023

RT6: 16606

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
1260-1	15.410	15.413	15.203	15.603
1260-2	16.383	16.398	16.177	16.577
1260-3	19.300	19.305	19.093	19.493
1260-4	20.190	20.198	19.980	20.380
1260-5	21.293	21.304	21.080	21.480
1016-1	5.250	5.251	5.050	5.450
1016-2	6.687	6.689	6.483	6.883
1016-3	9.047	9.052	8.843	9.243
1016-4	10.210	10.213	10.007	10.407
1016-5	11.337	11.338	11.130	11.530
decachlorobiphenyl	24.893	24.895	24.690	25.090

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1741

LAB FILE ID: RT1: 16601 RT2: 16602 RT3: 16603
RT4: 16604RE RT5: 16605

COMPOUND	RT1	RT2	RT3	RT4	RT5
1260-1	13.643	13.643	13.643	13.640	13.643
1260-2	14.577	14.577	14.577	14.570	14.573
1260-3	15.607	15.607	15.603	15.597	15.600
1260-4	18.590	18.590	18.587	18.580	18.583
1260-5	19.550	19.550	19.547	19.543	19.543
1016-1	5.633	5.633	5.633	5.627	5.633
1016-2	7.087	7.087	7.087	7.083	7.087
1016-3	7.777	7.777	7.777	7.773	7.777
1016-4	8.040	8.043	8.043	8.037	8.040
1016-5		9.693	9.693	9.690	9.693
decachlorobiphenyl	24.033	24.033	24.030	24.027	24.030

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01

Column: XTI-5 ID: 0.53 (mm) Calibration Time: 1741

RT6: 16606

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
1260-1	13.643	13.643	13.440	13.840
1260-2	14.573	14.575	14.370	14.770
1260-3	15.600	15.602	15.397	15.797
1260-4	18.580	18.585	18.380	18.780
1260-5	19.540	19.546	19.343	19.743
1016-1	5.633	5.632	5.427	5.827
1016-2	7.087	7.086	6.883	7.283
1016-3	7.777	7.776	7.573	7.973
1016-4	8.040	8.041	7.837	8.237
1016-5	9.693	9.693	9.490	9.890
decachlorobiphenyl	24.030	24.031	23.827	24.227

COMMENTS: _____

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1741

LAB FILE ID: RT1: 16601 RT2: 16602 RT3: 16603
RT4: 16604RE RT5: 16605

COMPOUND	RT1	RT2	RT3	RT4	RT5
1260-1	15.393	15.397	15.397	15.387	15.397
1260-2	16.367	16.370	16.370	16.360	16.367
1260-3	19.290	19.290	19.287	19.280	19.287
1260-4	20.180	20.180	20.177	20.170	20.173
1260-5	21.283	21.280	21.277	21.270	21.277
1016-1	6.680	6.680	6.680	6.680	6.680
1016-2	7.753	7.753	7.753	7.750	7.753
1016-3	9.040	9.040	9.040	9.037	9.037
1016-4	9.460	9.460	9.460	9.457	9.460
1016-5	11.000	11.003	11.000	10.997	11.000
decachlorobiphenyl	24.887	24.887	24.883	24.880	24.883

COMMENTS:

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01

Column: RTX-1701 ID: 0.53 (mm) Calibration Time: 1741

RT6: 16606

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
1260-1	15.393	15.394	15.187	15.587
1260-2	16.367	16.367	16.160	16.560
1260-3	19.287	19.287	19.080	19.480
1260-4	20.173	20.176	19.970	20.370
1260-5	21.273	21.277	21.070	21.470
1016-1	6.680	6.680	6.480	6.880
1016-2	7.753	7.753	7.550	7.950
1016-3	9.037	9.038	8.837	9.237
1016-4	9.457	9.459	9.257	9.657
1016-5	11.000	11.000	10.797	11.197
decachlorobiphenyl	24.883	24.884	24.680	25.080

COMMENTS:

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 0737

Lab File ID: CCV2 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	58792.600	58880.000	N/A	0.1	15.0
1260-2	67871.400	70945.000	N/A	4.5	15.0
1260-3	55915.400	63470.000	N/A	13.5	15.0
1260-4	79207.800	85975.000	N/A	8.5	15.0
1260-5	45656.900	50040.000	N/A	9.6	15.0
1016-1	193292.00	191215.00	N/A	1.1	15.0
1016-2	52533.000	50555.000	N/A	3.8	15.0
1016-3	54815.100	55545.000	N/A	1.3	15.0
1016-4	37327.900	36205.000	N/A	3.0	15.0
1016-5	27784.900	27825.000	N/A	0.1	15.0
PCB 1016 Total	73150.580	72269.000	N/A	1.2	15.0
PCB 1260 Total	61488.820	65862.000	N/A	7.1	15.0
decachlorobiphenyl	1290823.6	1182650.0	N/A	8.4	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 0737

Lab File ID: CCV2 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	101350.90	105615.00	N/A	4.2	15.0
1260-2	103469.20	114670.00	N/A	10.8	15.0
1260-3	92751.300	96550.000	N/A	4.1	15.0
1260-4	200744.90	218230.00	N/A	8.7	15.0
1260-5	130735.90	137750.00	N/A	5.4	15.0
1016-1	368483.20	377810.00	N/A	2.5	15.0
1016-2	68598.400	71445.000	N/A	4.1	15.0
1016-3	207884.70	225785.00	N/A	8.6	15.0
1016-4	76019.700	77845.000	N/A	2.4	15.0
1016-5	59590.400	63665.000	N/A	6.8	15.0
PCB 1016 Total	156115.28	163310.00	N/A	4.6	15.0
PCB 1260 Total	125810.44	134563.00	N/A	7.0	15.0
decachlorobiphenyl	2293478.8	2273890.0	N/A	0.8	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 1644

Lab File ID: CCV3 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D	
1260-1	58792.600	62785.000	N/A	6.8	15.0	
1260-2	67871.400	75050.000	N/A	10.6	15.0	
1260-3	55915.400	67705.000	N/A	21.1	15.0	<-
1260-4	79207.800	91570.000	N/A	15.6	15.0	<-
1260-5	45656.900	50100.000	N/A	9.7	15.0	
1016-1	193292.00	206295.00	N/A	6.7	15.0	
1016-2	52533.000	54435.000	N/A	3.6	15.0	
1016-3	54815.100	61310.000	N/A	11.8	15.0	
1016-4	37327.900	39340.000	N/A	5.4	15.0	
1016-5	27784.900	30060.000	N/A	8.2	15.0	
PCB 1016 Total	73150.580	78288.000	N/A	7.0	15.0	
PCB 1260 Total	61488.820	69442.000	N/A	12.9	15.0	
decachlorobiphenyl	1290823.6	1238750.0	N/A	4.0	15.0	

Average Used: 9.50443

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 1644

Lab File ID: CCV3 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D	
1260-1	101350.90	112070.00	N/A	10.6	15.0	
1260-2	103469.20	123490.00	N/A	19.3	15.0	<- LK
1260-3	92751.300	101310.00	N/A	9.2	15.0	
1260-4	200744.90	221475.00	N/A	10.3	15.0	
1260-5	130735.90	144330.00	N/A	10.4	15.0	
1016-1	368483.20	399850.00	N/A	8.5	15.0	
1016-2	68598.400	75160.000	N/A	9.6	15.0	
1016-3	207884.70	234065.00	N/A	12.6	15.0	
1016-4	76019.700	83210.000	N/A	9.4	15.0	
1016-5	59590.400	64485.000	N/A	8.2	15.0	
PCB 1016 Total	156115.28	171354.00	N/A	9.8	15.0	
PCB 1260 Total	125810.44	140535.00	N/A	11.7	15.0	
decachlorobiphenyl	2293478.8	2307080.0	N/A	0.6	15.0	

Average Used: 10.0215

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 2349

Lab File ID: CCV4 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D	
1260-1	58792.600	58690.000	N/A	0.2	15.0	
1260-2	67871.400	71460.000	N/A	5.3	15.0	
1260-3	55915.400	66265.000	N/A	18.5	15.0	<-wt
1260-4	79207.800	87270.000	N/A	10.2	15.0	
1260-5	45656.900	50960.000	N/A	11.6	15.0	
1016-1	193292.00	194635.00	N/A	0.7	15.0	
1016-2	52533.000	50890.000	N/A	3.1	15.0	
1016-3	54815.100	58455.000	N/A	6.6	15.0	
1016-4	37327.900	36400.000	N/A	2.5	15.0	
1016-5	27784.900	27540.000	N/A	0.9	15.0	
PCB 1016 Total	73150.580	73584.000	N/A	0.6	15.0	
PCB 1260 Total	61488.820	66929.000	N/A	8.8	15.0	
decachlorobiphenyl	1290823.6	1336400.0	N/A	3.5	15.0	

Average Used: 5.58197

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/09/01 Time: 2349

Lab File ID: CCV4 Init. Calib. Date: 02/08/01

Init. Calib. Time: 2023

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D	
1260-1	101350.90	106300.00	N/A	4.9	15.0	
1260-2	103469.20	117930.00	N/A	14.0	15.0	
1260-3	92751.300	97120.000	N/A	4.7	15.0	
1260-4	200744.90	225975.00	N/A	12.6	15.0	
1260-5	130735.90	134605.00	N/A	3.0	15.0	
1016-1	368483.20	403780.00	N/A	9.6	15.0	
1016-2	68598.400	78290.000	N/A	14.1	15.0	
1016-3	207884.70	251585.00	N/A	21.0	15.0	<-LW
1016-4	76019.700	80810.000	N/A	6.3	15.0	
1016-5	59590.400	67050.000	N/A	12.5	15.0	
PCB 1016 Total	156115.28	176303.00	N/A	12.9	15.0	
PCB 1260 Total	125810.44	136386.00	N/A	8.4	15.0	
decachlorobiphenyl	2293478.8	2115690.0	N/A	7.8	15.0	

Average Used: 10.1534

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01 Time: 2150

Lab File ID: CCV1 Init. Calib. Date: 02/16/01

Init. Calib. Time: 1741

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	50201.500	52205.000	N/A	4.0	15.0
1260-2	61479.500	62385.000	N/A	1.5	15.0
1260-3	51000.200	51045.000	N/A	0.1	15.0
1260-4	90550.400	87515.000	N/A	3.4	15.0
1260-5	49161.700	47115.000	N/A	4.2	15.0
1016-1	35725.700	37610.000	N/A	5.3	15.0
1016-2	41341.400	43290.000	N/A	4.7	15.0
1016-3	97699.500	96690.000	N/A	1.0	15.0
1016-4	47142.700	48065.000	N/A	2.0	15.0
1016-5	29357.300	30175.000	N/A	2.8	15.0
PCB 1016 Total	50253.320	51166.000	N/A	1.8	15.0
PCB 1260 Total	60478.660	60053.000	N/A	0.7	15.0
decachlorobiphenyl	1032126.2	977100.00	N/A	5.3	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/16/01 Time: 2150

Lab File ID: CCV1 Init. Calib. Date: 02/16/01

Init. Calib. Time: 1741

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	98465.300	104475.00	N/A	6.1	15.0
1260-2	109306.00	113775.00	N/A	4.1	15.0
1260-3	105060.50	110025.00	N/A	4.7	15.0
1260-4	254894.30	253220.00	N/A	0.6	15.0
1260-5	149850.20	153480.00	N/A	2.4	15.0
1016-1	65541.500	68685.000	N/A	4.8	15.0
1016-2	121482.10	126095.00	N/A	3.8	15.0
1016-3	216517.80	212195.00	N/A	2.0	15.0
1016-4	79525.900	82485.000	N/A	3.7	15.0
1016-5	75404.000	80205.000	N/A	6.4	15.0
PCB 1016 Total	111694.26	113933.00	N/A	2.0	15.0
PCB 1260 Total	143515.26	146995.00	N/A	2.4	15.0
decachlorobiphenyl	2133236.8	2247710.0	N/A	5.4	15.0

FORM VII SV-1

7B
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/17/01 Time: 0455

Lab File ID: CCV2 Init. Calib. Date: 02/16/01

Init. Calib. Time: 1741

GC Column: XTI-5 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	50201.500	53735.000	N/A	7.0	15.0
1260-2	61479.500	64110.000	N/A	4.3	15.0
1260-3	51000.200	52570.000	N/A	3.1	15.0
1260-4	90550.400	90480.000	N/A	0.1	15.0
1260-5	49161.700	49555.000	N/A	0.8	15.0
1016-1	35725.700	38850.000	N/A	8.7	15.0
1016-2	41341.400	44555.000	N/A	7.8	15.0
1016-3	97699.500	99325.000	N/A	1.7	15.0
1016-4	47142.700	49625.000	N/A	5.3	15.0
1016-5	29357.300	31555.000	N/A	7.5	15.0
PCB 1016 Total	50253.320	52782.000	N/A	5.0	15.0
PCB 1260 Total	60478.660	62090.000	N/A	2.7	15.0
decachlorobiphenyl	1032126.2	992620.00	N/A	3.8	15.0

FORM VII SV-1

7B

PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Instrument ID: SECD02 Calibration Date: 02/17/01 Time: 0455

Lab File ID: CCV2 Init. Calib. Date: 02/16/01

Init. Calib. Time: 1741

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF0.2	MIN RRF	%D	MAX %D
1260-1	98465.300	106295.00	N/A	8.0	15.0
1260-2	109306.00	116065.00	N/A	6.2	15.0
1260-3	105060.50	111280.00	N/A	5.9	15.0
1260-4	254894.30	252820.00	N/A	0.8	15.0
1260-5	149850.20	153045.00	N/A	2.1	15.0
1016-1	65541.500	70285.000	N/A	7.2	15.0
1016-2	121482.10	128585.00	N/A	5.8	15.0
1016-3	216517.80	214210.00	N/A	1.1	15.0
1016-4	79525.900	84540.000	N/A	6.3	15.0
1016-5	75404.000	82200.000	N/A	9.0	15.0
PCB 1016 Total	111694.26	115964.00	N/A	3.8	15.0
PCB 1260 Total	143515.26	147901.00	N/A	3.0	15.0
decachlorobiphenyl	2133236.8	2252410.0	N/A	5.6	15.0

FORM VII SV-1

Inorganics

EPA Qualifiers
Inorganic Analyses

C (Concentration) Qualifier – Entries and their meanings are:

B	The reported value obtained was less then the RL but greater than or equal to the MDL.
E	The reported value obtained was over calibration or linear range.
U	The reported value obtained was less than the MDL or was not detected.

Q Qualifier – Entries and their meanings are:

E	The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.
M	Duplicate injection precision was not met (two analyses of the same sample did not agree).
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Additions MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less then 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
X	The data is flagged as rejected by analyst utilizing analytical judgment.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field.

M (Method) Qualifier – Enter one of the following:

P	ICP
A	Flame AA
F	Furnace AA
CV	Manual Cold Vapor AA
TC	Total Organic Carbon
AS	Semi-Automated Spectrophotometric
CA	Midi-Distillation Spectrophotometric
T	Titrimetric
C	Manual Spectrophotometric
GR	Gravimetric
NR	Analyte was not required by your lab

CASE NARRATIVE
Metals

PEL Lab Reference No./SDG: 2101310

Client: CH2M HILL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. **Sample Preparation:** All holding times were met.

B. **Sample Analysis:** All holding times were met.

III. METHODS

EPA Method 6010B for metals extract analysis and 7470A for mercury extract analysis. Methods performed according to EPA guidelines and PEL Laboratory's Standard Operating Procedures.

IV. PREPARATION

EPA Method 1311 for TCLP extraction, 3010A for metals extracts, and 7470A for mercury extracts. All methods performed according to EPA guidelines and PEL Laboratory's Standard Operating Procedures. TCLP samples were pre-diluted in the preparation stage by a factor of 10 due to high sodium levels.

V. ANALYSIS (02 / 13, 14 / 01)

A. **Calibration:** All quality control criteria were met. The CCV report summary, Form 2(s), are in chronological order as they appear on the Analytical Run Log, Form 14(s).

B. **Blanks:** The preparation blank had a hit on lead above the MDL, but the below the RL. All calibration and other preparation blank quality control criteria were met.

C. **Spikes:** All percent recovery quality control criteria were met.

D. **Duplicates:** All relative percent difference quality control criteria were met.

E. **Samples:** All sample analysis proceeded normally.

F. **ICP interference Check Samples:** All percent recovery quality control criteria were met.

G. **Laboratory Control Samples:** All percent recovery quality control criteria were met.

H. **Serial Dilution:** All relative percent difference quality control were met.

I. **Post Digestion Spikes:** All percent recovery quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: _____ DATE: 02/16/01

Bernardo Paduani — Metals Chemist

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SDG No.: 2101310

SOW No.:

EPA Sample No	Lab Sample ID
00525WC01S0201	210131001
00525WC02S0201	210131002
00525WC03S0201	210131003
00525WC04S0201	210131004
00525WC05S0201	210131005
00525WC06S0201	210131006
00525WC07S0201	210131007
00525WC08S0201	210131008
00525WC09S0201	210131009
00525WC10S0201	210131010

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before application of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Bernardo Paduani Name: Bernardo Paduani

Date: 02/19/01 Title: Metals Chemist

Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC01S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131001

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.302	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC02S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131002

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.604	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	0.022	J		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC03S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131003

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.189	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	0.027	J		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC04S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131004

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.273	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	0.024	J		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: Clarity Before: Texture :

Color After : Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC05S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131005

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.391	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC06S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131006

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.233	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC07S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131007

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.403	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC08S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131008

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.698	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC09S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131009

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.554	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

00525WC10S0201

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Matrix: SOIL Lab Sample ID 210131010

Level:(low/med) LOW Date Received: 2/2/01

PercentSolids: 0

TCLP Analysis

CONCENTRATION UNITS: mg/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7440-38-2	Arsenic	1	U		P
7440-39-3	Barium	0.806	J		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1	U		P
7439-92-1	Lead	1	U		P
7439-97-6	Mercury	0.04	U		CV
7782-49-2	Selenium	0.2	U		P
7440-22-4	Silver	1	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

QC Summary

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Initial Calibration Source: OEJ101
M134

Continuing Calibration Source: 022315
M127

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic	400	384.21	96.1	500	509.93	102	527.97	105.6	P
Barium	400	384.98	96.2	500	481.33	96.3	501.13	100.2	P
Cadmium	400	391.61	97.9	500	487.99	97.6	499.56	99.9	P
Chromium	400	391.10	97.8	500	487.90	97.6	503.73	100.7	P
Lead	400	399.40	99.8	500	505.73	101.1	523.43	104.7	P
Mercury	3	3.07	102.4	5	5.13	102.5	5.04	100.8	CV
Selenium	400	405.83	101.5	500	521.44	104.3	535.44	107.1	P
Silver	400	397.86	99.5	500	501.50	100.3	520.95	104.2	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Initial Calibration Source:

Continuing Calibration Source: 022315
M127

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic				500	526.79	105.4	535.95	107.2	P
Barium				500	490.12	98	509.60	101.9	P
Cadmium				500	502.52	100.5	505.69	101.1	P
Chromium				500	503.43	100.7	506.38	101.3	P
Lead				500	521.82	104.4	526.83	105.4	P
Mercury				5	4.99	99.9			CV
Selenium				500	538.88	107.8	547.86	109.6	P
Silver				500	517.86	103.6	524.59	104.9	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Initial Calibration Source:

Continuing Calibration Source: M127

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Arsenic				500	532.40	106.5			P
Barium				500	515.54	103.1			P
Cadmium				500	505.72	101.1			P
Chromium				500	509.38	101.9			P
Lead				500	531.84	106.4			P
Mercury									CV
Selenium				500	549.16	109.8			P
Silver				500	528.80	105.8			P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

AA CRDL Standard Source: 022315

ICP CRDL Standard Source: CRI112600DM

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				5	5.75	115		
Barium				1	1.05	104.6		
Cadmium				1	1.02	101.7		
Chromium				2	1.79	89.6		
Lead				2	3.07	153.5		
Mercury	0.2	0.13	65.3					
Selenium				5	4.36	87.1		
Silver				1	1.09	109.1		

Control Limits: No limits have been established by EPA at this time

U.S. EPA - CLP

3

BLANKS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): mg/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	1000	U	1000	U	1000	U	1000	U	1	U	P
Barium	20000	U	20000	U	20000	U	20000	U	20	U	P
Cadmium	200	U	200	U	200	U	200	U	0.2	U	P
Chromium	1000	U	1000	U	1000	U	1000	U	1	U	P
Lead	1000	U	1000	U	1000	U	1000	U	0.042	J	P
Mercury	40	U	40	U	40	U	40	U	0.04	U	CV
Selenium	200	U	200	U	200	U	200	U	0.2	U	P
Silver	1000	U	1000	U	1000	U	1000	U	1	U	P

U.S. EPA - CLP

3

BLANKS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Preparation Blank Matrix (water/soil):

Preparation Blank Concentration Units (ug/L or mg/Kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	5	C	6	C	Prepa-ration Blank	C	M
Arsenic			1000	U	1000	U					P
Barium			20000	U	20000	U					P
Cadmium			200	U	200	U					P
Chromium			1000	U	1000	U					P
Lead			1000	U	1000	U					P
Mercury											CV
Selenium			200	U	200	U					P
Silver			1000	U	1000	U					P

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

ICP ID#: ICAP ICSA Source: M124

ICSAB Source: M133

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Arsenic	0	1000	-1.977	927.4	92.7			
Barium	0	1000	0.72	903.7	90.4			
Cadmium	0	1000	2.094	888.9	88.9			
Chromium	0	1000	4.997	900.0	90			
Lead	0	1000	-6.54	928.7	92.9			
Selenium	0	1000	6.381	970.7	97.1			
Silver	0	1000	0.358	998.5	99.9			

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

00525WC01S0201MS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

TCLP Analysis

Concentration Units (mg/L or mg/kg): mg/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5.04		1	U	5	100.8		P
Barium	75 - 125	5.18		0.302	J	5	97.6		P
Cadmium	75 - 125	4.98		0.2	U	5	99.6		P
Chromium	75 - 125	4.96		1	U	5	99.2		P
Lead	75 - 125	5.2		1	U	5	104		P
Mercury	75 - 125	0.026		0.04	U	0.03	86.7		CV
Selenium	75 - 125	5.44		0.2	U	5	108.8		P
Silver	75 - 125	5.2		1	U	5	104		P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

00525WC01S0201SD

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

TCLP Analysis

Concentration Units (mg/L or mg/kg): mg/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	4.84		1	U	5	96.8		P
Barium	75 - 125	4.98		0.302	J	5	93.6		P
Cadmium	75 - 125	4.82		0.2	U	5	96.4		P
Chromium	75 - 125	4.79		1	U	5	95.8		P
Lead	75 - 125	5.03		1	U	5	100.6		P
Mercury	75 - 125	0.026		0.04	U	0.03	86.7		CV
Selenium	75 - 125	5.19		0.2	U	5	103.8		P
Silver	75 - 125	5.03		1	U	5	100.6		P

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

00525WC01S0201A

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Matrix: WATER Level:(low/med) LOW

TCLP Analysis

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5210		1000.00	U	5000	104.2		P
Barium	75 - 125	5400		302.00	J	5000	102		P
Cadmium	75 - 125	5250		200.00	U	5000	105		P
Chromium	75 - 125	5330		1000.00	U	5000	106.6		P
Lead	75 - 125	5460		1000.00	U	5000	109.2		P
Selenium	75 - 125	5670		200.00	U	5000	113.4		P
Silver	75 - 125	5200		1000.00	U	5000	104		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA Sample No.

00525WC01S0201SD

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Matrix: SOIL Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

TCLP Analysis

Concentration Units (mg/L or mg/kg): mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	20	5.04		4.84		4.0		P
Barium	20	5.18		4.98		3.9		P
Cadmium	20	4.98		4.82		3.3		P
Chromium	20	4.96		4.79		3.5		P
Lead	20	5.2		5.03		3.3		P
Mercury	20	0.026		0.026		0.0		CV
Selenium	20	5.44		5.19		4.7		P
Silver	20	5.2		5.03		3.3		P

Comments:

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 21341LCS

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Solid LCS Source:

Aqueous LCS Source: PM65,44

TCLP Analysis

Analyte	Aqueous (mg/L) True	Found	%R	Solid True	Found	C	Limits	%R
Arsenic	5	4.89	97.8				-	
Barium	5	4.78	95.6				-	
Cadmium	5	4.98	99.6				-	
Chromium	5	4.98	99.6				-	
Lead	5	5.12	102.4				-	
Selenium	5	5.17	103.4				-	
Silver	5	5.09	101.8				-	

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

EPA Sample No.

21710LCS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Solid LCS Source:

Aqueous LCS Source: IS495

TCLP Analysis

Analyte	Aqueous (mg/L) True	Found	%R	Solid True	Found	C	Limits	%R
Mercury	0.03	0.027	90				-	

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9

ICP SERIAL DILUTIONS

EPA Sample No.

00525WC01S0201L

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Matrix: WATER Level:(low/med) LOW

TCLP Analysis

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	1000.00	U	1000	U			P
Barium	302.00	J	306	J	1.3		P
Cadmium	200.00	U	200	U			P
Chromium	1000.00	U	1000	U			P
Lead	1000.00	U	153	J			P
Selenium	200.00	U	200	U			P
Silver	1000.00	U	1000	U			P

Comments:

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

ICP ID Number : ICAP Date: 1/1/00

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (mg/L)	MDL (mg/L)	M
Arsenic	189		1	0.05	P
Barium	493.4		20	0.01	P
Cadmium	226.5		0.2	0.01	P
Chromium	267.7		1	0.02	P
Lead	220.3		1	0.02	P
Selenium	196		0.2	0.05	P
Silver	328		1	0.01	P

Comments:

U.S. EPA - CLP

10

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

ICP ID Number : _____ Date: 6/1/00

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (mg/L)	MDL (mg/L)	M
Mercury	253.7		0.04	0.002	CV

Comments:

U.S. EPA - CLP

11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No.: _____ SDG No.: 2101310

ICP ID Number : ICAP Date: 7/14/00

Analyte	Wave-length	Interelement Correction Factors for: Al	Ca	Cr	Fe	Mg
Arsenic	189	0.00001			-0.000009	
Barium	493.4	0.000004			0.000003	
Cadmium	226.5	-0.000003			0.000155	-0.000021
Chromium	267.7				-0.000008	
Lead	220.3	-0.00053	0.000004	-0.00053	-0.000023	0.000009
Selenium	196	0.000013	0.000024	-0.00034	-0.000071	
Silver	328					

Comments:

U.S. EPA - CLP

11B

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No.: _____ SDG No.:

ICP ID Number : ICAP Date: 7/14/00

Analyte	Wave-length	Interelement Correction Factors for: Mn	Mo	Sb	V	
Arsenic	189		0.00056			
Barium	493.4					
Cadmium	226.5					
Chromium	267.7		-0.000233			
Lead	220.3		-0.000511		-0.00028	
Selenium	196	0.000583	0.000087		0.00033	
Silver	328	0.00014	-0.000214			

Comments:

U.S. EPA - CLP

12

ICP LINEAR RANGES (SEMI-ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

ICP ID NUMBER ICAP DATE : 7/14/00

Analyte	Integ. Time (sec.)	Concentration ug/L	M
Arsenic	15	25000	P
Barium	15	5000	P
Cadmium	15	10000	P
Chromium	15	25000	P
Lead	15	25000	P
Selenium	15	20000	P
Silver	15	1000	P

Comments:

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2101310

Method : 6010_TCLP

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
00525WC01S0201	12 Feb 01		5
00525WC01S0201MS	12 Feb 01		5
00525WC01S0201SD	12 Feb 01		5
00525WC02S0201	12 Feb 01		5
00525WC03S0201	12 Feb 01		5
00525WC04S0201	12 Feb 01		5
00525WC05S0201	12 Feb 01		5
00525WC06S0201	12 Feb 01		5
00525WC07S0201	12 Feb 01		5
00525WC08S0201	12 Feb 01		5
00525WC09S0201	12 Feb 01		5
00525WC10S0201	12 Feb 01		5
21340BLK	12 Feb 01		5
21341LCS	12 Feb 01		5

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Method : 7470_TCLP

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
00525WC01S0201	13 Feb 01		2.5
00525WC01S0201MS	13 Feb 01		2.5
00525WC01S0201SD	13 Feb 01		2.5
00525WC02S0201	13 Feb 01		2.5
00525WC03S0201	13 Feb 01		2.5
00525WC04S0201	13 Feb 01		2.5
00525WC05S0201	13 Feb 01		2.5
00525WC06S0201	13 Feb 01		2.5
00525WC07S0201	13 Feb 01		2.5
00525WC08S0201	13 Feb 01		2.5
00525WC09S0201	13 Feb 01		2.5
00525WC10S0201	13 Feb 01		2.5
21709BLK	13 Feb 01		2.5
21710LCS	13 Feb 01		2.5

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Instrument ID Number : ICAP Method : P

Start Date : 2/13/2001 End Date : 2/13/2001

EPA Sample No.	D/F	Time	%R	Analytes																								
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	V	ZN
STD1-B	1	11:22		X		X	X			X			X															
ZZZZZZ	1	11:30																										
STD3	1	11:36		X		X	X			X			X															
STD2	1	11:43																										
ICV	1	11:49		X		X	X			X			X										X		X			
ICB	1	12:03		X		X	X			X			X										X		X			
CRDL	1	12:10		X		X	X			X			X										X		X			
ICSA	1	12:17		X		X	X			X			X										X		X			
ICSAB	1	12:25		X		X	X			X			X										X		X			
CCV	1	12:32		X		X	X			X			X										X		X			
CCB	1	12:42		X		X	X			X			X										X		X			
ZZZZZZ	5	12:50																										
ZZZZZZ	1	12:57																										
ZZZZZZ	1	13:16																										
ZZZZZZ	1	13:23																										
ZZZZZZ	1	13:30																										
ZZZZZZ	1	13:38																										
ZZZZZZ	1	13:45																										
ZZZZZZ	1	13:52																										
ZZZZZZ	1	13:59																										
ZZZZZZ	1	14:06																										
CCV	1	14:13		X		X	X			X			X										X		X			
CCB	1	14:24		X		X	X			X			X										X		X			
ZZZZZZ	1	14:31																										
ZZZZZZ	1	14:38																										
ZZZZZZ	1	14:46																										
ZZZZZZ	1	14:53																										
ZZZZZZ	1	15:00																										
ZZZZZZ	1	15:07																										
ZZZZZZ	1	15:14																										
ZZZZZZ	1	15:22																										
21340BLK	1	15:29		X		X	X			X			X										X		X			
21341LCS	1	15:36		X		X	X			X			X										X		X			
CCV	1	15:43		X		X	X			X			X										X		X			
CCB	1	15:54		X		X	X			X			X										X		X			
00525WC01S0201	1	16:01		X		X	X			X			X										X		X			
00525WC01S0201L	5	16:08		X		X	X			X			X										X		X			
00525WC01S0201A	1	16:15		X		X	X			X			X										X		X			

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Instrument ID Number : ICAP Method : P

Start Date : 2/13/01 End Date : 2/13/01

EPA Sample No.	D/F	Time	%R	Analytes																										
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	V	ZN
00525WC01S0201MS	1	16:22		X		X	X			X			X										X		X					
00525WC01S0201SD	1	16:30		X		X	X			X			X										X		X					
00525WC02S0201	1	16:37		X		X	X			X			X										X		X					
00525WC03S0201	1	16:44		X		X	X			X			X										X		X					
00525WC04S0201	1	16:51		X		X	X			X			X										X		X					
00525WC05S0201	1	16:58		X		X	X			X			X										X		X					
00525WC06S0201	1	17:06		X		X	X			X			X										X		X					
CCV	1	17:13		X		X	X			X			X										X		X					
CCB	1	17:23		X		X	X			X			X										X		X					
00525WC07S0201	1	17:31		X		X	X			X			X										X		X					
00525WC08S0201	1	17:38		X		X	X			X			X										X		X					
00525WC09S0201	1	17:45		X		X	X			X			X										X		X					
00525WC10S0201	1	17:52		X		X	X			X			X										X		X					
ZZZZZZ	1	17:59																												
ZZZZZZ	5	18:06																												
ZZZZZZ	1	18:14																												
ZZZZZZ	1	18:21																												
ZZZZZZ	1	18:28																												
ZZZZZZ	1	18:35																												
ZZZZZZ	1	18:42																												
CCV	1	18:57		X		X	X			X			X										X		X					
ZZZZZZ	1	19:07																												
CCB	1	19:17		X		X	X			X			X										X		X					

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Instrument ID Number : FIMS Method : CV

Start Date : 2/14/01 End Date : 2/14/01

EPA Sample No.	D/F	Time	%R	Analytes																										
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	V	ZN
IICAL1	1	11:01														X													
IICAL2	1	11:03														X													
IICAL3	1	11:04														X													
IICAL4	1	11:06														X													
IICAL5	1	11:07														X													
IICAL6	1	11:09														X													
ZZZZZZ	1	11:11																											
ZZZZZZ	1	11:13																											
ZZZZZZ	1	11:14																											
ZZZZZZ	1	11:16																											
ZZZZZZ	1	11:17																											
ZZZZZZ	1	11:22																											
ZZZZZZ	1	11:24																											
ZZZZZZ	1	11:25																											
ZZZZZZ	1	11:26																											
ICV	1	11:33														X													
ICB	1	11:34														X													
CRDL	1	11:36														X													
ZZZZZZ	1	11:37																											
ZZZZZZ	1	11:39																											
ZZZZZZ	1	11:40																											
ZZZZZZ	1	11:42																											
ZZZZZZ	1	11:43																											
ZZZZZZ	1	11:45																											
CCV	1	11:46														X													
CCB	1	11:48														X													
ZZZZZZ	1	11:49																											
ZZZZZZ	1	11:50																											
21709BLK	1	11:52														X													
21710LCS	1	11:53														X													
00525WC01S0201	1	11:54														X													
00525WC01S0201MS	1	11:56														X													
00525WC01S0201SD	1	11:57														X													
00525WC02S0201	1	11:59														X													
00525WC03S0201	1	12:00														X													
CCV	1	12:02														X													
CCB	1	12:03														X													
00525WC04S0201	1	12:05														X													

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field

Lab Code : PEL Case No. SAS No: SDG No.: 2101310

Instrument ID Number : FIMS Method : CV

Start Date : 2/14/01 End Date : 2/14/01

EPA Sample No.	D/F	Time	%R	Analytes																											
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	V	ZN			
00525WC05S0201	1	12:06													X																
00525WC06S0201	1	12:07													X																
00525WC07S0201	1	12:08													X																
00525WC08S0201	1	12:10													X																
00525WC09S0201	1	12:11													X																
00525WC10S0201	1	12:12													X																
ZZZZZZ	1	12:13																													
ZZZZZZ	1	12:15																													
CCV	1	12:17													X																
CCB	1	12:18													X																

WET CHEMISTRY

pH Preparation Log

Preparation: BATCH:

2/5/01 Method: 9045

6:00:00PM JEM

PEL Sample ID#:	Analysis Instrument:	Final Sample pH	RPD
pH 4.00 IS1055	ORION	4.08	
pH 7.00 IS1280	ORION	6.99	
pH 10.00 IS1057	ORION	9.95	
RICCA LCS IS1120	ORION	7.08	101.40
210131001	ORION	7.90	
1DUP	ORION	7.93	0.32
2	ORION	7.75	
3	ORION	7.59	
4	ORION	8.18	
5	ORION	7.17	
6	ORION	7.74	
7	ORION	7.81	
8	ORION	8.04	
9	ORION	7.97	
10	ORION	6.67	
pH 7.00 IS1280	ORION	7.05	100.87

Analyst Signature: JEM 2-5-01

Comments: _____

EPA 1010 Flash Point

Date:2/05/01 ***Time:10:00:00*** ***Tech.: JEM***

Room Temperature: 72F ***Pressure: 760mm HG***

Sample	Matrix	Initial Temp. (F)	Final Temp. (F)	Result	Comment	RPD
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
P-XYLENE	LIQUID	73	78	FLASH	99% RECOVERY	
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
210131001	SOIL	79	>200	NA	Sample didn't flash	
2	SOIL	77	>200	NA	Sample didn't flash	
4	SOIL	79	>200	NA	Sample didn't flash	
3	SOIL	78	158	FLASH	VAPOR IGNITED	
3Dup	SOIL	76	161	FLASH	VAPOR IGNITED	1.88
P-XYLENE	LIQUID	71	77	FLASH	100% RECOVERY	
210131005	SOIL	75	>200	NA	Sample didn't flash	
6	SOIL	74	>200	NA	Sample didn't flash	
7	SOIL	78	>200	NA	Sample didn't flash	
8	SOIL	79	>200	NA	Sample didn't flash	
9	SOIL	76	>200	NA	Sample didn't flash	
10	SOIL	79	>200	NA	Sample didn't flash	
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
P-XYLENE	LIQUID	72	78	FLASH	99% RECOVERY	
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ	ZZZ
NA: Sample did not flash						

QC: P-XYLENE IS1286 TV=77F +/- 1 **Thermometer HB96822**

OUTSIDE LABORATORY DATA

TestAmerica
INCORPORATED

CASE NARRATIVE
February 12, 2001

PEL LABORATORIES, INC. (8809)
Attn: JORGE ALWOOD
4420 PENDOLA POINT ROAD
TAMPA ,FL 33619
1-813-247-2805

Client Project: 2101-310
Laboratory Project: 225242
Date Received: 2/3/01

Matrix: Soil
Number of samples : 10
Date Collected : 2/1/01

Sample Receipt Notes: Per enclosed Chain of Custody, samples were properly preserved and received in good condition on 2/3/01. There were no anomalies noted in sample log-in.. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV' with 'EXCEL' electronic deliverables.

QC Notes:

Reactive Cyanide by SW846 Chapter 7 – Batch: 9207
Ten soil samples (TA #'s 01-A14324-14333) were extracted and analyzed for Total Cyanide by SW846 9012A. The Samples were Non-Detect (ND) for Total Cyanide therefore ND for Reactive Cyanide. All QC measurements were within acceptable recovery limits. The sample used as MS/MSD for this analytical batch was Sample ID: 00525WC01S020101 of this sample delivery group. The sample used as Duplicate for this analytical batch was Sample ID: 00525WC012S020101 of this sample delivery group. The MS – 107% and MSD – 107% were within the required QC limit of 80-120%. The Duplicate – 0.0% was within the required QC limit of 20%. The Control – 93% was within required QC limits. The QC was accepted for this batch.

Reactive Sulfide by SW846 Chapter 7 - Batch: 8032
Six soil samples (TA #'s 01-A14324-14329) were extracted and analyzed for Total Sulfide by SW846 9034. The Samples were Non-Detect (ND) for Total Sulfide therefore ND for Reactive Sulfide. All QC measurements were within acceptable recovery limits. The sample used as MS/MSD for this analytical batch was not a member of this sample delivery group. The sample used as Duplicate for this analytical batch was not a member of this sample delivery group. The MS – 62% and MSD - 64% were outside the required QC limit of 80-120% biased low. The Duplicate – 0.0% was within the required QC limit of 20%. The Control – 92% was within required QC limits. The QC was accepted for this batch.

Reactive Sulfide by SW846 Chapter 7 - Batch: 8032
Four soil samples (TA #'s 01-A14330-14333) were extracted and analyzed for Total Sulfide by SW846 9034. The Samples were Non-Detect (ND) for Total Sulfide therefore ND for Reactive Sulfide. All QC measurements were within acceptable recovery limits. The sample used as MS/MSD for this analytical batch was not a member of this sample delivery group. The sample used as Duplicate for this analytical batch was not a member of this sample delivery group. The MS – 71% and MSD - 75% were outside the required QC limit of 80-120% biased low. The Duplicate – 0.0% was within the required QC limit of 20%. The Control – 90% was within required QC limits. The QC was accepted for this batch.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

Moisture by CLP – BATCH: 4935
Ten soil samples (TA #'s 01-A14324-14333) were analyzed for Moisture by CLP. Results for Reactive Cyanide and Reactive Sulfide are based on wet weight.

If you have any questions as you review this package, please call me at 1-800-765-0980.

Thanks

Glenn L. Norton
Technical Services
TestAmerica, Inc. - Nashville

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

Chain of Custody Record
Record/Work Request

PEL Laboratories, Inc.
4420 F ola Point Road
Tampa, Florida 33619
(813) 247-2805 • Fax: (813) 248-1537
#0809 E-Mail: login@Pelab.com

Test America

225242 Page 1 of 2

Company: PEL
Address:
Phone: Fax:
Print Names(s) / Affiliation
Sampler(s) Signature(s)

Project Name/Number: 2101-310
Project Manager: Darcy Weisman
Purchase Order:

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	Preservatives (see codes): Reactive CN	Reactive Sulfide	REQUESTED DUE DATE: 7 Day Remarks	Lab. No.
	005251WC01502010101	2/1/1	11:20			1	X	X	14324	01
	005251WC02502010101		12:00			1	X	X	25	02
	005251WC03502010101		12:10			1	X	X	26	03
	005251WC04502010101		12:15			1	X	X	27	04
	005251WC05502010101		14:30			1	X	X	28	05
	005251WC06502010101		14:45			1	X	X	29	06
	005251WC07502010101		15:00			1	X	X	30	07
	005251WC08502010101		15:40			1	X	X	31	08
	005251WC09502010101		11:40			1	X	X	14332	09
Shipment Method						9	← Total Number of Containers			

Out: / /	Via:	Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / /	Via.		Michael Kirby/PEL	2/2/01	17:00			
Additional Comments:								
Level III QC/Reporting Questions: see Jennifer Huckaba or Jennifer Romano							2-3-01	0900

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Chain of Custody Record
Record/Work Request

PEL Laboratories, Inc.
4420 F ola Point Road
Tampa, Florida 33619
(813) 247-2805 • Fax: (813) 248-1537
E-Mail: login@Pelab.com

Test America

#8809

225242 Page 2 of 2

Company: PEL

Project Name/Number: 2101-310

Address:

Project Manager: Darcy Weisman

Phone: Fax:

Purchase Order:

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:

Print Names(s) / Affiliation

Sampler(s) Signature(s)

Preservatives (see codes)

Analyses Requested

REQUESTED DUE DATE: 7 Day

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	Reactive CN	Reactive Sulfide	Remarks	Lab. No.
	00525BWC10502010	2/1/1	15:10			1	X	X	14333	10

Shipment Method: 1 ← Total Number of Containers

Out: / / Via:	Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / / Via.		Michael A. Kelly / PEL	2/2/01	17:00			
Additional Comments:							
Level III QC/Reporting Questions: see Jennifer Huckaba or Jennifer Romano						2-3a	0900

Cooler No. (s) / Temperature(s) (C)

Sampling Kit No.

Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: PEL BC# 225242

Cooler Received On: 2-3-01 And Opened On: 2-3-01 By: Michael McBride

(Signature)

1. Temperature of Cooler when opened 2° Degrees Celsius
2. Were custody seals on outside of cooler? ..... YES (NO)
   a. If yes, how many, what kind and where: _____
3. Were custody seals on containers and intact? ..... (NO) YES
4. Were the seals intact, signed, and dated correctly? ..... ~~YES NO~~
5. Were custody papers inside cooler? ..... (YES) NO
6. Were custody papers properly filled out (ink, signed, etc)? ..... (YES) NO
7. Did you sign the custody papers in the appropriate place? ..... (YES) NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete (#, date, signed, pres, etc)? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were correct bottles used for the analysis requested? ..... (YES) NO
14. a. Were VOA vials received? ..... YES (NO)
    b. Was there any observable head space present in any VOA vial? ..... (NO) YES
15. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
16. Were correct preservatives used? ..... ~~YES NO~~
17. Was residual chlorine present? ..... ~~NO YES~~
17. Corrective action taken, if necessary:

    See attached for resolution

ANALYTICAL REPORT

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14324
Sample ID: 00525WC01S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 11:20
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14324
Sample ID: 00525WC01S020101
Project: 2101-310

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 2/11/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14325
Sample ID: 00525WC02S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:00
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	89.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14325
Sample ID: 00525WC02S020101
Project: 2101-310

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 2/11/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14326
Sample ID: 00525WC03S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:10
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 01-A14326
Sample ID: 00525WC03S020101
Project: 2101-310
Page 2

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 2/11/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14327
Sample ID: 00525WC04S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:15
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	90.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14327
Sample ID: 00525WC04S020101
Project: 2101-310

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Report Approved By: Michael H. Dunn Report Date: 2/11/01

Paul E. Lane, Jr., Lab Director
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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14328
Sample ID: 00525WC05S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 14:30
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	91.	%			1	2/ 5/01	8:47	J. Rudden	CLP	[illegible]
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	[illegible]
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	[illegible]
	Comment					2/11/01		P.Lane		[illegible]

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14328
Sample ID: 00525WC05S020101
Project: 2101-310

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End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14329
Sample ID: 00525WC06S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 14:45
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14329
Sample ID: 00525WC06S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14330
Sample ID: 00525WC07S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:00
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	80.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14330
Sample ID: 00525WC07S020101
Project: 2101-310

These results relate only to the items tested.
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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14331
Sample ID: 00525WC08S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:40
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	93.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14331
Sample ID: 00525WC08S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14332
Sample ID: 00525WC09S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 11:40
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14332
Sample ID: 00525WC09S020101
Project: 2101-310
Page 2

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14333
Sample ID: 00525WC010S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:10
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14333
Sample ID: 00525WC010S020101
Project: 2101-310

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 2/11/01

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Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

REACTIVE CYANIDE by SW846 CHAPTER 7

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Inorganic Chemistry Analysis Summary

Batch Identification:

Analysis:	Cyanide
Method:	Chapter 7
Preparation Date:	2/9/01
Preparation Analyst:	KW
Analysis Date:	2/10/01
Analyst:	AB
Project#:	225242
Worklist #:	9207
Units:	mg/Kg

Batch Quality Control:

Blank:	<25
ICV % rec:	97%
CCV % rec:	96%
LCS % rec:	93
MS % rec:	107%
MSD rpd:	0
MS/MSD Lab ID #:	14324
Duplicate rpd:	0
Duplicate Lab ID #:	14333
Regression Coef:	0.9987

	Client I.D.	Laboratory I.D.	Result
1	00525WC01502010l	14324	<25
2	00525WC02502010l	14325	<25
3	00525WC03502010l	14326	<25
4	00525WC04502010l	14327	<25
5	00525WC05502010l	14328	<25
6	00525WC06502010l	14329	<25
7	00525WC07502010l	14330	<25
8	00525WC08502010l	14331	<25
9	00525WC09502010l	14332	<25
10	00525WC10502010l	14333	<25
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

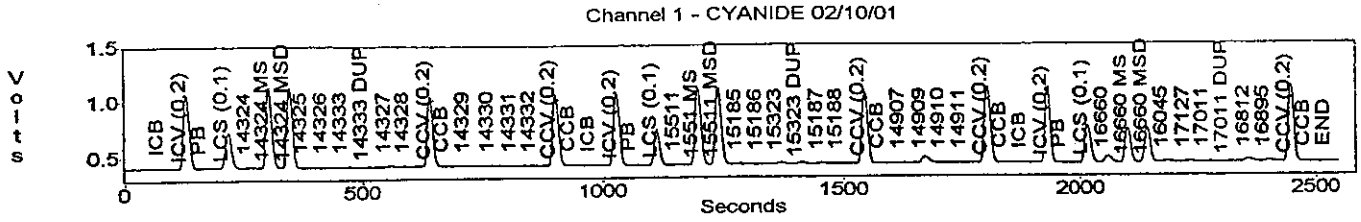
REACTIVE CYANIDE by SW846 CHAPTER 7

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

LACHAT #1
OPERATOR: TestAmerica-Nashville
ACQ. TIME: Feb 9, 2001 23:53:00
DATA FILENAME: C:\OMNION\TRAYS\CN0210A.FDT
TRAY FILENAME: C:\OMNION\TRAYS\CN0210A.TRA

AB



Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 31

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	CYANIDE 02/10/01 (PPM)	
1	ICB	09 Feb 2001	23:53:03	1	-0.003	
2	ICV (0.2)	09 Feb 2001	23:53:47	1	0.195	97%Rec
3	PB	09 Feb 2001	23:54:30	1	-0.003	
4	LCS (0.1)	09 Feb 2001	23:55:14	1	0.093	93%Rec
5	14324	09 Feb 2001	23:55:57	1	-0.002	
6	14324 MS	09 Feb 2001	23:56:40	1	0.214	107%Rec
7	14324 MSD	09 Feb 2001	23:57:23	1	0.215	107.5%Rec RPD=0
8	14325	09 Feb 2001	23:58:05	1	-0.003	
9	14326	09 Feb 2001	23:58:48	1	-0.003	
10	14333	09 Feb 2001	23:59:30	1	-0.003	RPD=0
11	14333 DUP	10 Feb 2001	00:00:13	1	-0.003	
12	14327	10 Feb 2001	00:00:55	1	-0.001	
13	14328	10 Feb 2001	00:01:38	1	-0.003	
14	CCV (0.2)	10 Feb 2001	00:02:19	1	0.191	95.5%Rec
15	CCB	10 Feb 2001	00:03:01	1	-0.003	
16	14329	10 Feb 2001	00:03:44	1	-0.003	
17	14330	10 Feb 2001	00:04:28	1	-0.002	
18	14331	10 Feb 2001	00:05:11	1	-0.002	
19	14332	10 Feb 2001	00:05:55	1	-0.002	
20	CCV (0.2)	10 Feb 2001	00:06:39	1	0.192	96%Rec
21	CCB	10 Feb 2001	00:07:22	1	-0.003	
22	ICB	10 Feb 2001	00:08:05	1	-0.003	
23	ICV (0.2)	10 Feb 2001	00:08:47	1	0.195	97.5%Rec
24	PB	10 Feb 2001	00:09:30	1	-0.003	
25	LCS (0.1)	10 Feb 2001	00:10:12	1	0.096	96%Rec
26	15511	10 Feb 2001	00:10:55	1	-0.002	
27	1551 MS	10 Feb 2001	00:11:38	1	0.213	106.5%Rec
28	15511 MSD	10 Feb 2001	00:12:20	1	0.213	106.5% Rec RPD=0
29	15185	10 Feb 2001	00:13:03	1	-0.002	
30	15186	10 Feb 2001	00:13:44	1	-0.002	
31	15323	10 Feb 2001	00:14:28	1	0.001	

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 32 to 64

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	CYANIDE 02/10/01 (PPM)	
32	15323 DUP	10 Feb 2001	00:15:11	1	0.001	RPD=0
33	15187	10 Feb 2001	00:15:55	1	-0.001	
34	15188	10 Feb 2001	00:16:38	1	-0.003	
35	CCV (0.2)	10 Feb 2001	00:17:22	1	0.198	99%Rec
36	CCB	10 Feb 2001	00:18:06	1	-0.003	
37	14907	10 Feb 2001	00:18:49	1	-0.003	
38	14909	10 Feb 2001	00:19:32	1	0.016	
39	14910	10 Feb 2001	00:20:14	1	-0.003	
40	14911	10 Feb 2001	00:20:57	1	-0.003	
41	CCV (0.2)	10 Feb 2001	00:21:39	1	0.206	103%Rec
42	CCB	10 Feb 2001	00:22:22	1	-0.003	
43	ICB	10 Feb 2001	00:23:04	1	-0.003	
44	ICV (0.2)	10 Feb 2001	00:23:47	1	0.207	
45	PB	10 Feb 2001	00:24:29	1	-0.003	
46	LCS (0.1)	10 Feb 2001	00:25:13	1	0.099	
47	16660	10 Feb 2001	00:25:57	1	0.015	
48	16660 MS	10 Feb 2001	00:26:40	1	0.093	
49	16660 MSD	10 Feb 2001	00:27:24	1	0.094	
50	16045	10 Feb 2001	00:28:07	1	0.002	
51	17127	10 Feb 2001	00:28:51	1	-0.001	
52	17011	10 Feb 2001	00:29:35	1	-0.003	
53	17011 DUP	10 Feb 2001	00:30:18	1	-0.003	
54	16812	10 Feb 2001	00:31:01	1	0.005	
55	16895	10 Feb 2001	00:31:43	1	0.002	
56	CCV (0.2)	10 Feb 2001	00:32:26	1	0.206	
57	CCB	10 Feb 2001	00:33:08	1	-0.003	
58	END	10 Feb 2001	00:33:51	1	-0.003	

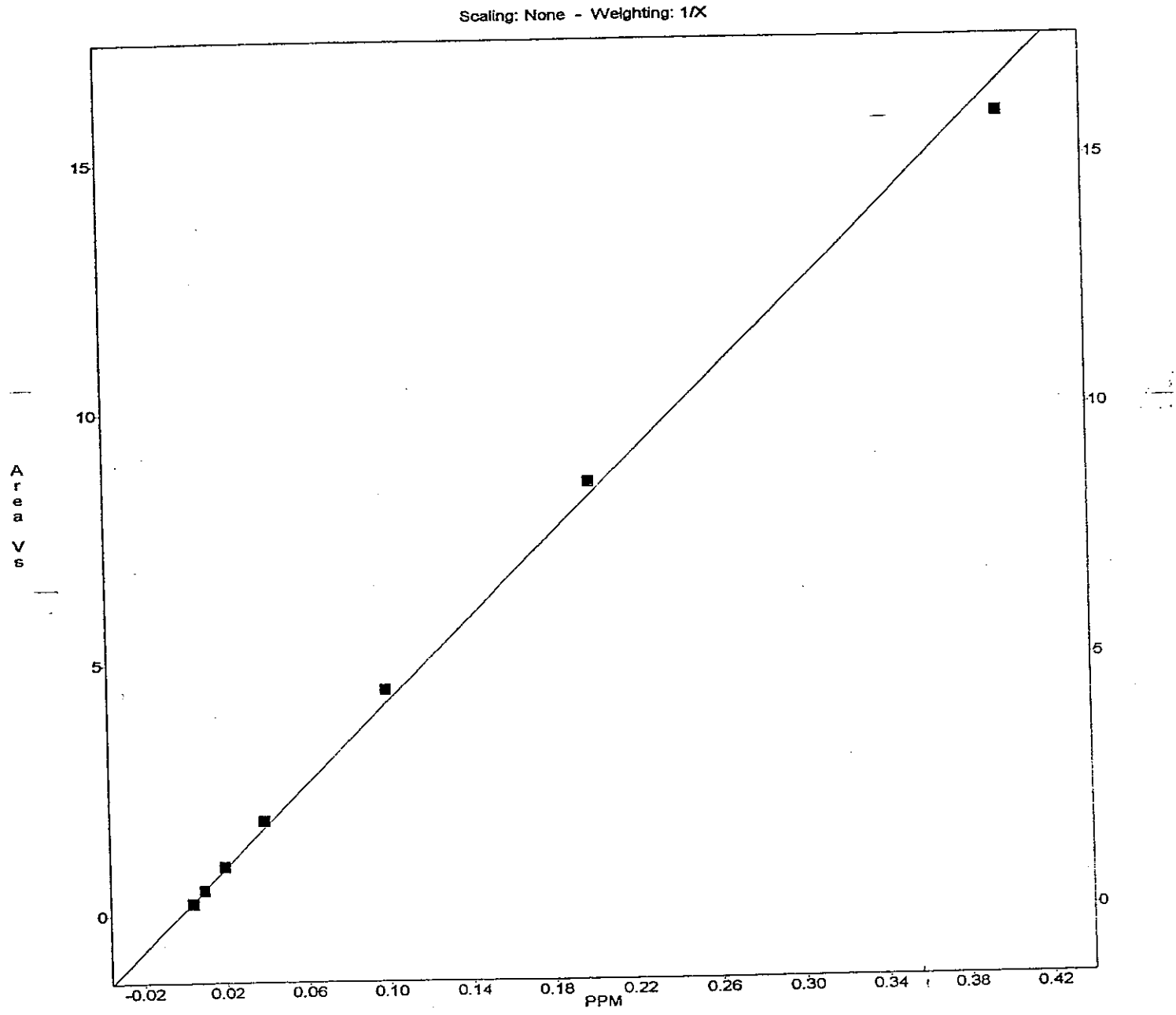
487

AB

CYANIDE 02/10/01

Lvl	Area	PPM	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	15856344	0.400	15856344					0.0	0.0	3.9
2	8558351	0.200	8558351					0.0	0.0	-3.2
3	4457060	0.100	4457060					0.0	0.0	-6.2
4	1869024	0.040	1869024					0.0	0.0	-7.7
5	961786	0.020	961786					0.0	0.0	-4.7
6	501187	0.010	501187					0.0	0.0	3.0
7	236725	0.004	236725					0.0	0.0	18.9

1st Order Poly
Conc = 2.441e-008 Area - 2.532e-003
r = 0.9987



Printed: Saturday, February 10, 2001 - 12:40 AM

942 — RPD = 1.85

1.97

ISS 63-22

r^2 : 0.9999

63-22 96%

67-18 97.5%

> RPD = 0

> RPD = 6.26

84.7% > RPD = 1.75

51.2%

47%

> RPD = 10.94

99.5%

CN
AB
2/10/0

0.400
0.200
0.100
0.04 } ISS-KW-61-1
0.02
0.01 R^2 = 0.9987
0.004

ICB
ICV(0.2) ISS-KW-61-1 97%
PB
LCS(0.1) ISS-65-25 93%
14324
14324 MS 107% RPD = 0
14324 MSD 107.5%
14325
14326
14333 RPD = 0
14333 Dup
14327
14328
CCV(0.2) 95.5%
CCB
14329
14330
14331
14332
CCV(0.2) 96%
CCB
ICB
ICV(0.2) ISS-KW-61-1 97.5%
PB
LCS(0.1) ISS-65-25 96%
15511
15511 MS 106.5% RPD = 0
15511 MSD 106.5%
15185
15186
15323 RPD = 0
15323 Dup
15187
15188

14907
14909
14910
14911
CCV(0.2)
CCB

TESTAMERICA INC.
NASHVILLE DIVISION

REACTIVE SULFIDE by SW846 CHAPTER 7

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Inorganic Chemistry Analysis Summary

Batch Identification:

Analysis:	Sulfide
Method:	CHAPTER 7
Preparation Date:	2/7/01
Preparation Analyst:	ISA
Analysis Date:	2/7/01
Analyst:	AB
Project#:	225242
Worklist #:	8032
Units:	mg/Kg

Batch Quality Control:

Blank:	<50
ICV % rec:	99.5
CCV % rec:	99.5
LCS % rec:	91.9
MS % rec:	72.7
MSD rpd:	4.26
MS/MSD Lab ID #:	15351
Duplicate rpd:	0
Duplicate Lab ID #:	15511
Regression Coef:	NA

	Client I.D.	Laboratory I.D.	Result
1	00525WC015020101	14324	<50
2	00525WC025020101	14325	<50
3	00525WC035020101	14326	<50
4	00525WC045020101	14327	<50
5	00525WC055020101	14328	<50
6	00525WC065020101	14329	<50
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

REACTIVE SULFIDE by SW846 CHAPTER 7

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

	TITRATION METHOD:_____		SULFIDE					
	ANALYST:	A.BAMARNI	DATE:	2/7/01	TIME:	2045		
	SAMPLE PREP:	INITIAL VOL (ML)	INITIAL VOL (GM)	FINAL VOL (ML)				
			2.5	50				
				STANDARDIZATION:				
	STOCK ID #: _____		ISS-53-14	___10___ ML PAO / ___10___ ML BI-IODATE				
	.025N BI-IODATE ID #:_____		ISR-58-25	PAO NORMALITY = _____		0.025N		
	.025N PAO #: _____		ISR-72-4	___5___ ML IODINE / ___5___ ML PAO				
	.025N IODINE ID #: _____		ISR-69-16	IODINE NORMALITY = _____		0.025N		
			Iodine	Iodine	PAO	PAO		
	SAMPLE	Sample vol./wt.	Normality 1	Titrant vol(ml)	Titant vol(ml)	Normality 2	CONC. (ug/ml)	
1	BLANK	50	0.025	5	5.00	0.025	0.0	
2	STOCK	1	0.025	5	2.52	0.025	992.0	
3	CCV 20 PPM	50	0.025	5	2.51	0.025	19.9	99.5%
4	PREP BLANK	50	0.025	5	5.00	0.025	0.0	
5	LCS 19.8 PPM	50	0.025	5	2.72	0.025	18.2	91.9%
6	15351	40	0.025	5	5.00	0.025	0.0	
7	15351 MS	40	0.025	5	3.56	0.025	14.4	72.7 RPD = 4.26
8	15351 MSD	40	0.025	5	3.62	0.025	13.8	69.7
9	14324	40	0.025	5	5.00	0.025	0.0	
10	14325	40	0.025	5	4.99	0.025	0.1	
11	14326	40	0.025	5	5.00	0.025	0.0	
12	14327	40	0.025	5	4.99	0.025	0.1	
13	14328	40	0.025	5	5.00	0.025	0.0	
14	BLANK	50	0.025	5	5.00	0.025	0.0	
15	CCV 20 PPM	50	0.025	5	2.52	0.025	19.8	99%
16	14329	40	0.025	5	4.99	0.025	0.1	
17	15511	40	0.025	5	5.00	0.025	0.0	> RPD = <p
18	15511 DUP	40	0.025	5	4.99	0.025	0.1	
19	BLANK	50	0.025	5	5.00	0.025	0.0	
20	CCV 20 PPM	50	0.025	5	2.51	0.025	19.9	99.5%
21			0.025	5		0.025	#DIV/0!	
22			0.025	5		0.025	#DIV/0!	
23			0.025	5		0.025	#DIV/0!	
24			0.025	5		0.025	#DIV/0!	
25			0.025	5		0.025	#DIV/0!	
26			0.025	5		0.025	#DIV/0!	
27			0.025	5		0.025	#DIV/0!	
28			0.025	5		0.025	#DIV/0!	
29			0.025	5		0.025	#DIV/0!	
30			0.025	5		0.025	#DIV/0!	
31			0.025	5		0.025	#DIV/0!	
32			0.025	5		0.025	#DIV/0!	
33			0.025	5		0.025	#DIV/0!	
34			0.025	5		0.025	#DIV/0!	
	CALCULATION	[(ml of Iodine x 0.025)-(ml of PAO X 0.025) X 16000] / ml of SAMPLE						

REACTIVE SULFIDE by SW846 CHAPTER 7

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Inorganic Chemistry Analysis Summary

Batch Identification:

Analysis:	Sulfide
Method:	CHAPTER 7
Preparation Date:	2/7/01
Preparation Arialyst:	ISA
Analysis Date:	2/7/01
Analyst:	AB
Project#:	225242
Worklist #:	8049
Units:	mg/Kg

Batch Quality Control:

Blank:	<50
ICV % rec:	100
CCV % rec:	100
LCS % rec:	90
MS % rec:	70.5
MSD rpd:	5.52
MS/MSD Lab ID #:	15165
Duplicate rpd:	ND
Duplicate Lab ID #:	15188
Regression Coef:	NA

	Client I.D.	Laboratory I.D.	Result
1	00525WC07S020101	14330	<50
2	00525WC08S020101	14331	<50
3	00525WC09S020101	14332	<50
4	00525WC10S020101	14333	<50
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

REACTIVE SULFIDE by SW846 CHAPTER 7

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TITRATION METHOD: Total ~~Reactive~~ Sulfide AB 2/9/01

ANALYST:	A. BAMARNI	DATE:	2/7/01	TIME:	2400	
SAMPLE PREP:	INITIAL VOL (ML)	INITIAL VOL (GM)	FINAL VOL (ML)			
		2.5g	50mL			
			STANDARDIZATION:			
STOCK ID #:	ISS-53-14		10 ML PAO / 10 ML BI-IODATE			
.025N BI-IODATE ID #:	ISS-58-25		PAO NORMALITY = 0.025			
.025N PAO #:	ISR-72-4		5 ML IODINE / 5 ML PAO			
.025N IODINE ID #:	ISR-69-16		IODINE NORMALITY = 0.025			

	SAMPLE	Sample vol./wt.	Iodine Normality 1	Iodine Titrant vol(ml)	PAO Titant vol(ml)	PAO Normality 2	CONC. (ug/ml)	
1	BLANK	50	0.025	5	5.00	0.025	0.0	
2	STOCK	1	0.025	5	2.49	0.025	1004.0	
3	CCV 20 PPM	50	0.025	5	2.50	0.025	20.0	100%
4	PREP BLANK	50	0.025	5	5.00	0.025	0.0	
5	LCS 20 PPM	50	0.025	5	2.75	0.025	18.0	90%
6	15185	40	0.025	5	4.96	0.025	0.4	
7	15185 MS	40	0.025	5	3.59	0.025	14.1	70.5
8	15185 MSD	40	0.025	5	3.51	0.025	14.9	74.5 RPD = 5.52
9	15186	40	0.025	5	5.00	0.025	0.0	
10	15187	40	0.025	5	5.00	0.025	0.0	
11	15188	40	0.025	5	4.96	0.025	0.4	> RPD = 20
12	15188 DUP	40	0.025	5	5.00	0.025	0.0	
13	14330	40	0.025	5	5.00	0.025	0.0	
14	CCV 20 PPM	50	0.025	5	2.50	0.025	20.0	100%
15	CCB	50	0.025	5	5.00	0.025	0.0	
16	14331	40	0.025	5	5.00	0.025	0.0	
17	14332	40	0.025	5	5.00	0.025	0.0	
18	14333	40	0.025	5	5.00	0.025	0.0	
19	CCV 20 PPM	50	0.025	5	2.50	0.025	20.0	100%
20	CCB	50	0.025	5	5.00	0.025	0.0	
21			0.025	5		0.025	#DIV/0!	
22			0.025	5		0.025	#DIV/0!	
23			0.025	5		0.025	#DIV/0!	
24			0.025	5		0.025	#DIV/0!	
25			0.025	5		0.025	#DIV/0!	
26			0.025	5		0.025	#DIV/0!	
27			0.025	5		0.025	#DIV/0!	
28			0.025	5		0.025	#DIV/0!	
29			0.025	5		0.025	#DIV/0!	
30			0.025	5		0.025	#DIV/0!	
31			0.025	5		0.025	#DIV/0!	
32			0.025	5		0.025	#DIV/0!	
33			0.025	5		0.025	#DIV/0!	
34			0.025	5		0.025	#DIV/0!	

CALCULATION [(ml of Iodine x 0.025)-(ml of PAO X 0.025) X 16000] / ml of SAMPLE

MOISTURE by CLP

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Worklist: 5727   Worklist format: moisture
Created on: 2/ 3/01   by: M.McBride

Moisture

	Log number	Due Date	Due Time	Target Date	Project
1.	01-A14324	2/10/01		2/10/01	225242
2.	01-A14325	2/10/01		2/10/01	225242
3.	01-A14326	2/10/01		2/10/01	225242
4.	01-A14327	2/10/01		2/10/01	225242
5.	01-A14328	2/10/01		2/10/01	225242
6.	01-A14329	2/10/01		2/10/01	225242
7.	01-A14330	2/10/01		2/10/01	225242
8.	01-A14331	2/10/01		2/10/01	225242
9.	01-A14332	2/10/01		2/10/01	225242
10.	01-A14333	2/10/01		2/10/01	225242

SW-846 DOC

[illegible] BY: RJKA

[illegible]: gR

[illegible]:

[illegible]: 2 v4(4

PERCENT MOISTURE

Worklist #:5727
Analyst: M.McBride

Date Created: 2/ 3/01
Date Analyzed: 2/5/01
RL

Oven Temperature: 103

	Sample #	Pan Weight (g)	Pan+Sample Weight (g)	Final Weight (g)	%Dry Weight
1.	01-A14324	1.01	13.02	11.55	88

Time Into Oven: 22:00
Time Out: 08:27

2.	01-A14325	1.00	12.89	11.42	89

Time Into Oven: _____
Time Out: _____

3.	01-A14326	1.00	13.37	11.93	88

Time Into Oven: _____
Time Out: _____

4.	01-A14327	1.00	12.83	11.66	90

Time Into Oven: _____
Time Out: _____

5.	01-A14328	1.00	12.04	11.01	91

Time Into Oven: _____
Time Out: _____

PERCENT MOISTURE

Worklist #:5727
Analyst: M.McBride

Date Created: 2/ 3/01
Date Analyzed:

Oven Temperature: _____

	Sample #	Pan Weight (g)	Pan+Sample Weight (g)	Final Weight (g)	%Dry Weight
6.	01-A14329	1.01	14.15	12.60	88

Time Into Oven: _____
Time Out: _____

7.	01-A14330	1.01	17.00	13.77	80

Time Into Oven: _____
Time Out: _____

8.	01-A14331	1.01	16.26	14.19	93

Time Into Oven: _____
Time Out: _____

9.	01-A14332	1.01	12.91	11.02	84

Time Into Oven: _____
Time Out: _____

10.	01-A14333	1.01	15.34	13.53	87

Time Into Oven: _____
Time Out: _____

Chain of Custody Documentation

CH2M Hill Co ctors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

3 2101 310MK

CHAIN OF-CUSTODY RECORD

C IMBER
148799-12

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	148799	PEL Laboratories, Inc. Darcy Weisman	Jennifer Zimmerman, CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Grey Sites III Soil Waste Characterization	CTO 005	2533	Jeff Wilmoth, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (813) 247-2805 FAX (813)-248-1537	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Bill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (include Method Numbers) 1311/8260B TCLP Volatiles	1311/8270C TCLP SemiVols	1311/8081A TCLP Pest.	1311/8151A TCLP Herb.	1311/6010A TCLP Metals	8081A Pesticides	Method 1030 Ignitability	Method 9045A Corrosivity	Chapter 7.3 Reactivity	8082 PCBs	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	005-25WC01-S-0201-01	Site 25 Excav Area 1	soil	02/01/01	11:20	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(01)
2	005-25WC02-S-0201-01	Site 25 Excav Area 2	soil	02/01/01	12:00	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(02)
3	005-25WC03-S-0201-01	Site 25 Excav Area 3	soil	02/01/01	12:10	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(03)
4	005-25WC04-S-0201-01	Site 25 Excav Area 4	soil	02/01/01	12:15	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(04)
5	005-25WC05-S-0201-01	Site 25 Excav Area 5	soil	02/01/01	14:30	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(05)
6	005-25WC06-S-0201-01	Site 25 Excav Area 6	soil	02/01/01	14:45	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(06)
7	005-25WC07-S-0201-01	Site 25 Excav Area 7	soil	02/01/01	15:00	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(07)
8	005-25WC08-S-0201-01	Site 25 Excav Area 8	soil	02/01/01	15:40	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(08)
9	005-25WC09-S-0201-01	Site 25 Excav Area PCB1	soil	02/01/01	11:40	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(09)
10	005-25WC10-S-0201-01	Site 25 Excav Area PCB2	soil	02/01/01	15:10	III/A	7 Day	x	x	x	x	x	x	x	x	x	x	Composite		(10)

SAMPLER(S) AND COMPANY: (please print)
Scott Sloan, Dave Keul, CCI/JAJES

COURIER AND SHIPPING NUMBER:
FedEx Tracking No. 7904-6118-4680 & 7919-6151-9057 & 7919-6151-9285

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Temp upon rec'd 4°C
No excursions received DUE 02/08/01

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Bill Canelos, CCI/JAJES	2/1/01	17:00	Printed Name and Signature: FedEx Tracking No. 7904-6118-4680 & 7919-6151-9057 & 7919-6151-9285	2/1/01	17:00
Printed Name and Signature:			Printed Name and Signature: PEL	2/2/01	10:10

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

LOGIN CHECK SHEET

Client: CH2M Hill Date Received: 2/2/01 Workorder #: 2101-310

(1). How were samples received? PEL Client Amer Other Fed Ex

(2). Are samples/cooler secure? Yes ✓ No

(3). Are the samples on ice? Yes ✓ No

(4). Temperature of the samples? 4 C (Actual)

(5). Are all samples on CoC present? Yes ✓ No

(6). Are all samples intact? Yes ✓ No

(7). Is sample volume sufficient? Yes ✓ No

(8). Are samples within hold? Yes ✓ No

(9). Are all samples to be run? Yes ✓ No

(10). pH verified by N/A

(11). Are sample containers correct? Yes ✓ No

(12). Soil origin? Domestic ✓ Foreign

(13). Is the site location/project ID on the CoC? Yes ✓ No

(14). Is the Client's Project Number on the CoC? Yes ✓ No

(15). Is the Project Manager identified on the CoC? Yes No ✓

(16). Is the CoC signed and dated as relinquished by client? Yes ✓ No

(17). Is the CoC signed and dated as received by PEL? Yes ✓ No

(18). Are the sampler's initials on the CoC? Yes No ✓

(19). Is the time and date of sampling on the CoC? Yes ✓ No

(20). Turn around time requested? Standard Rush ✓

(21). Does the client want verbal results? Yes ✓ No

(22). Does the client want results faxed? Yes ✓ No

(23). Date and time results are due to the client. 02/09/01

(24). Is PEL conducting all analysis? Yes No ✓

(25). If No, indicate subcontract lab. Test America (Nashville)

(26). How are sample transported to subcontract lab? Fed Ex

(27). Analytical parameters subcontracted and due date? Reactivity (02/12/01)

(28). Does the customer/site require a specific outside lab? Yes No

Client: CH2M Hill
Pro. #: 2101-310
Pro. Name: Cecil Field

Sample #	Parameter	Rel'd	Rec'd	Date	Time
1-10	Dry Weight (S)	TLK	DEM	2-6-01	4:40 pm
1-10	Dry Weight (S)	DEM	TLK	2-6-01	5:15 pm
1-10	8081 (S)	HP	JC	02-05-01	5:10 pm
1-10	8081 (S)	DEM	TLK	2-5-01	8:15 pm
1-10	8082 (S)	HP	JC	02-05-01	5:10 pm
1-10	8082 (S)	DEM	TLK	2-5-01	8:15 pm
1-10	1010 (S)	TLK	DEM	2-5-01	9:55 am
1-10	1010 (S)	DEM	TLK	2-5-01	6:00 pm
1-10	7470 TCLP (S)	HP	JC	02-05-01	5:10 pm
1-10	7470 TCLP (S)	DEM	TLK	2-5-01	8:15 pm
1-10	6010 (S)	HP	JC	02-05-01	5:00 pm
1-10	6010 (S)	DEM	TLK	2-5-01	8:15 pm
1-10	8260 (S)	HP	JC	02-05-01	5:00 pm
1-10	8260 (S)	DEM	TLK	2-5-01	8:15 pm
1-10	8270 (S)	HP	JC	02-05-01	5:00 pm
1-10	8270 (S)	DEM	TLK	2-5-01	8:15 pm
1-10	8081 TCLP (S)	HP	JC	02-05-01	5:00 pm
1-10	8081 TCLP (S)	DEM	TLK	2-5-01	8:15 pm
1-10	8151 TCLP (S)	HP	JC	02-05-01	5:10 pm
1-10	8151 TCLP (S)	DEM	TLK	2-5-01	8:15 pm
1-10	9045 (S)	HP	JC	02-05-01	5:10 pm
1-10	9045 (S)	DEM	TLK	2-5-01	6:00 pm

Addendum

Letter of Acceptance

Customer Name:	CH2MHILL
Date & Time Received:	2-2-01, 10:10 AM
Date to be Reported:	2-16-01
Laboratory Submission Number/SDG:	2101310
Project:	NAS Cecil Field

Samples: The submission consisted of 10 samples with sample identification shown in the attached data tables.

Tests: The sample will be analyzed for EPA and Standard Methods:
TCLP 8260, TCLP 8270, TCLP Pest., TCLP Herb., TCLP Metals, Ignitability, Corrosivity, 8082, 8081, and Reactivity.

Sample Custody/COC discrepancies:
None.

Notes: Preliminary results will be faxed 2-9-01. Preliminaries results for outside lab data will be faxed on 2-12-01.

Distribution of Report to:

1-CCI/JA JONES
Attn: Jennifer Zimmerman
Phone: 904-777-4812

2-CH2M HILL
Attn: Jeff Wilmoth
Phone: (770) 604-9182

3- CCI/JA JONES
Attn: Bill Canelos (Prelims only)
Phone: 904-777-4812

Respectfully Submitted,
PEL Laboratories, Inc.

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our letters and reports apply to the sample tested and are not necessarily indicative of the qualitities of apparently identical or similar materials.

Log-in Report

Total of: 100 analyses on 10 samples (including QC) *05-Feb-01*

Report/SDG #: 2101310

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC01S02	210131001	Site 25 Area 1	SO	2/1/01 11:20:00 AM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC02S02	210131002	Site 25 Area 2	SO	2/1/01 12:00:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

Report/SDG #: 2101310

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC03S02	210131003	Site 25 Area 3	SO	2/1/01 12:10:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC04S02	210131004	Site 25 Area 4	SO	2/1/01 12:15:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

Report/SDG #: 2101310

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC05S02	210131005	Site 25 Area 5	SO	2/1/01 2:30:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC06S02	210131006	Site 25 Area 6	SO	2/1/01 2:45:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

Report/SDG #: 2101310

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC07S02	210131007	Site 25 Area 7	SO	2/1/01 3:00:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC08S02	210131008	Site 25 Area 8	SO	2/1/01 3:40:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

Report/SDG #: 2101310

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC09S02	210131009	Site 25 / PCB1	SO	2/1/01 11:40:00 AM	2/2/01 10:10:00 AM

Method		
1010	Ignitability	1010
6010_TCLP	TCLP Metals by 1311/6010	6010
7470_TCLP	7470 TCLP Mercury	7470
8081	Pesticides	8081
8081_TCLP	Pestcides TCLP	8081
8082	PCB	8082
8151_TCLP	Herbicides TCLP	8151
8260_TCLP	Volatiles in Soil by 1311/8260	8260
8270_TCLP	TCLP Semivolatiles by 8270	8270
Dry Weight	Dry Weight	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
00525WC10S02	210131010	Site 25 / PCB2	SO	2/1/01 3:10:00 PM	2/2/01 10:10:00 AM

Method		
1010	Ignitability ✓	1010
6010_TCLP	TCLP Metals by 1311/6010 ✓	6010
7470_TCLP	7470 TCLP Mercury ✓	7470
8081	Pesticides ✓	8081
8081_TCLP	Pestcides TCLP ✓	8081
8082	PCB ✓	8082
8151_TCLP	Herbicides TCLP ✓	8151
8260_TCLP	Volatiles in Soil by 1311/8260 ✓	8260
8270_TCLP	TCLP Semivolatiles by 8270 ✓	8270
Dry Weight	Dry Weight	

LOGIN CHECK SHEET

Client: CH2M Hill Date Received: 2/2/01 Workorder #: 2101-31C

(1). How were samples received? PEL Client Amer Other Fed Ex

(2). Are samples/cooler secure? Yes ✓ No ____

(3). Are the samples on ice? Yes ✓ No ____

(4). Temperature of the samples? 4 C (Actual)

(5). Are all samples on CoC present? Yes ✓ No ____

(6). Are all samples intact? Yes ✓ No ____

(7). Is sample volume sufficient? Yes ✓ No ____

(8). Are samples within hold? Yes ✓ No ____

(9). Are all samples to be run? Yes ✓ No ____

(10). pH verified by N/A

(11). Are sample containers correct? Yes ✓ No ____

(12). Soil origin? Domestic ✓ Foreign ____

(13). Is the site location/project ID on the CoC? Yes ✓ No ____

(14). Is the Client's Project Number on the CoC? Yes ✓ No ____

(15). Is the Project Manager identified on the CoC? Yes ____ No ✓

(16). Is the CoC signed and dated as relinquished by client? Yes ✓ No ____

(17). Is the CoC signed and dated as received by PEL? Yes ✓ No ____

(18). Are the sampler's initials on the CoC? Yes ____ No ✓

(19). Is the time and date of sampling on the CoC? Yes ✓ No ____

(20). Turn around time requested? Standard ____ Rush ✓

(21). Does the client want verbal results? Yes ✓ No ____

(22). Does the client want results faxed? Yes ✓ No ____

(23). Date and time results are due to the client. 2/09/01

(24). Is PEL conducting all analysis? Yes ____ No ✓

(25). If No, indicate subcontract lab. Test America (Nashville)

(26). How are sample transported to subcontract lab? Fed Ex.

(27). Analytical parameters subcontracted and due date? Reactivity (02/12/01)

(28). Does the customer/site require a specific outside lab? Yes ____ No ____

PEL Laboratories, Inc.

FAX MESSAGE

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: 2/12/01

To: Jeff Wilmoth Bill Candos Jennifer Zimmerman

Company: CCI

Number: 678-579-8067 904-777-4262

From: Darcy Weisman

This transmittal consists of ____ page(s), exclusive of the cover sheet.

Notes:

Preliminaries for SDG 210310 pending 8081 (TCL and Total), 8151, Metal, PCB Watchin was faxed to your attention last week.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31001

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31002

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131003

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31003

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131004

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31004

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131005

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31005

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131006

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31006

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131007

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31007

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131008

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31008

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131009

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31009

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) AIR Lab Sample ID: 210131010

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 31010

Level: (low/med) HIGH Date Received: 02/02/01

% Moisture: not dec. _____ Date Analyzed: 02/08/01

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 10.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	Vinyl Chloride	0.050	U
75-35-4	1,1-Dichloroethene	0.10	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	1.0	U
56-23-5	Carbon tetrachloride	0.10	U
71-43-2	Benzene	0.10	U
107-06-2	1,2-Dichloroethane	0.10	U
79-01-6	Trichloroethylene	0.10	U
127-18-4	Tetrachloroethylene	0.70	U
108-90-7	Chlorobenzene	20	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131001

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 31001

% Moisture: 11 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/08/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.7	U
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	106	E
72-55-9	4,4'-DDE	1.7	U
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	1.7	U
5103-74-2	gamma-chlordane	1.7	U
8001-35-2	Toxaphene-Total	340	U

THERE IS AN INTERFERENCE PEAK AT THE DIELDRIN RETENTION TIME. DILUTION WILL CONFIRM OR REFUTE PRESENCE OF DIELDRIN

E = OVER CALIBRATION RANGE

RERUNNING @ 1:5 DILUTION

ALL RESULTS FOR PROJECT 310 MAY CHANGE DUE TO DILUTIONS.

2/9/01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131002

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 31002

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.7	U
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	6.1	
72-55-9	4,4'-DDE	1.7	U
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	8.0	
5103-74-2	gamma-chlordane	9.0	
8001-35-2	Toxaphene-Total	344	U

Jp 2/9/01

Jan 9/6/01

Lwc 2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131003

Sample wt/vol: 33.4 (g/mL) G Lab File ID: 31003

% Moisture: 13 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.7	U
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	421	E
72-55-9	4,4'-DDE	1.7	U
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	472	E
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	117	E
50-29-3	4,4'-DDT	1.7	U
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	294	E
5103-71-9	alpha-chlordane	308	E
5103-74-2	gamma-chlordane	345	U
8001-35-2	Toxaphene-Total		

RERUNNING @ 1:20 DILUTION

2/9/01

9 Feb 01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131004

Sample wt/vol: 33.1 (g/mL) G Lab File ID: 31004

% Moisture: 10 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.4	J
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	1.7	U
72-55-9	4,4'-DDE	110	E
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	248	E
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	147	E
5103-74-2	gamma-chlordane	146	E
8001-35-2	Toxaphene-Total	337	U

RERUNNING @ 1:10 DILUTION

SP 2/9/01

JMM 9 Feb 01

WK 2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131005

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 31005

% Moisture: 9 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	6.6	
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	99.2	E
72-55-9	4,4'-DDE	35.0	
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	111	E
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	79.3	E
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	143	E
5103-74-2	gamma-chlordane	168	E
8001-35-2	Toxaphene-Total	334	U

RERUNNING @ 1:10 DILUTION

2/9/01

from 9Feb01 LAC 2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131006

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 31006

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.7	U
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	1.7	U
72-55-9	4,4'-DDE	1.7	U
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	1.7	U
5103-74-2	gamma-chlordane	1.7	U
8001-35-2	Toxaphene-Total	343	U

2/9/01

2/9/01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131007

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 31007

% Moisture: 22 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	heptachlor	1.9	U
309-00-2	aldrin	1.9	U
1024-57-3	heptachlor epoxide	1.9	U
959-98-8	endosulfan I	1.9	U
60-57-1	dieldrin	1.9	U
72-55-9	4,4'-DDE	56.8	
72-20-8	endrin	1.9	U
33213-65-9	endosulfan II	1.9	U
72-54-8	4,4'-DDD	378	E
1031-07-8	endosulfan sulfate	1.9	U
50-29-3	4,4'-DDT	1090	E
72-43-5	methoxychlor	1.9	U
7421-93-4	endrin aldehyde	1.9	U
5103-71-9	alpha-chlordane	255	E
5103-74-2	gamma-chlordane	281	E
8001-35-2	Toxaphene-Total	387	U

RERUNNING @ 1:20 DILUTION

2/9/01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131008

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 31008

% Moisture: 7 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
319-86-8	delta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
76-44-8	heptachlor	1.6	U
309-00-2	aldrin	1.6	U
1024-57-3	heptachlor epoxide	1.8	
959-98-8	endosulfan I	1.6	U
60-57-1	dieldrin	1.6	U
72-55-9	4,4'-DDE	8.0	
72-20-8	endrin	1.6	U
33213-65-9	endosulfan II	1.6	U
72-54-8	4,4'-DDD	23.4	
1031-07-8	endosulfan sulfate	1.6	U
50-29-3	4,4'-DDT	9.4	
72-43-5	methoxychlor	1.6	U
7421-93-4	endrin aldehyde	1.6	U
5103-71-9	alpha-chlordane	32.2	
5103-74-2	gamma-chlordane	31.3	
8001-35-2	Toxaphene-Total	324	U

2/9/01

9 Feb 01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131009

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 31009

% Moisture: 16 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	heptachlor	1.8	U
309-00-2	aldrin	1.8	U
1024-57-3	heptachlor epoxide	1.8	U
959-98-8	endosulfan I	1.8	U
60-57-1	dieldrin	1.8	U
72-55-9	4,4'-DDE	1.8	U
72-20-8	endrin	1.8	U
33213-65-9	endosulfan II	1.8	U
72-54-8	4,4'-DDD	1.8	U
1031-07-8	endosulfan sulfate	1.8	U
50-29-3	4,4'-DDT	1.8	U
72-43-5	methoxychlor	1.8	U
7421-93-4	endrin aldehyde	1.8	U
5103-71-9	alpha-chlordane	1.8	U
5103-74-2	gamma-chlordane	1.8	U
8001-35-2	Toxaphene-Total	360	U

2/9/01

2/9/01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131010

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 31010

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	heptachlor	1.7	U
309-00-2	aldrin	1.7	U
1024-57-3	heptachlor epoxide	1.7	U
959-98-8	endosulfan I	1.7	U
60-57-1	dieldrin	451	E
72-55-9	4,4'-DDE	1.7	U
72-20-8	endrin	1.7	U
33213-65-9	endosulfan II	1.7	U
72-54-8	4,4'-DDD	1.7	U
1031-07-8	endosulfan sulfate	1.7	U
50-29-3	4,4'-DDT	1.7	U
72-43-5	methoxychlor	1.7	U
7421-93-4	endrin aldehyde	1.7	U
5103-71-9	alpha-chlordane	1.7	U
5103-74-2	gamma-chlordane	1.7	U
8001-35-2	Toxaphene-Total	345	U

RERUNNING @ 1:20 DILUTION

Sp 2/9/01

JM 9Feb01

LL 2/9/01

1010000 1000101 1100110

PEL Laboratories, Inc.

FAX MESSAGE

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: ~~2/12/01~~ 2/13/01 refax to BC.

To: Jeff Wilmoth Bill Canellos Jennifer Zimmerman

Company: CCI

Number: 678-579-8067 904-777-4262

From: Darcy Weisman

This transmittal consists of ____ page(s), exclusive of the cover sheet.

Notes:

Preliminaries from outside lab for SDG 210130

PEL Laboratories, Inc.
4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805 • Fax: (813) 248-1537
#8804 E-Mail: login@Pelab.com

Chain of Custody Record
Record/Work Request

Test America

225242 Page 1 of 2

Company: PEL
Address:
Phone: Fax:
Print Names(s) / Affiliation
Sampler(s) Signature(s)

Project Name/Number: 2101-310
Project Manager: Darcy Weisman
Purchase Order:

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:

Preservatives (see codes)

Analyses Requested

REQUESTED DUE DATE
7 Days

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	Reactive CN	Reactive Sulfide	Remarks	Lab. No.
	005257WC01502010101	2/1/1	11:20			1	X	X	14324	-01
	005257WC02502010101		12:00			1	X	X	25	02
	005257WC03502010101		12:10			1	X	X	26	03
	005257WC04502010101		12:15			1	X	X	27	04
	005257WC05502010101		14:30			1	X	X	28	05
	005257WC06502010101		14:45			1	X	X	29	06
	005257WC07502010101		15:00			1	X	X	30	07
	005257WC08502010101		15:40			1	X	X	31	08
	005257WC09502010101		11:40			1	X	X	14332	09
						9	← Total Number of Containers			

Shipment Method

Out: / / Via:
Returned: / / Via:
Additional Comments:
Level III QC / Reporting
Questions: see Jennifer Huckaba or Jennifer Romano

Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
	Michael A. Kirby / PEL	2/2/01	17:00			
					2-3-01	0830

Cooler No. (s) / Temperature(s) (C)
Sampling Kit No.
Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)
PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

Chain of Custody Record
Record/Work Request

PEL Laboratories, Inc.
4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805 • Fax: (813) 248-1537
E-Mail: login@Pelab.com

#8809

Test America

225242 Page 2 of 2

Company: PEL
Address:
Phone: Fax:
Print Names(s) / Affiliation
Sampler(s) Signature(s)

Project Name/Number: 2101-310
Project Manager: Darcy Weisman
Purchase Order:

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody Record
Effective Date: September 23, 1997
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
REQUESTED DUE DATE 7 Days

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composite	Matrix (see codes)	Number of Containers	Preservatives (see codes): Reactive CN	Preservatives (see codes): Reactive Sulfide	Remarks	Lab. No.
	0052SWC10502010	2/1/11	15:10			1	X	X	14333	10
						1	← Total Number of Containers			

Shipment Method
Out: / / Via:
Returned: / / Via.
Additional Comments.
Level III QC/Reporting Questions: see Jennifer Huckaba or Jennifer Romano

Item Nos.	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
	[signature] PEL	2/2/11	17:00			
					2/3/11	0900

Cooler No. (s) / Temperature(s) (C)
Sampling Kit No.
Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)
PRESERVATION CODES: H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: PEL BC# 225242

Cooler Received On: 8-30-01 And Opened On: 8-30-01 By: Michael McBride

(Signature)

1. Temperature of Cooler when opened 2° Degrees Celsius
2. Were custody seals on outside of cooler? ..... YES (NO)
   a. If yes, how many, what kind and where: _____
3. Were custody seals on containers and intact? ..... (NO) YES
4. Were the seals intact, signed, and dated correctly? ..... ~~YES NO~~
5. Were custody papers inside cooler? ..... (YES) NO
6. Were custody papers properly filled out (ink,signed,etc)? ..... (YES) NO
7. Did you sign the custody papers in the appropriate place? ..... (YES) NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)? ..... (YES) NO
10. Did all bottles arrive in good condition(unbroken)? ..... (YES) NO
11. Were all bottle labels complete (#,date,signed,pres,etc)? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were correct bottles used for the analysis requested? ..... YES (NO)
14. a. Were VOA vials received? ..... (NO) YES
    b. Was there any observable head space present in any VOA vial? ..... (YES) NO
15. Was sufficient amount of sample sent in each bottle? ..... ~~YES NO~~
16. Were correct preservatives used? ..... ~~NO YES~~
17. Was residual chlorine present? .....
17. Corrective action taken, if necessary:

    See attached for resolution

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14324
Sample ID: 00525WC01S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 11:20
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS					1	2/ 5/01	8:47	J. Rudden	CLP	5727
% Dry Weight	88.	%			1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/11/01		P.Lane		373
	Comment									

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14324
Sample ID: 00525WC01S020101
Project: 2101-310

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 2/11/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14325
Sample ID: 00525WC02S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:00
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS					1	2/ 5/01	8:47	J. Rudden	CLP	5727
% Dry Weight	89.	%			1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/11/01		P.Lane		373
	Comment									

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14325
Sample ID: 00525WC02S020101
Project: 2101-310

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 2/11/01

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Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14326
Sample ID: 00525WC03S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:10
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS					1	2/ 5/01	8:47	J. Rudden	CLP	5727
% Dry Weight	88.	%			1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/11/01		P.Lane		373
	Comment									

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14326
Sample ID: 00525WC03S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14327
Sample ID: 00525WC04S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 12:15
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	90.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14327
Sample ID: 00525WC04S020101
Project: 2101-310

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End of Sample Report.

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14328
Sample ID: 00525WC05S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 14:30
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	91.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14328
Sample ID: 00525WC05S020101
Project: 2101-310

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TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14329
Sample ID: 00525WC06S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 14:45
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	88.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	18:00	A.Bamarni	SW-846	8032
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14329
Sample ID: 00525WC06S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14330
Sample ID: 00525WC07S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:00
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	80.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment .					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 01-A14330
Sample ID: 00525WC07S020101
Project: 2101-310

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14331
Sample ID: 00525WC08S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:40
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	93.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

ample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 01-A14331
Sample ID: 00525WC08S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

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INCORPORATED

ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14332
Sample ID: 00525WC09S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 11:40
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

ample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 01-A14332
Sample ID: 00525WC09S020101
Project: 2101-310

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
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ANALYTICAL REPORT

PEL 8809
JORGE ALWOOOD
4420 PENDOLA POINT ROAD
TAMPA, FL 33619

Project: 2101-310
Project Name:
Sampler:

Lab Number: 01-A14333
Sample ID: 00525WC010S020101
Sample Type: Soil
Site ID:

Date Collected: 2/ 1/01
Time Collected: 15:10
Date Received: 2/ 3/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	2/ 5/01	8:47	J. Rudden	CLP	5727
Reactive Cyanide	ND	mg/kg	25.0	25.0	1	2/ 8/01	15:37	K. Warner	SW-846	9207
Reactive Sulfide	ND	mg/kg	50.0	50.0	1	2/ 7/01	21:30	A.Bamarni	SW-846	8049
	Comment					2/11/01		P.Lane		373

Reactivity results determined from total determination Methods 9012 & 9034.

ND - Not detected at the report limit.
- Recovery outside Laboratory historical limits.

All metal and organic results have been corrected for dry weight.

ample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A14333
Sample ID: 00525WC010S020101
Project: 2101-310

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Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA

- Value outside Laboratory historical QC limits.

PEL Laboratories, Inc.

FAX MESSAGE

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: 2/13/01

To: Jeff Wilmoth, Bill Canlas, Jennifer Zimmerman

Company: CCI

Number: 678-519-8067, 904-777-4262

From: Darcy Weisman

This transmittal consists of ___ page(s), exclusive of the cover sheet.

Notes:

Preliminaries for SDG 2101310
(TCLP Herb.)

FORM 2
WATER HERB SURROGATE RECOVERY

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	S2 1 %REC	#	S2 2 %REC	#	S3 1 %REC	#	S3 2 %REC	#	TOT OUT
01	00525WC01S0201	45*		55*										2
02	00525WC02S0201	49*		60*										2
03	00525WC03S0201	19*		24*										2
04	00525WC04S0201	32*		42*										2
05	00525WC05S0201	14*		21*										2
06	00525WC06S0201	11*		17*										2
07	00525WC07S0201	19*		27*										2
08	00525WC08S0201	1*		3*										2
09	00525WC09S0201	20*		30*										2
10	00525WC10S0201	13*		19*										2
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														

ADVISORY
QC LIMITS

S1 = DCAA (60-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Control limit source: (lab/method) LAB

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131001

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-01

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131002

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-02

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131003

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-03

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131004

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-04

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131005

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-05

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131006

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-06

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131007

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-07

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131008

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-08

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131009

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-09

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

FORM 1
HERB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131010

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: 310-10

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/12/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
94-75-7	2,4-D	0.500	U
93-72-1	2,4,5-TP	0.500	U

PEL Laboratories, Inc.

FAX MESSAGE

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: 2/13/01

To: Jeff Wilmoth Bill Carlos Jennifer Zimmerman

Company: CCI

Number: 678-579-8067 904-777-4262

From:

This transmittal consists of ____ page(s), exclusive of the cover sheet.

Notes:

Preliminaries for SDG 210310 (TCLP 8081)

*Please note units; finals will be reported in mg/L.

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131001

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31001A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

2/13/01

13Feb01

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131002

Sample wt/vol: 350.0 (g/mL) ML Lab File ID: 31002A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.14	U
76-44-8	heptachlor	0.14	U
1024-57-3	heptachlor epoxide	0.14	U
72-20-8	endrin	0.14	U
72-43-5	methoxychlor	0.14	U
57-74-9	Chlordane-Total	28.6	U
8001-35-2	Toxaphene-Total	28.6	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131003

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31003A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131004

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31004A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131005

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31005A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.067	J
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	1.1	J
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131006

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31006A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-170I ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131007

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31007A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.091	J
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	1.8	J
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131008

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31008A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131009

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31009A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

FORM 1
SVPEST ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131010

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 31010A

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/01

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/08/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.10	U
76-44-8	heptachlor	0.10	U
1024-57-3	heptachlor epoxide	0.10	U
72-20-8	endrin	0.10	U
72-43-5	methoxychlor	0.10	U
57-74-9	Chlordane-Total	20.0	U
8001-35-2	Toxaphene-Total	20.0	U

PEL Laboratories, Inc.

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

FAX MESSAGE

Date: 2/16/01

To: Jeff Wilmoth Bill Canelos Jennifer Simmons

Company: CCI

Number: 678-579-8067 904-777-4262

From:

This transmittal consists of — **page(s), exclusive of the cover sheet.**

Notes:

Pricing for SDG- 210/310
(8270)

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131001

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-01

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

WH 2/16/01

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131002

Sample wt/vol: 350.0 (g/mL) ML Lab File ID: 310-02

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	14.3	U
106-46-7	1,4-Dichlorobenzene	14.3	U
95-48-7	2-Methylphenol	14.3	U
67-72-1	Hexachloroethane	14.3	U
782-06-0	m and p-Methylphenol	14.3	U
98-95-3	Nitrobenzene	14.3	U
87-68-3	Hexachlorobutadiene	14.3	U
88-06-2	2,4,6-Trichlorophenol	14.3	U
95-95-4	2,4,5-Trichlorophenol	14.3	U
121-14-2	2,4-Dinitrotoluene	14.3	U
118-74-1	Hexachlorobenzene	14.3	U
87-86-5	Pentachlorophenol	28.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131003

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-03

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131004

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-04

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131005

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-05

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131006

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-06

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131007

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-07

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131008

Sample wt/vol: 480.0 (g/mL) ML Lab File ID: 310-08

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.4	U
106-46-7	1,4-Dichlorobenzene	10.4	U
95-48-7	2-Methylphenol	10.4	U
67-72-1	Hexachloroethane	10.4	U
782-06-0	m and p-Methylphenol	10.4	U
98-95-3	Nitrobenzene	10.4	U
87-68-3	Hexachlorobutadiene	10.4	U
88-06-2	2,4,6-Trichlorophenol	10.4	U
95-95-4	2,4,5-Trichlorophenol	10.4	U
121-14-2	2,4-Dinitrotoluene	10.4	U
118-74-1	Hexachlorobenzene	10.4	U
87-86-5	Pentachlorophenol	20.8	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131009

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-09

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) WATER Lab Sample ID: 210131010

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 310-10

Extraction: (SepF/Cont/Sonc) SEPF Date Received: 02/02/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/08/01

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/10/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: HPMS-5 ID: 0.25 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
110-86-1	Pyridine	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	U
95-48-7	2-Methylphenol	10.0	U
67-72-1	Hexachloroethane	10.0	U
782-06-0	m and p-Methylphenol	10.0	U
98-95-3	Nitrobenzene	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	10.0	U
121-14-2	2,4-Dinitrotoluene	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	20.0	U

FAX MESSAGE

PEL Laboratories, Inc.

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: 2/16/01

To: Lisa Schwarz

Company: CCI

Number: 678-579-8025

From: Darcy Weisman

This transmittal consists of — **page(s), exclusive of the cover sheet.**

Notes:

For your review.

SDG 210310
210318

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131001

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-01

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 11 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.0	U
11096-82-5	PCB 1260 Total	18600	E
11104-28-2	PCB 1221 Total	34.0	U
11141-16-5	PCB 1232 Total	34.0	U
53469-21-9	PCB 1242 Total	34.0	U
12672-29-6	PCB 1248 Total	34.0	U
11097-69-1	PCB 1254 Total	34.0	U

2/16/01

2/16/01

1/50 dilution, numbers will change

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131002

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 310-02

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.4	U
11096-82-5	PCB 1260 Total	1610	E
11104-28-2	PCB 1221 Total	34.4	U
11141-16-5	PCB 1232 Total	34.4	U
53469-21-9	PCB 1242 Total	34.4	U
12672-29-6	PCB 1248 Total	34.4	U
11097-69-1	PCB 1254 Total	34.4	U

Jan 2/16/01
SP 2/16/01
LLC 2/16/01

1/5 dilution, #'s will change

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131003

Sample wt/vol: 33.4 (g/mL) G Lab File ID: 310-03

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 13 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.5	U
11096-82-5	PCB 1260 Total	34.5	U
11104-28-2	PCB 1221 Total	34.5	U
11141-16-5	PCB 1232 Total	34.5	U
53469-21-9	PCB 1242 Total	34.5	U
12672-29-6	PCB 1248 Total	34.5	U
11097-69-1	PCB 1254 Total	34.5	U

jm 16 Feb 01
sp 2/16/01
LLL 2/16/01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131004

Sample wt/vol: 33.1 (g/mL) G Lab File ID: 310-04

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 10 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	33.7	U
11096-82-5	PCB 1260 Total	1800	E
11104-28-2	PCB 1221 Total	33.7	U
11141-16-5	PCB 1232 Total	33.7	U
53469-21-9	PCB 1242 Total	33.7	U
12672-29-6	PCB 1248 Total	33.7	U
11097-69-1	PCB 1254 Total	33.7	U

jm 16 Feb 01
sp 2/16/01
MK 2/16/01

1/5 dilution; #'s will change

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131005

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-05

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 9 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	33.4	U
11096-82-5	PCB 1260 Total	33.4	U
11104-28-2	PCB 1221 Total	33.4	U
11141-16-5	PCB 1232 Total	33.4	U
53469-21-9	PCB 1242 Total	33.4	U
12672-29-6	PCB 1248 Total	33.4	U
11097-69-1	PCB 1254 Total	33.4	U

16 Feb 01
2/16/01
2/16/01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131006

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 310-06

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10 (ml) Date Analyzed: 02/09/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.3	U
11096-82-5	PCB 1260 Total	928	
11104-28-2	PCB 1221 Total	34.3	U
11141-16-5	PCB 1232 Total	34.3	U
53469-21-9	PCB 1242 Total	34.3	U
12672-29-6	PCB 1248 Total	34.3	U
11097-69-1	PCB 1254 Total	34.3	U

16 Feb 01
SG 2/16/01
WL 2/16/01

1/2 dilution, #'s will change.

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131007

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 310-07

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 22 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	38.7	U
11096-82-5	PCB 1260 Total	38.7	U
11104-28-2	PCB 1221 Total	38.7	U
11141-16-5	PCB 1232 Total	38.7	U
53469-21-9	PCB 1242 Total	38.7	U
12672-29-6	PCB 1248 Total	38.7	U
11097-69-1	PCB 1254 Total	38.7	U

jm 16Feb01
SP 2/16/01
WC 2/16/01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131008

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 310-08

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 7 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	32.4	U
11096-82-5	PCB 1260 Total	32.4	U
11104-28-2	PCB 1221 Total	32.4	U
11141-16-5	PCB 1232 Total	32.4	U
53469-21-9	PCB 1242 Total	32.4	U
12672-29-6	PCB 1248 Total	32.4	U
11097-69-1	PCB 1254 Total	32.4	U

fm 16/2/01
SP 2/16/01
WMC 2/16/01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131009

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-09

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 16 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	36.0	U
11096-82-5	PCB 1260 Total	13100	E
11104-28-2	PCB 1221 Total	36.0	U
11141-16-5	PCB 1232 Total	36.0	U
53469-21-9	PCB 1242 Total	36.0	U
12672-29-6	PCB 1248 Total	36.0	U
11097-69-1	PCB 1254 Total	36.0	U

JM 16 Feb 01
SP 2/16/01
LK 2/16/01
1/50 dilution; #'s will change

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131010

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-10

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10 (ml) Date Analyzed: 02/09/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.5	U
11096-82-5	PCB 1260 Total	4720	E
11104-28-2	PCB 1221 Total	34.5	U
11141-16-5	PCB 1232 Total	34.5	U
53469-21-9	PCB 1242 Total	34.5	U
12672-29-6	PCB 1248 Total	34.5	U
11097-69-1	PCB 1254 Total	34.5	U

16 Feb 01
SP 2/16/01
LWC 2/16/01
1/10 dilution; #'s will chang

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

535WC01S020201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101318

Matrix: (soil/water) SOIL Lab Sample ID: 210131801

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 318-01

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/03/01

% Moisture: 19 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	37.0	U
11096-82-5	PCB 1260 Total	37.0	U
11104-28-2	PCB 1221 Total	37.0	U
11141-16-5	PCB 1232 Total	37.0	U
53469-21-9	PCB 1242 Total	37.0	U
12672-29-6	PCB 1248 Total	37.0	U
11097-69-1	PCB 1254 Total	37.0	U

Re-running

jm 16 Feb 01
sp 2/16/01
wk 2/16/01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

42WC01S020201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101318

Matrix: (soil/water) SOIL Lab Sample ID: 210131802

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 318-02

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/03/01

% Moisture: 23 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	38.9	U
11096-82-5	PCB 1260 Total	38.9	U
11104-28-2	PCB 1221 Total	38.9	U
11141-16-5	PCB 1232 Total	38.9	U
53469-21-9	PCB 1242 Total	38.9	U
12672-29-6	PCB 1248 Total	38.9	U
11097-69-1	PCB 1254 Total	38.9	U

16 Feb 01
SP 2/16/01
LLC 2/16/01

Re-running

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

42WC02S020201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101318

Matrix: (soil/water) SOIL Lab Sample ID: 210131803

Sample wt/vol: 33.1 (g/mL) G Lab File ID: 318-03

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/03/01

% Moisture: 20 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10 (ml) Date Analyzed: 02/09/01

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	37.8	U
11096-82-5	PCB 1260 Total	37.8	U
11104-28-2	PCB 1221 Total	37.8	U
11141-16-5	PCB 1232 Total	37.8	U
53469-21-9	PCB 1242 Total	37.8	U
12672-29-6	PCB 1248 Total	37.8	U
11097-69-1	PCB 1254 Total	37.8	U

fla 16Feb01
SP 2/16/01
WK 2/16/01

Re-running

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

42WC03S020201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101318

Matrix: (soil/water) SOIL Lab Sample ID: 210131804

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 318-04

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/03/01

% Moisture: 6 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/10/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column: XTI-5 ID: 0.53 (mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	32.2	U
11096-82-5	PCB 1260 Total	32.2	U
11104-28-2	PCB 1221 Total	32.2	U
11141-16-5	PCB 1232 Total	32.2	U
53469-21-9	PCB 1242 Total	32.2	U
12672-29-6	PCB 1248 Total	32.2	U
11097-69-1	PCB 1254 Total	32.2	U

Jm 16 Feb 01
SP 2/16/01
WL 2/16/01

Re-running

PEL Laboratories, Inc.

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

FAX MESSAGE

Date: 17 Feb 2001

To: _____

Company: _____

Number: _____

From: Scott Meldeen, chemist

This transmittal consists of 14 **page(s), exclusive of the cover sheet.**

Notes:

Preliminary results pending peer review and final QA review.

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC01S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131001

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-01D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 11 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	1700	U
11096-82-5	PCB 1260 Total	30300	
11104-28-2	PCB 1221 Total	1700	U
11141-16-5	PCB 1232 Total	1700	U
53469-21-9	PCB 1242 Total	1700	U
12672-29-6	PCB 1248 Total	1700	U
11097-69-1	PCB 1254 Total	1700	U

17Feb01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC02S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131002

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 310-02D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	172	U
11096-82-5	PCB 1260 Total	2380	
11104-28-2	PCB 1221 Total	172	U
11141-16-5	PCB 1232 Total	172	U
53469-21-9	PCB 1242 Total	172	U
12672-29-6	PCB 1248 Total	172	U
11097-69-1	PCB 1254 Total	172	U

BM 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC03S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131003

Sample wt/vol: 33.4 (g/mL) G Lab File ID: 310-03

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 13 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	34.5	U
11096-82-5	PCB 1260 Total	34.5	U
11104-28-2	PCB 1221 Total	34.5	U
11141-16-5	PCB 1232 Total	34.5	U
53469-21-9	PCB 1242 Total	34.5	U
12672-29-6	PCB 1248 Total	34.5	U
11097-69-1	PCB 1254 Total	34.5	U

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FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC04S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131004

Sample wt/vol: 33.1 (g/mL) G Lab File ID: 310-04D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 10 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	168	U
11096-82-5	PCB 1260 Total	1550	
11104-28-2	PCB 1221 Total	168	U
11141-16-5	PCB 1232 Total	168	U
53469-21-9	PCB 1242 Total	168	U
12672-29-6	PCB 1248 Total	168	U
11097-69-1	PCB 1254 Total	168	U

JM 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC05S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131005

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-05

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 9 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	33.4	U
11096-82-5	PCB 1260 Total	33.4	U
11104-28-2	PCB 1221 Total	33.4	U
11141-16-5	PCB 1232 Total	33.4	U
53469-21-9	PCB 1242 Total	33.4	U
12672-29-6	PCB 1248 Total	33.4	U
11097-69-1	PCB 1254 Total	33.4	U

Jm 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC06S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131006

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 310-06D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	68.6	U
11096-82-5	PCB 1260 Total	796	
11104-28-2	PCB 1221 Total	68.6	U
11141-16-5	PCB 1232 Total	68.6	U
53469-21-9	PCB 1242 Total	68.6	U
12672-29-6	PCB 1248 Total	68.6	U
11097-69-1	PCB 1254 Total	68.6	U

JBM 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC07S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131007

Sample wt/vol: 33.2 (g/mL) G Lab File ID: 310-07

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 22 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	38.7	U
11096-82-5	PCB 1260 Total	38.7	U
11104-28-2	PCB 1221 Total	38.7	U
11141-16-5	PCB 1232 Total	38.7	U
53469-21-9	PCB 1242 Total	38.7	U
12672-29-6	PCB 1248 Total	38.7	U
11097-69-1	PCB 1254 Total	38.7	U

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FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC08S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131008

Sample wt/vol: 33.3 (g/mL) G Lab File ID: 310-08

Extraction: (SepF/Cont/Sonc) SONC Date Received: 02/02/01

% Moisture: 7 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/09/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	32.4	U
11096-82-5	PCB 1260 Total	32.4	U
11104-28-2	PCB 1221 Total	32.4	U
11141-16-5	PCB 1232 Total	32.4	U
53469-21-9	PCB 1242 Total	32.4	U
12672-29-6	PCB 1248 Total	32.4	U
11097-69-1	PCB 1254 Total	32.4	U

JBM 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC09S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131009

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-09D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 16 decanted: (Y/N) N Date Extracted:02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	3160	
11096-82-5	PCB 1260 Total	23000	
11104-28-2	PCB 1221 Total	1800	U
11141-16-5	PCB 1232 Total	1800	U
53469-21-9	PCB 1242 Total	1800	U
12672-29-6	PCB 1248 Total	1800	U
11097-69-1	PCB 1254 Total	1800	U

JSM 17 Feb 01

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

00525WC10S0201

Lab Name: PEL LABORATORIES INC. Contract:

Lab Code: PEL Case No.: SAS No.: SDG No.: 2101310

Matrix: (soil/water) SOIL Lab Sample ID: 210131010

Sample wt/vol: 33.0 (g/mL) G Lab File ID: 310-10D

Extraction: (SepF/Cont/Sonc) Date Received: 02/02/01

% Moisture: 12 decanted: (Y/N) N Date Extracted: 02/07/01

Concentrated Extract Volume: 10(ml) Date Analyzed: 02/17/01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___

GC Column (1): XTI-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	PCB 1016 Total	345	U
11096-82-5	PCB 1260 Total	4320	
11104-28-2	PCB 1221 Total	345	U
11141-16-5	PCB 1232 Total	345	U
53469-21-9	PCB 1242 Total	345	U
12672-29-6	PCB 1248 Total	345	U
11097-69-1	PCB 1254 Total	345	U

JBM 17 Feb 01

Waste Characterization for Oily Groundwater Removed from Excavation

(available upon request)
Kemron #L0106236

KEMRON REPORT L0106236

PREPARED FOR CH2MHILL

WORK ID: NAS CECIL FIELD

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1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0106236

CHAIN OF CUSTODY:

The chain of custody number was 148799-26.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The cooler temperature was 0°C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Jessie Lucina DATE: 6-12-01

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0106236

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: CMS REVIEWED: Crystal Stevens DATE: 6-18-01

REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS associated with this sample yielded a % recovery for benzoic acid that was below the lower advisory limit. All other acceptance criteria were met.
Matrix Spikes: The MS/MSD were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.
Surrogates: The sample yielded a % recovery for 2-fluorophenol that was below the lower advisory limit and a % recovery for nitrobenzene-d5 that was above the upper advisory limit; this was attributed to sample matrix interference. All other acceptance criteria were met.
Samples: The sample was analyzed at a 10X dilution due to appearance. All other acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: mdc

REVIEWED: _____ DATE: 6/22/01

Rev. 6/00

5

REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS yielded % recoveries for aldrin, gamma-chlordane, alpha-chlordane, 4,4'-DDE and 4,4'-DDT that were below the advisory limits. All other acceptance criteria were met.
Matrix Spikes: All acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.
Endrin/ DDT Breakdown : All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL REVIEWED Stephanie E Sipe DATE: 6/22/01

Rev. 7/14/00

REPORT NARRATIVE
GC PCB

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: There were no MS/MSD results associated with this batch.

SAMPLES

Surrogates: All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie L Hope DATE: 5/22/01

Rev. 7/14/00

REPORT NARRATIVE
GC HERBICIDES

KEMRON Report No.:L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8151

HOLDING TIMES

Sample Preparation: Sample fraction -01 was reextracted out of hold time.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS associated with WG99391 yielded % recoveries for all compounds that were below the advisory limits. Samples in this work group were reextracted. All other acceptance criteria were met.
Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: The blank and LCS associated with WG99391 yielded % recoveries for DCAA that were below the advisory limit. Samples in this work group were reextracted. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL REVIEWED: Stephanie L Lupo DATE: 6/22/01

Rev. 7/14/00

8

REPORT NARRATIVE
GC PRO RANGE ORGANICS

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: The water MS/MSD results associated with sample, yielded %recoveries that were above the upper control limit. But the LCS results were acceptable. All acceptance criteria were met

SAMPLES

Samples: Sample and MS/MSD were analyzed at dilutions to ensure the results were with in the linear range of an instrument. All acceptance criteria were met.
Surrogates: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED: Stephanie C Lipe DATE: 2/22/01

Rev. 7/14/00

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REPORT NARRATIVE
METALS

KEMRON Login No: L0106236

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: KHR/JYH REVIEWED: Marie Beery DATE: 06/19/01

Rev. 6/00

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REPORT NARRATIVE
GENERAL CHEMISTRY

KEMRON Login No: L0106236

METHOD

Analysis: See report for method reference.

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met
Duplicates: All acceptance criteria were met
Matrix Spikes: All acceptance criteria were met.

SAMPLES

Cyanide

The duplicate and MS were contaminated by a previous run. The affected sample was reanalyzed to show this. The duplicate and MS were not rerun.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: dih REVIEWED: dlh DATE: 6/15/00

Rev. 6/00

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA PACKAGE

Analytical Method : **1010** AAB # : **WG99245**

Lab Name : **Kemron Environmental Services** Contract # :

Base/Command : Prime Contractor : **CCI**

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe Name: **Dennis S. Tepe**

Date: **22-JUN-01** Title: **Laboratory Manager**

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 1010 Preparatory Method: 1010 AAB # : WG99245

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PRECISION 11-JUN-01 14:35

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 11-JUN-01 14:35

Concentration Units: Degrees C Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Ignitability			95.0	1	>

Comments:

KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA PACKAGE

Analytical Method : 9010B

AAB # : WG99252

Lab Name : Kemron Environmental Services

Contract # :

Base/Command :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 22-JUN-01

Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9010B Preparatory Method: 9014 AAB # : WG99252

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: UV-120-02 12-JUN-01 08:20

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 12-JUN-01 08:20

Concentration Units: mg/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Cyanide	0.005	0.01	0.005	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA PACKAGE

Analytical Method : **9040**

AAB # : **WG99266**

Lab Name : **Kemron Environmental Services**

Contract # :

Base/Command :

Prime Contractor : **CCI**

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **22-JUN-01**

Title: **Laboratory Manager**

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9040 Preparatory Method: 9040 AAB # : WG99266

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: ORION-710A 12-JUN-01 16:00

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 12-JUN-01 16:00

Concentration Units: UNITS Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Corrosivity pH			7.61	1	

Comments:

KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA PACKAGE

Analytical Method : SW-846

Lab Name : Kemron Environmental Services

Base/Command :

AAB # : WG99447

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 22-JUN-01

Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA SHEET 2

RESULTS

Analytical Method : SW-846 Preparatory Method: SW-846 AAB # : WG99447

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: BURET 14-JUN-01 08:30

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 08:30

Concentration Units: mg/kg Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Reactivity, Sulfide	100	100	100	1	ND

Comments:

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KEMRON ENVIRONMENTAL SERVICES
WET CHEM ANALYSES DATA PACKAGE

Analytical Method : SW-846
AAB # : WG99448
Lab Name : Kemron Environmental Services
Contract # :
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 22-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

WET CHEM ANALYSES DATA SHEET 2

RESULTS

Analytical Method : SW-846 Preparatory Method: SW-846 AAB # : WG99448

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: UV-120-1V 14-JUN-01 08:30

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 08:30

Concentration Units: mg/kg Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Reactivity, Cyanide	10.0	10	10.0	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG99435

Lab Name : Kemron Environmental Services

Contract # :

Base/Command :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 22-JUN-01

Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG99435

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 14-JUN-01 15:45

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 10:06 Date Analyzed: 14-JUN-01 15:45

Concentration Units: mg/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.049	0.10	68.0	1	
Arsenic, Total	0.000796	0.004	0.027	1	
Barium, Total	0.0016	0.01	0.260	1	
Beryllium, Total	0.000035	0.01	0.000035	1	ND
Cadmium, Total	0.00071	0.01	0.033	1	
Calcium, Total	0.0308	0.20	170	1	
Chromium, Total	0.00057	0.02	0.220	1	
Cobalt, Total	0.00047	0.02	0.00047	1	ND
Copper, Total	0.0019	0.02	0.250	1	
Lead, Total	0.00117	0.005	0.400	1	
Magnesium, Total	0.00991	0.50	6.90	1	
Manganese, Total	0.00021	0.01	2.30	1	
Nickel, Total	0.0036	0.04	0.048	1	
Potassium, Total	0.250	1.0	6.50	1	
Silver, Total	0.00045	0.01	0.00045	1	ND
Sodium, Total	0.150	0.50	6.80	1	
Vanadium, Total	0.0036	0.01	0.087	1	
Zinc, Total	0.00317	0.02	1.40	1	

Comments:

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG99435

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 14-JUN-01 18:40

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 10:06 Date Analyzed: 14-JUN-01 18:40

Concentration Units: mg/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Iron, Total	0.460	4.0	220	100	

Comments:

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6020A**

AAB # : **WG99534**

Lab Name : **Kemron Environmental Services**

Contract # :

Base/Command :

Prime Contractor : **CCI**

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **22-JUN-01**

Title: **Laboratory Manager**

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG99534

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: ELAN-ICP 18-JUN-01 11:27

Date Received: 09-JUN-01 Date Extracted: 15-JUN-01 11:02 Date Analyzed: 18-JUN-01 11:27

Concentration Units: mg/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Antimony, Total	0.0005	0.001	0.00582	1	
Selenium, Total	0.0005	0.001	0.00137	1	
Thallium, Total	0.0001	0.0002	0.000111	1	J

Comments:

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 7470A

AAB # : WG99370

Lab Name : Kemron Environmental Services

Contract # :

Base/Command :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 22-JUN-01

Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7470A Preparatory Method: METHOD AAB # : WG99370

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PS202 14-JUN-01 10:47

Date Received: 09-JUN-01 Date Extracted: 13-JUN-01 08:10 Date Analyzed: 14-JUN-01 10:47

Concentration Units: mg/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.000052	0.0002	0.0016	1	

Comments:

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6010B**

AAB # : **WG99435**

Lab Name : **Kemron Environmental Services**

Contract # :

Base/Command :

Prime Contractor : **CCI**

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **19-JUN-01**

Title: **Laboratory Manager**

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG99435

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 14-JUN-01

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 Date Analyzed: 14-JUN-01 18:40

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Iron, Total	0.460	4.0	220	100	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

Page 1 of 1

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG99435

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 14-JUN-01

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 Date Analyzed: 14-JUN-01 15:45

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.049	0.10	68.0	1	
Arsenic, Total	0.000796	0.004	0.027	1	
Barium, Total	0.0016	0.01	0.260	1	
Beryllium, Total	0.000035	0.01	0.000035	1	ND
Cadmium, Total	0.00071	0.01	0.033	1	
Calcium, Total	0.0308	0.20	170	1	
Chromium, Total	0.00057	0.02	0.220	1	
Cobalt, Total	0.00047	0.02	0.00047	1	ND
Copper, Total	0.0019	0.02	0.250	1	
Lead, Total	0.00117	0.005	0.400	1	
Magnesium, Total	0.00991	0.50	6.90	1	
Manganese, Total	0.00021	0.01	2.30	1	
Nickel, Total	0.0036	0.04	0.048	1	
Potassium, Total	0.250	1.0	6.50	1	
Silver, Total	0.00045	0.01	0.00045	1	ND
Sodium, Total	0.150	0.50	6.80	1	
Vanadium, Total	0.0036	0.01	0.087	1	
Zinc, Total	0.00317	0.02	1.40	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6020A

Lab Name : Kemron Environmental Services

Base/Command :

AAB # : WG99534

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 19-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG99534

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: ELAN-ICP 18-JUN-01

Date Received: 09-JUN-01 Date Extracted: 15-JUN-01 Date Analyzed: 18-JUN-01 11:27

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Antimony, Total	0.0005	0.001	0.00582	1	
Selenium, Total	0.0005	0.001	0.00137	1	
Thallium, Total	0.0001	0.0002	0.000111	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 7470A

AAB # : WG99370

Lab Name : Kemron Environmental Services

Contract # :

Base/Command :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name: Dennis S. Tepe

Date: 19-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7470A Preparatory Method: METHOD AAB # : WG99370

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: PS202 14-JUN-01

Date Received: 09-JUN-01 Date Extracted: 13-JUN-01 Date Analyzed: 14-JUN-01 10:47

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.000052	0.0002	0.0016	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015 AAB # : WG99298

Lab Name : Kemron Environmental Services Contract # :

Base/Command : Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe Name: Dennis S. Tepe

Date: 22-JUN-01 Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3510C AAB # : WG99298

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 13-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 17:00 Date Analyzed: 13-JUN-01 16:45

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	25000	50000	550000	100	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl		49 - 174	DL

Internal Std	Qualifier

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8151
AAB # : WG99391
Lab Name : Kemron Environmental Services
Contract # :
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 22-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8151 Preparatory Method: METHOD AAB # : WG99391

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP1 18-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 13-JUN-01 Date Analyzed: 18-JUN-01 20:52

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-T	0.100	0.20	0.100	1	ND
2,4,5-TP (Silvex)	0.100	0.20	0.100	1	ND
2,4-D	1.00	2.0	1.00	1	ND
2,4-DB	1.00	2.0	1.00	1	ND
Dalapon	2.50	5.0	2.50	1	ND
Dicamba	0.100	0.20	0.100	1	ND
Dichloroprop	1.00	2.0	1.00	1	ND
Dinoseb	0.500	1.0	0.500	1	ND
MCPA	100	250	100	1	ND
MCPP	100	250	100	1	ND
Pentachlorophenol	0.100	0.20	0.100	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4-Dichlorophenylacetic acid	26.9	20 - 144	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8151
Lab Name : Kemron Environmental Services
Base/Command :

AAB # : WG99805
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 22-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8151 Preparatory Method: METHOD AAB # : WG99805
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water
% Solids: 0 Initial Calibration ID: HP1 18-JUN-2001
Date Received: 09-JUN-01 Date Extracted: 19-JUN-01 14:15 Date Analyzed: 20-JUN-01 16:58
Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-T	0.100	0.20	0.100	1	ND
2,4,5-TP (Silvex)	0.100	0.20	0.100	1	ND
2,4-D	1.00	2.0	1.00	1	ND
2,4-DB	1.00	2.0	1.00	1	ND
Dalapon	2.50	5.0	2.50	1	ND
Dicamba	0.100	0.20	0.100	1	ND
Dichloroprop	1.00	2.0	1.00	1	ND
Dinoseb	0.500	1.0	0.500	1	ND
MCPA	100	250	100	1	ND
MCPP	100	250	100	1	ND
Pentachlorophenol	0.100	0.20	0.100	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4-Dichlorophenylacetic acid	52.9	20 - 144	

Internal Std	Qualifier

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8082 AAB # : WG99306

Lab Name : Kemron Environmental Services Contract # :

Base/Command : Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

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Signature: Dennis S. Tepe Name: Dennis S. Tepe

Date: 22-JUN-01 Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3510C AAB # : WG99306

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP7 07-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 14-JUN-01 16:59

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	0.250	0.50	0.250	1	ND
Aroclor-1221	0.250	0.50	0.250	1	ND
Aroclor-1232	0.250	0.50	0.250	1	ND
Aroclor-1242	0.250	0.50	0.250	1	ND
Aroclor-1248	0.250	0.50	0.250	1	ND
Aroclor-1254	0.250	0.50	0.250	1	ND
Aroclor-1260	0.250	0.50	2.20	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	90.8	30 - 132	
Decachlorobiphenyl	33.2	36 - 144	*

Internal Std	Qualifier

Comments:

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8081
AAB # : WG99305
Lab Name : Kemron Environmental Services
Contract # :
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 22-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 15-JUN-01 23:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.025	0.10	0.140	1	P
4,4'-DDE	0.025	0.10	0.320	1	
4,4'-DDT	0.025	0.10	0.110	1	P
Aldrin	0.010	0.05	0.010	1	ND
Dieldrin	0.025	0.10	0.025	1	ND
Endosulfan I	0.010	0.05	0.010	1	ND
Endosulfan II	0.025	0.10	0.025	1	ND
Endosulfan sulfate	0.025	0.10	0.025	1	ND
Endrin	0.025	0.10	0.025	1	ND
Endrin aldehyde	0.025	0.10	0.025	1	ND
Endrin ketone	0.025	0.10	0.025	1	ND
Heptachlor	0.010	0.05	0.010	1	ND
Heptachlor epoxide	0.010	0.05	0.010	1	ND
Methoxychlor	0.025	0.50	0.025	1	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.010	0.05	3.00	1	I
alpha-BHC	0.010	0.05	0.010	1	ND
beta-BHC	0.010	0.05	0.010	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 15-JUN-01 23:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.010	0.05	0.010	1	ND
gamma Chlordane	0.010	0.05	1.90	1	I
gamma-BHC (Lindane)	0.010	0.05	0.010	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	126	13 - 154	
Decachlorobiphenyl	187	25 - 140	*

Internal Std	Qualifier

Comments:

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 15-JUN-01 23:26

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.025	0.10	0.270	1	P
4,4'-DDE	0.025	0.10	0.350	1	
4,4'-DDT	0.025	0.10	0.240	1	P
Aldrin	0.010	0.05	0.010	1	ND
Dieldrin	0.025	0.10	0.025	1	ND
Endosulfan I	0.010	0.05	0.010	1	ND
Endosulfan II	0.025	0.10	0.025	1	ND
Endosulfan sulfate	0.025	0.10	0.025	1	ND
Endrin	0.025	0.10	0.025	1	ND
Endrin aldehyde	0.025	0.10	0.025	1	ND
Endrin ketone	0.025	0.10	0.025	1	ND
Heptachlor	0.010	0.05	0.010	1	ND
Heptachlor epoxide	0.010	0.05	0.010	1	ND
Methoxychlor	0.025	0.50	0.025	1	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.010	0.05	1.50	1	I
alpha-BHC	0.010	0.05	0.010	1	ND
beta-BHC	0.010	0.05	0.010	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 15-JUN-01 23:26

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.010	0.05	0.010	1	ND
gamma Chlordane	0.010	0.05	2.30	1	I
gamma-BHC (Lindane)	0.010	0.05	0.010	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	81.4	13 - 154	
Decachlorobiphenyl	97.7	25 - 140	

Internal Std	Qualifier

Comments:

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 18-JUN-01 17:54

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 18-JUN-01 17:54

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.250	1.0	0.250	10	ND
4,4'-DDE	0.250	1.0	0.300	10	J
4,4'-DDT	0.250	1.0	0.250	10	ND
Aldrin	0.100	0.50	0.100	10	ND
Dieldrin	0.250	1.0	0.250	10	ND
Endosulfan I	0.100	0.50	0.100	10	ND
Endosulfan II	0.250	1.0	0.250	10	ND
Endosulfan sulfate	0.250	1.0	0.250	10	ND
Endrin	0.250	1.0	0.250	10	ND
Endrin aldehyde	0.250	1.0	0.250	10	ND
Endrin ketone	0.250	1.0	0.250	10	ND
Heptachlor	0.100	0.50	0.100	10	ND
Heptachlor epoxide	0.100	0.50	0.100	10	ND
Methoxychlor	0.250	5.0	0.250	10	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.100	0.50	3.20	10	P
alpha-BHC	0.100	0.50	0.100	10	ND
beta-BHC	0.100	0.50	0.100	10	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 18-JUN-01 17:54

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 18-JUN-01 17:54

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.100	0.50	0.100	10	ND
gamma Chlordane	0.100	0.50	1.80	10	P
gamma-BHC (Lindane)	0.100	0.50	0.100	10	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene		13 - 154	DL
Decachlorobiphenyl		25 - 140	DL

Internal Std	Qualifier

Comments:

Page 2 of 2 7

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 18-JUN-01 18:18

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.250	1.0	0.250	10	ND
4,4'-DDE	0.250	1.0	0.340	10	J
4,4'-DDT	0.250	1.0	0.250	10	J
Aldrin	0.100	0.50	0.100	10	ND
Dieldrin	0.250	1.0	0.250	10	ND
Endosulfan I	0.100	0.50	0.100	10	ND
Endosulfan II	0.250	1.0	0.250	10	ND
Endosulfan sulfate	0.250	1.0	0.250	10	ND
Endrin	0.250	1.0	0.250	10	ND
Endrin aldehyde	0.250	1.0	0.250	10	ND
Endrin ketone	0.250	1.0	0.250	10	ND
Heptachlor	0.100	0.50	0.100	10	ND
Heptachlor epoxide	0.100	0.50	0.100	10	ND
Methoxychlor	0.250	5.0	0.250	10	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.100	0.50	1.50	10	P
alpha-BHC	0.100	0.50	0.100	10	ND
beta-BHC	0.100	0.50	0.100	10	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG99305

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 15:00 Date Analyzed: 18-JUN-01 18:18

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.100	0.50	0.100	10	ND
gamma Chlordane	0.100	0.50	2.40	10	P
gamma-BHC (Lindane)	0.100	0.50	0.100	10	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene		13 - 154	DL
Decachlorobiphenyl		25 - 140	DL

Internal Std	Qualifier

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270

Lab Name : Kemron Environmental Services

Base/Command :

AAB # : WG99366

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

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Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 22-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG99366

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS4 12-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 09:30 Date Analyzed: 15-JUN-01 20:38

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	8.48	50	8.48	10	ND
1,2-Dichlorobenzene	8.26	50	8.26	10	ND
1,3-Dichlorobenzene	8.10	50	8.10	10	ND
1,4-Dichlorobenzene	8.75	50	8.75	10	ND
2,4,5-Trichlorophenol	8.80	50	8.80	10	ND
2,4,6-Trichlorophenol	9.49	50	9.49	10	ND
2,4-Dichlorophenol	10.2	50	10.2	10	ND
2,4-Dimethylphenol	19.6	50	19.6	10	ND
2,4-Dinitrophenol	75.7	250	75.7	10	ND
2,4-Dinitrotoluene	10.9	50	10.9	10	ND
2,6-Dinitrotoluene	12.6	50	12.6	10	ND
2-Chloronaphthalene	8.42	50	8.42	10	ND
2-Chlorophenol	8.86	50	8.86	10	ND
2-Methylnaphthalene	8.26	50	1100	10	
2-Methylphenol	8.74	50	8.74	10	ND
2-Nitroaniline	5.67	250	5.67	10	ND
2-Nitrophenol	9.21	50	9.21	10	ND
3,3'-Dichlorobenzidine	50.7	100	50.7	10	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG99366

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS4 12-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 09:30 Date Analyzed: 15-JUN-01 20:38

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Methylphenol	15.4	50	15.4	10	ND
3-Nitroaniline	5.01	250	5.01	10	ND
4,6-Dinitro-2-methylphenol	15.6	250	15.6	10	ND
4-Bromophenyl-phenylether	7.94	50	7.94	10	ND
4-Chloro-3-methylphenol	7.83	50	7.83	10	ND
4-Chloroaniline	14.9	50	14.9	10	ND
4-Chlorophenyl-phenyl ether	9.29	50	9.29	10	ND
4-Methylphenol	8.29	50	8.29	10	ND
4-Nitroaniline	7.86	250	7.86	10	ND
4-Nitrophenol	10.0	250	10.0	10	ND
Acenaphthene	9.54	50	9.54	10	ND
Acenaphthylene	9.83	50	9.83	10	ND
Anthracene	8.40	50	8.40	10	ND
Benzo(a)anthracene	7.33	50	7.33	10	ND
Benzo(a)pyrene	7.40	50	7.40	10	ND
Benzo(b)fluoranthene	8.76	50	8.76	10	ND
Benzo(g,h,i)Perylene	22.4	50	22.4	10	ND
Benzo(k)fluoranthene	9.59	50	9.59	10	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG99366

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS4 12-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 09:30 Date Analyzed: 15-JUN-01 20:38

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzoic acid	158	250	158	10	ND
Benzyl alcohol	9.28	50	9.28	10	ND
Bis(2-Chloroethoxy)Methane	10.2	50	10.2	10	ND
Bis(2-Chloroethyl)ether	9.40	50	9.40	10	ND
Butylbenzylphthalate	7.94	50	7.94	10	ND
Chrysene	10.2	50	10.2	10	ND
Di-N-Butylphthalate	6.65	50	6.65	10	ND
Di-n-octylphthalate	14.1	50	14.1	10	ND
Dibenzo(a,h)Anthracene	9.72	50	9.72	10	ND
Dibenzofuran	9.42	50	9.42	10	ND
Diethylphthalate	9.81	50	9.81	10	ND
Dimethylphthalate	9.98	50	9.98	10	ND
Fluoranthene	6.90	50	6.90	10	ND
Fluorene	9.82	50	9.82	10	ND
Hexachlorobenzene	10.1	50	10.1	10	ND
Hexachlorobutadiene	9.10	50	9.10	10	ND
Hexachlorocyclopentadiene	6.14	50	6.14	10	ND
Hexachloroethane	8.91	50	8.91	10	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG99366

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS4 12-JUN-2001

Date Received: 09-JUN-01 Date Extracted: 12-JUN-01 09:30 Date Analyzed: 15-JUN-01 20:38

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Indeno(1,2,3-cd)pyrene	9.12	50	9.12	10	ND
Isophorone	11.5	50	11.5	10	ND
N-Nitroso-di-n-propylamine	11.8	50	11.8	10	ND
N-Nitrosodiphenylamine	9.45	50	9.45	10	ND
Naphthalene	8.09	50	8.09	10	ND
Nitrobenzene	9.30	50	9.30	10	ND
Pentachlorophenol	9.80	250	9.80	10	ND
Phenanthrene	7.75	50	7.75	10	ND
Phenol	4.53	50	4.53	10	ND
Pyrene	8.10	50	8.10	10	ND
bis(2-Chloroisopropyl)ether	9.08	50	9.08	10	ND
bis(2-Ethylhexyl)phthalate	13.2	50	970	10	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	79.0	10 - 123	
2-Fluorobiphenyl	56.6	43 - 116	
2-Fluorophenol	10.6	21 - 100	*
Nitrobenzene-d5	728	35 - 114	*
Phenol-d5	17.4	10 - 94	
p-Terphenyl-d14	71.9	33 - 141	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260
AAB # : WG99379
Lab Name : Kemron Environmental Services
Contract # :
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25WC11-W-0608-01	L0106236-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 22-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030 AAB # : WG99379

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 08-JUN-2001

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 13:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	5.0	0.250	1	ND
1,1,1-Trichloroethane	0.250	5.0	0.250	1	ND
1,1,2,2-Tetrachloroethane	0.125	5.0	0.125	1	ND
1,1,2-Trichloroethane	0.250	5.0	0.250	1	ND
1,1-Dichloroethane	0.125	5.0	0.125	1	ND
1,1-Dichloroethene	0.500	5.0	0.500	1	ND
1,1-Dichloropropene	0.250	5.0	0.250	1	ND
1,2,3-Trichlorobenzene	0.125	5.0	0.125	1	ND
1,2,3-Trichloropropane	0.750	5.0	0.750	1	ND
1,2,4-Trichlorobenzene	0.200	5.0	0.200	1	ND
1,2,4-Trimethylbenzene	0.250	5.0	19.0	1	
1,2-Dibromo-3-chloropropane	1.00	5.0	1.00	1	ND
1,2-Dibromoethane	0.250	5.0	0.250	1	ND
1,2-Dichlorobenzene	0.125	5.0	0.125	1	ND
1,2-Dichloroethane	0.250	5.0	0.250	1	ND
1,2-Dichloropropane	0.125	5.0	0.125	1	ND
1,3,5-Trimethylbenzene	0.250	5.0	6.20	1	
1,3-Dichlorobenzene	0.250	5.0	0.250	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030 AAB # : WG99379

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 08-JUN-2001

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 13:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.200	5.0	0.200	1	ND
1,4-Dichlorobenzene	0.125	5.0	0.125	1	ND
2,2-Dichloropropane	0.250	5.0	0.250	1	ND
2-Butanone	2.50	100	2.50	1	ND
2-Chloroethyl vinyl ether	10.0	10	10.0	1	ND
2-Chlorotoluene	0.125	5.0	0.125	1	ND
2-Hexanone	2.50	10	2.50	1	ND
4-Chlorotoluene	0.250	5.0	0.250	1	ND
4-Methyl-2-pentanone	2.50	10	2.50	1	ND
Acetone	2.50	100	2.50	1	ND
Benzene	0.125	5.0	0.125	1	ND
Bromobenzene	0.125	5.0	0.125	1	ND
Bromochloromethane	0.200	5.0	0.200	1	ND
Bromodichloromethane	0.250	5.0	0.250	1	ND
Bromoform	0.540	5.0	0.540	1	ND
Bromomethane	0.500	10	0.500	1	ND
Carbon disulfide	0.500	5.0	0.500	1	ND
Carbon tetrachloride	0.250	5.0	0.250	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030 AAB # : WG99379

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 08-JUN-2001

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 13:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Chlorobenzene	0.125	5.0	0.125	1	ND
Chlorodibromomethane	0.250	5.0	0.250	1	ND
Chloroethane	0.500	10	0.500	1	ND
Chloroform	0.125	5.0	0.125	1	ND
Chloromethane	0.250	10	0.250	1	ND
Dibromomethane	0.250	5.0	0.250	1	ND
Dichlorodifluoromethane	0.250	10	0.250	1	ND
Ethylbenzene	0.250	5.0	0.250	1	ND
Hexachlorobutadiene	0.250	5.0	0.250	1	ND
Isopropylbenzene	0.250	5.0	0.250	1	ND
Methylene chloride	0.250	5.0	0.250	1	ND
Naphthalene	0.200	10	16.0	1	
Styrene	0.125	5.0	0.125	1	ND
Tetrachloroethene	0.250	5.0	0.250	1	ND
Toluene	0.250	5.0	0.250	1	ND
Trichloroethene	0.250	5.0	0.250	1	ND
Trichlorofluoromethane	0.250	10	0.250	1	ND
Vinyl acetate	2.50	10	2.50	1	ND

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030 AAB # : WG99379

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25WC11-W-0608-01 Lab Sample ID: L0106236-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 08-JUN-2001

Date Received: 09-JUN-01 Date Extracted: Date Analyzed: 14-JUN-01 13:02

Concentration Units: ug/L Collect Date: 08-JUN-2001 09:30

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vinyl chloride	0.250	10	0.250	1	ND
cis-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
cis-1,3-Dichloropropene	0.250	5.0	0.250	1	ND
m-,p-Xylene	0.330	5.0	0.330	1	ND
n-Butylbenzene	0.250	5.0	10.0	1	
n-Propylbenzene	0.125	5.0	0.125	1	ND
o-Xylene	0.250	5.0	0.250	1	ND
p-Isopropyltoluene	0.250	5.0	0.250	1	ND
sec-Butylbenzene	0.250	5.0	0.250	1	ND
tert-Butylbenzene	0.250	5.0	0.250	1	ND
trans-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
trans-1,3-Dichloropropene	0.500	5.0	0.500	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	94.3	80 - 120	
4-Bromofluorobenzene	108	86 - 115	
Dibromofluoromethane	102	86 - 118	
Toluene-d8	102	88 - 110	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

06/16/2001

ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BRG - BRENDA R. GREGORY
CAB - CASSIE A. BAKER
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LRR - LUCYNDA R. ROBERTS
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MAJ - MARK A. JEMISON
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SKH - SHARON K. HANDSCHUMACHER
SLC - SHAWN L. COLE
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

*** **Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

H:\DATA\COMMON\Qualifier List 12-15-00.doc

115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **148799-26**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	**148799**	**Kemron Eviromental Service Angie Hurst**	**Jennifer Zimmerman, CCI/J.A. Jones**	**6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262**
Excav Water	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Grey Sites III - Site 25 Excav Water Waste Characterization	**CTO 005**	**2954**	**Jeff Wilmoth, CCI**	**115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282**
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (800) 373-4071 FAX (740)-373-4835	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Bill Canelos	**PH (904) 777-4812 FAX (904) 777-4262**			

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	8260B TCL Volitiles	8270C TCL SemiVols	8081A TCL Pest.	8151A TCL Herb.	6010A/7471 TAL Metals	FL PRO	Method 8082 PCBs	Reactivity 1010/1020A	Ignitability Method 9040B	Corrosivity Ch. 7.3	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	**005-25WC11-W-0608-01**	**excavation contact water**	**wtr**	**06/08/01**	**9:30**	**III/A**	**7**	**x**	**x**	**x**	**x**	**x**	**x**	**x**	**x**	**x**	**x**	4 CN		
2		**Temp Blank**	**wtr**	–	–	–	–	–	–	–	–	–	–	–	–	–	–			
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

6/11/01

Sub. rec'd 6/9/01. Stored in locked cooler over weekend (bg)

c/c dated Sub intact cooler Temp 4° (bg)

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Dave Keul, CCI/JAJES	**FedEx Tracking # 8153-1266-4622**	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
David Keul, CCI/JAJES	**6/8/01**	**11:00**	**FedEx Tracking # 8153-1266-4622**	**6/8/01**	**11:00**
Printed Name and Signature:			Printed Name and Signature: Brenda Gregory / Brenda Gregory	6/11/01	0830

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

KEMRON Internal Laboratory Chain of Custody

Work Order: L0106236 **Client:** CCI **# of Samples:** 01 **Due Date:** 6/18 **Page:** _____

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
01A	MET	DIG	@1540	walk in	DIG.	BLQ	@1525	archive	BLQ	archive
01	Flash	Analysis	JWR 06/11/01 1635	Walk In	Wet Lab	BLQ	JWR 06/15/01 0930	Archive	AGT	Archive
01A	CN	anal	@1940 DLN 6/12/01	walkin	wet	NB	@0920 DLN 6/12/01	Archive	NB	Archive
01A	8270	EXT	DLL 6/12/01 @0715	WALKIN	SLAB	CEB	JEA 6/13/01 0800	dumpster	CEB	disposal
01	8260	AN	MCK 6-12-01 1025	V-1	ORG-4	NB	MLS 6-22-01 @ 1010	archive	MLS	archive
01A	PEST/PCB	EXT	DLL 6/12/01 @1330	walkin	SLAB	BLQ	JEA 6/13/01 0800	dumpster	CEB	disposal
01A	PRO	EXT	CEB 6/12/01 @ 1349	WALKIN	ELAB	BLQ	JEA 6/13/01 0800	dumpster	CEB	disposal
01B	⊥	EXT MS/MSD	⊥	⊥	⊥	BLQ	JEA 6/13/01 0800	dumpster	CEB	disposal
01B	PEST/PCB used for 8270	EXT	JAO 6/12/01 1930	walkin	ELAB	DCV	JEA 6/13/01 0800	dumpster	CEB	disposal
01A	8151	EXT	CEB 6/13/01 @ 1318	WALKIN	ELAB	BLQ	TM 6/14/01 8:10	dumpster	CEB	disposal
01B	8151	REEXT	CEB 6/18/01 @1018	Archive	ELAB	NB				

CLIENT: CCI BRG ARS Other N3	DATE: 6-9-01	SHIPPED BY: (✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: KL 816	COOLER ID:	COOLER ID:
INDEX # : 8153 1266 4622	INDEX # :	INDEX # :
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP : °C (C) (D)	TEMP : °C (C) (D)	TEMP : °C (C) (D)
TEMP IN RANGE ( ) YES (✓) NO (4°C ± 2°)	TEMP IN RANGE ( ) YES ( ) NO (4°C ± 2°)	TEMP IN RANGE ( ) YES ( ) NO (4°C ± 2°)
WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) (✓) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

CRF#4

Sample Receipt Form #2

Client: CCI Project: _____
Date Received: 6-9-01

_____ Cooler temperature > than 6 degrees Celcius
Reason _____

__✓__ Samples received not on chain of custody
CN and Trip Blank recd not on chain

_____ Samples on chain of custody not received

_____ Information on sample containers different from chain of custody

_____ Sample containers received broken, leaking or not sealed (List sample ID)

_____ pH out (List sample ID & which container)

_____ Insufficient sample volume

_____ Air bubbles present in Voa vials (List sample ID)

_____ Hold time expired (List sample ID)

TSR:
Was client notified regarding information: YES NO
Name of person contacted: Bill Canelos Company: CCI
TSR: Ada Date: 6/11/01
Attach: Phone Logs, e-mails, faxes, etc.

Left Message.

Ignore TB
Add ~~TB~~ CN.

CRF #1

COOLER RECEIPT FORM

Contractor Cooler _____
MRD Cooler # _____
Number of Coolers 1

PROJECT: NAS Cecil Field LIMS# L0106236

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONERNING CHECK-IN PROBLEMS

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler opened: 6-9-01 C-of-C Number: 148799-26
by (print) NATALIE J BOOTH (sign) Natalie J Booth

1. Did cooler come with a shipping slip (air bill, etc.)? ..... (YES) NO
If YES, enter carrier name & air bill number here: fed ex - 815312664622
2. Were custody seals on outside of cooler? ..... (YES) NO
How many & where? 2- front, seal date: 6/8/01 seal name: Kemron
3. Were custody seals unbroken and intact at the data and time of arrival? ..... (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter? ..... (YES) NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
7. Did you sign custody papers in the appropriate place? ..... (YES) NO
8. Was project identifiable from custody papers? If yes, enter project name at the top of this form ..... (YES) NO
9. If required, was enough ice used? ..... Type of ice: Wet Temp 0 °C ..... (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: NB (date) 6-9-01

B. **LOG-IN PHASE:** Date samples were logged-in: 6/11/01
by (print) Brenda Gregory (sign) Brenda Gregory

11. Describe type of packing in cooler: Plastic Dividers
12. Were all bottles sealed in separate plastic bags? ..... YES (NO)
13. Did all bottles arrive unbroken & were labels in good condition? ..... (YES) NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
15. Did all bottle labels agree with custody papers? ..... (YES) NO
16. Were correct containers used for the tests indicated? ..... (YES) NO
17. Were correct preservatives added to samples? ..... (YES) NO
18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
19. Were bubbles absent in volatile samples? If NO, list by Sample # _____ (YES) NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form ..... YES NO
21. Who was called? _____ By whom? _____ (date) _____

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2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0106236

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: CMS REVIEWED: _____ DATE: 6/18/01

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VOLATILES GC/MS DATA

Login Number: L0106236

A. QC Summary

- ✓ Batch QC Summary Forms
- ✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

- ✓ Target Compound List Results - See Summary Report
- na Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
- ✓ Reconstructed total ion chromatograph (RIC) and quantitation report for each sample
- ✓ Raw spectra and background subtracted mass spectra of target compounds identified
- na Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

- ✓ Initial calibration data summary form
- ✓ Chromatograms and quantitation reports for initial calibration standards
- ✓ Continuing calibration data summary form
- ✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

- ✓ GC/MS Instrument Performance Check (BFB)
- ✓ Blank chromatogram and quantitation report
- ✓ Laboratory Control Sample chromatogram and quantitation report
- na Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- ✓ Instrument runlogs
- na 5035 preservation logs

Checked By: Cwinters **Date:** 6/18/01

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2.1.1.1 QC Summary

VOA - GC/MS

Date: 6-14-01 **Analyst:** CMS **Method:** 8260 624

Instrument: HPMSC **Work Group:** WG 99379

	Analyst
System Performance Check	✓
BFB	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source standard % Difference	✓
Continuing Calibration / Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Spectra of TCL Hits	✓
Surrogates	✓
Internal Standards Criteria	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	NA
Excel Spreadsheets	✓
Case Narrative	
Narrative Summary	✓
Results Reporting / Data Qualifiers	✓
Client Data Package Assembly	
Check for Completeness	✓

Primary Reviewers Initials & Date Checked: RH 6-14-01

Secondary Reviewers Initials & Date Checked: SLR 6/14/01

- ✓ • Check for compliance with Method and project-specific requirements
- ✓ • Check the completeness of the reported information
- ✓ • Check the information for the report narrative
- ✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked: _____

Comments: _____

✓ = Checked & OK
NA = Not Applicable

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Workgroup: WG99379 **Run Date:** 6/14/2001 **Sample Number:** 06-269-01 **LCS DF:** 1
Method: 8260B **Instrument:** HPMS6 **Sample Filename:** 6M26273.D **Sample DF:** 10
Matrix: WATER **Blank Filename:** 6M26269.D **MS Filename:** 6M26274.D **MS DF:** 10
Units: ug/L **LCS Filename:** 6M26270.D **MSD Filename:** 6M26275.D **MSD DF:** 10

		CONCENTRATION, ug/L						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.25	ND	14.47	ND	150.92	142.60	200.0	ND	72.4	ND	75.5	71.3	34.0	202.0	5.7	30.0					
chloromethane	0.25	ND	13.73	ND	146.40	145.49	200.0	ND	68.7	ND	73.2	72.7	44.0	182.0	0.6	85.0					
vinyl chloride	0.25	ND	15.16	ND	152.68	147.40	200.0	ND	75.8	ND	76.3	73.7	61.0	164.0	3.5	63.0					
bromomethane	0.50	ND	17.31	ND	178.34	175.01	200.0	ND	86.6	ND	89.2	87.5	64.2	140.0	1.9	58.0					
chloroethane	0.50	ND	17.00	ND	172.29	165.29	200.0	ND	85.0	ND	86.1	82.6	74.0	148.0	4.1	47.0					
trichlorofluoromethane	0.25	ND	19.46	ND	189.89	178.44	200.0	ND	97.3	ND	94.9	89.2	50.0	157.0	6.2	65.0					
acetone	2.50	ND	18.75	ND	182.73	185.74	200.0	ND	93.8	ND	91.4	92.9	39.0	149.0	1.6	67.0					
1,1-dichloroethene	0.50	ND	24.70	ND	244.46	230.52	200.0	ND	123.5	ND	122.2	115.3	80.0	138.0	5.9	34.0					
iodomethane	0.50	2.58	74.31	ND	717.55	683.55	20.0	2.58	371.6	ND	3587.8	3417.8	10.0	274.0	4.9	171.0			H	H	
methylene chloride	0.25	ND	21.08	ND	211.90	210.69	200.0	ND	105.4	ND	106.0	105.3	80.0	123.0	0.6	24.0					
carbon disulfide	0.50	ND	18.72	ND	187.04	179.89	200.0	ND	93.6	ND	93.5	89.9	71.0	143.0	3.9	44.0					
methyl-tert-butyl ether	0.50	ND	23.51	ND	239.81	238.10	200.0	ND	117.6	ND	119.9	119.1	78.0	140.0	0.7	38.0					
trans-1,2-dichloroethene	0.25	ND	23.56	ND	231.38	217.68	200.0	ND	117.8	ND	115.7	108.8	80.0	128.0	6.1	25.0					
n-hexane	0.56	ND	18.78	ND	186.44	174.90	200.0	ND	93.9	ND	93.2	87.5	68.0	137.0	6.4	42.0					
vinyl acetate	2.50	ND	38.33	ND	389.95	389.02	200.0	ND	191.7	ND	195.0	194.5	20.0	196.0	0.2	108.0					
1,1-dichloroethane	0.13	ND	22.09	ND	219.52	209.89	200.0	ND	110.5	ND	109.8	104.9	80.0	124.0	4.5	25.0					
2-butanone	2.50	ND	20.97	ND	206.10	208.04	200.0	ND	104.9	ND	103.1	104.0	53.0	146.0	0.9	57.0					
2,2-dichloropropane	0.25	ND	21.26	ND	204.82	192.18	200.0	ND	106.3	ND	102.4	96.1	78.0	137.0	6.4	36.0					
cis-1,2-dichloroethene	0.25	ND	23.52	ND	233.81	222.56	200.0	ND	117.6	ND	116.9	111.3	80.0	122.0	4.9	22.0					
chloroform	0.13	ND	21.37	ND	209.07	200.65	200.0	ND	106.9	ND	104.5	100.3	80.0	125.0	4.1	22.0					
bromochloromethane	0.20	ND	22.71	ND	226.79	224.26	200.0	ND	113.6	ND	113.4	112.1	80.0	130.0	1.1	29.0					
1,1,1-trichloroethane	0.25	ND	20.93	ND	203.71	192.22	200.0	ND	104.7	ND	101.9	96.1	80.0	135.0	5.8	29.0					
1,1-dichloropropene	0.25	ND	20.22	ND	201.17	188.18	200.0	ND	101.1	ND	100.6	94.1	80.0	154.0	6.7	33.0					
carbon tetrachloride	0.25	ND	20.48	ND	199.97	185.25	200.0	ND	102.4	ND	100.0	92.6	80.0	140.0	7.6	34.0					
1,2-dichloroethane	0.25	ND	20.54	ND	202.23	196.37	200.0	ND	102.7	ND	101.1	98.2	81.0	136.0	2.9	34.0					
benzene	0.13	ND	20.02	ND	201.34	194.55	200.0	ND	100.1	ND	100.7	97.3	80.0	123.0	3.4	24.0					
trichloroethene	0.25	ND	19.53	ND	194.18	185.51	200.0	ND	97.7	ND	97.1	92.8	80.0	125.0	4.6	22.0					
1,2-dichloropropane	0.25	ND	19.48	ND	196.63	192.69	200.0	ND	97.4	ND	98.3	96.3	80.0	128.0	2.0	28.0					
bromodichloromethane	0.25	ND	20.15	ND	199.14	193.77	200.0	ND	100.8	ND	99.6	96.9	80.0	132.0	2.7	25.0					
dibromomethane	0.25	ND	21.18	ND	211.97	209.91	200.0	ND	105.9	ND	106.0	105.0	80.0	127.0	1.0	27.0					
2-chloroethylvinyl ether	10.00	ND	19.37	ND	54.15	37.83	200.0	ND	96.9	ND	27.1	18.9	10.0	294.0	35.5	246.0					
4-methyl-2-pentanone	2.50	ND	17.30	ND	184.02	185.99	200.0	ND	86.5	ND	92.0	93.0	63.1	132.0	1.1	52.0					
cis-1,3-dichloropropene	0.25	ND	20.32	ND	202.79	199.02	200.0	ND	101.6	ND	101.4	99.5	80.0	139.0	1.9	26.0					
toluene	0.25	ND	22.16	ND	219.22	212.95	200.0	ND	110.8	ND	109.6	106.5	80.0	128.0	2.9	29.0					
trans-1,3-dichloropropene	0.50	ND	21.64	ND	212.95	212.01	200.0	ND	108.2	ND	106.5	106.0	80.0	126.0	0.4	26.0					
1,1,2-trichloroethane	0.13	ND	22.23	ND	218.92	223.97	200.0	ND	111.2	ND	109.5	112.0	73.0	128.0	2.3	34.0					
2-hexanone	2.50	ND	17.97	ND	190.19	194.79	200.0	ND	89.9	ND	95.1	97.4	56.0	135.0	2.4	48.0					
1,3-dichloropropane	0.20	ND	22.21	ND	221.93	223.16	200.0	ND	111.1	ND	111.0	111.6	80.0	126.0	0.6	27.0					
tetrachloroethene	0.25	ND	20.62	ND	201.35	194.14	200.0	ND	103.1	ND	100.7	97.1	80.0	126.0	3.6	27.0					
dibromochloromethane	0.25	ND	21.15	ND	210.55	208.10	200.0	ND	105.8	ND	105.3	104.1	80.0	133.0	1.2	29.0					
1,2-dibromoethane	0.25	ND	22.56	ND	227.90	231.41	200.0	ND	112.8	ND	114.0	115.7	26.0	187.0	1.5	99.0					
1-chlorohexane	0.13	ND	20.78	ND	210.81	197.47	200.0	ND	103.9	ND	105.4	98.7	80.0	133.0	6.5	31.0					
chlorobenzene	0.13	ND	19.69	ND	197.72	193.21	200.0	ND	98.5	ND	98.9	96.6	80.0	120.0	2.3	21.0					
1,1,1,2-tetrachloroethane	0.25	ND	21.50	ND	212.12	208.76	200.0	ND	107.5	ND	106.1	104.4	80.0	130.0	1.6	27.0					
ethylbenzene	0.25	ND	20.23	ND	202.55	194.04	200.0	ND	101.2	ND	101.3	97.0	80.0	121.0	4.3	22.0					
m+p-xylene	0.50	ND	41.15	ND	412.22	394.30	400.0	ND	102.9	ND	103.1	98.6	80.0	124.0	4.4	52.0					
o-xylene	0.25	ND	21.95	ND	221.72	214.35	200.0	ND	109.8	ND	110.9	107.2	80.0	120.0	3.4	18.0					
styrene	0.13	ND	21.75	ND	219.90	213.65	200.0	ND	108.8	ND	110.0	106.8	80.0	121.0	2.9	20.0					
bromoform	0.54	ND	18.21	ND	186.51	186.15	200.0	ND	91.1	ND	93.3	93.1	75.0	132.0	0.2	34.0					
isopropylbenzene	0.25	ND	20.86	ND	209.53	198.76	200.0	ND	104.3	ND	104.8	99.4	80.0	121.0	5.3	24.0					
1,1,2,2-tetrachloroethane	0.13	ND	20.81	ND	216.94	218.75	200.0	ND	104.1	ND	108.5	109.4	73.0	128.0	0.8	34.0					
1,2,3-trichloropropane	0.75	ND	21.20	ND	217.17	221.60	200.0	ND	106.0	ND	108.6	110.8	78.0	130.0	2.0	32.0					
propyl-benzene	0.13	ND	23.20	ND	232.95	219.61	200.0	ND	116.0	ND	116.5	109.8	79.0	127.0	5.9	29.0					
bromobenzene	0.13	ND	21.53	ND	223.60	211.18	200.0	ND	107.7	ND	111.8	105.6	80.0	120.0	5.7	22.0					
1,3,5-trimethylbenzene	0.25	ND	23.00	ND	231.56	219.88	200.0	ND	115.0	ND	115.8	109.9	80.0	122.0	5.2	25.0					
2-chlorotoluene	0.13	ND	21.39	ND	219.80	208.57	200.0	ND	107.0	ND	109.9	104.3	53.0	164.0	5.2	62.0					
4-chlorotoluene	0.25	ND	21.36	ND	209.59	201.80	200.0	ND	106.8	ND	104.8	100.9	42.0	163.0	3.8	74.0					
tert-butyl-benzene	0.25	ND	21.61	ND	218.76	205.81	200.0	ND	108.1	ND	109.4	102.9	76.0	132.0	6.1	34.0					
1,2,4-trimethylbenzene	0.25	ND	21.92	ND	222.05	210.98	200.0	ND	109.6	ND	111.0	105.5	80.0	128.0	5.1	27.0					
sec-butyl-benzene	0.25	ND	22.02	ND	220.84	208.54	200.0	ND	110.1	ND	110.4	104.3	73.0	126.0	5.7	33.0					
p-isopropyl-toluene	0.25	ND	21.95	ND	220.94	208.79	200.0	ND	109.8	ND	110.5	104.4	77.0	124.0	5.7	29.0					
1,3-dichlorobenzene	0.25	ND	20.78	ND	210.81	203.34	200.0	ND	103.9	ND	105.4	101.7	80.0	120.0	3.6	22.0					
1,4-dichlorobenzene	0.13	ND	19.76	ND	198.95	194.97	200.0	ND	98.8	ND	99.5	97.5	80.0	120.0	2.0	18.0					
n-butyl-benzene	0.25	ND	21.95	ND	225.19	212.03	200.0	ND	109.8	ND	112.6	106.0	73.0	136.0	6.0	39.0					
1,2-dichlorobenzene	0.13	ND	20.76	ND	211.89	207.24	200.0	ND	103.8	ND	105.9	103.6	80.0	120.0	2.2	20.0					
1,2-dibromo-3-chloropropane	1.00	ND	18.68	ND	207.79	209.54	200.0	ND	93.4	ND	103.9	104.8	22.0	178.0	0.8	96.0					
1,2,4-trichlorobenzene	0.20	ND	22.29	ND	240.92	234.19	200.0	ND	111.5	ND	120.5	117.1	75.0	126.0	2.8	31.0					
hexachlorobutadiene	0.25	0.54	21.32	ND	212.39	204.46	200.0	0.54	106.6	ND	106.2	102.2	68.0	126.0	3.8	36.0					
naphthalene	0.20	ND	18.63	ND	220.78	215.98	200.0	ND	93.2	ND	110.4	108.0	57.0	138.0	2.2	50.0					
1,2,3-trichlorobenzene	0.13	ND	21.67	ND	231.50	230.79	200.0	ND	108.4	ND	115.8	115.4	66.0	130.0	0.3	39.0					
Surrogates																					
dibromofluoromethane		24.27	25.80	24.54	25.41	25.32	25.0	97.1	103.2	98.2	101.6	101.3	86	118							
1,2-dichloroethane-d4		22.04	23.66	22.45	23.14	22.65	25.0	88.2	94.6	89.8	92.6	90.6	80	120							
toluene-d8		26.24	25.90	26.04	25.64	25.81	25.0	105.0	103.6	104.2	102.6	103.2	88	110							
p-bromofluorobenzene		27.86	27.22	27.49	27.50	27.19	25.0	111.4	108.9	110.0	110.0	108.8	86	115							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

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Tune File : C:\HPCHEM\1\DATA\061401\6M26267.D
Tune Time : 14 Jun 2001 10:00

Daily Calibration File : C:\HPCHEM\1\DATA\061401\6M26268.D

	DFM	DCA	TOL	BFB	FBZ	CBZ	
					1859020	1516590	953094

File	Sample	Surrogate Recovery %				Internal Standard Responses		
6M26269.D	WG99379-	97	88	105	111	1814559	1491029	880282
6M26270.D	WG99379-	103	95	104	109	1831080	1528031	941744
6M26271.D	L0106292	98	87	105	110	1769671	1457982	869084
6M26272.D	L0106236	102	94	102	108	1689836	1455971	968750
6M26273.D	L0106269	98	90	104	110	1726232	1482333	913603
6M26274.D	L0106269	102	93	103	110	1807056	1545733	955455
6M26275.D	L0106269	101	91	103	109	1837874	1554390	963072
6M26276.D	L0106229	96	89	103	110	1721923	1498646	942802
6M26277.D	L0106229	98	91	102	111	1698728	1500763	931967
6M26278.D	L0106229	97	90	102	112	1679062	1482253	897629
6M26279.D	L0106229	99	93	102	110	1660949	1464453	924092
6M26280.D	L0106229	99	94	102	110	1645674	1460368	930017
6M26281.D	L0106290	98	92	103	111	1662109	1439959	881114
6M26282.D	L0106291	98	92	103	110	1642836	1420552	873339
6M26283.D	L0106292	99	92	103	110	1588266	1393378	850620

t - fails 12hr time check * - fails criteria

Created: Thu Jun 14 21:11:31 2001 HPMS6

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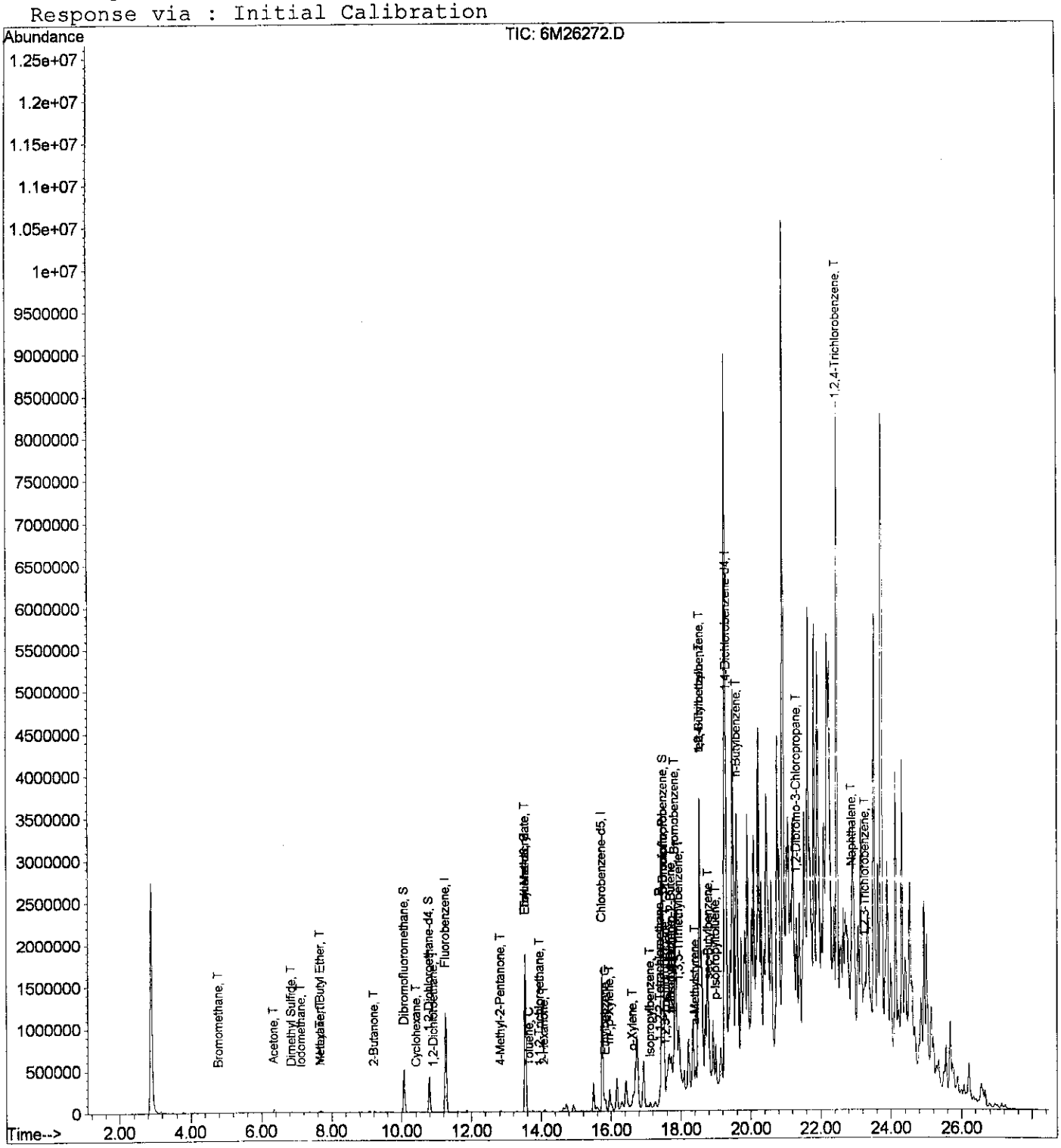
2.1.1.2 Sample Data

Data File : C:\HPCHEM\1\DATA\061401\6M26272.D Vial: 8
Acq On : 14 Jun 2001 13:02 Operator: CMS
Sample : L0106236-01 A 00 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:31 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061401\6M26272.D Vial: 6
Acq On : 14 Jun 2001 13:02 Operator: CMS
Sample : L0106236-01 A 00 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:31 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1689836	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1455971	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	968750	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	505879	25.50	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.00%				
33) 1,2-Dichloroethane-d4	10.80	65	458260	23.57	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.28%				
45) Toluene-d8	13.54	98	1953956	25.50	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.00%				
66) p-Bromofluorobenzene	17.51	95	914031	26.89	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 107.56%				
Target Compounds							Qvalue
5) Bromomethane	4.79	94	1403	~~0.14 ug/L~~		#	48
11) Acetone	6.36	43	88506	~~31.05 ug/~~L		#	53
13) Dimethyl Sulfide	6.86	62	7140	~~0.36 u~~g/L		#	1
14) Iodomethane	7.13	142	1688	~~2.01~~ ug/L			96
18) Methyl Tert Butyl Ether	7.68	73	48969	~~1.70~~ ug/L		#	76
20) n-Hexane	7.69	57	5518	~~0.21~~ ug/L		#	1
23) 2-Butanone	9.22	43	32633	~~10.64 ug/L~~	BRL		97
30) Cyclohexane	10.41	56	2144	~~0.07~~ ug/L		#	44
34) 1,2-Dichloroethane	10.93	62	3142	~~0.13~~ ug/L		#	58
41) 4-Methyl-2-Pentanone	12.85	58	7810	~~2.12~~ ug/L			97
46) Toluene	13.65	91	6908	~~0.08~~ ug/L			97
47) Ethyl Methacrylate	13.55	69	4553	~~0.31 ug~~/L		#	1
49) 1,1,2-Trichloroethane	13.97	97	2681	~~0.22~~ ug/L		#	13
50) 2-Hexanone	14.08	43	15502	~~2.60~~ ug/L		#	74
58) Ethylbenzene	15.85	106	16718	~~0.46~~ ug/L			92
59) m-,p-Xylene	15.96	106	79731	~~1.74~~ ug/L			89
60) o-Xylene	16.61	106	31581	~~0.76~~ ug/L			96
62) Bromoform	17.51	173	738	~~0.08~~ ug/L		#	1
63) Isopropylbenzene	17.12	105	88526	~~0.82~~ ug/L			98
65) 1,1,2,2-Tetrachloroethane	17.41	83	21292	~~1.56~~ ug/L		#	18
67) 1,2,3-Trichloropropane	17.57	110	539	~~0.12~~ ug/L		#	1
68) trans-1,4-Dichloro-2-Buten	17.74	53	12269	~~3.23~~ ug/L			92
69) n-Propylbenzene	17.72	91	270536	~~2.07~~ ug/L			98
70) Bromobenzene	17.85	156	26068	~~0.85~~ ug/L		#	2
71) 1,3,5-Trimethylbenzene	17.95	105	596420	6.16 ug/L			99
74) a-Methylstyrene	18.41	118	4537	~~0.09 ug/L~~			95

(#) = qualifier out of range (m) = manual integration
6M26272.D 8260BWT.M Thu Jun 14 13:31:20 2001 Page 1

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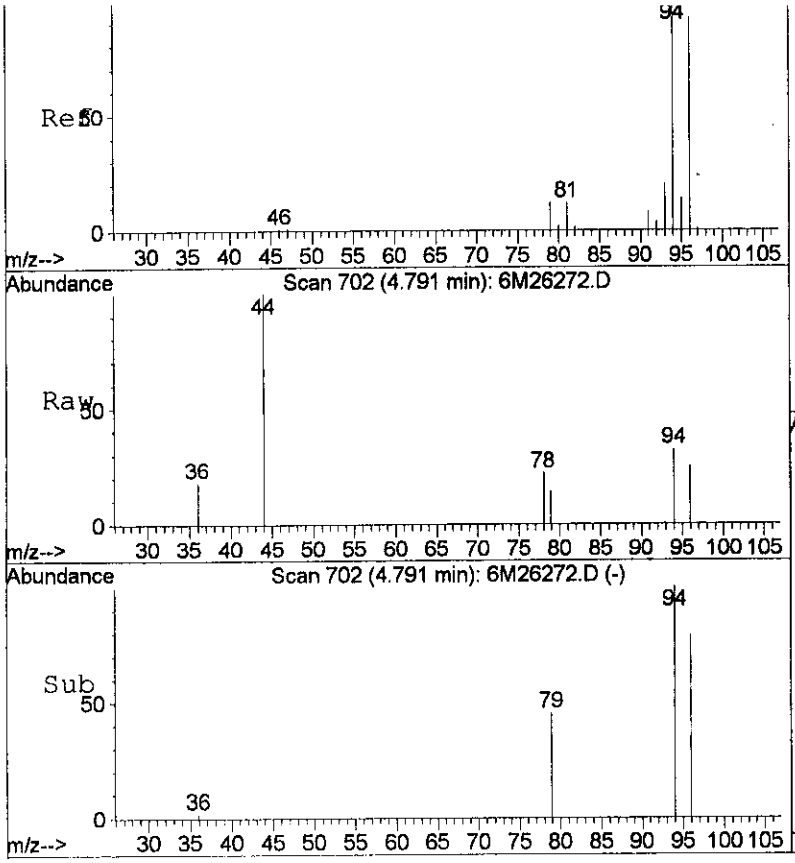
Data File : C:\HPCHEM\1\DATA\061401\6M26272.D Vial: 6
Acq On : 14 Jun 2001 13:02 Operator: CMS
Sample : L0106236-01 A 00 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:31 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	tert-Butylbenzene	18.55	119	244674	~~2.70 ug/L~~ #	51
76)	1,2,4-Trimethylbenzene	18.55	105	1971057	18.74 ug/L	97
77)	sec-Butylbenzene	18.81	105	488593	~~4.05 ug/L~~	98
78)	p-Isopropyltoluene	19.00	119	520066	~~4.80 ug/L~~	98
81)	n-Butylbenzene	19.62	91	955333	10.17 ug/L #	1
83)	1,2-Dibromo-3-Chloropropan	21.33	157	8427	~~4.47 ug/L~~	92
84)	1,2,4-Trichlorobenzene	22.46	180	2466	~~0.07 ug/L~~ #	66
86)	Naphthalene	22.89	128	929770	16.27 ug/L #	76
87)	1,2,3-Trichlorobenzene	23.27	180	13010	~~0.42 ug/L~~ #	42

(#) = qualifier out of range (m) = manual integration
6M26272.D 8260BWT.M Thu Jun 14 13:31:21 2001 Page 2

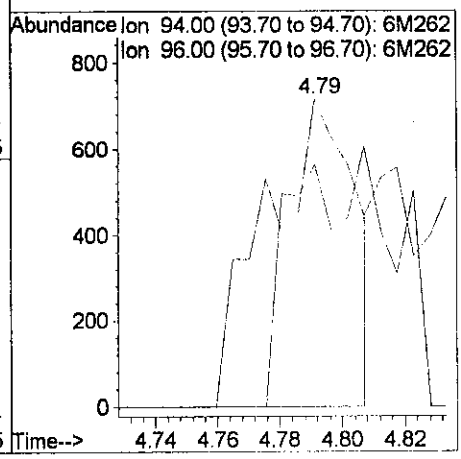
83

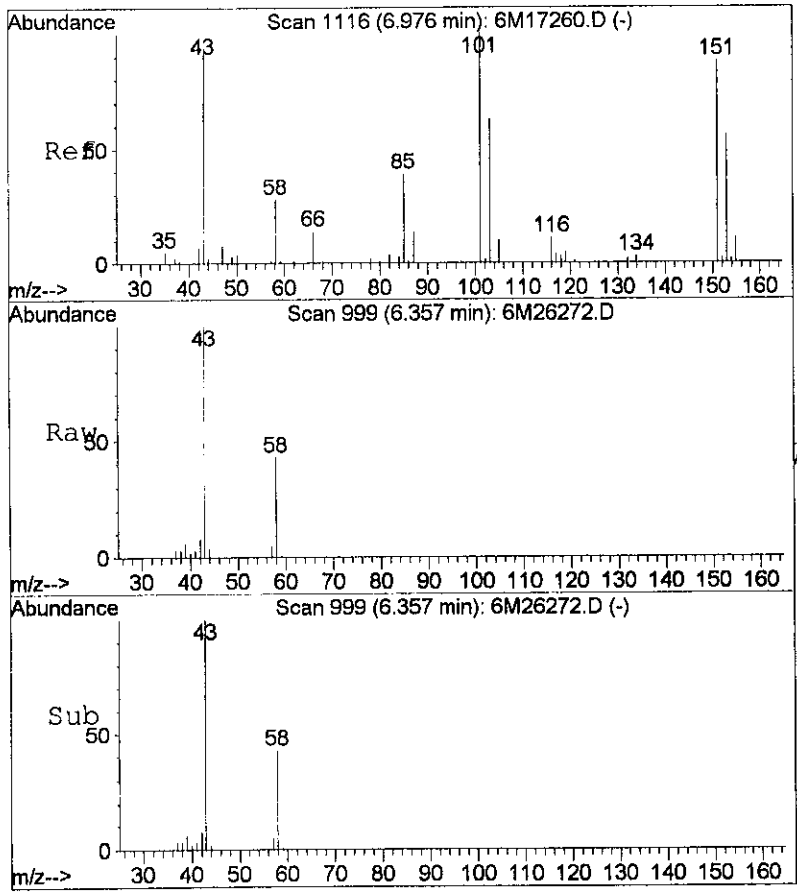


Bromomethane
Concen: 0.14 ug/L
RT: 4.79 min Scan# 702
Delta R.T. 0.03 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 94 Resp: 1403

Ion	Ratio	Lower	Upper
94	100		
96	44.2	75.1	112.7#

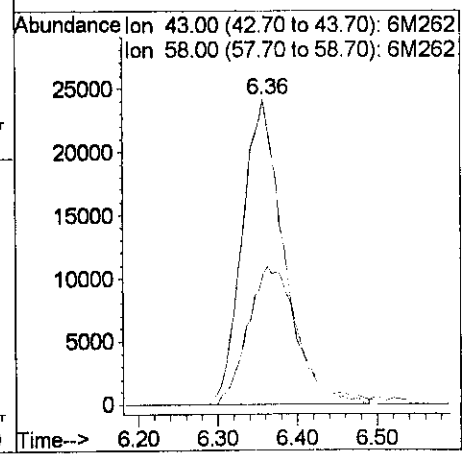


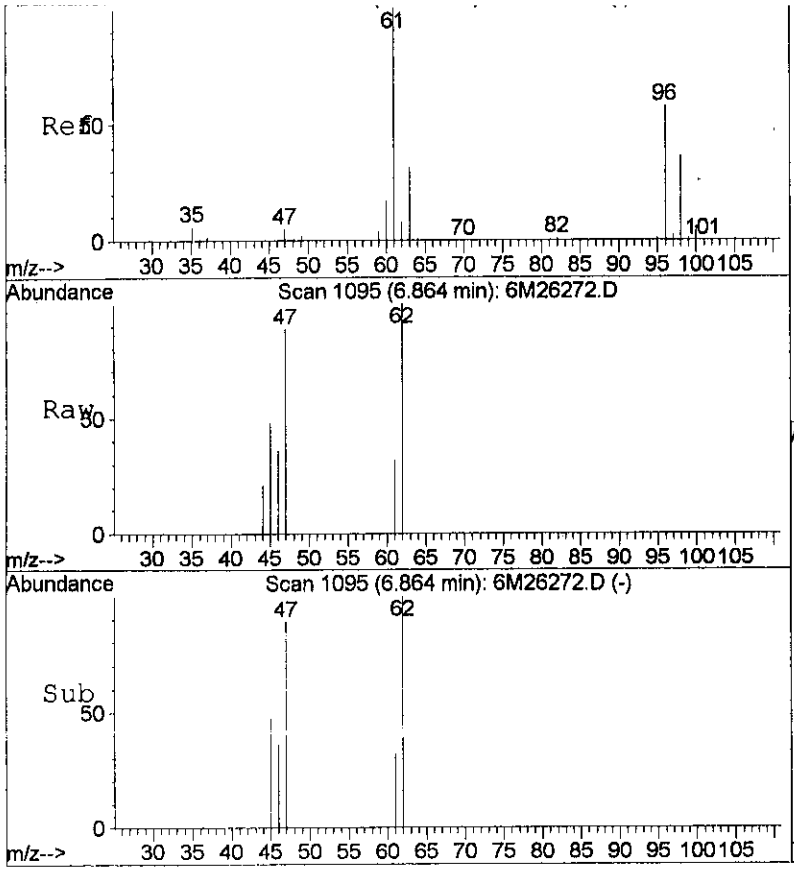


#11
Acetone
Concen: 31.05 ug/L
RT: 6.36 min Scan# 999
Delta R.T. 0.02 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 43 Resp: 88506

Ion	Ratio	Lower	Upper
43	100		
58	53.5	23.0	34.4#

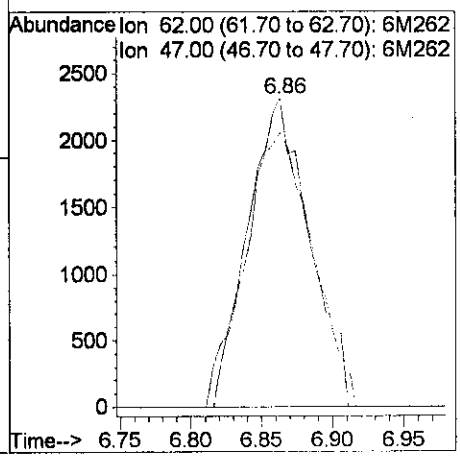


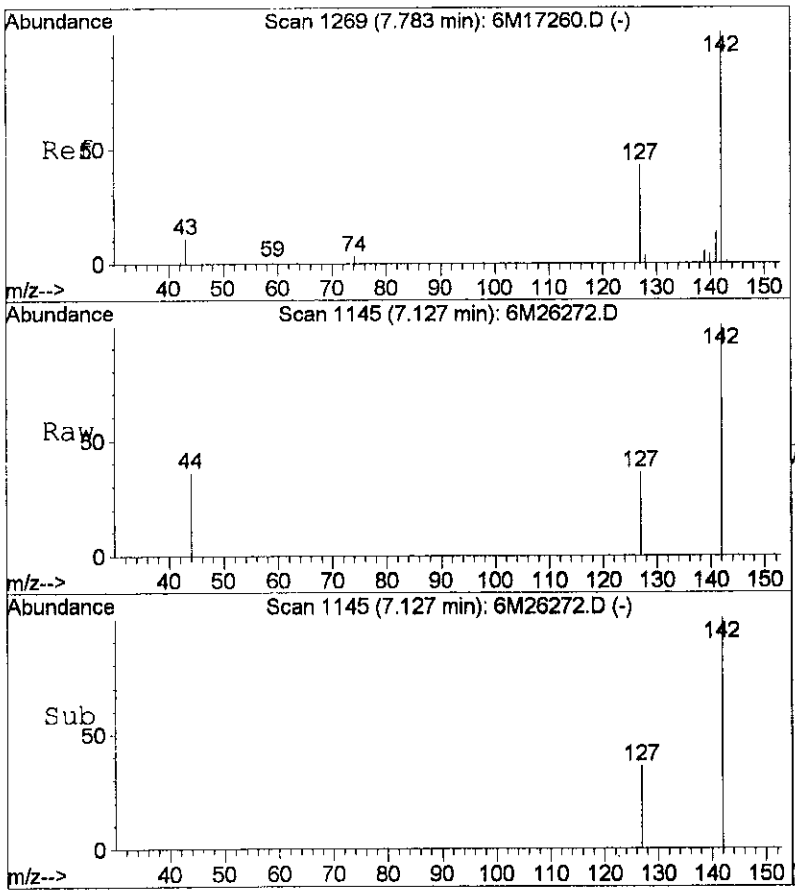


Dimethyl Sulfide
Concen: 0.36 ug/L
RT: 6.86 min Scan# 1095
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 62 Resp: 7140

Ion	Ratio	Lower	Upper
62	100		
47	93.9	7.8	11.6#

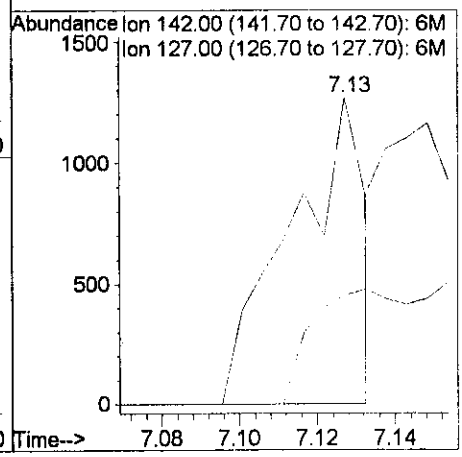


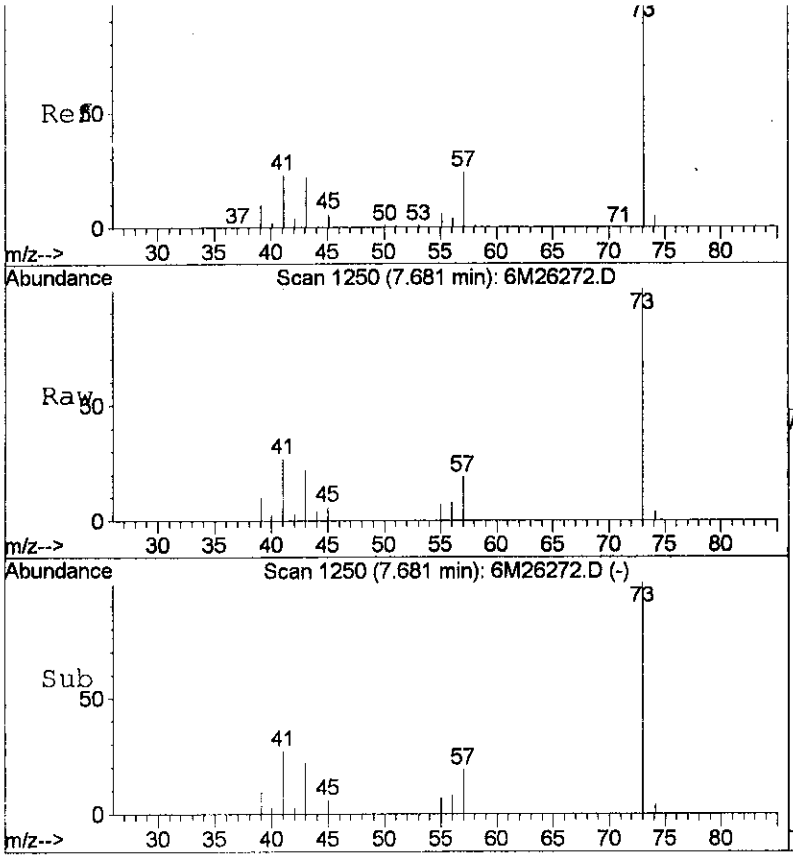


#14
Iodomethane
Concen: 2.01 ug/L
RT: 7.13 min Scan# 1145
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:142 Resp: 1688

Ion	Ratio	Lower	Upper
142	100		
127	46.6	35.4	53.0

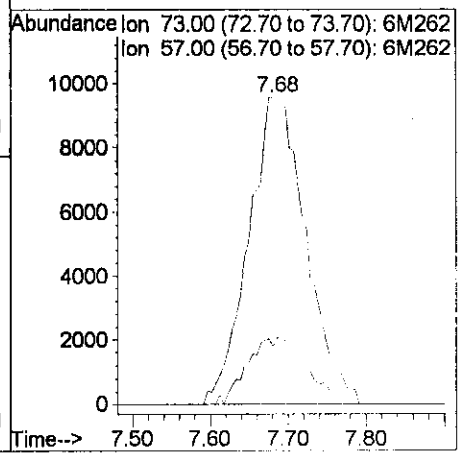


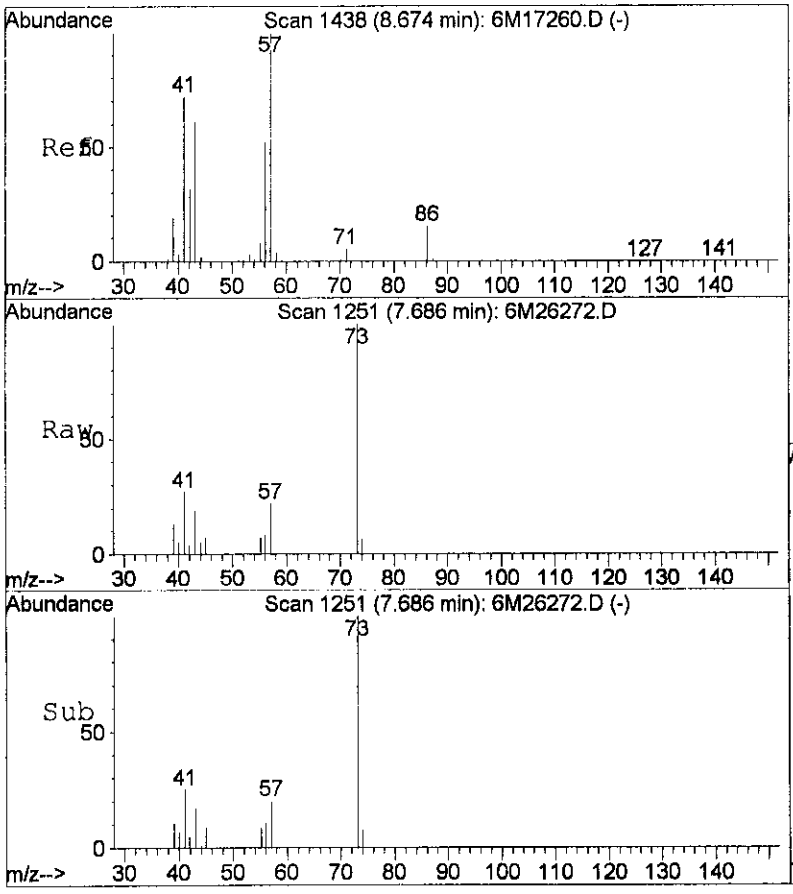


Methyl Tert Butyl Ether
Concen: 1.70 ug/L
RT: 7.68 min Scan# 1250
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 73 Resp: 48969

Ion	Ratio	Lower	Upper
73	100		
57	11.3	18.4	27.6#

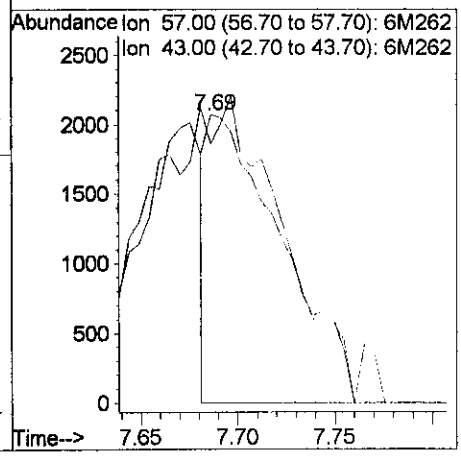


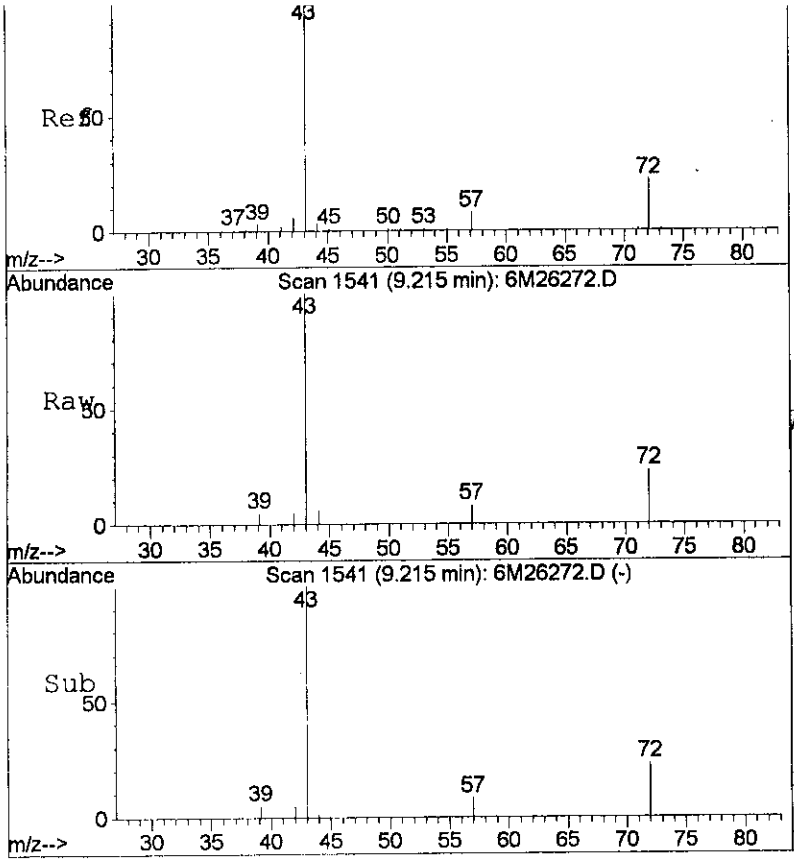


#20
n-Hexane
Concen: 0.21 ug/L
RT: 7.69 min Scan# 1251
Delta R.T. -0.34 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 57 Resp: 5518

Ion	Ratio	Lower	Upper
57	100		
43	176.8	53.0	79.6#

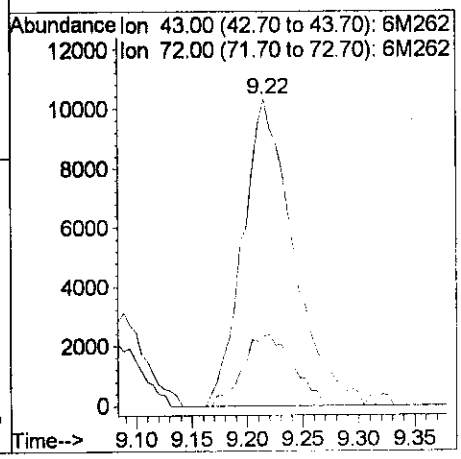


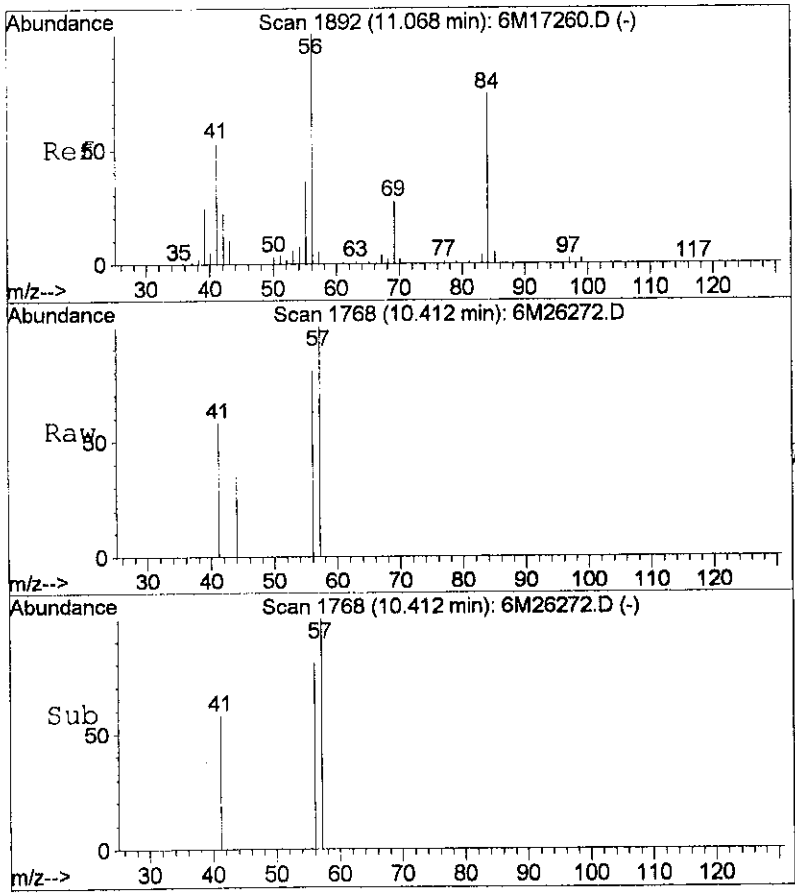


2-Butanone
Concen: 10.64 ug/L
RT: 9.22 min Scan# 1541
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 43 Resp: 32633

Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.0	25.6

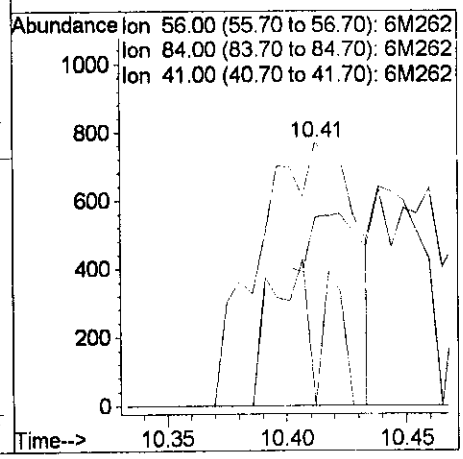


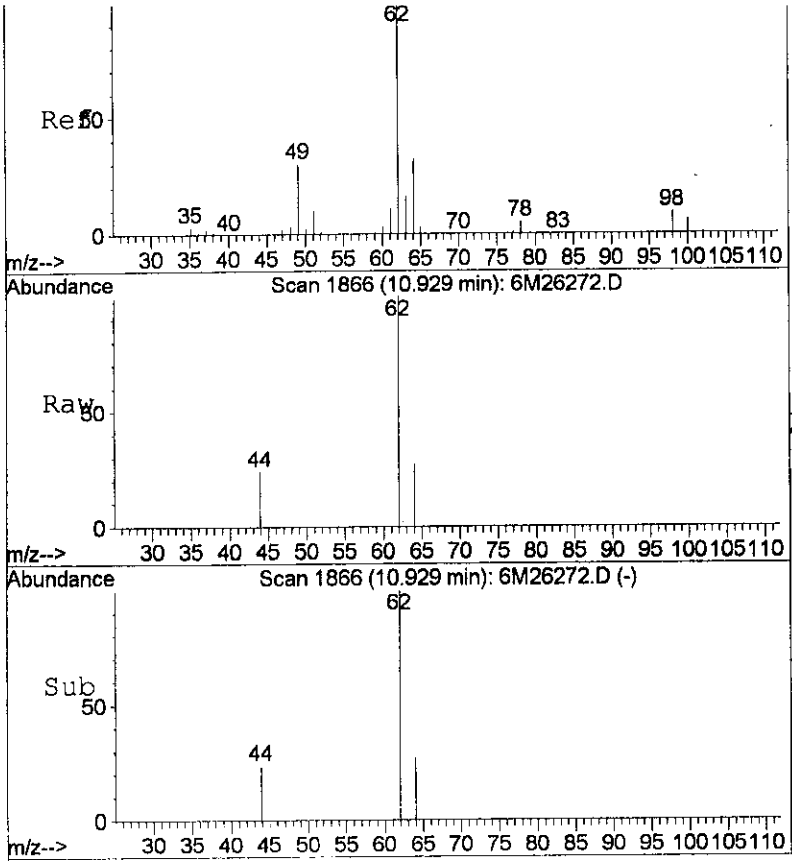


#30
Cyclohexane
Concen: 0.07 ug/L
RT: 10.41 min Scan# 1768
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 56 Resp: 2144

Ion	Ratio	Lower	Upper
56	100		
84	0.0	64.3	96.5#
41	61.3	45.2	67.8

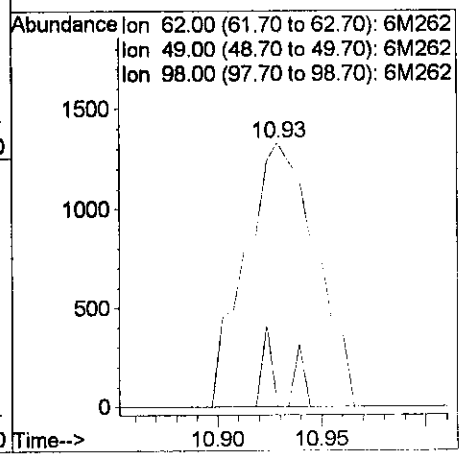


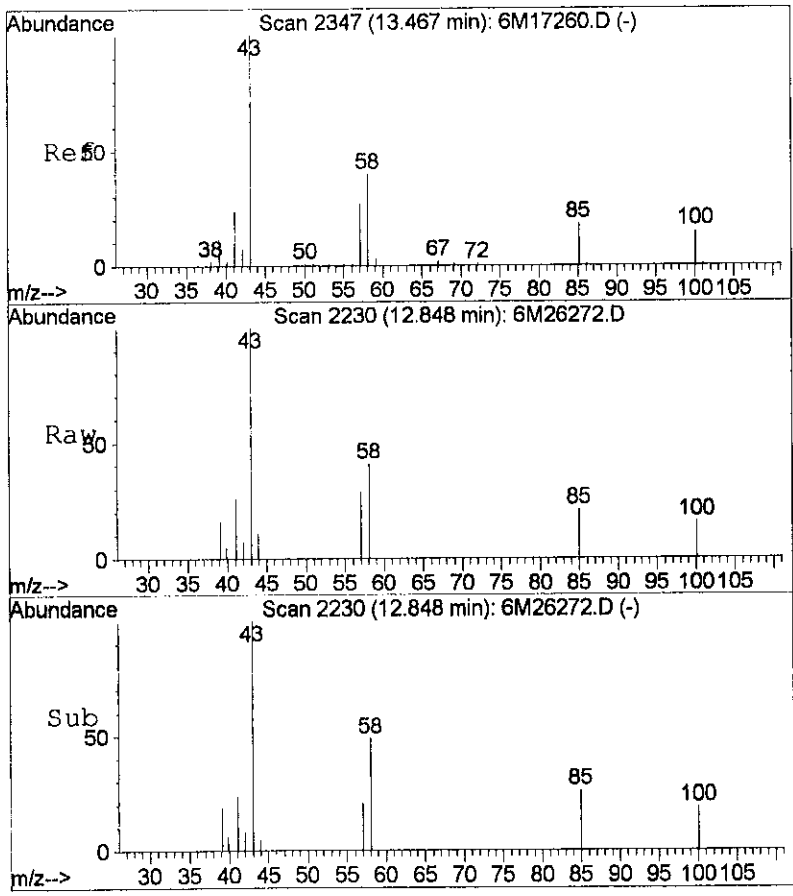


1,2-Dichloroethane
Concen: 0.13 ug/L
RT: 10.93 min Scan# 1866
Delta R.T. 0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 62 Resp: 3142

Ion	Ratio	Lower	Upper
62	100		
49	0.0	19.1	28.7#
98	0.0	8.0	12.0#

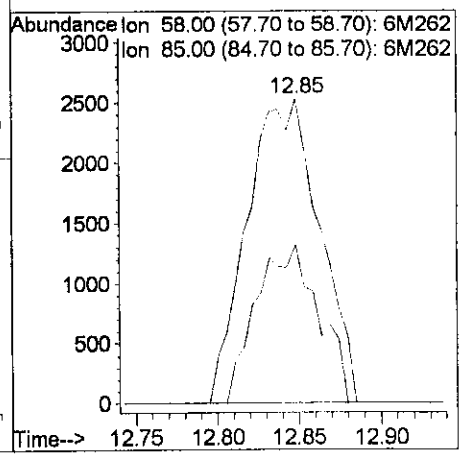


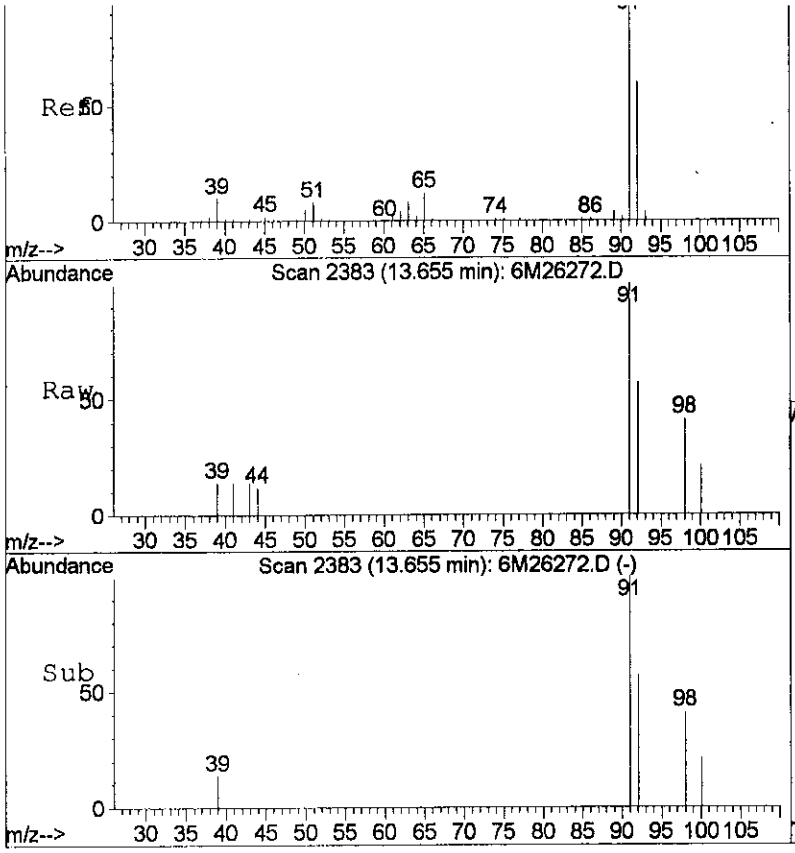


#41
4-Methyl-2-Pentanone
Concen: 2.12 ug/L
RT: 12.85 min Scan# 2230
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 58 Resp: 7810

Ion	Ratio	Lower	Upper
58	100		
85	44.8	34.4	51.6

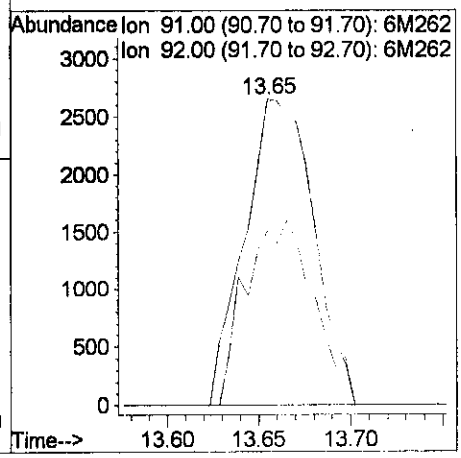


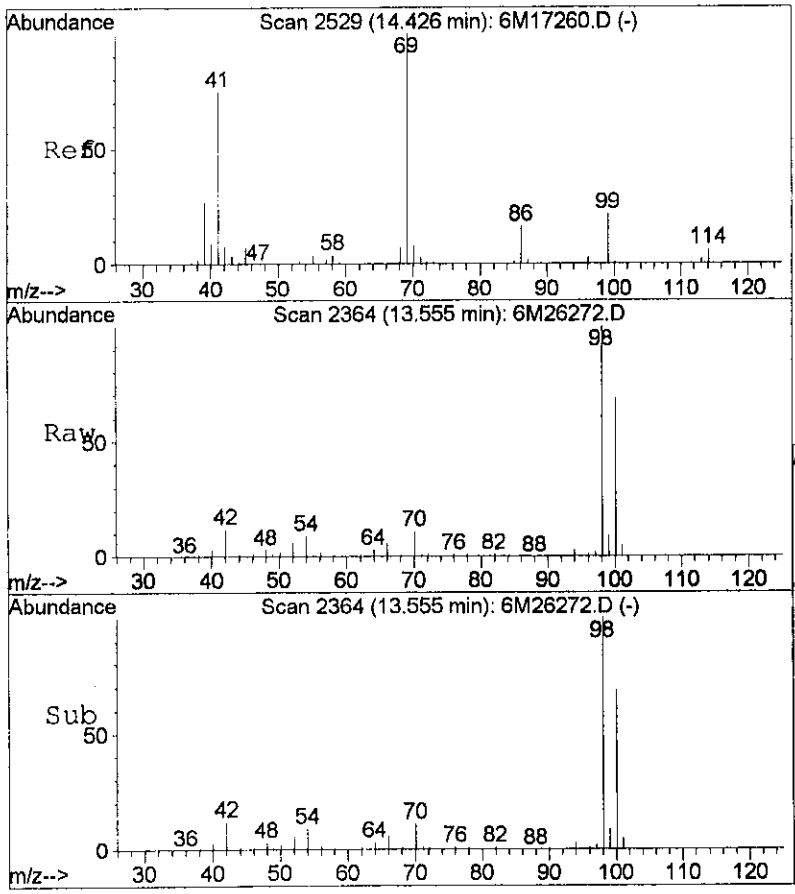


Toluene
Concen: 0.08 ug/L
RT: 13.65 min Scan# 2383
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 91 Resp: 6908

Ion	Ratio	Lower	Upper
91	100		
92	59.6	49.8	74.8

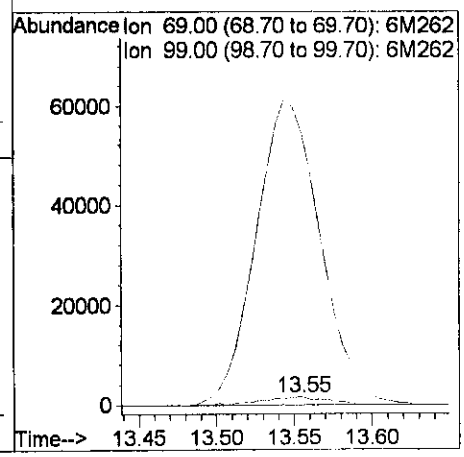


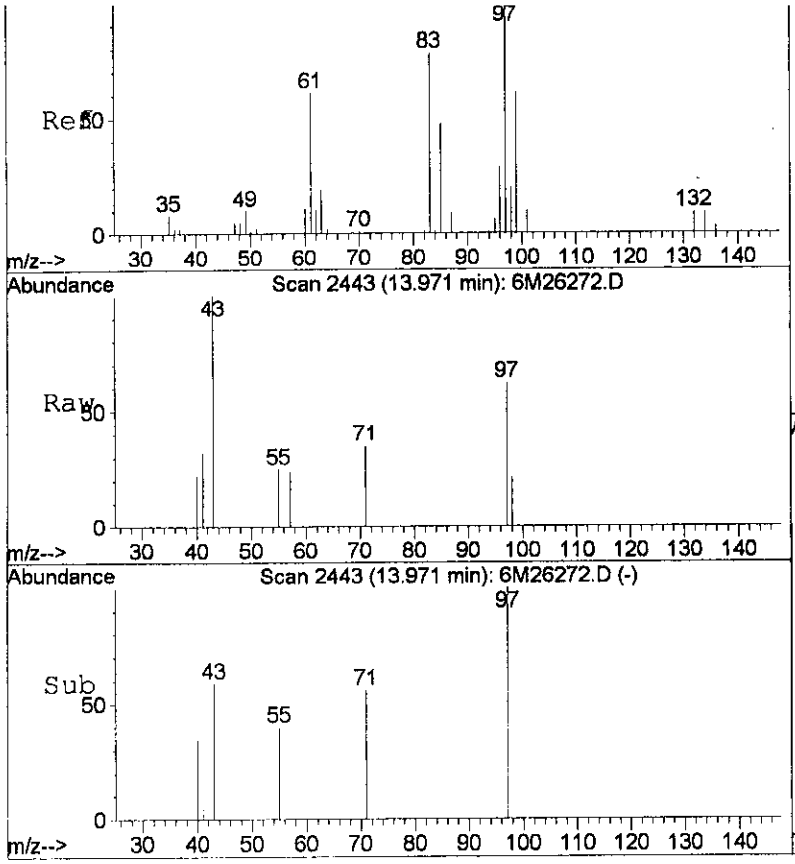


#47
Ethyl Methacrylate
Concen: 0.31 ug/L
RT: 13.55 min Scan# 2364
Delta R.T. -0.25 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 69 Resp: 4553

Ion	Ratio	Lower	Upper
69	100		
99	3853.1	16.6	24.8#

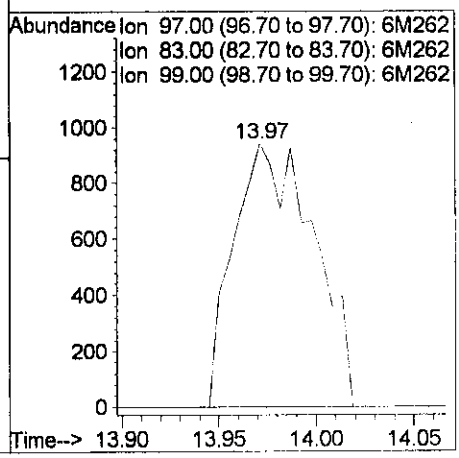


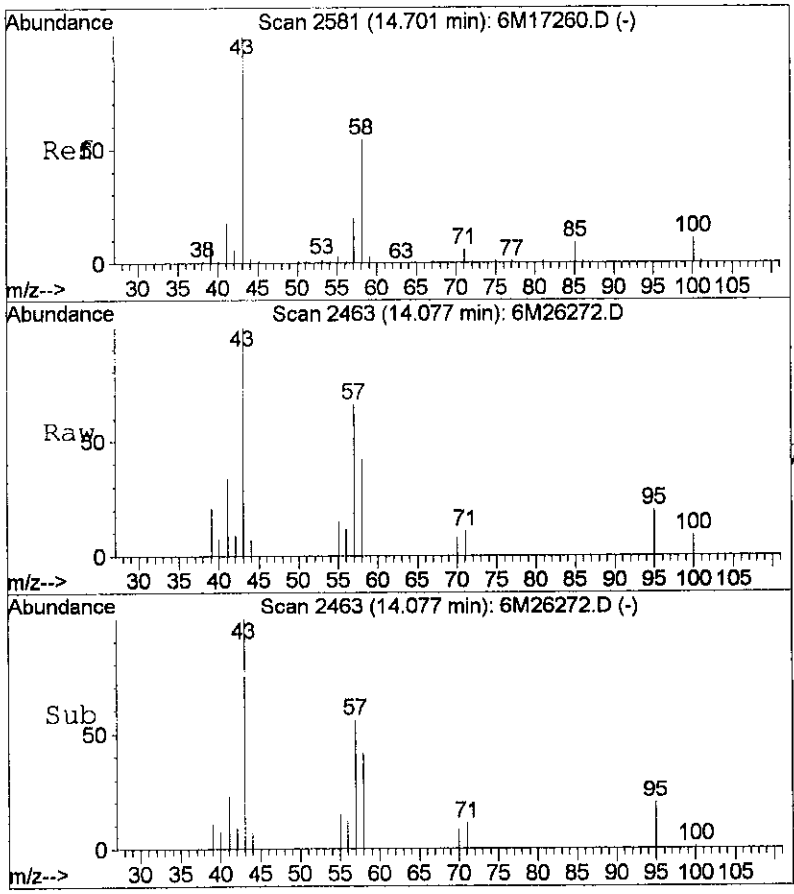


1,1,2-Trichloroethane
Concen: 0.22 ug/L
RT: 13.97 min Scan# 2443
Delta R.T. -0.14 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 97 Resp: 2681

Ion	Ratio	Lower	Upper
97	100		
83	0.0	66.2	99.2#
99	0.0	50.4	75.6#

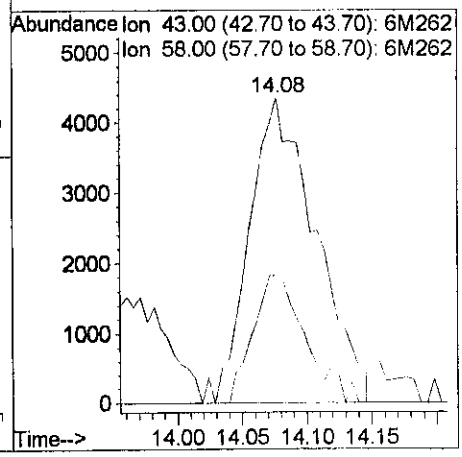


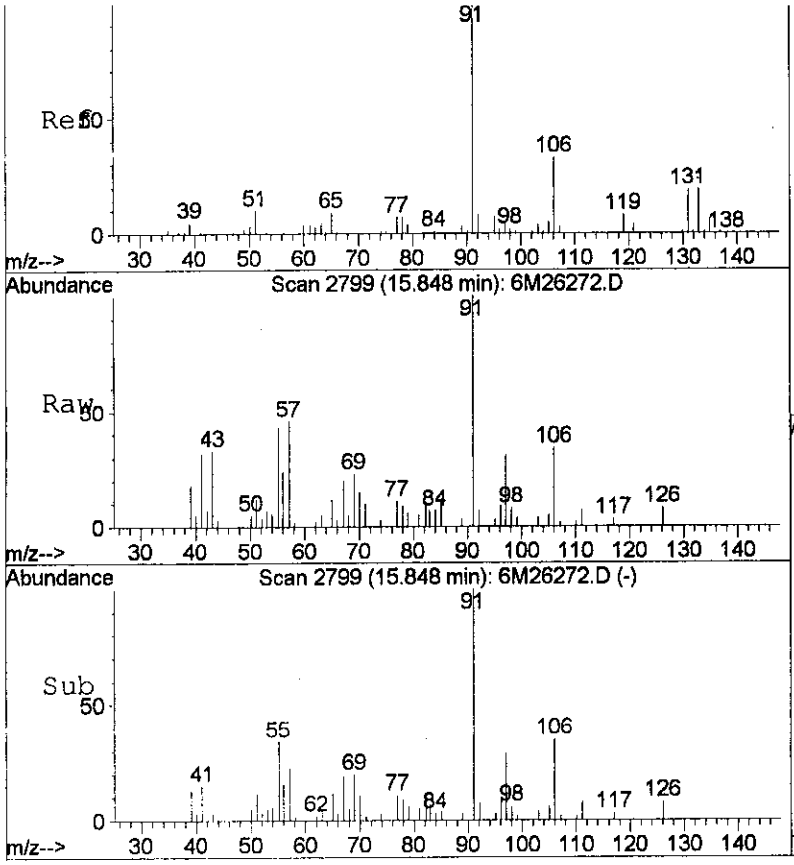


#50
2-Hexanone
Concen: 2.60 ug/L
RT: 14.08 min Scan# 2463
Delta R.T. 0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 43 Resp: 15502

Ion	Ratio	Lower	Upper
43	100		
58	33.6	41.4	62.2#

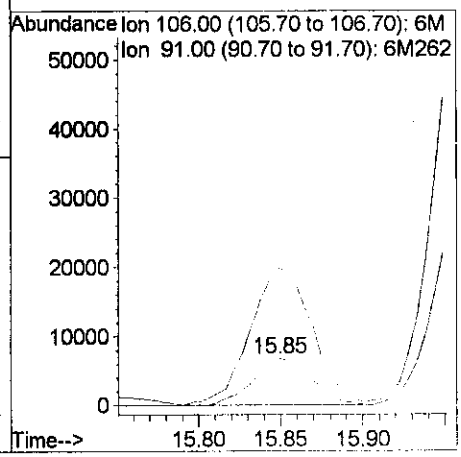


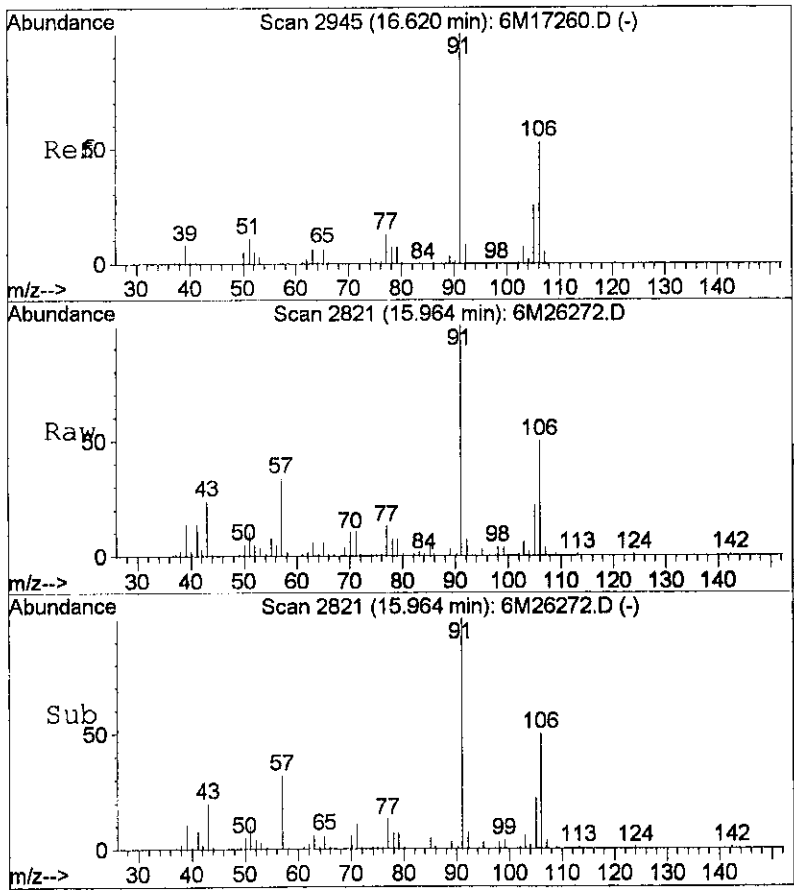


Ethylbenzene
Concen: 0.46 ug/L
RT: 15.85 min Scan# 2799
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:106 Resp: 16718

Ion	Ratio	Lower	Upper
106	100		
91	313.0	238.2	357.4

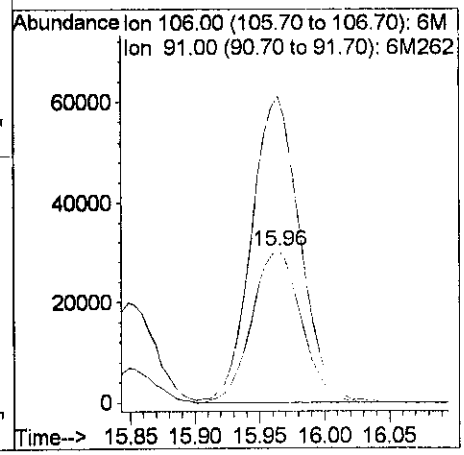


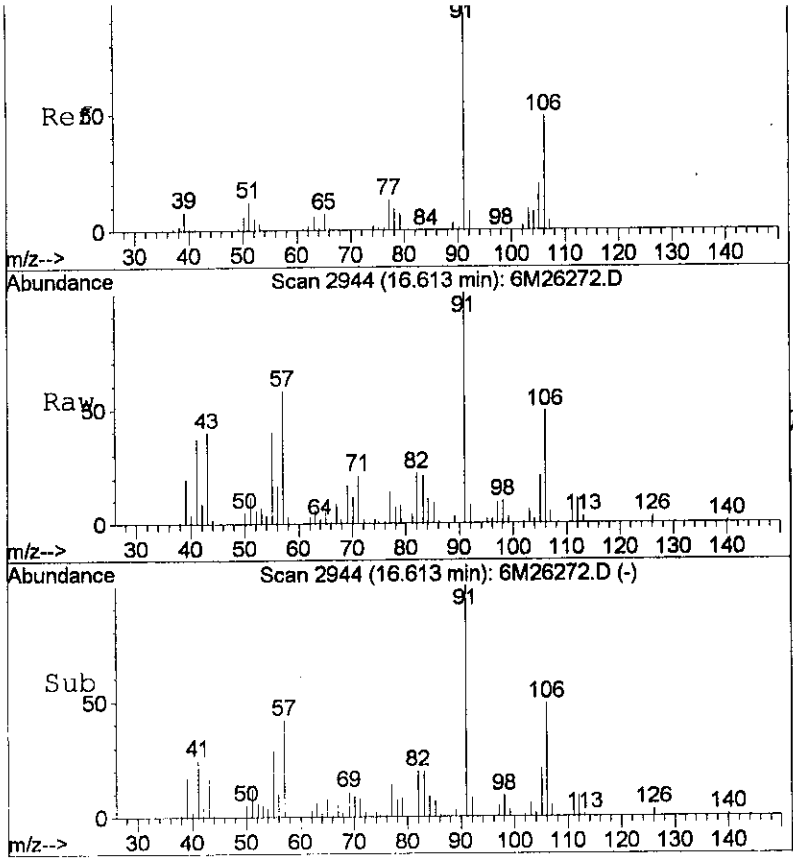


#59
m-,p-Xylene
Concen: 1.74 ug/L
RT: 15.96 min Scan# 2821
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:106 Resp: 79731

Ion	Ratio	Lower	Upper
106	100		
91	199.6	146.8	220.2

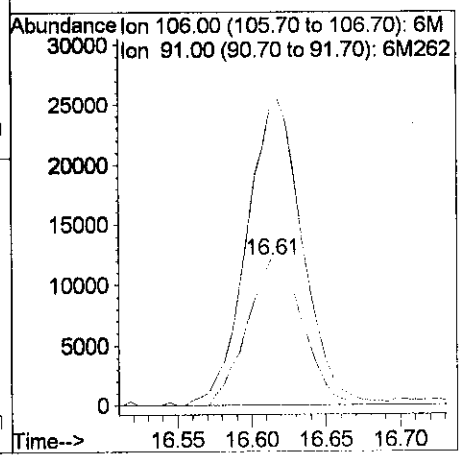


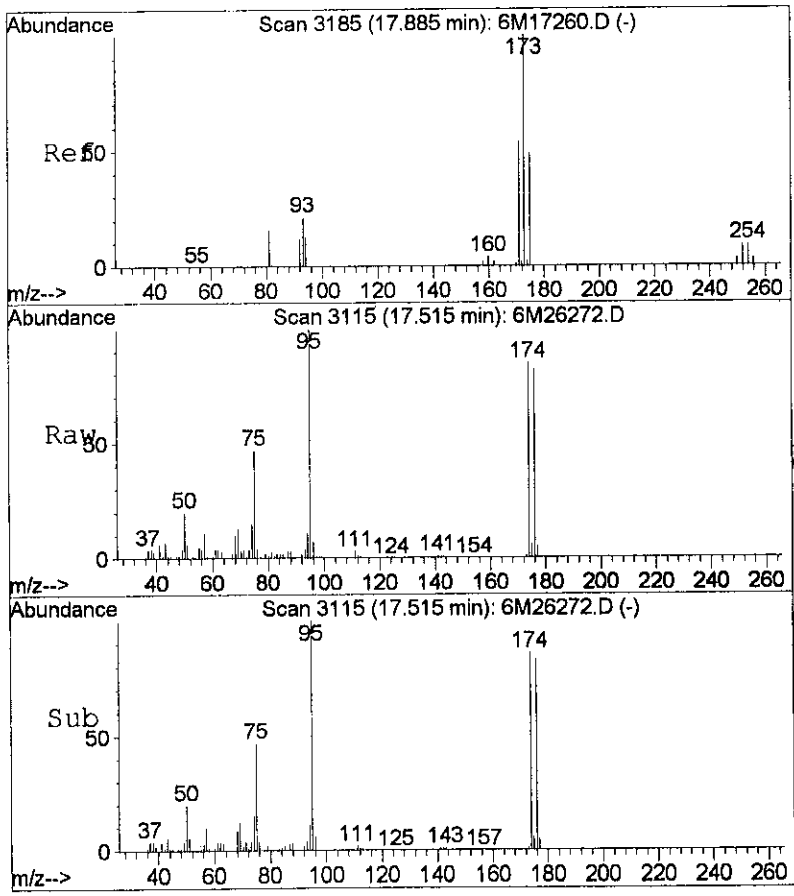


o-Xylene
Concen: 0.76 ug/L
RT: 16.61 min Scan# 2944
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:106 Resp: 31581

Ion	Ratio	Lower	Upper
106	100		
91	212.2	164.3	246.5

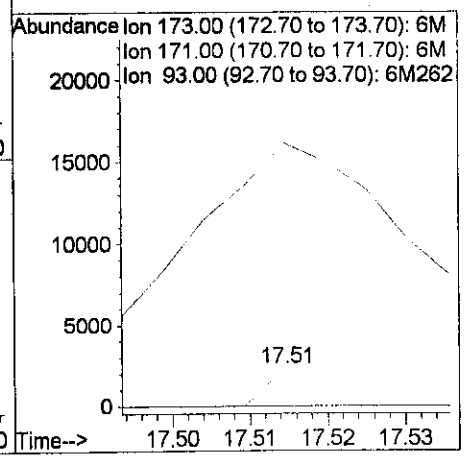


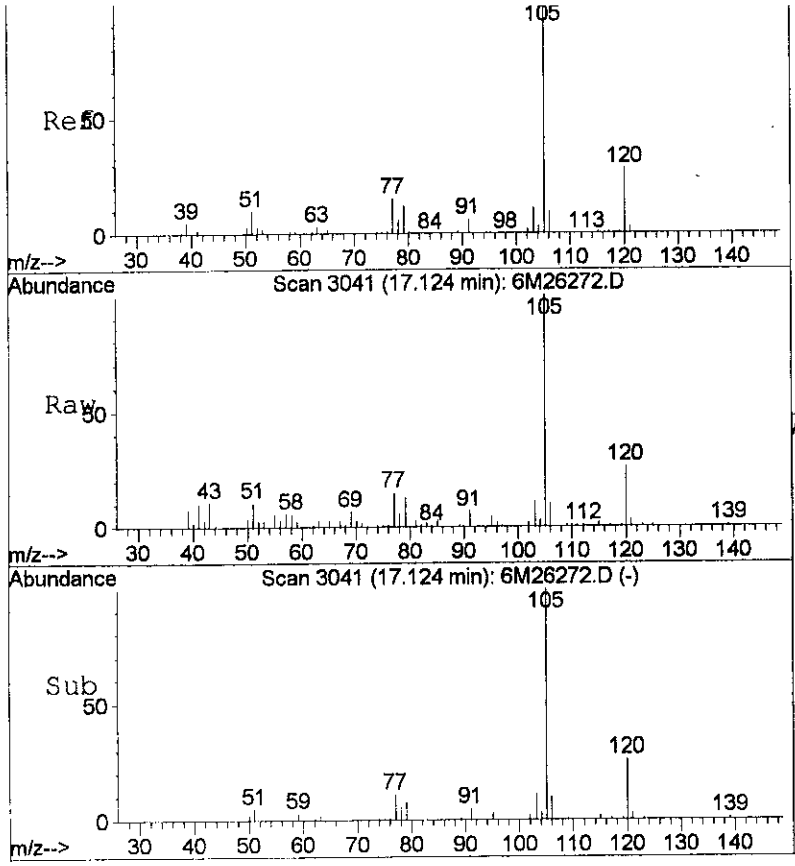


#62
Bromoform
Concen: 0.08 ug/L
RT: 17.51 min Scan# 3115
Delta R.T. 0.31 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:173 Resp: 738

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	4843.2	18.2	27.2#

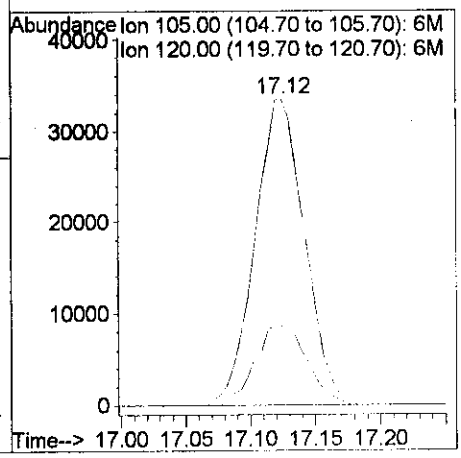


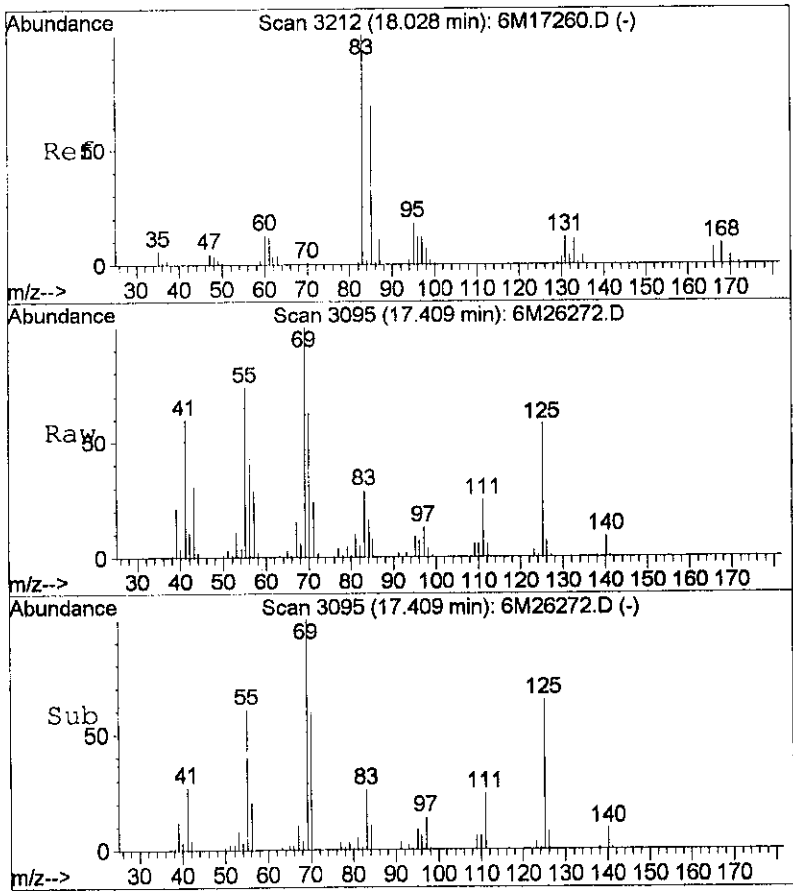


Isopropylbenzene
Concen: 0.82 ug/L
RT: 17.12 min Scan# 3041
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:105 Resp: 88526

Ion	Ratio	Lower	Upper
105	100		
120	27.1	22.6	34.0

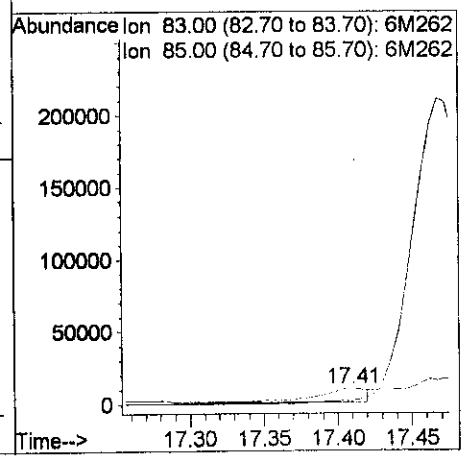


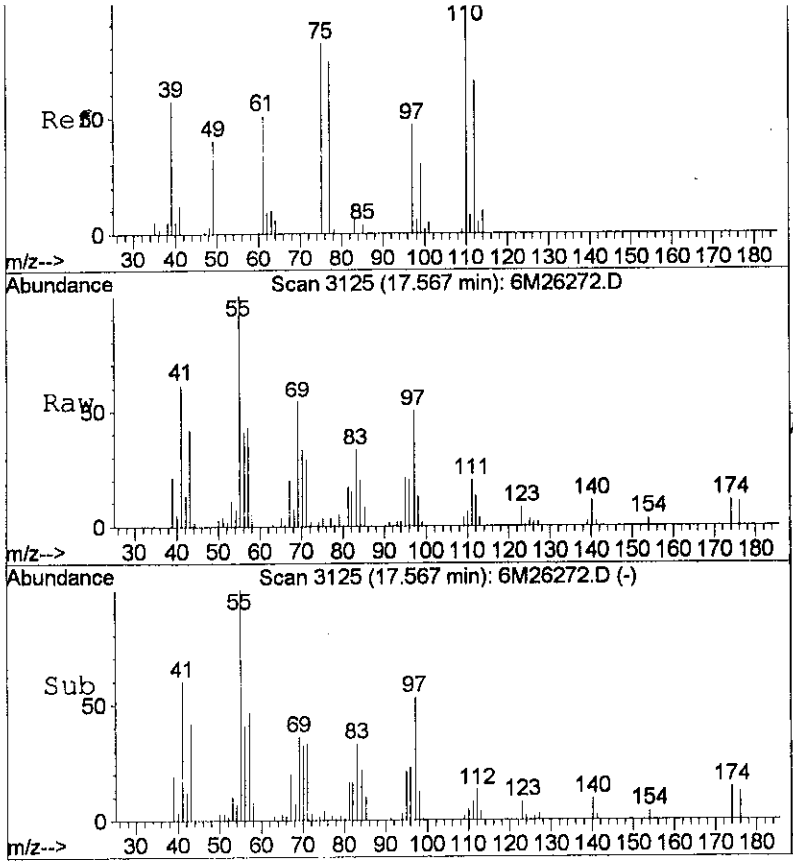


#65
1,1,2,2-Tetrachloroethane
Concen: 1.56 ug/L
RT: 17.41 min Scan# 3095
Delta R.T. 0.04 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 83 Resp: 21292

Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.7	77.5#

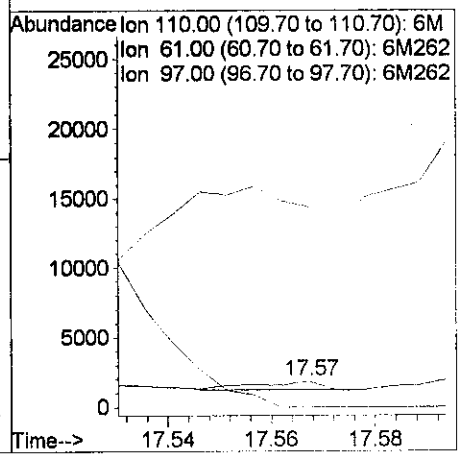


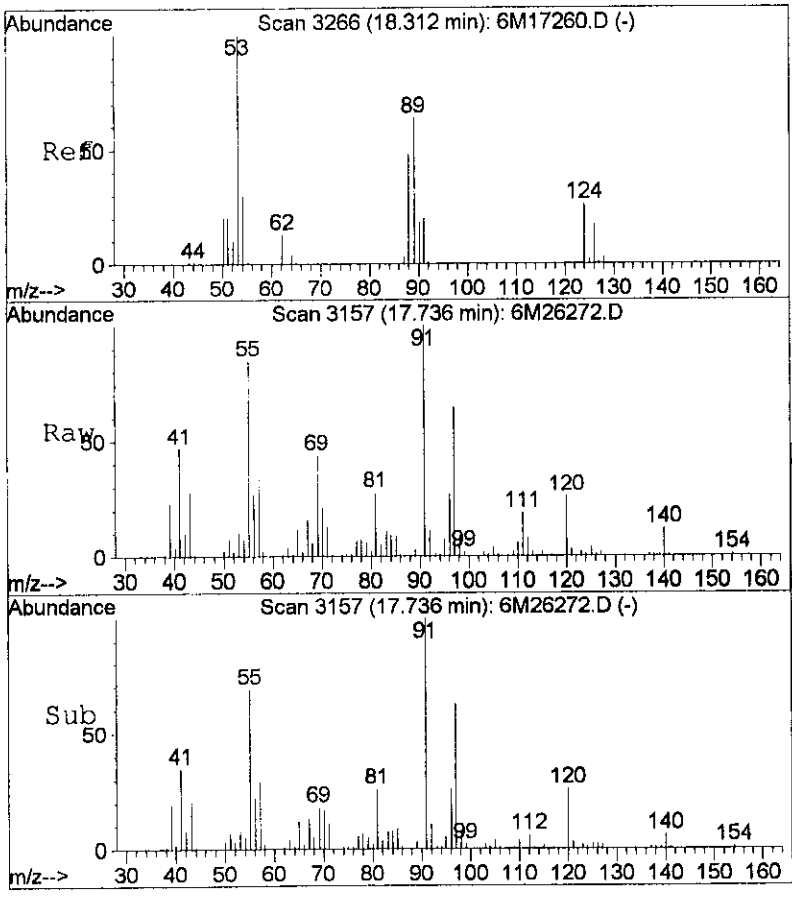


1,2,3-Trichloropropane
Concen: 0.12 ug/L
RT: 17.57 min Scan# 3125
Delta R.T. -0.02 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:110 Resp: 539

Ion	Ratio	Lower	Upper
110	100		
61	0.0	51.9	77.9#
97	6187.6	38.5	57.7#

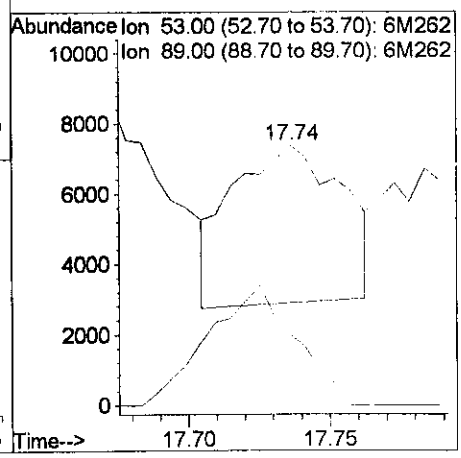


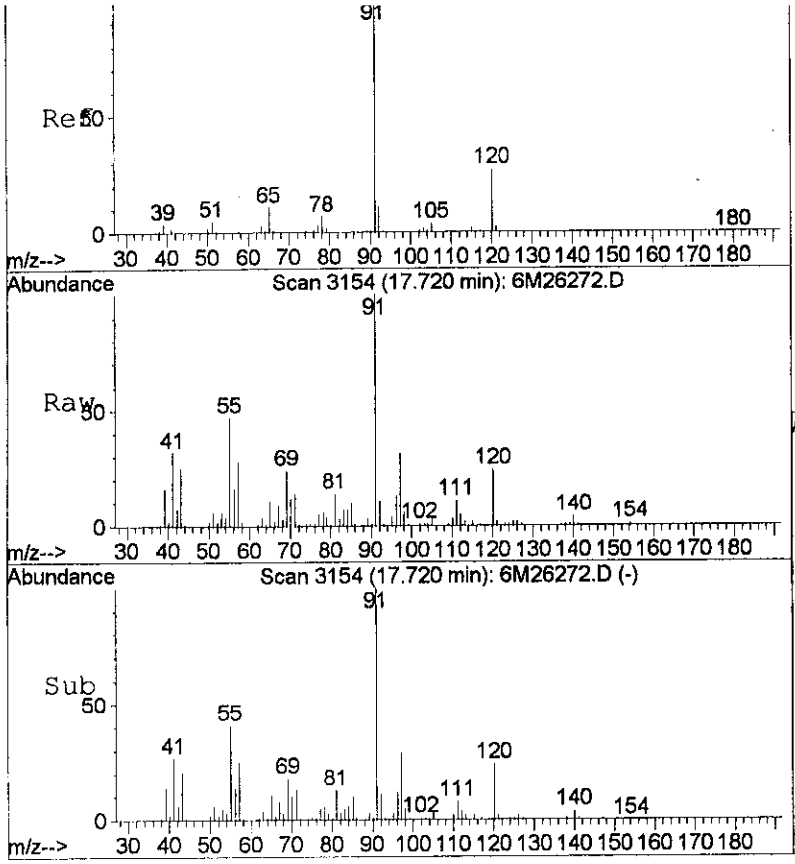


#68
trans-1,4-Dichloro-2-Butene
Concen: 3.23 ug/L
RT: 17.74 min Scan# 3157
Delta R.T. 0.08 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 53 Resp: 12269

Ion	Ratio	Lower	Upper
53	100		
89	59.1	52.6	79.0

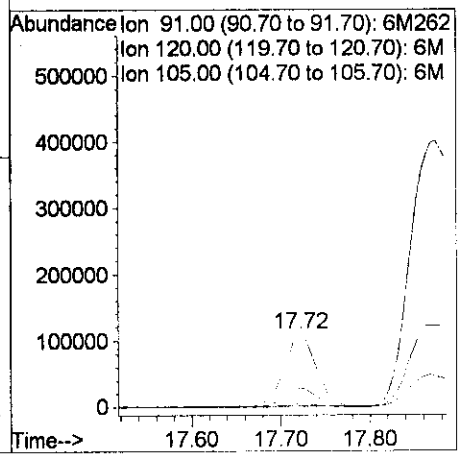


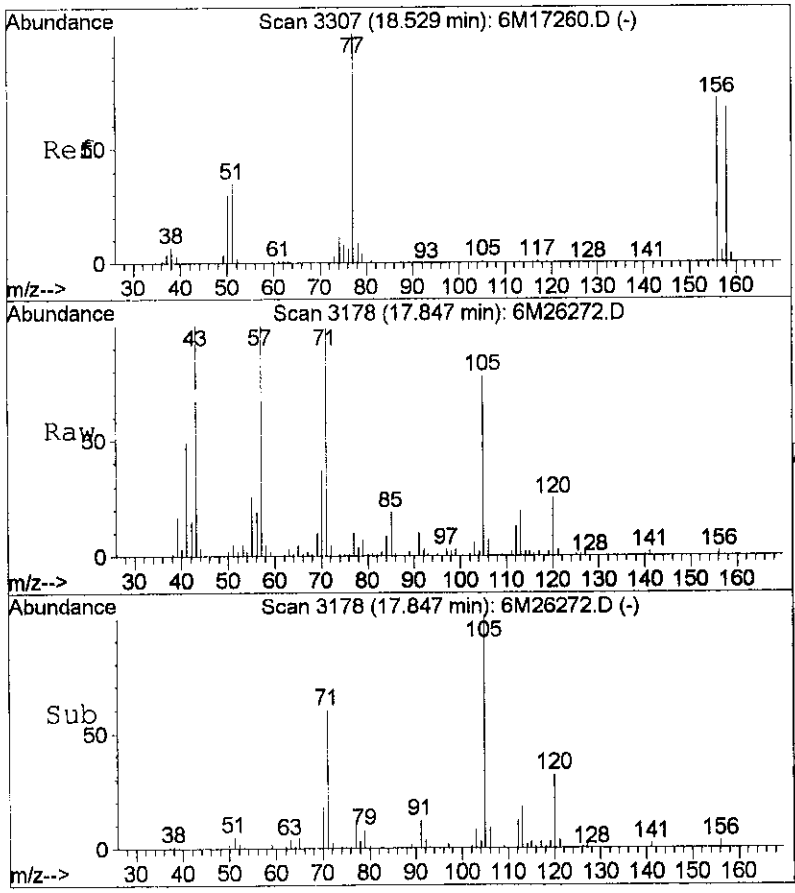


n-Propylbenzene
Concen: 2.07 ug/L
RT: 17.72 min Scan# 3154
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 91 Resp: 270536

Ion	Ratio	Lower	Upper
91	100		
120	24.5	20.6	31.0
105	4.3	3.4	5.0

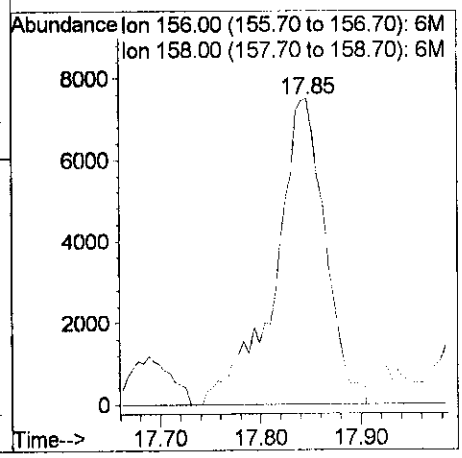


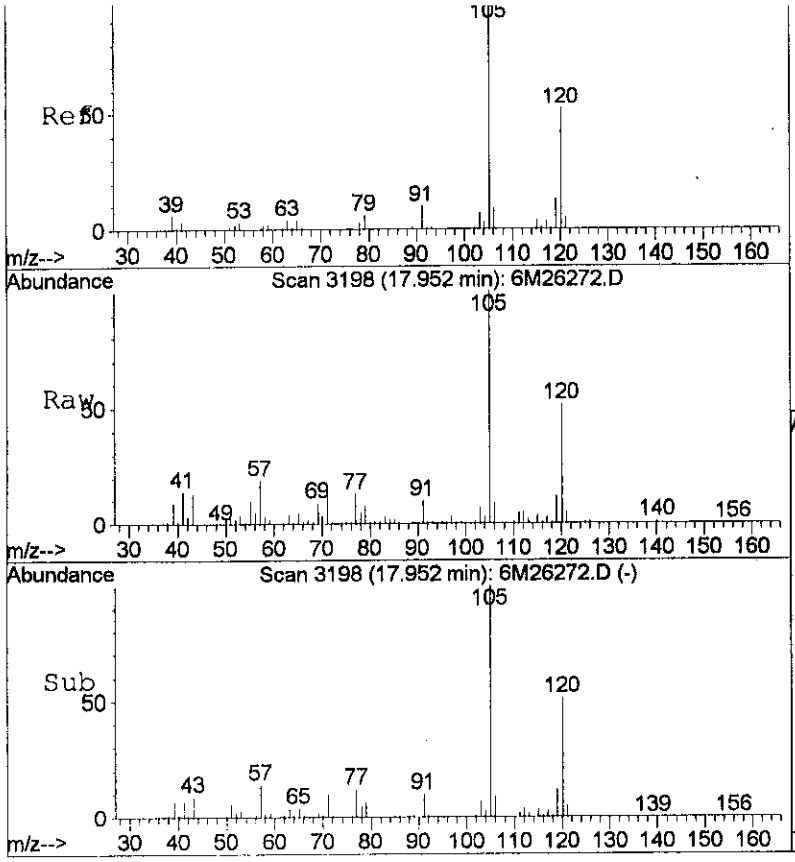


#70
Bromobenzene
Concen: 0.85 ug/L
RT: 17.85 min Scan# 3178
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:156 Resp: 26068

Ion	Ratio	Lower	Upper
156	100		
158	0.0	76.9	115.3#

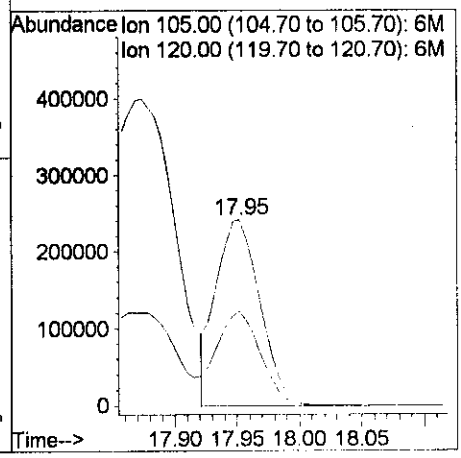


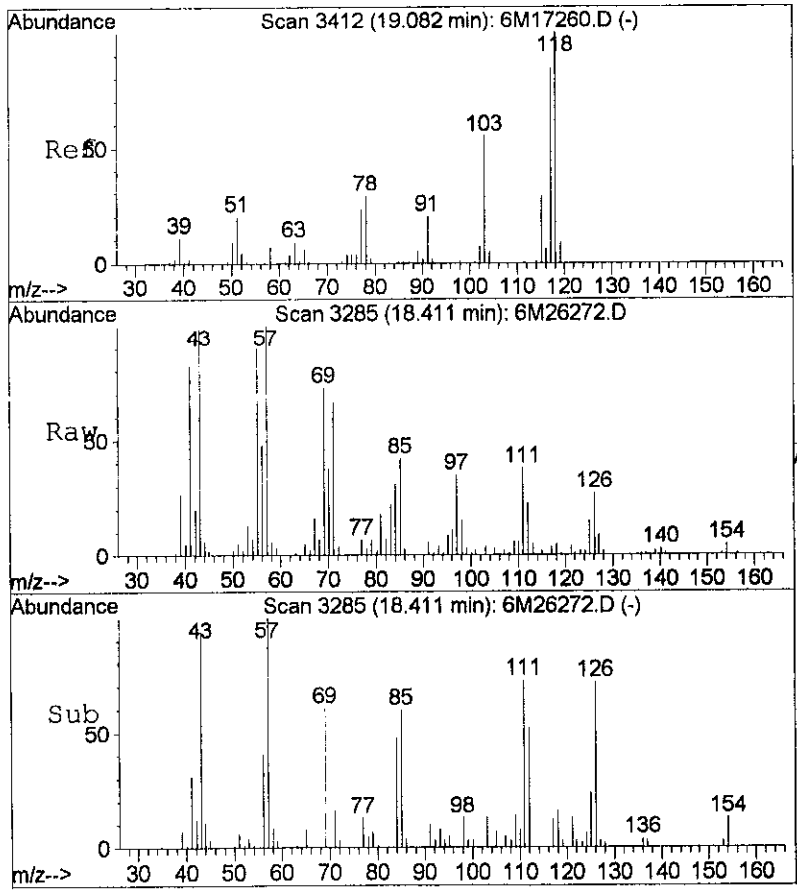


1,3,5-Trimethylbenzene
Concen: 6.16 ug/L
RT: 17.95 min Scan# 3198
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:105 Resp: 596420

Ion	Ratio	Lower	Upper
105	100		
120	51.7	40.9	61.3

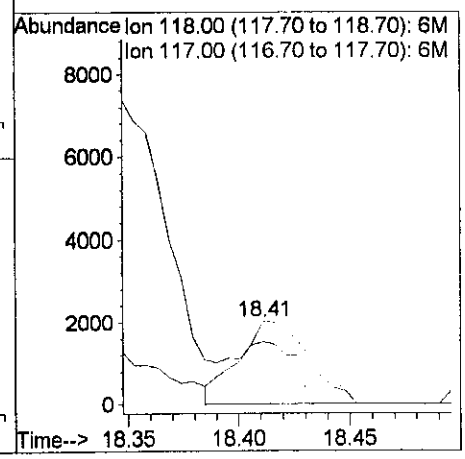


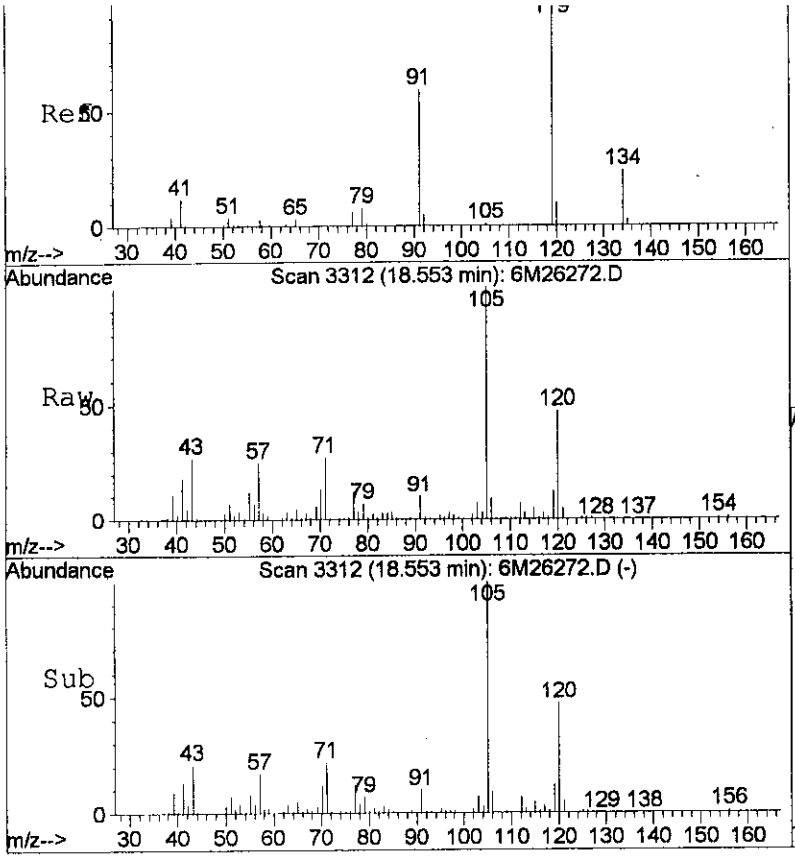


#74
a-Methylstyrene
Concen: 0.09 ug/L
RT: 18.41 min Scan# 3285
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:118 Resp: 4537

Ion	Ratio	Lower	Upper
118	100		
117	79.5	67.3	100.9

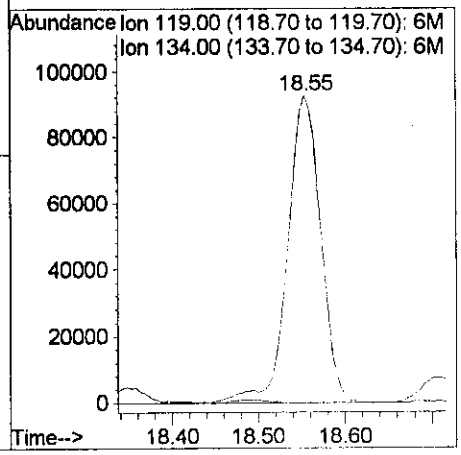


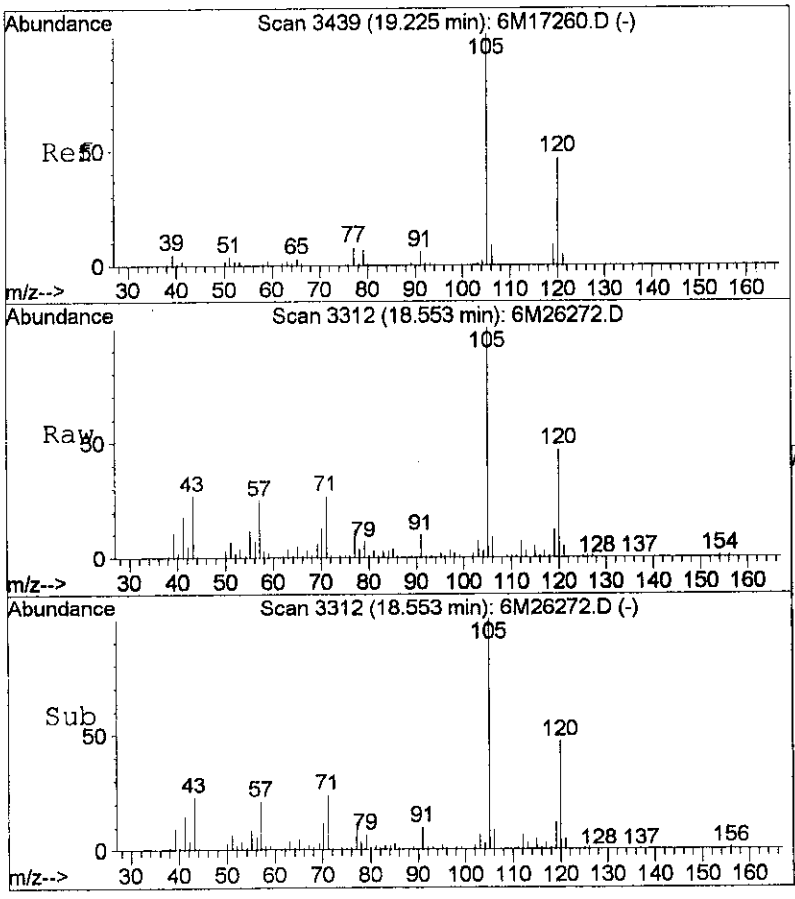


tert-Butylbenzene
Concen: 2.70 ug/L
RT: 18.55 min Scan# 3312
Delta R.T. 0.05 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:119 Resp: 244674

Ion	Ratio	Lower	Upper
119	100		
134	0.0	19.7	29.5#

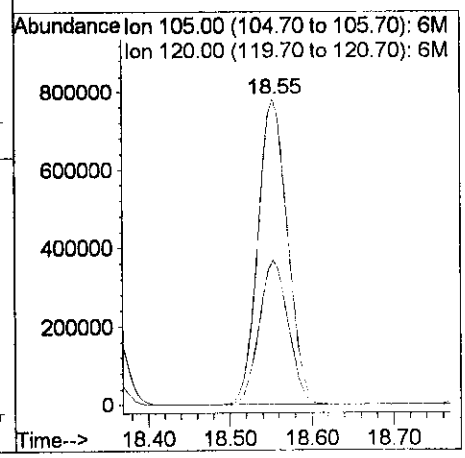


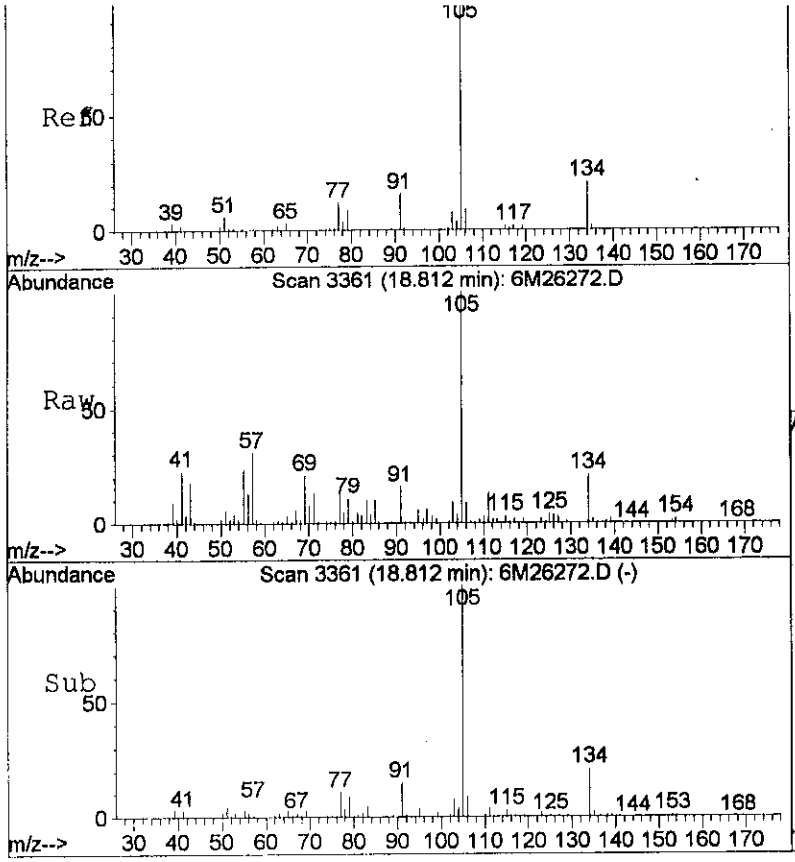


#76
1,2,4-Trimethylbenzene
Concen: 18.74 ug/L
RT: 18.55 min Scan# 3312
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:105 Resp: 1971057

Ion	Ratio	Lower	Upper
105	100		
120	46.7	38.7	58.1

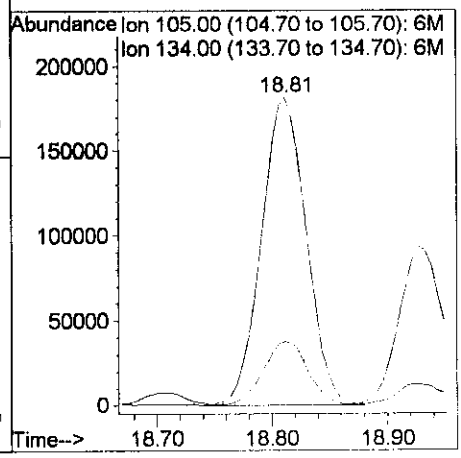


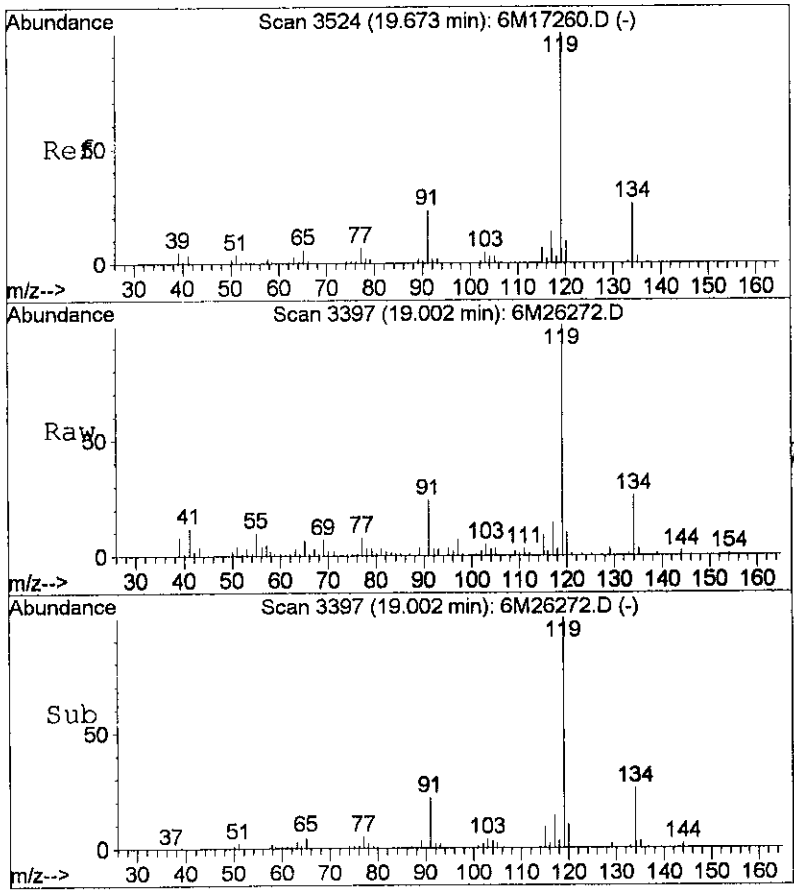


sec-Butylbenzene
Concen: 4.05 ug/L
RT: 18.81 min Scan# 3361
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:105 Resp: 488593

Ion	Ratio	Lower	Upper
105	100		
134	20.7	17.5	26.3

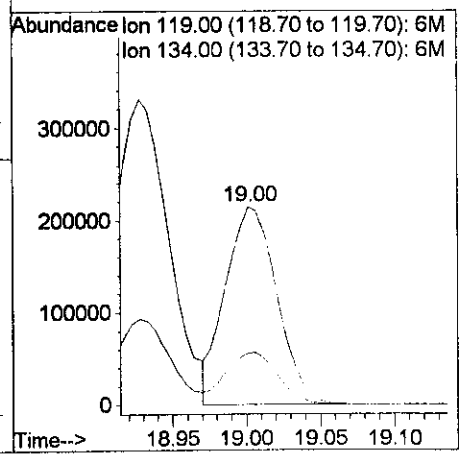


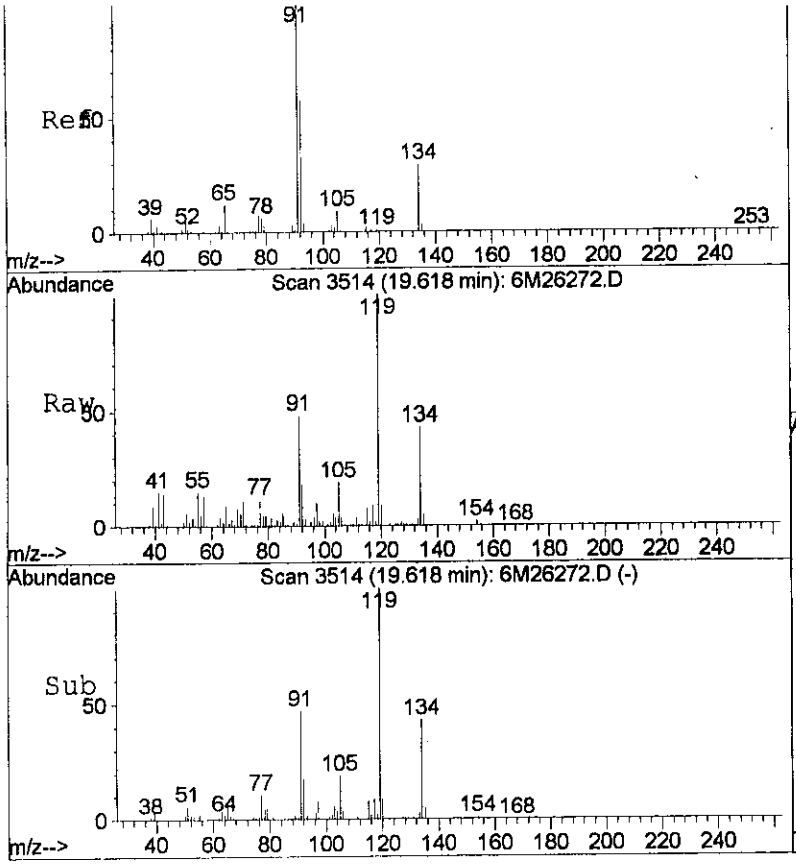


#78
p-Isopropyltoluene
Concen: 4.80 ug/L
RT: 19.00 min Scan# 3397
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:119 Resp: 520066

Ion	Ratio	Lower	Upper
119	100		
134	26.6	22.3	33.5

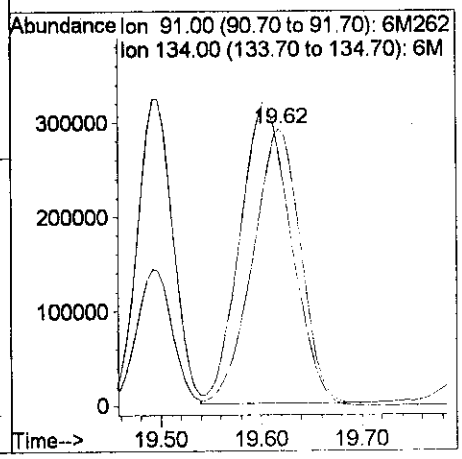


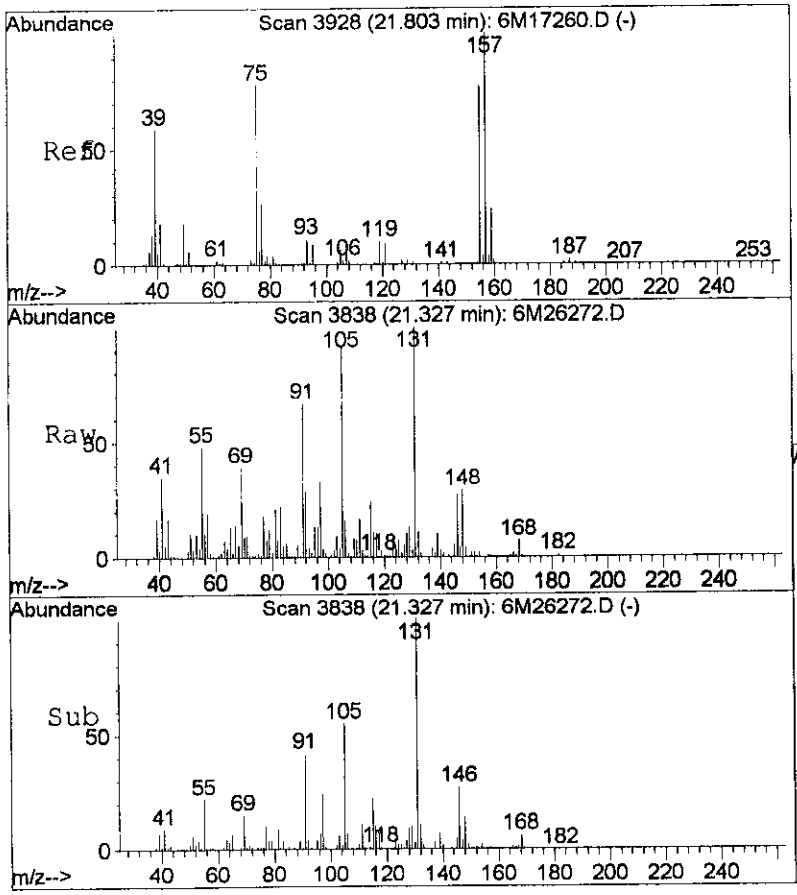


n-Butylbenzene
Concen: 10.17 ug/L
RT: 19.62 min Scan# 3514
Delta R.T. -0.01 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion: 91 Resp: 955333

Ion	Ratio	Lower	Upper
91	100		
134	118.6	23.0	34.4#

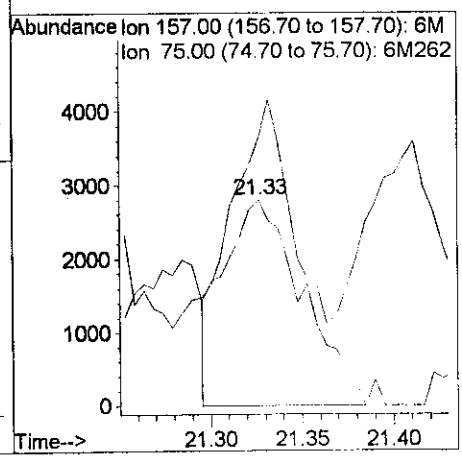


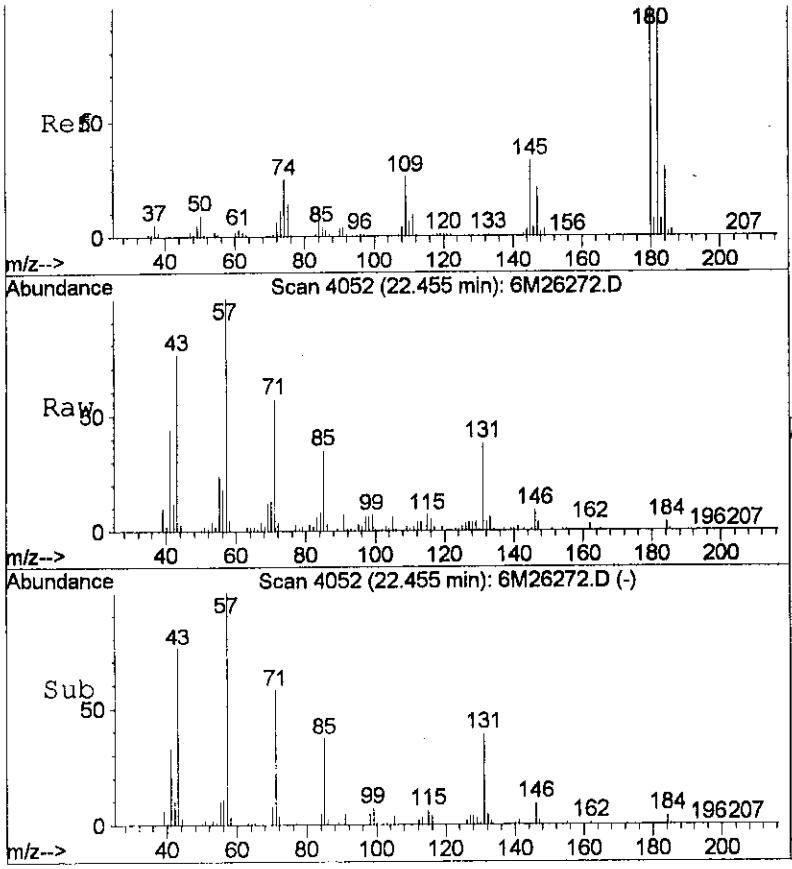


#83
1,2-Dibromo-3-Chloropropane
Concen: 4.47 ug/L
RT: 21.33 min Scan# 3838
Delta R.T. 0.22 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:157 Resp: 8427

Ion	Ratio	Lower	Upper
157	100		
75	80.0	69.7	104.5

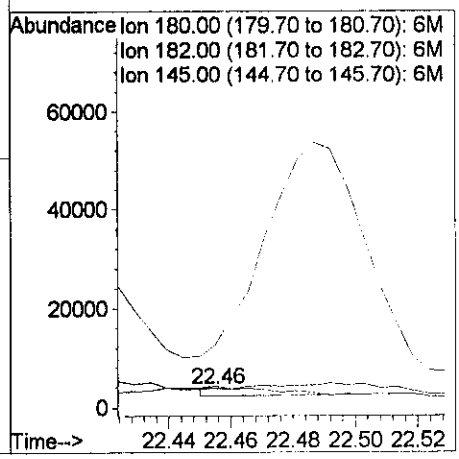


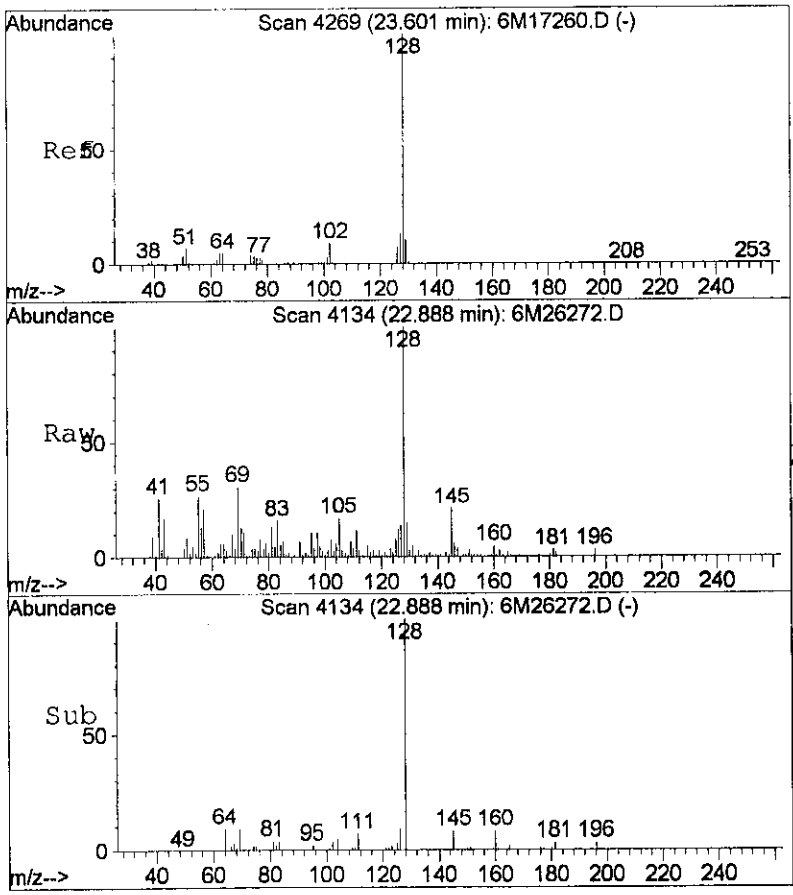


1,2,4-Trichlorobenzene
Concen: 0.07 ug/L
RT: 22.46 min Scan# 4052
Delta R.T. -0.02 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:180 Resp: 2466

Ion	Ratio	Lower	Upper
180	100		
182	70.1	75.8	113.8#
145	0.0	27.4	41.0#

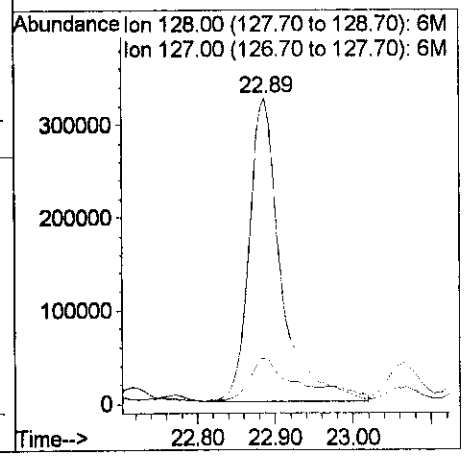


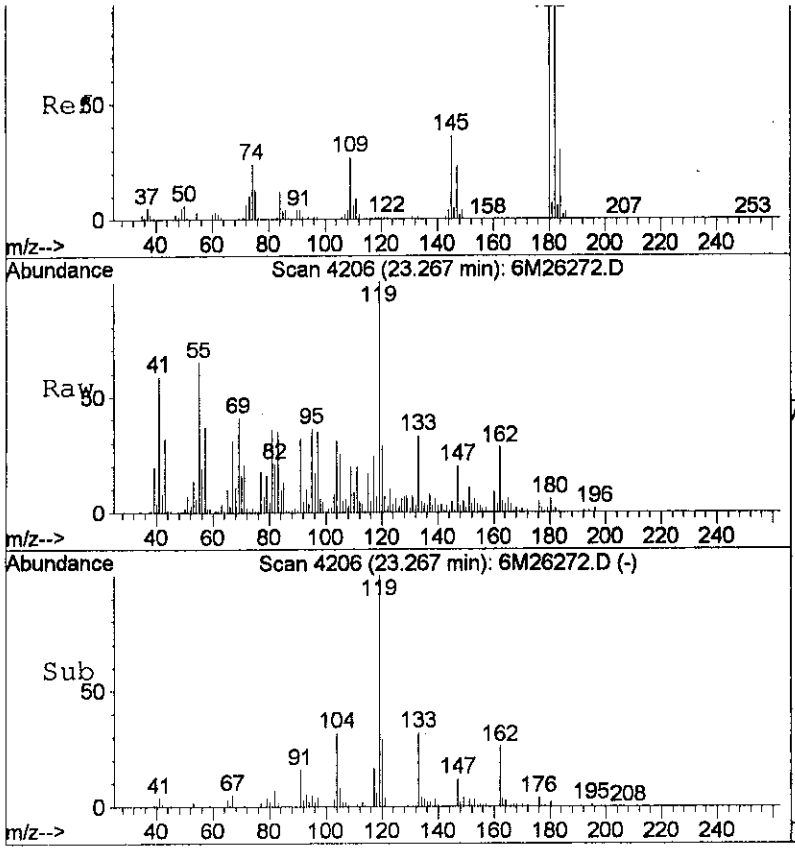


#86
Naphthalene
Concen: 16.27 ug/L
RT: 22.89 min Scan# 4134
Delta R.T. -0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:128 Resp: 929770

Ion	Ratio	Lower	Upper
128	100		
127	17.6	7.1	10.7#

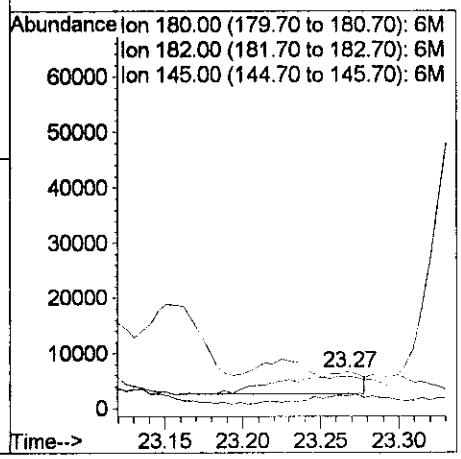




1,2,3-Trichlorobenzene
Concen: 0.42 ug/L
RT: 23.27 min Scan# 4206
Delta R.T. 0.00 min
Lab File: 6M26272.D
Acq: 14 Jun 2001 13:02

Tgt Ion:180 Resp: 13010

Ion	Ratio	Lower	Upper
180	100		
182	27.8	76.3	114.5#
145	19.3	28.8	43.2#



2.1.1.3 Standards Data

Calibration Table Report
Method: 8260BWT.M
Title: Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Calibration: Mon Jun 11 07:34:09 2001

Calibration Files

	Compound	0.25 6M26148.D	0.5 6M26149.D	1 6M26150.D	5 6M26152.D	10 6M26153.D	200 6M26157.D	20 6M26154.D	50 6M26155.D	100 6M26156.D	Avg	%RSD	
I	Fluorobenzene	ISTD											
T	Dichlorodifluoromethane	0.468	0.482	0.476	0.432	0.411	0.333	0.403	0.384	0.378	0.418	12.1	
P	Chloromethane	0.355	0.401	0.396	0.333	0.310	0.278	0.303	0.289	0.291	0.328	14.0	
C	Vinyl Chloride	0.333	0.339	0.357	0.310	0.283	0.165	0.263	0.217	0.193	0.273	25.2	QR=0.999
T	Bromomethane	0.137	0.139	0.160	0.136	0.142	0.136	0.149	0.149	0.148	0.144	5.6	
T	Chloroethane		0.191	0.201	0.176	0.164	0.136	0.163	0.151	0.149	0.166	13.1	
T	Trichlorofluoromethane	0.568	0.569	0.549	0.504	0.507	0.577	0.516	0.532	0.572	0.544	5.4	
T	Isoprene			0.302	0.348	0.376	0.430	0.401	0.416	0.435	0.387	12.5	
T	Acrolein				0.009	0.011	0.014	0.012	0.013	0.014	0.012	17.8	LR=1.000
T	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.275	0.291	0.284	0.267	0.272	0.270	0.276	0.275	0.287	0.278	2.9	
T	Acetone				0.043	0.040	0.043	0.037	0.043	0.046	0.042	7.4	
C	1,1-Dichloroethene	0.188	0.193	0.202	0.207	0.217	0.264	0.229	0.236	0.259	0.222	12.3	
T	Dimethyl Sulfide				0.247	0.274	0.315	0.296	0.308	0.317	0.293	9.4	
T	Iodomethane				0.064	0.075	0.124	0.097	0.125	0.139	0.104	29.1	LR=0.995
T	Methylene Chloride	0.440	0.372	0.338	0.291	0.283	0.260	0.282	0.273	0.272	0.312	19.1	LR=1.000
T	Carbon Disulfide	1.065	0.974	0.977	0.903	0.966	0.987	1.016	1.028	1.042	0.995	4.9	
T	Acrylonitrile				0.044	0.044	0.059	0.054	0.057	0.060	0.053	13.8	
T	Methyl Tert Butyl Ether		0.336	0.349	0.388	0.431	0.499	0.454	0.471	0.488	0.427	14.7	
T	trans-1,2-Dichloroethene	0.222	0.251	0.270	0.259	0.271	0.291	0.280	0.285	0.300	0.270	8.8	
T	n-Hexane	0.280	0.331	0.332	0.389	0.417	0.396	0.430	0.424	0.420	0.380	14.0	
T	Vinyl Acetate				0.158	0.189	0.169	0.192	0.186	0.193	0.181	7.8	
P	1,1-Dichloroethane	0.468	0.495	0.501	0.465	0.493	0.522	0.507	0.512	0.533	0.500	4.5	
T	2-Butanone				0.041	0.047	0.061	0.050	0.056	0.061	0.053	15.2	LR=1.000
T	2,2-Dichloropropane	0.285	0.303	0.315	0.340	0.365	0.438	0.395	0.418	0.448	0.367	16.5	LR=1.000
T	cis-1,2-Dichloroethene	0.224	0.254	0.257	0.273	0.291	0.308	0.298	0.303	0.318	0.281	11.0	
C	Chloroform	0.574	0.564	0.555	0.495	0.509	0.499	0.508	0.509	0.519	0.526	5.7	
T	Bromochloromethane	0.106	0.140	0.130	0.125	0.129	0.141	0.132	0.137	0.143	0.131	8.5	
S	Dibromofluoromethane			0.312	0.280	0.287	0.299	0.288	0.290	0.298	0.293	3.5	
T	1,1,1-Trichloroethane	0.452	0.464	0.472	0.444	0.471	0.473	0.482	0.488	0.504	0.472	3.9	
T	Cyclohexane			0.352	0.421	0.469	0.477	0.484	0.490	0.498	0.456	11.4	
T	1,1-Dichloropropene	0.302	0.358	0.383	0.402	0.423	0.416	0.436	0.434	0.442	0.400	11.4	
T	Carbon Tetrachloride	0.356	0.387	0.380	0.385	0.419	0.443	0.439	0.451	0.468	0.414	9.3	
S	1,2-Dichloroethane-d4			0.333	0.284	0.288	0.273	0.280	0.276	0.279	0.288	7.1	
T	1,2-Dichloroethane	0.344	0.382	0.366	0.347	0.359	0.336	0.353	0.350	0.355	0.355	3.8	
T	Benzene	1.060	1.189	1.188	1.161	1.194	1.070	1.200	1.174	1.171	1.156	4.6	
T	Trichloroethene	0.367	0.356	0.364	0.351	0.353	0.347	0.361	0.363	0.367	0.359	2.0	
C	1,2-Dichloropropane	0.273	0.284	0.281	0.278	0.282	0.282	0.286	0.284	0.292	0.282	1.8	
T	Bromodichloromethane	0.375	0.371	0.370	0.372	0.375	0.372	0.377	0.380	0.387	0.376	1.4	
T	Dibromomethane	0.116	0.139	0.134	0.136	0.137	0.135	0.136	0.136	0.139	0.134	5.3	
T	2-Chloroethyl Vinyl Ether			0.056	0.082	0.091	0.107	0.099	0.106	0.110	0.093	20.4	LR=1.000
T	4-Methyl-2-Pentanone				0.047	0.051	0.059	0.054	0.057	0.059	0.055	9.1	
T	cis-1,3-Dichloropropene	0.287	0.307	0.314	0.373	0.397	0.419	0.416	0.426	0.435	0.375	15.3	LR=1.000
T	Dimethyl Disulfide				0.176	0.207	0.251	0.230	0.247	0.253	0.227	13.5	
I	Chlorobenzene-d5	ISTD											
S	Toluene-d8			1.324	1.288	1.344	1.265	1.341	1.330	1.317	1.316	2.2	
C	Toluene	1.201	1.374	1.516	1.543	1.584	1.313	1.589	1.540	1.497	1.462	9.2	
T	Ethyl Methacrylate				0.211	0.246	0.267	0.261	0.273	0.274	0.255	9.4	
T	trans-1,3-Dichloropropene	0.226	0.262	0.278	0.338	0.370	0.384	0.391	0.402	0.404	0.340	19.9	LR=0.999
T	1,1,2-Trichloroethane	0.178	0.210	0.213	0.206	0.211	0.201	0.211	0.210	0.210	0.205	5.3	
T	2-Hexanone				0.086	0.095	0.112	0.102	0.109	0.112	0.102	10.3	
T	1,3-Dichloropropane	0.333	0.347	0.346	0.355	0.367	0.359	0.371	0.376	0.375	0.359	4.1	
T	Tetrachloroethene	0.312	0.350	0.353	0.330	0.335	0.291	0.336	0.329	0.322	0.328	5.8	
T	Dibromochloromethane	0.209	0.247	0.255	0.274	0.291	0.302	0.305	0.312	0.313	0.279	12.7	

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T	1,2-Dibromoethane	0.177	0.192	0.194	0.202	0.212	0.216	0.219	0.223	0.224	0.207	7.9	
T	1-Chlorohexane		0.307	0.373	0.456	0.490	0.469	0.515	0.512	0.504	0.453	16.5	LR=0.999
P	Chlorobenzene	1.291	1.328	1.253	1.154	1.133	0.930	1.129	1.090	1.056	1.152	10.8	
T	1,1,1,2-Tetrachloroethane	0.327	0.368	0.338	0.345	0.357	0.289	0.363	0.355	0.337	0.342	7.0	
C	Ethylbenzene	0.606	0.691	0.675	0.646	0.650	0.513	0.645	0.619	0.594	0.627	8.4	
T	m-,p-Xylene	0.781	0.846	0.872	0.852	0.836	0.583	0.825	0.778	0.725	0.789	11.4	
T	o-Xylene	0.555	0.637	0.723	0.774	0.781	0.661	0.794	0.768	0.742	0.715	11.3	
T	Styrene	0.916	1.180	1.297	1.359	1.367	1.079	1.377	1.330	1.264	1.241	12.6	
P	Bromoform		0.136	0.134	0.156	0.167	0.186	0.177	0.186	0.187	0.166	13.2	
T	Isopropylbenzene	1.469	1.690	1.859	2.057	2.075	1.563	2.090	1.995	1.887	1.854	12.5	
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane	0.321	0.397	0.335	0.347	0.347	0.372	0.349	0.345	0.353	0.352	6.1	
S	p-Bromofluorobenzene			0.884	0.856	0.889	0.852	0.897	0.893	0.870	0.877	2.0	
T	1,2,3-Trichloropropane	0.086	0.105	0.111	0.119	0.120	0.124	0.121	0.120	0.119	0.114	10.4	
T	trans-1,4-Dichloro-2-Butene				0.082	0.091	0.113	0.095	0.101	0.105	0.098	11.0	
T	n-Propylbenzene	2.605	3.122	3.417	3.800	3.825	2.711	3.834	3.639	3.372	3.370	13.9	
T	Bromobenzene	0.695	0.852	0.811	0.815	0.830	0.710	0.832	0.802	0.778	0.792	6.9	
T	1,3,5-Trimethylbenzene	1.891	2.307	2.480	2.764	2.789	2.165	2.798	2.709	2.575	2.497	12.8	
T	2-Chlorotoluene	2.114	2.410	2.468	2.474	2.379	1.825	2.472	2.339	2.208	2.299	9.4	
T	4-Chlorotoluene	2.010	2.515	2.481	2.451	2.529	1.881	2.444	2.328	2.170	2.312	10.3	
T	a-Methylstyrene			1.135	1.378	1.431	1.268	1.474	1.446	1.394	1.361	8.8	
T	tert-Butylbenzene	1.906	2.384	2.417	2.518	2.542	2.023	2.532	2.424	2.328	2.342	9.7	
T	1,2,4-Trimethylbenzene	2.328	2.809	2.889	2.939	2.920	2.179	2.926	2.795	2.643	2.714	10.3	
T	sec-Butylbenzene	2.563	2.954	3.103	3.427	3.459	2.583	3.493	3.322	3.132	3.115	11.4	
T	p-Isopropyltoluene	2.114	2.579	2.803	3.103	3.127	2.358	3.148	3.031	2.878	2.794	13.2	
T	1,3-Dichlorobenzene	1.628	1.840	1.757	1.706	1.709	1.379	1.707	1.637	1.564	1.659	7.9	
T	1,4-Dichlorobenzene	2.050	2.084	1.958	1.778	1.744	1.377	1.731	1.659	1.569	1.772	13.0	
T	n-Butylbenzene	2.149	2.307	2.487	2.613	2.624	2.053	2.630	2.538	2.425	2.425	8.8	
T	1,2-Dichlorobenzene	1.464	1.600	1.529	1.495	1.504	1.256	1.509	1.457	1.397	1.468	6.6	
T	1,2-Dibromo-3-Chloropropane			0.061	0.072	0.077	0.098	0.081	0.090	0.097	0.082	16.5	LR=1.000
T	1,2,4-Trichlorobenzene	0.769	0.820	0.884	0.976	1.004	0.887	1.029	1.037	1.007	0.935	10.5	
T	Hexachlorobutadiene	0.443	0.447	0.450	0.438	0.444	0.407	0.454	0.448	0.446	0.442	3.1	
T	Naphthalene		0.796	0.946	1.262	1.400	1.311	1.445	1.489	1.462	1.264	20.4	LR=0.997
T	1,2,3-Trichlorobenzene	0.656	0.701	0.749	0.831	0.866	0.753	0.875	0.879	0.853	0.796	10.4	

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10.23069

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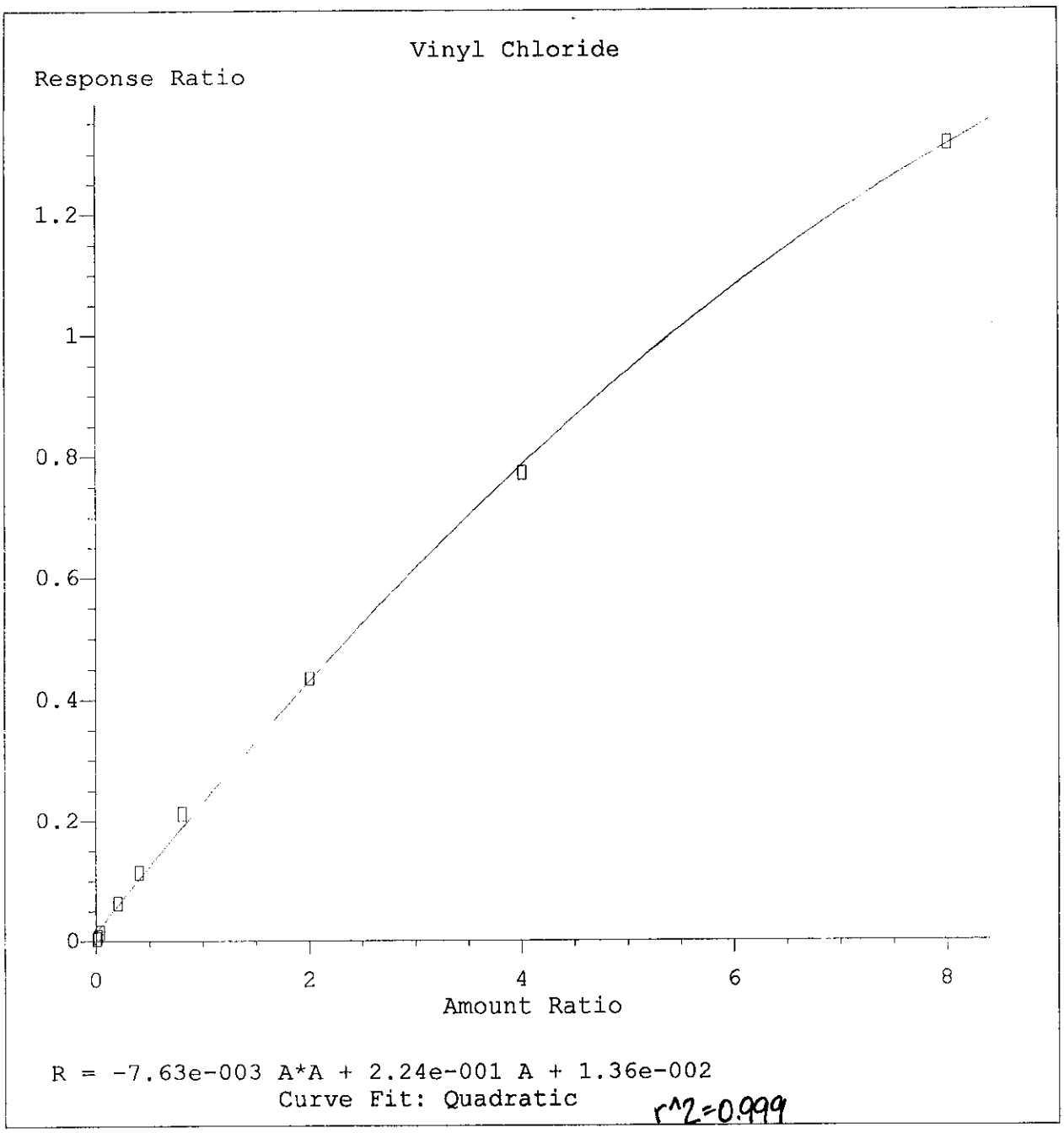
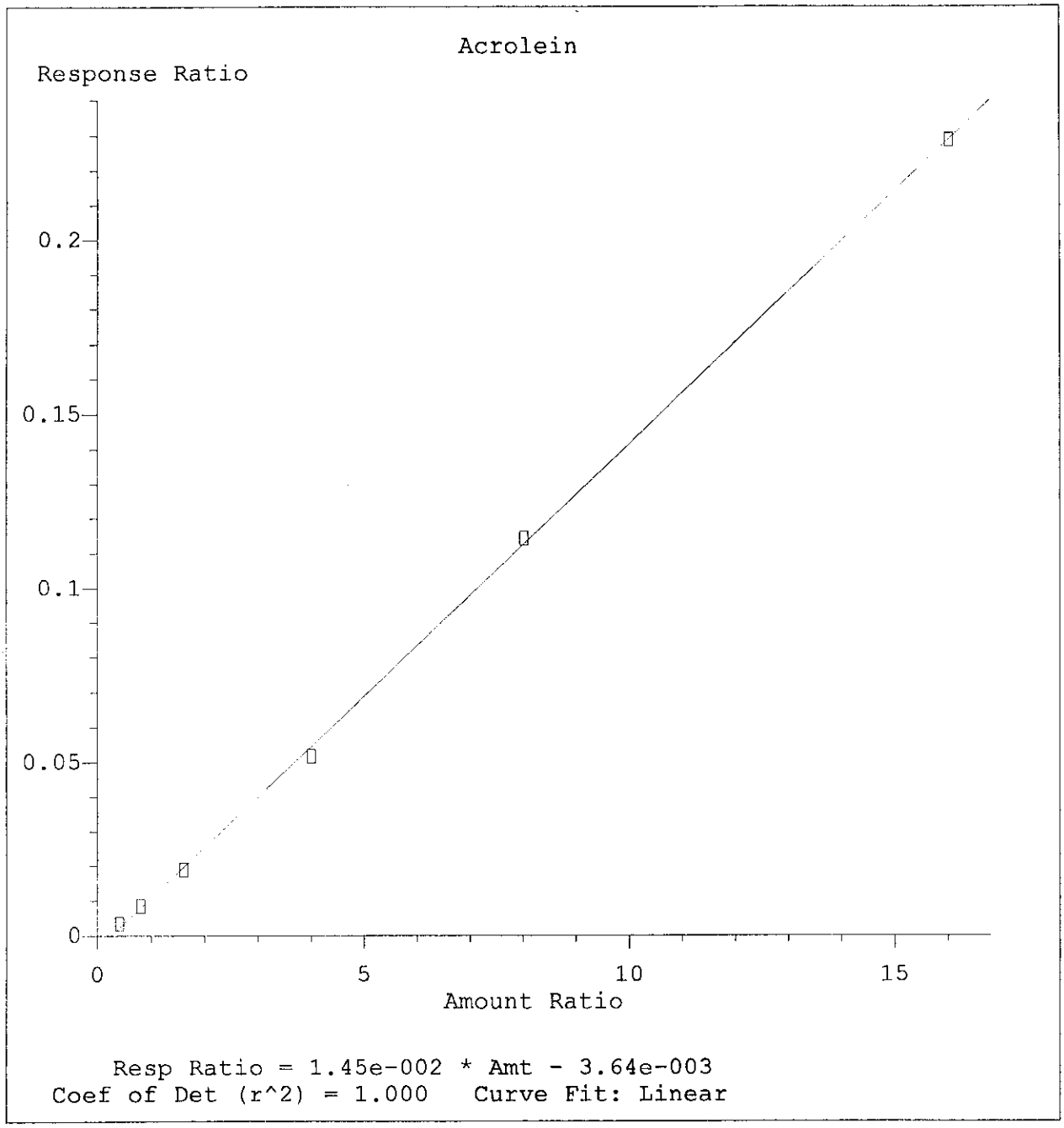


Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

105



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Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

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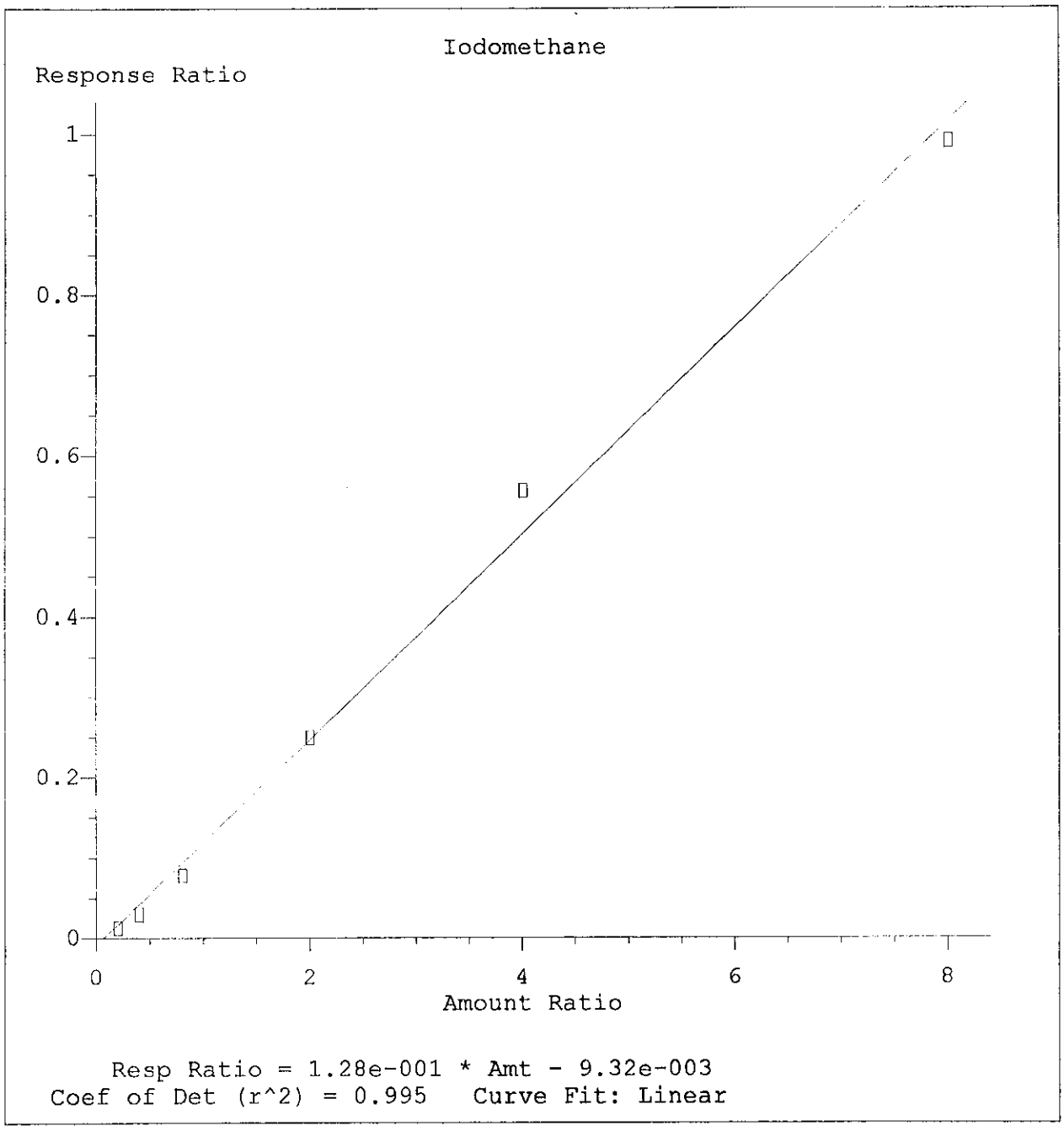

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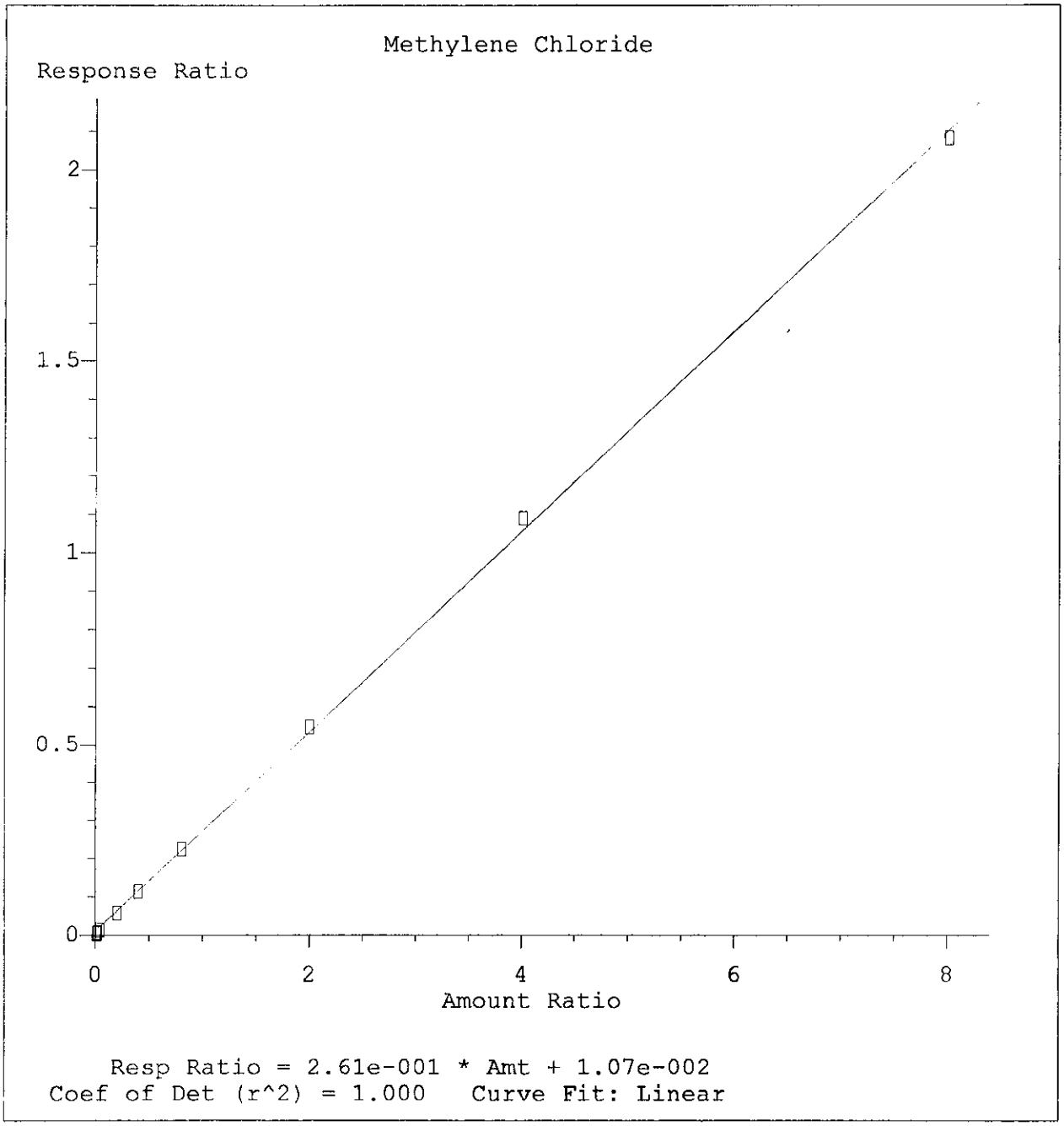
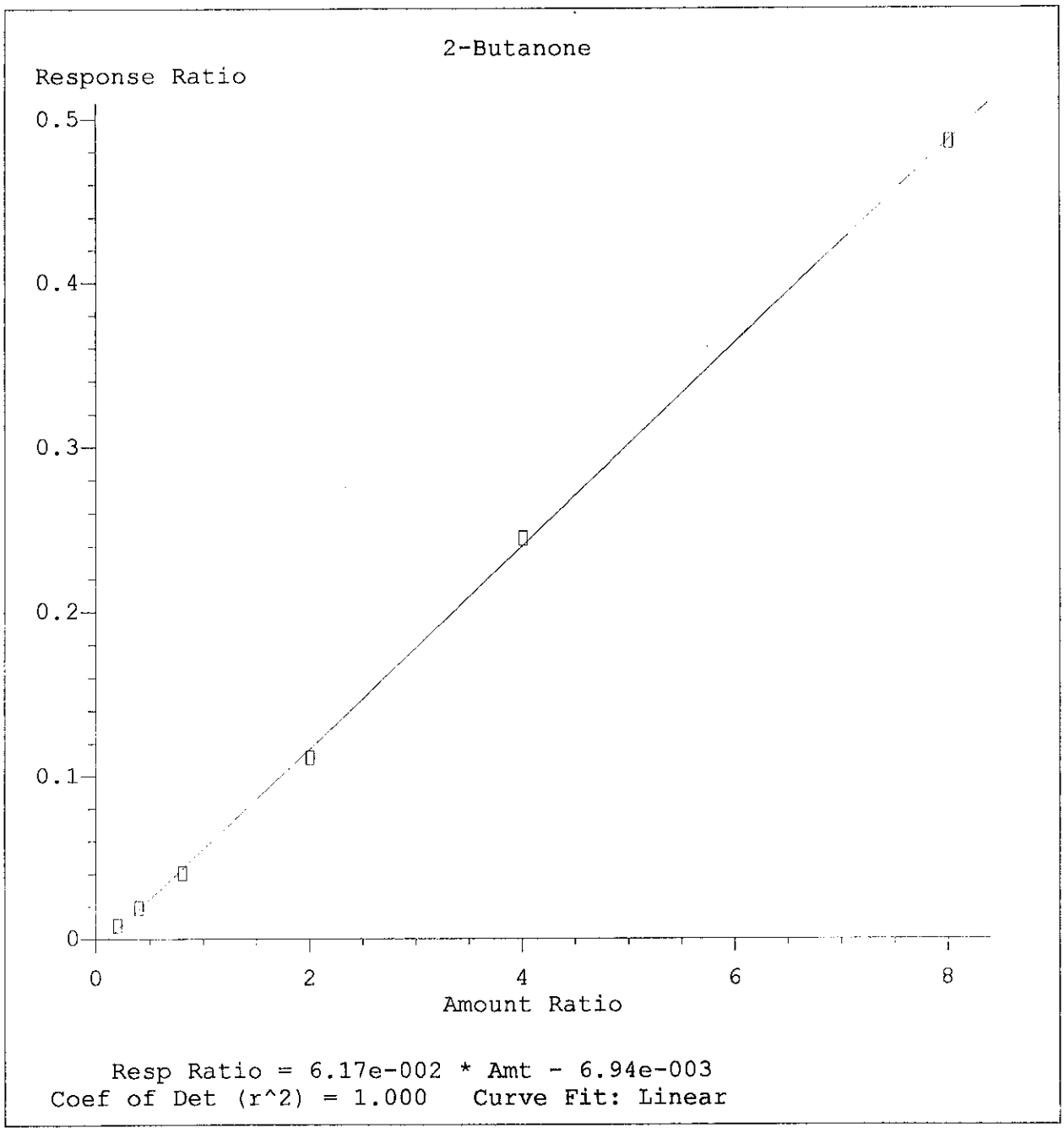


Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

108



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Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

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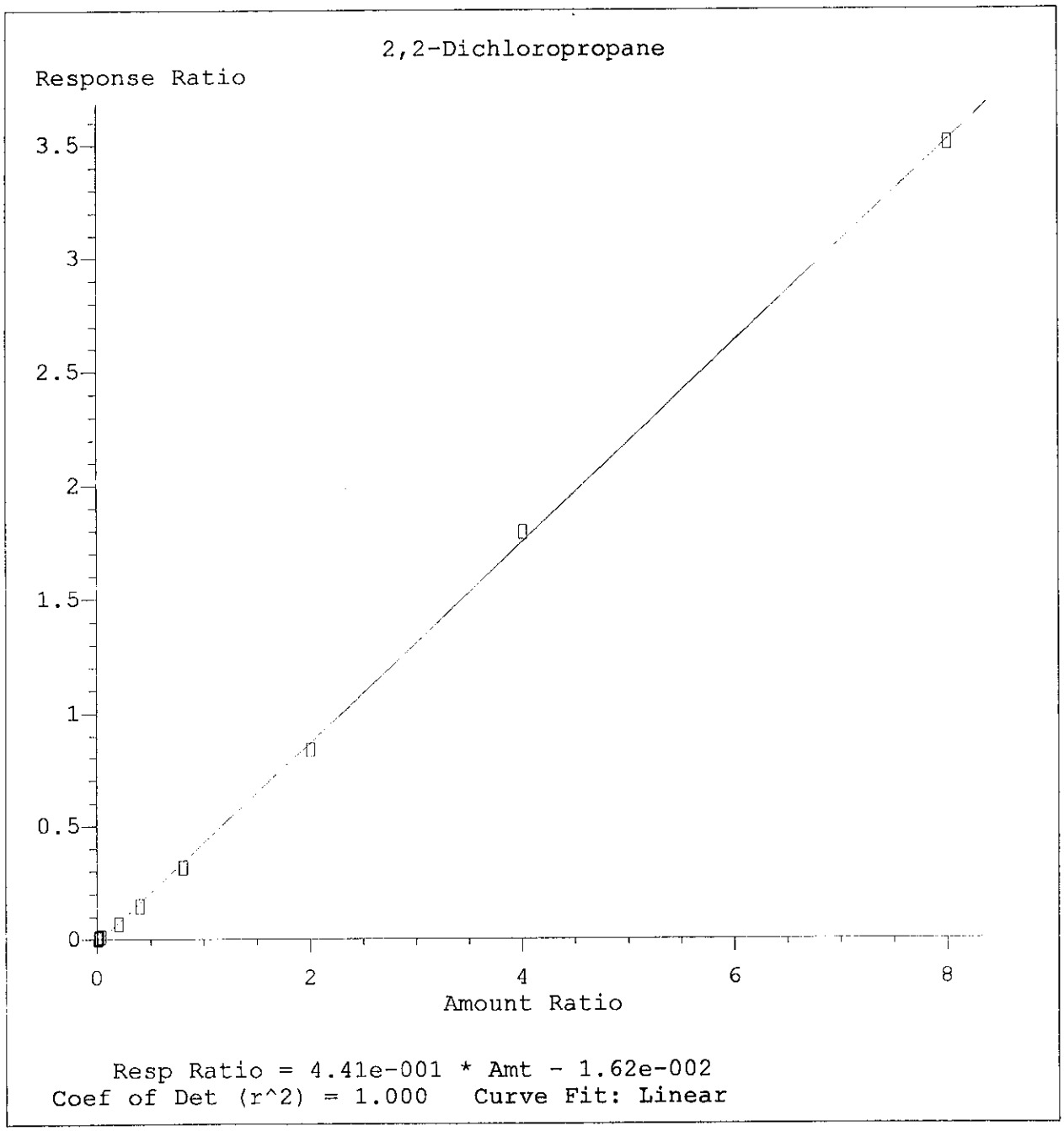

Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

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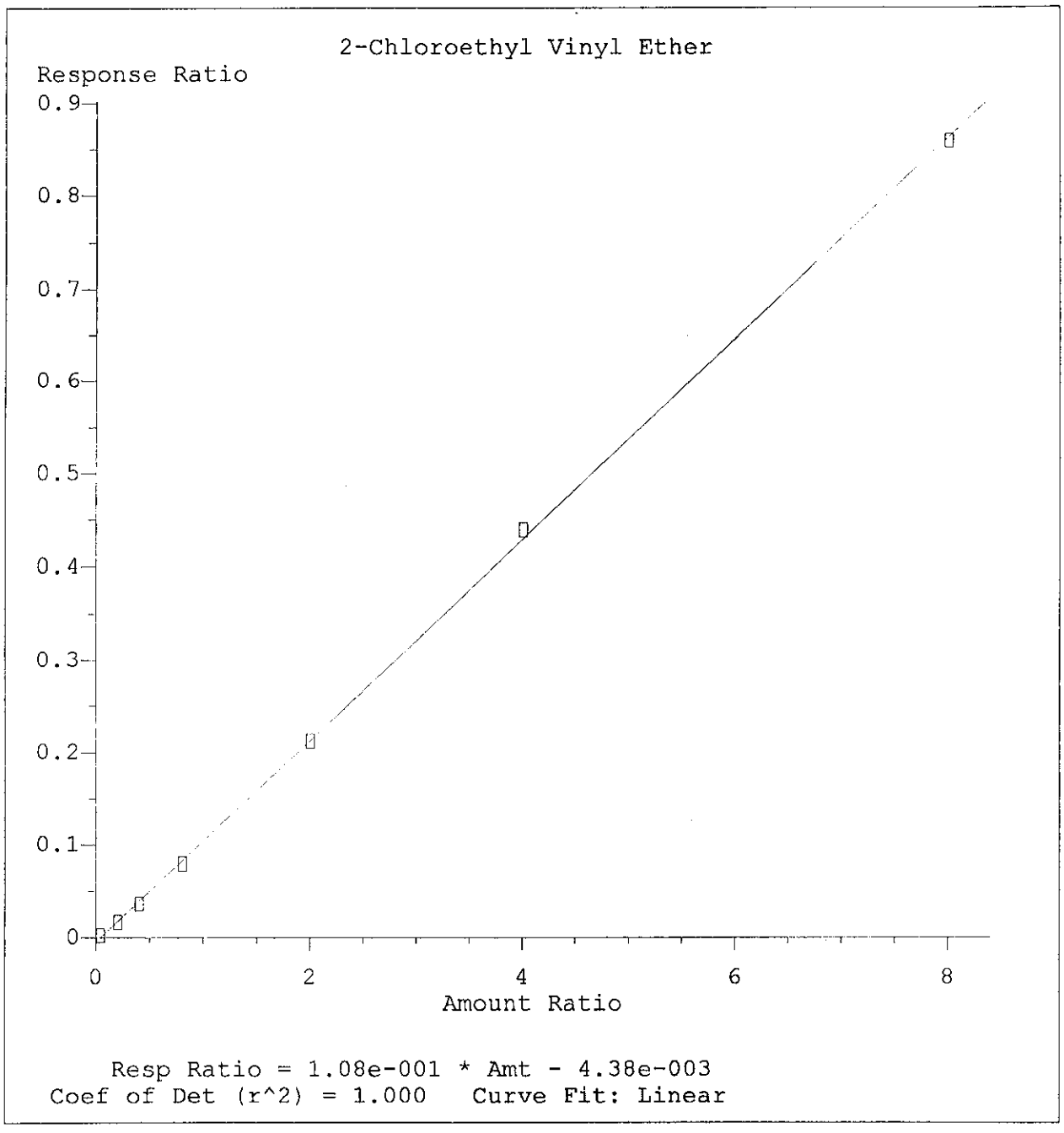

Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

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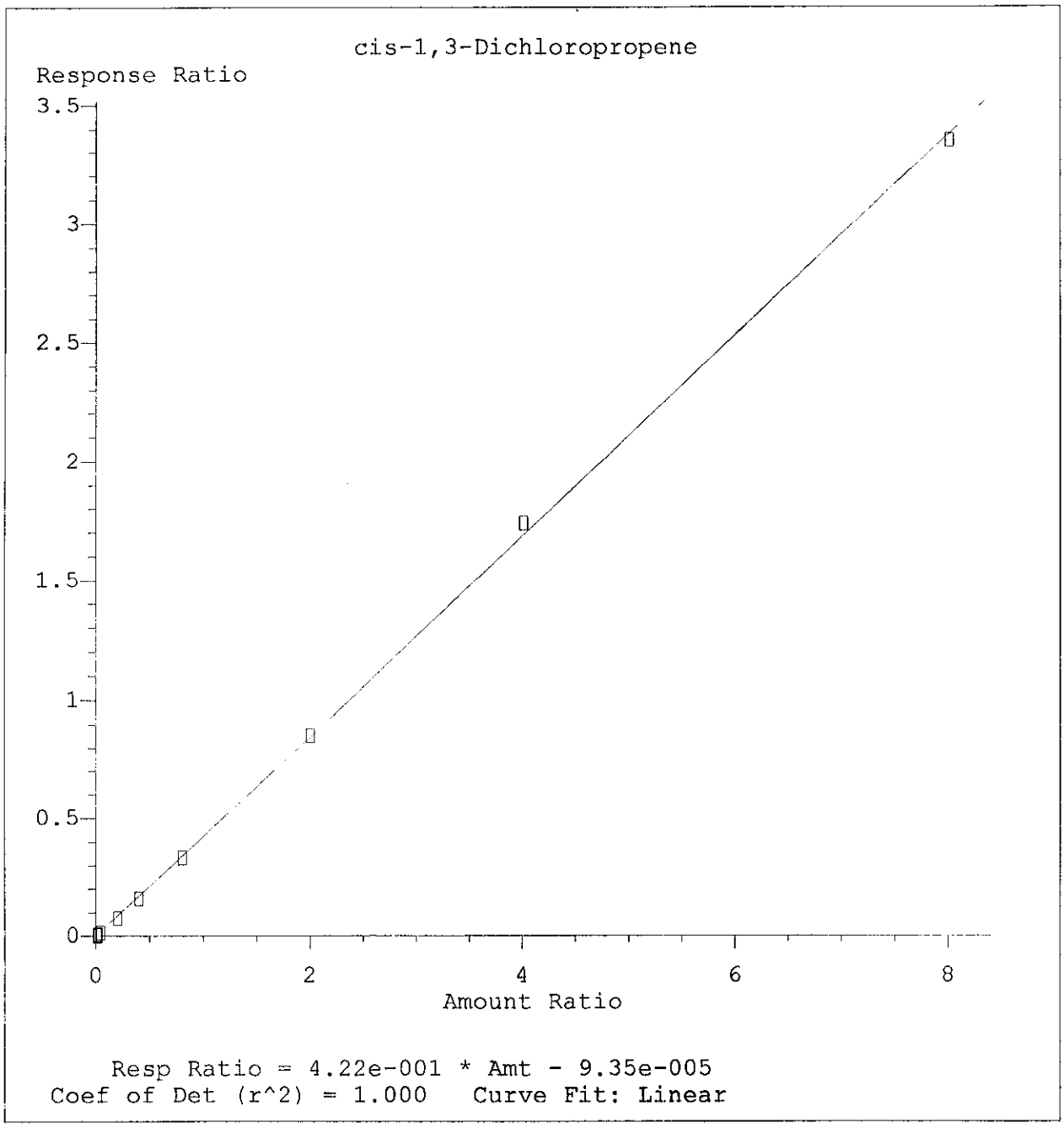
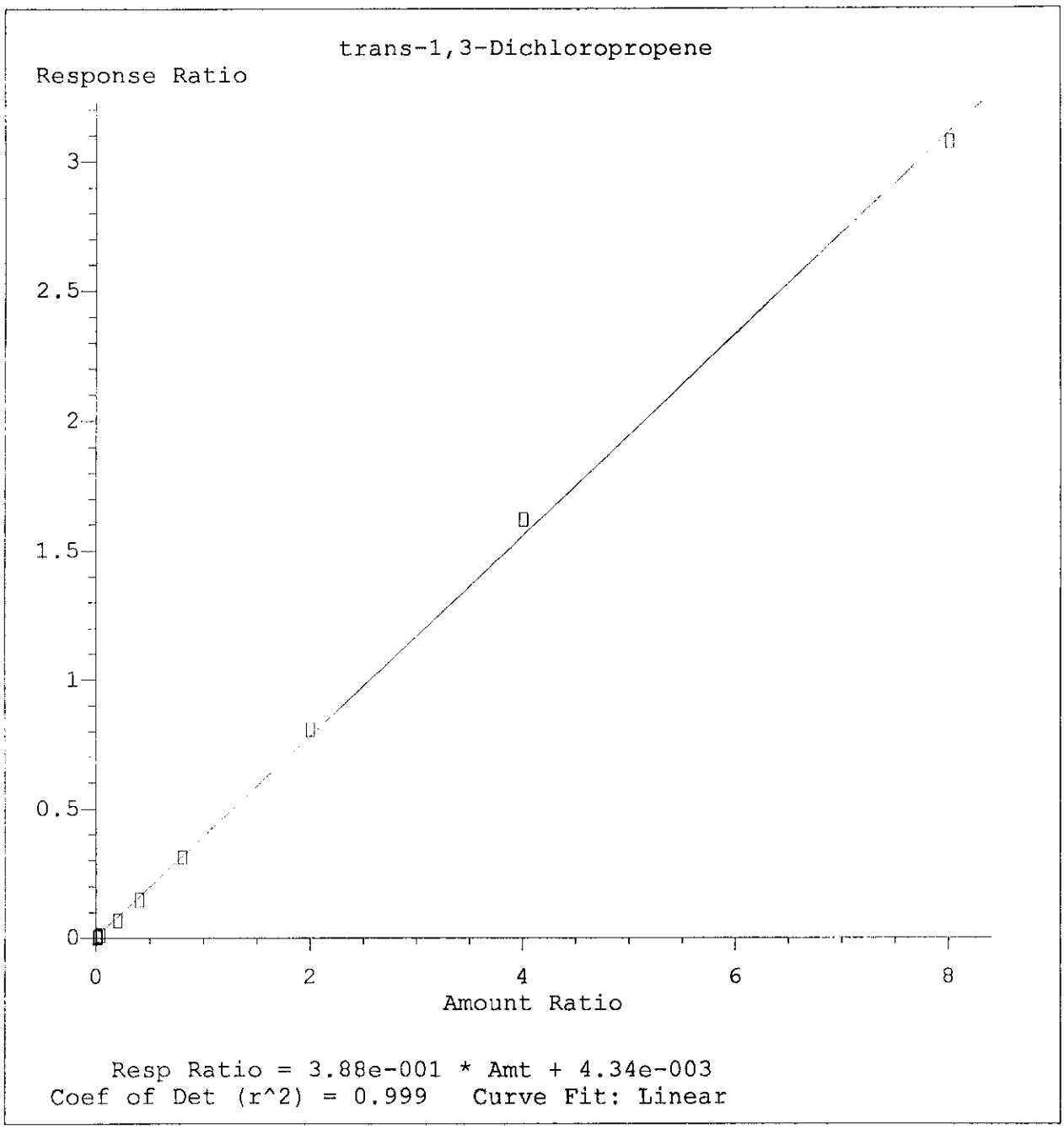


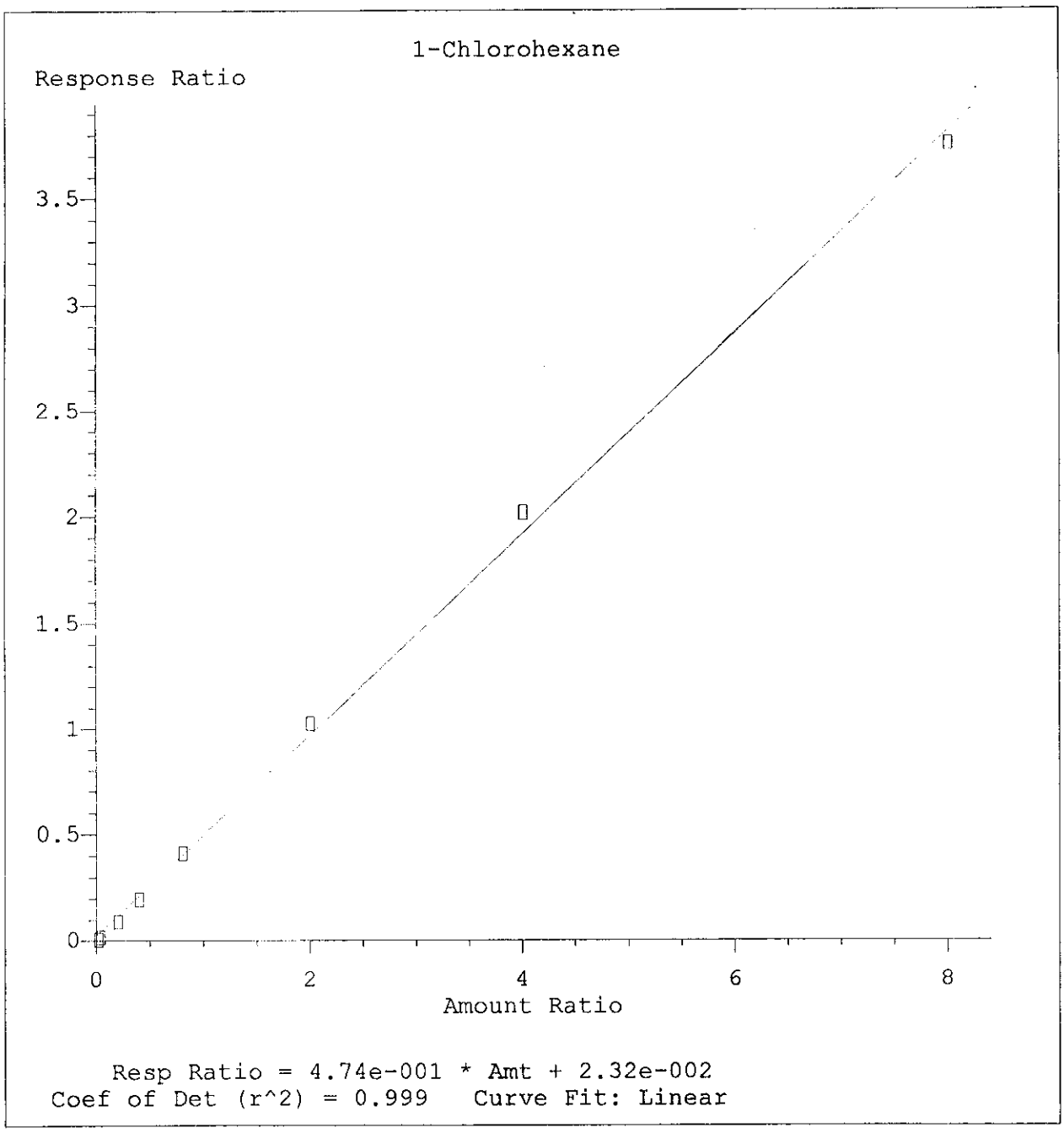
Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

112



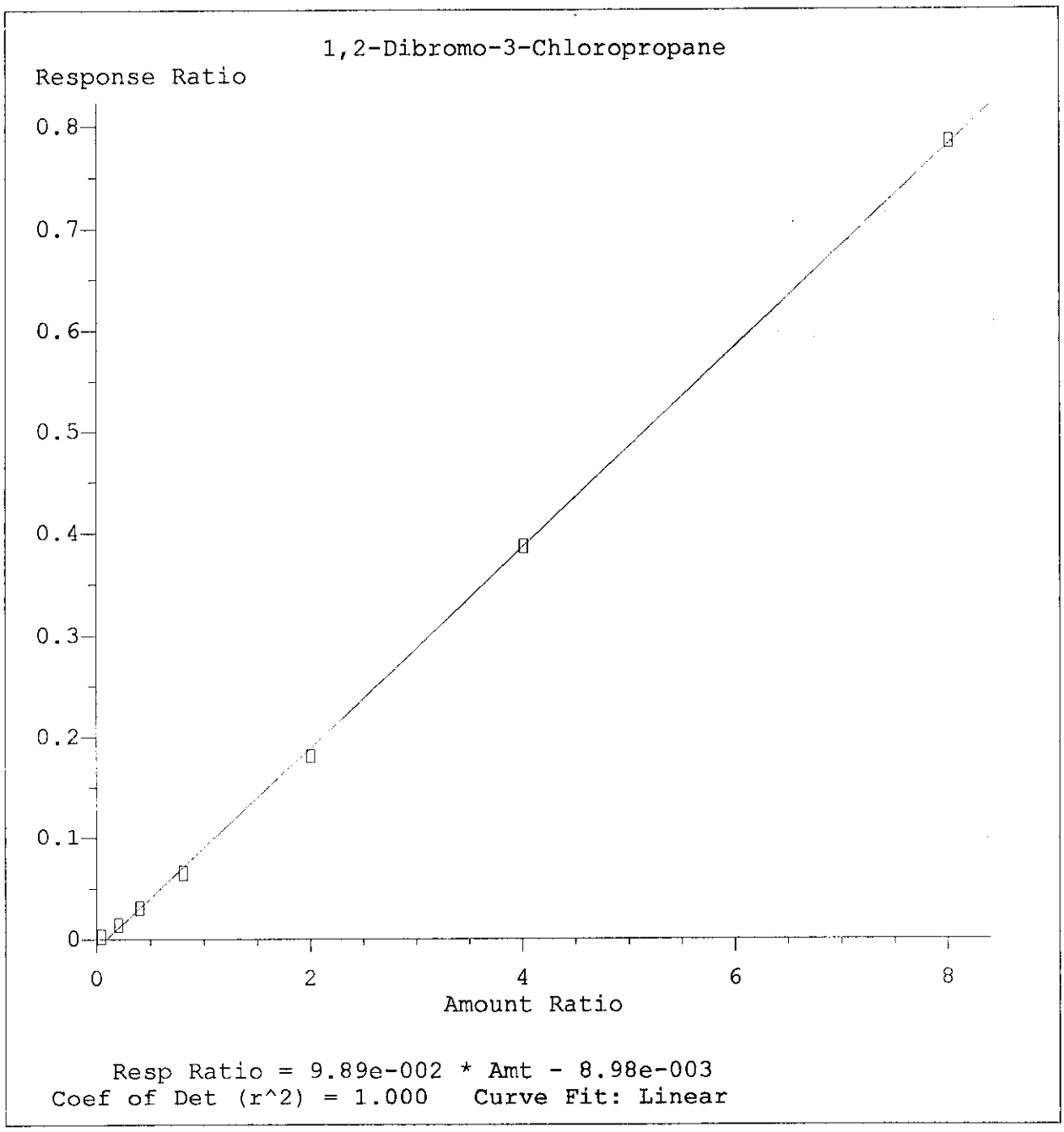
Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

113



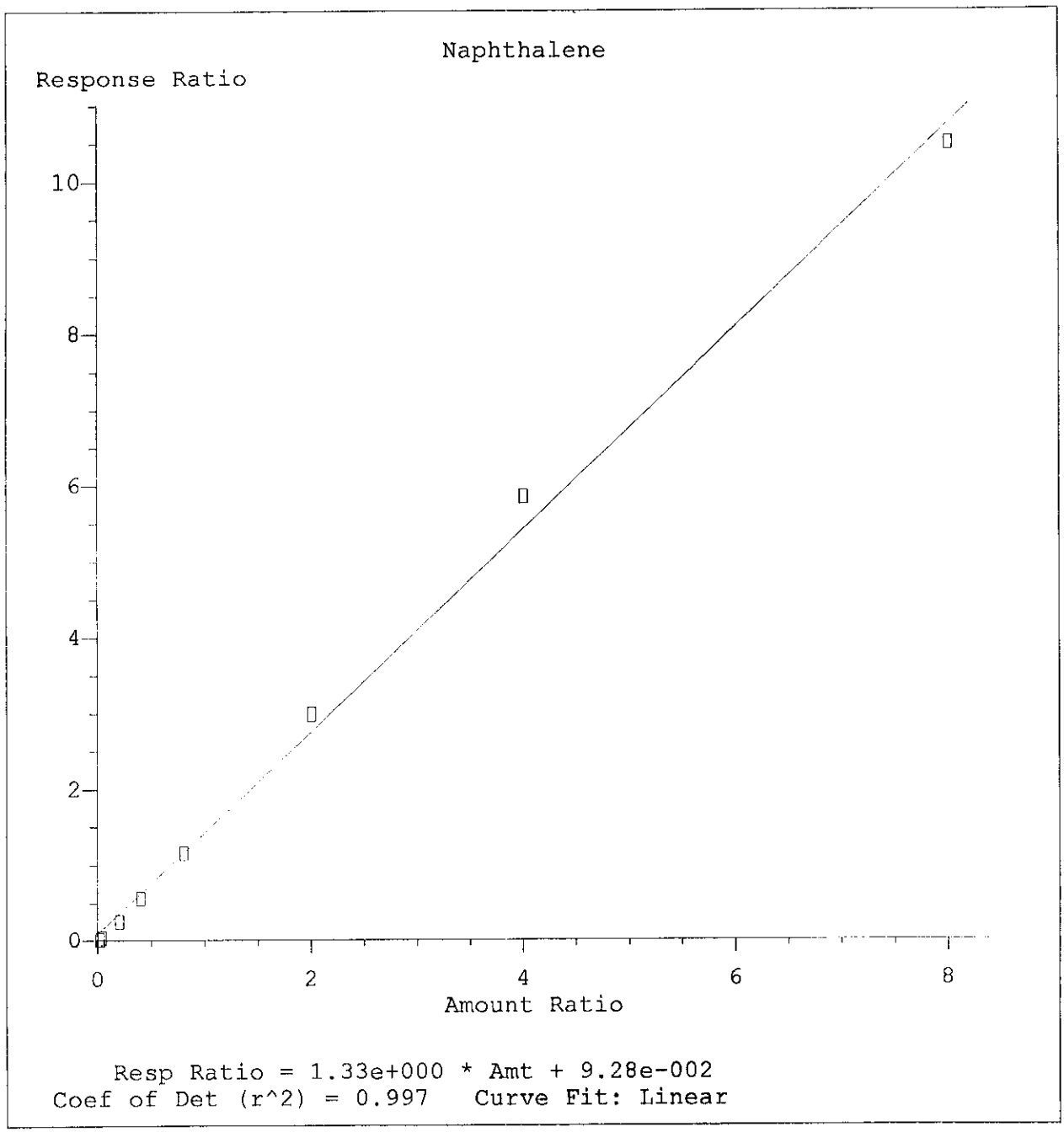
Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

114



Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

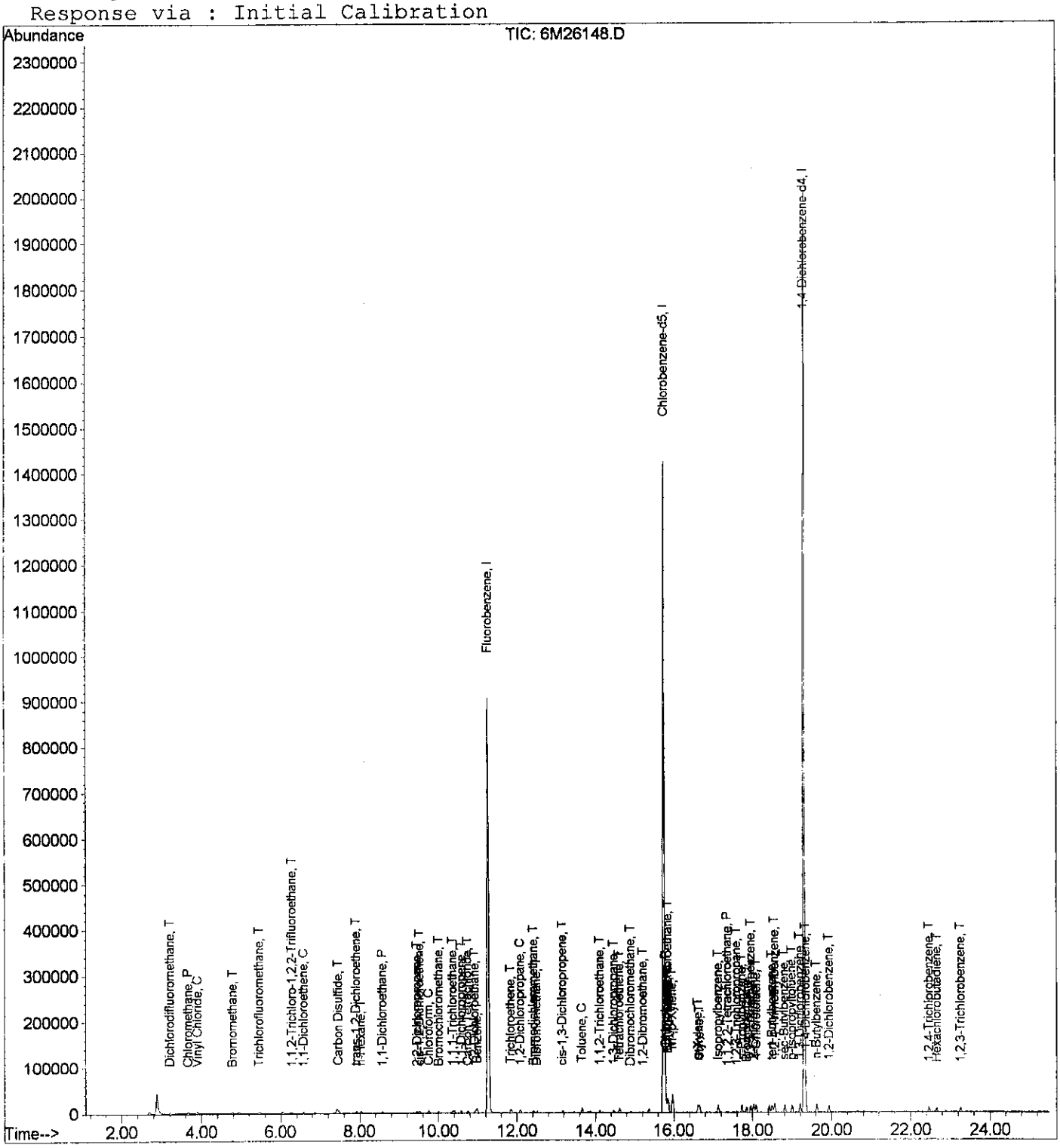
115



Method Name: C:\HPCHEM\1\METHODS\8260BWT.M
Calibration Table Last Updated: Mon Jun 11 09:10:10 2001

Data File : C:\HPCHEM\1\DATA\060801\6M26148.D Vial: 2
Acq On : 8 Jun 2001 17:33 Operator: CMS
Sample : WG99096-02 0.25PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:19 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26148.D Vial: 2
Acq On : 8 Jun 2001 17:33 Operator: CMS
Sample : WG99096-02 0.25PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:19 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1262144	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1197961	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	774830	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
45) Toluene-d8	13.55	98	594	0.01	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.04%#		
66) p-Bromofluorobenzene	17.51	95	652	0.02	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.08%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	5908	0.28	ug/L #	68
3) Chloromethane	3.67	50	4485	0.27	ug/L	99
4) Vinyl Chloride	3.91	62	4199	733.36	ug/L	97
5) Bromomethane	4.78	94	1726	0.24	ug/L #	67
7) Trichlorofluoromethane	5.45	101	7175	0.26	ug/L #	63
10) 1,1,2-Trichloro-1,2,2-Trif	6.29	101	3477m	0.25	ug/L	
12) 1,1-Dichloroethene	6.59	96	2369	0.21	ug/L	96
15) Methylene Chloride	7.42	84	5551	-0.60	ug/L	92
16) Carbon Disulfide	7.46	76	13447	0.27	ug/L #	87
19) trans-1,2-Dichloroethene	7.92	96	2802	0.21	ug/L	98
20) n-Hexane	8.04	57	3537	0.18	ug/L	85
22) 1,1-Dichloroethane	8.59	63	5901	0.23	ug/L #	73
24) 2,2-Dichloropropane	9.46	77	3595	1.08	ug/L #	42
25) cis-1,2-Dichloroethene	9.51	96	2829	0.20	ug/L	94
26) Chloroform	9.76	83	7242	0.27	ug/L	97
27) Bromochloromethane	10.01	128	1343	0.20	ug/L #	31
29) 1,1,1-Trichloroethane	10.36	97	5707	0.24	ug/L #	69
31) 1,1-Dichloropropene	10.59	75	3817	0.19	ug/L	94
32) Carbon Tetrachloride	10.75	117	4487	0.21	ug/L #	87
34) 1,2-Dichloroethane	10.93	62	4346	0.24	ug/L #	86
35) Benzene	10.98	78	13381	0.23	ug/L	96
36) Trichloroethene	11.84	130	4635	0.26	ug/L #	85
37) 1,2-Dichloropropane	12.09	63	3448	0.24	ug/L	99
38) Bromodichloromethane	12.42	83	4734	0.25	ug/L	90
39) Dibromomethane	12.51	93	1463	0.22	ug/L	86
42) cis-1,3-Dichloropropene	13.17	75	3621	0.18	ug/L #	52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26148.D Vial: 2
Acq On : 8 Jun 2001 17:33 Operator: CMS
Sample : WG99096-02 0.25PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:19 2001 Quant Results File: 8260BWT.RES

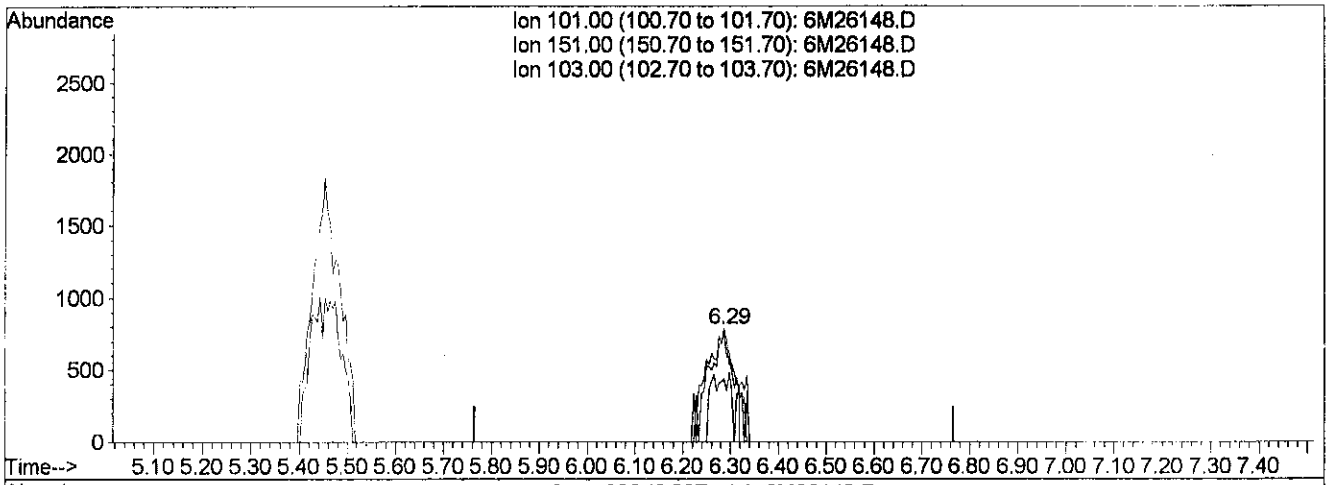
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

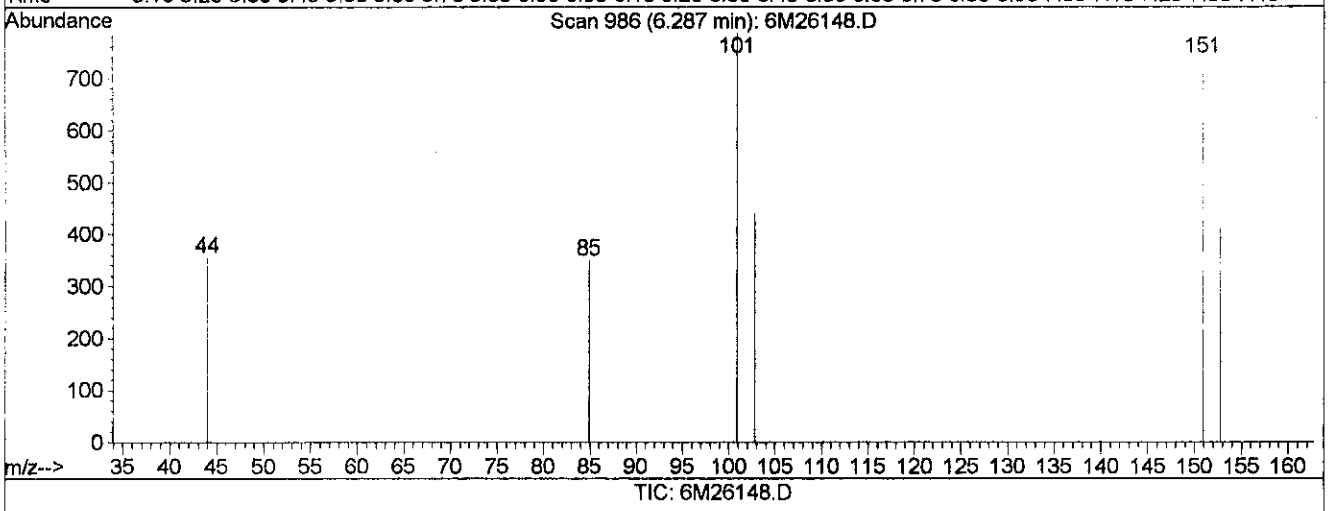
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46) Toluene	13.66	91	14389	0.21 ug/L		93
48) trans-1,3-Dichloropropene	13.87	75	2708	-0.13 ug/L	#	51
49) 1,1,2-Trichloroethane	14.12	97	2129	0.22 ug/L		94
51) 1,3-Dichloropropane	14.48	76	3995	0.23 ug/L		88
52) Tetrachloroethene	14.62	164	3732	0.24 ug/L		96
53) Dibromochloromethane	14.90	129	2506	0.19 ug/L		87
54) 1,2-Dibromoethane	15.21	107	2116	0.21 ug/L		91
55) 1-Chlorohexane	15.36	91	3084	-1.09 ug/L		83
56) Chlorobenzene	15.80	112	15468	0.28 ug/L		96
57) 1,1,1,2-Tetrachloroethane	15.85	131	3920	0.24 ug/L	#	46
58) Ethylbenzene	15.85	106	7256	0.24 ug/L		76
59) m-,p-Xylene	15.96	106	18724	0.50 ug/L		89
60) o-Xylene	16.62	106	6652	0.19 ug/L		93
61) Styrene	16.66	104	10970	0.18 ug/L		99
63) Isopropylbenzene	17.13	105	17600	0.20 ug/L		93
65) 1,1,2,2-Tetrachloroethane	17.37	83	2490	0.23 ug/L		100
67) 1,2,3-Trichloropropane	17.59	110	669	0.19 ug/L	#	22
69) n-Propylbenzene	17.72	91	20183	0.19 ug/L	#	92
70) Bromobenzene	17.84	156	5383	0.22 ug/L		96
71) 1,3,5-Trimethylbenzene	17.96	105	14649	0.19 ug/L		94
72) 2-Chlorotoluene	18.03	91	16381	0.23 ug/L		97
73) 4-Chlorotoluene	18.09	91	15577	0.22 ug/L		99
75) tert-Butylbenzene	18.49	119	14771	0.20 ug/L		97
76) 1,2,4-Trimethylbenzene	18.56	105	18040	0.21 ug/L		100
77) sec-Butylbenzene	18.81	105	19859	0.21 ug/L		95
78) p-Isopropyltoluene	19.00	119	16379	0.19 ug/L		95
79) 1,3-Dichlorobenzene	19.21	146	12616	0.25 ug/L		94
80) 1,4-Dichlorobenzene	19.36	146	15886	0.29 ug/L		89
81) n-Butylbenzene	19.63	91	16649	0.22 ug/L		93
82) 1,2-Dichlorobenzene	19.94	146	11340	0.25 ug/L		95
84) 1,2,4-Trichlorobenzene	22.47	180	5957	0.21 ug/L		95
85) Hexachlorobutadiene	22.66	225	3436	0.25 ug/L	#	42
86) Naphthalene	22.89	128	5814	-1.60 ug/L	#	75
87) 1,2,3-Trichlorobenzene	23.25	180	5083	0.21 ug/L	#	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26148.D Vial: 2
Acq On : 8 Jun 2001 17:33 Operator: CMS
Sample : WG99096-02 0.25PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: 06t2001.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration





TIC: 6M26148.D

(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

6.29min 0.22ug/L

response 3083

Ion	Exp%	Act%
101.00	100	100
151.00	85.20	94.94
103.00	65.10	25.20#
0.00	0.00	0.00

6M26148.D 8260BWT.M Mon Jun 11 08:10:48 2001

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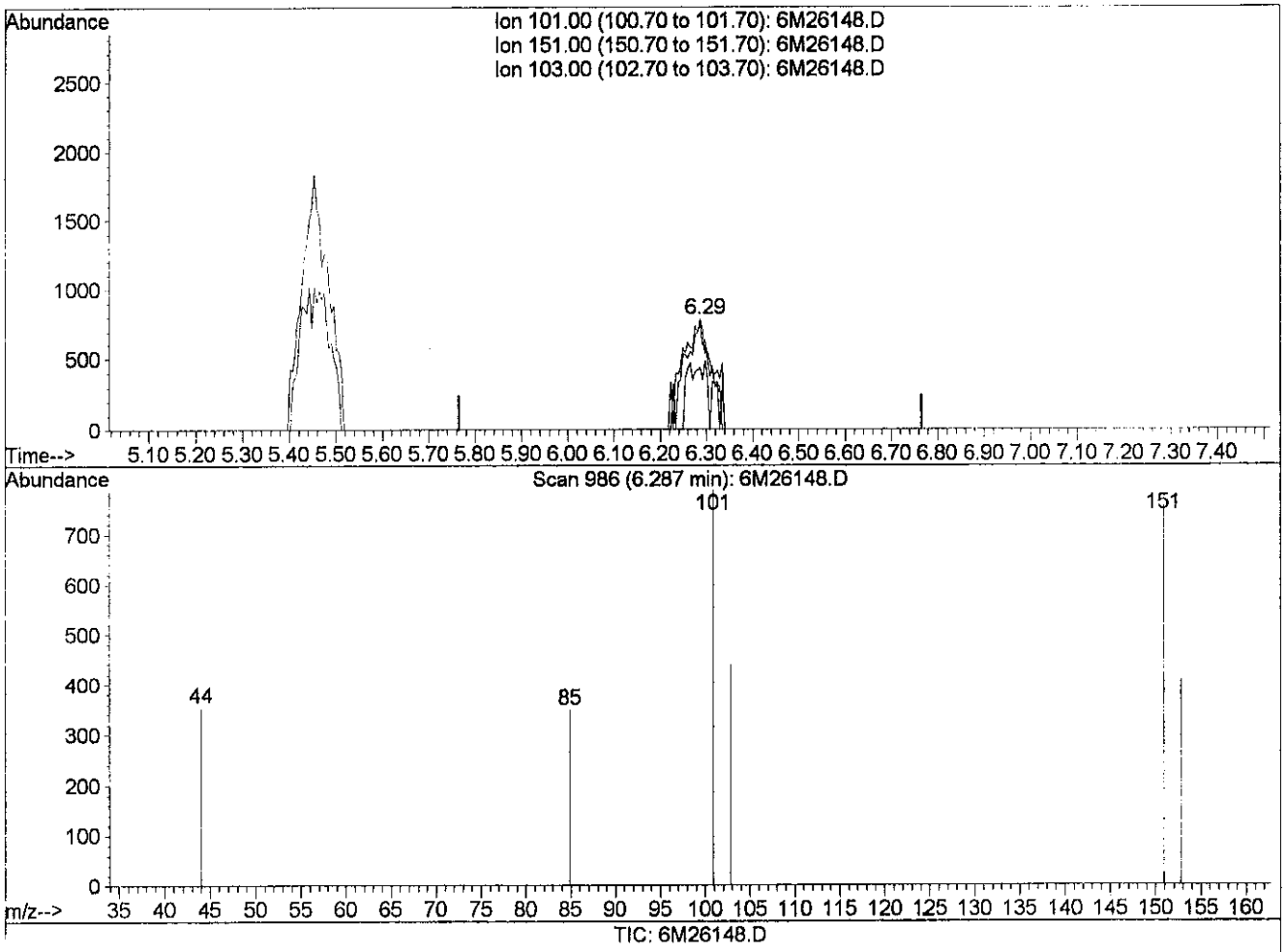
Data File : C:\HPCHEM\1\DATA\060801\6M26148.D Vial: 2
Acq On : 8 Jun 2001 17:33 Operator: CMS
Sample : WG99096-02 0.25PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: 10t2001.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

6.29min 0.25ug/L m

response 3477

Ion	Exp%	Act%
101.00	100	100
151.00	85.20	84.18
103.00	65.10	22.35#
0.00	0.00	0.00

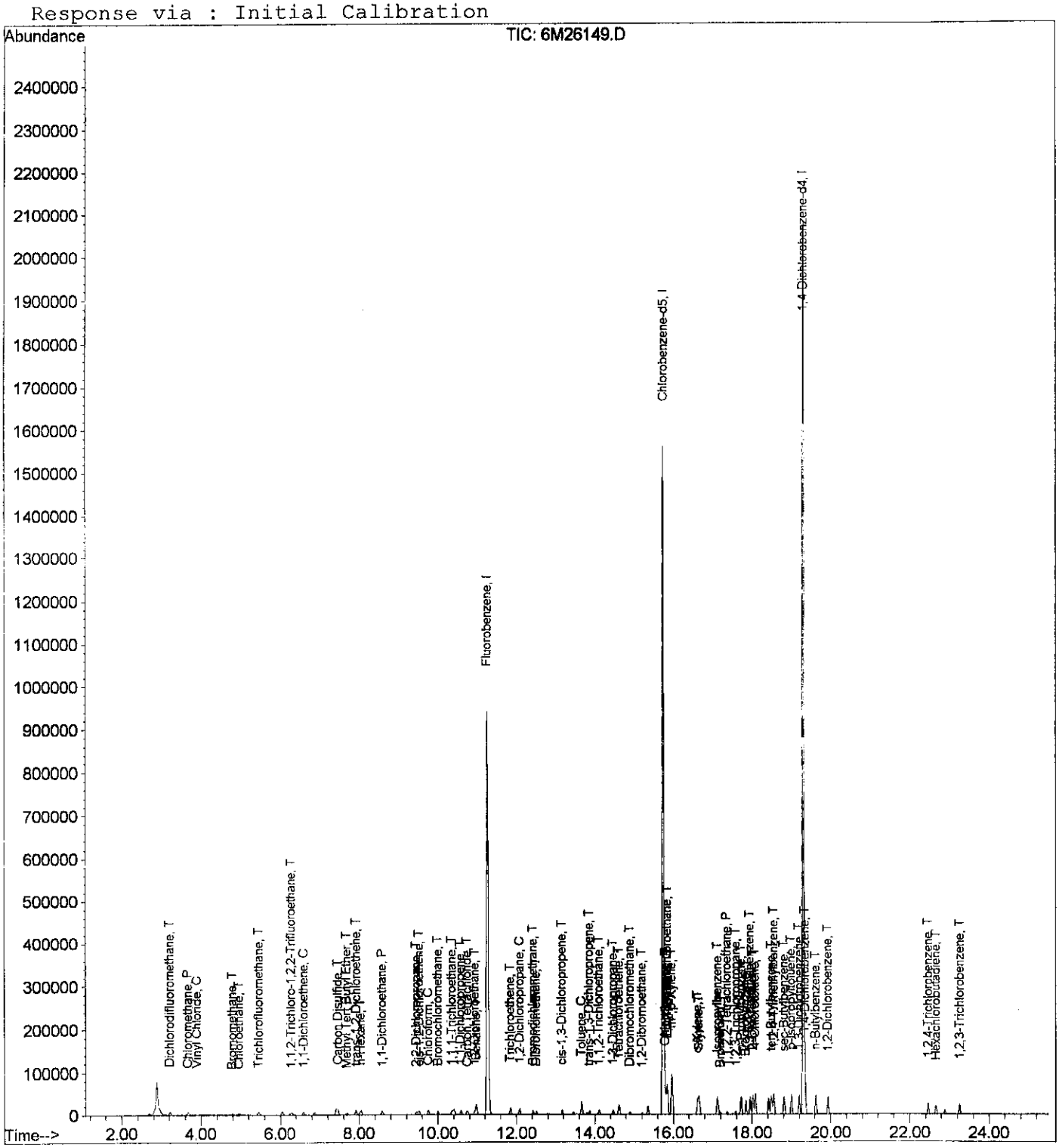
6-11-01 CMS

CMS 6/11/01

6M26148.D 8260BWT.M Mon Jun 11 08:10:54 2001

Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:22 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:22 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1323862	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1327384	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	839279	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
45) Toluene-d8	13.55	98	789	0.01	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.04%#		
66) p-Bromofluorobenzene	17.37	95	1032	0.04	ug/L	-0.16
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.16%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	12750	0.58	ug/L #	93
3) Chloromethane	3.66	50	10610	0.61	ug/L	97
4) Vinyl Chloride	3.90	62	8972	732.97	ug/L	98
5) Bromomethane	4.79	94	3691m	0.48	ug/L	
6) Chloroethane	4.96	64	5063	0.57	ug/L #	77
7) Trichlorofluoromethane	5.45	101	15060	0.52	ug/L #	94
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	7711m	0.52	ug/L	
12) 1,1-Dichloroethene	6.59	96	5122	0.44	ug/L	93
15) Methylene Chloride	7.42	84	9851	-0.31	ug/L	98
16) Carbon Disulfide	7.46	76	25796	0.49	ug/L	95
18) Methyl Tert Butyl Ether	7.68	73	8907	0.39	ug/L #	65
19) trans-1,2-Dichloroethene	7.92	96	6642	0.46	ug/L	96
20) n-Hexane	8.03	57	8760	0.44	ug/L	100
22) 1,1-Dichloroethane	8.59	63	13113	0.50	ug/L	97
24) 2,2-Dichloropropane	9.46	77	8023	1.26	ug/L #	85
25) cis-1,2-Dichloroethene	9.52	96	6713	0.45	ug/L	96
26) Chloroform	9.76	83	14946	0.54	ug/L	97
27) Bromochloromethane	10.00	128	3703	0.53	ug/L	93
29) 1,1,1-Trichloroethane	10.35	97	12274	0.49	ug/L	92
31) 1,1-Dichloropropene	10.58	75	9469	0.45	ug/L	99
32) Carbon Tetrachloride	10.75	117	10239	0.47	ug/L #	96
34) 1,2-Dichloroethane	10.93	62	10123	0.54	ug/L #	91
35) Benzene	10.98	78	31491	0.51	ug/L	96
36) Trichloroethene	11.85	130	9429	0.50	ug/L	98
37) 1,2-Dichloropropane	12.08	63	7531	0.50	ug/L	93
38) Bromodichloromethane	12.42	83	9835	0.49	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M26149.D 8260BWT.M Mon Jun 11 09:22:56 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:22 2001 Quant Results File: 8260BWT.RES

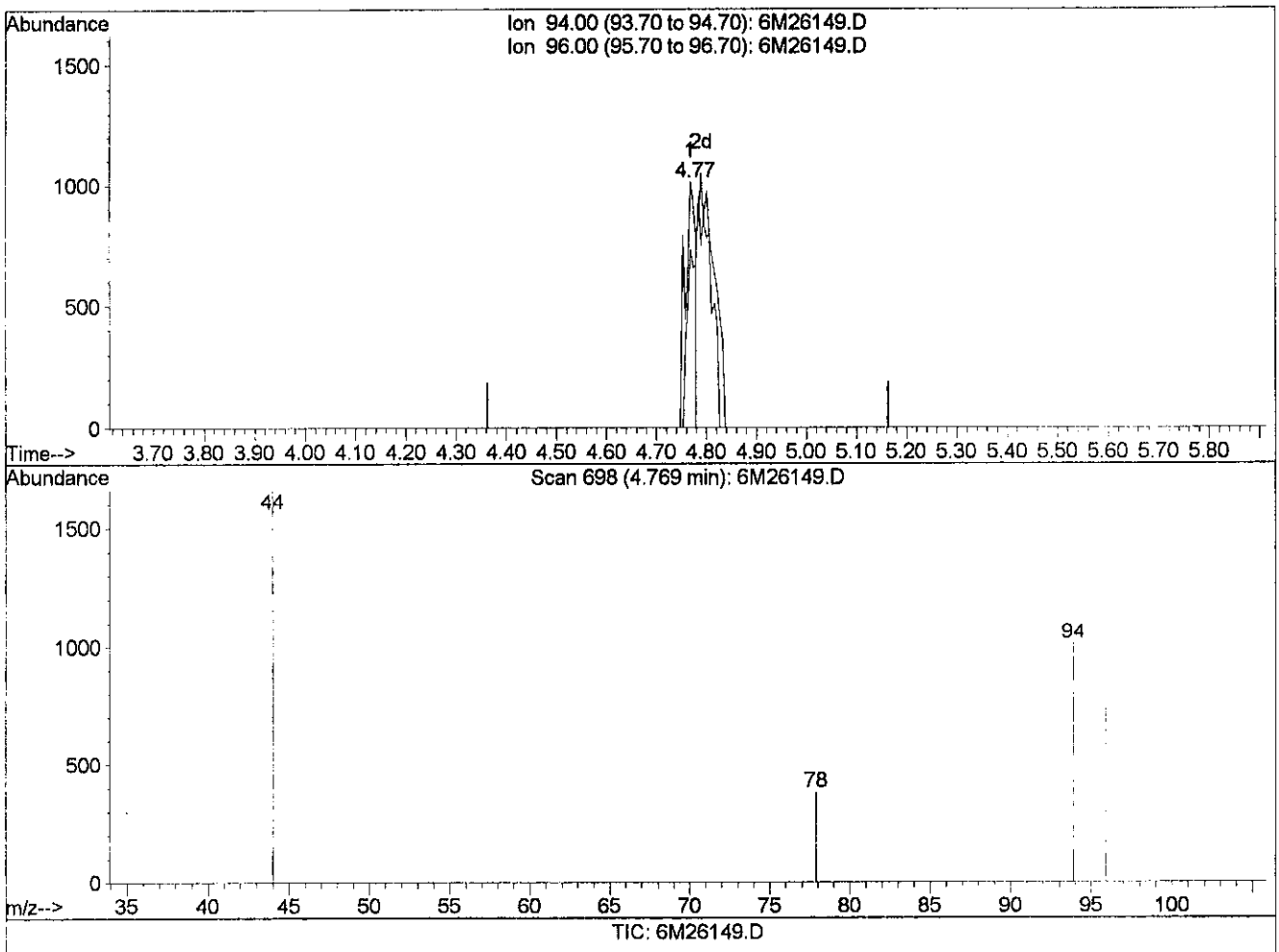
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Dibromomethane	12.51	93	3679	0.52 ug/L	#	78
42)	cis-1,3-Dichloropropene	13.17	75	8122	0.37 ug/L		94
46)	Toluene	13.66	91	36482	0.47 ug/L		97
48)	trans-1,3-Dichloropropene	13.86	75	6944	0.06 ug/L	#	87
49)	1,1,2-Trichloroethane	14.10	97	5586	0.51 ug/L		93
51)	1,3-Dichloropropane	14.48	76	9200	0.48 ug/L		98
52)	Tetrachloroethene	14.62	164	9287	0.53 ug/L		93
53)	Dibromochloromethane	14.90	129	6548	0.44 ug/L		99
54)	1,2-Dibromoethane	15.20	107	5108	0.47 ug/L		96
55)	1-Chlorohexane	15.36	91	8141	-0.90 ug/L	#	81
56)	Chlorobenzene	15.81	112	35256	0.58 ug/L		96
57)	1,1,1,2-Tetrachloroethane	15.85	131	9767	0.54 ug/L		98
58)	Ethylbenzene	15.85	106	18335	0.55 ug/L		89
59)	m-,p-Xylene	15.97	106	44925	1.07 ug/L		85
60)	o-Xylene	16.62	106	16903	0.45 ug/L		90
61)	Styrene	16.66	104	31336	0.48 ug/L		96
62)	Bromoform	17.20	173	3617	0.41 ug/L	#	85
63)	Isopropylbenzene	17.13	105	44868	0.46 ug/L		96
65)	1,1,2,2-Tetrachloroethane	17.36	83	6656	0.56 ug/L		94
67)	1,2,3-Trichloropropane	17.59	110	1760	0.46 ug/L	#	68
69)	n-Propylbenzene	17.72	91	52404	0.46 ug/L	#	95
70)	Bromobenzene	17.85	156	14301	0.54 ug/L		97
71)	1,3,5-Trimethylbenzene	17.96	105	38730	0.46 ug/L		97
72)	2-Chlorotoluene	18.02	91	40455	0.52 ug/L		99
73)	4-Chlorotoluene	18.09	91	42220	0.54 ug/L		98
75)	tert-Butylbenzene	18.49	119	40018	0.51 ug/L		97
76)	1,2,4-Trimethylbenzene	18.56	105	47143	0.52 ug/L		99
77)	sec-Butylbenzene	18.82	105	49581	0.47 ug/L		98
78)	p-Isopropyltoluene	19.01	119	43297	0.46 ug/L		96
79)	1,3-Dichlorobenzene	19.21	146	30891	0.55 ug/L		92
80)	1,4-Dichlorobenzene	19.36	146	34976	0.59 ug/L		93
81)	n-Butylbenzene	19.63	91	38728	0.48 ug/L		96
82)	1,2-Dichlorobenzene	19.94	146	26864	0.55 ug/L		97
84)	1,2,4-Trichlorobenzene	22.47	180	13769	0.44 ug/L		95
85)	Hexachlorobutadiene	22.66	225	7504	0.51 ug/L	#	33
86)	Naphthalene	22.89	128	13364	-1.44 ug/L	#	95
87)	1,2,3-Trichlorobenzene	23.26	180	11773	0.44 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: 9test.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration



(5) Bromomethane (T)

4.77min 0.19ug/L

response 1448

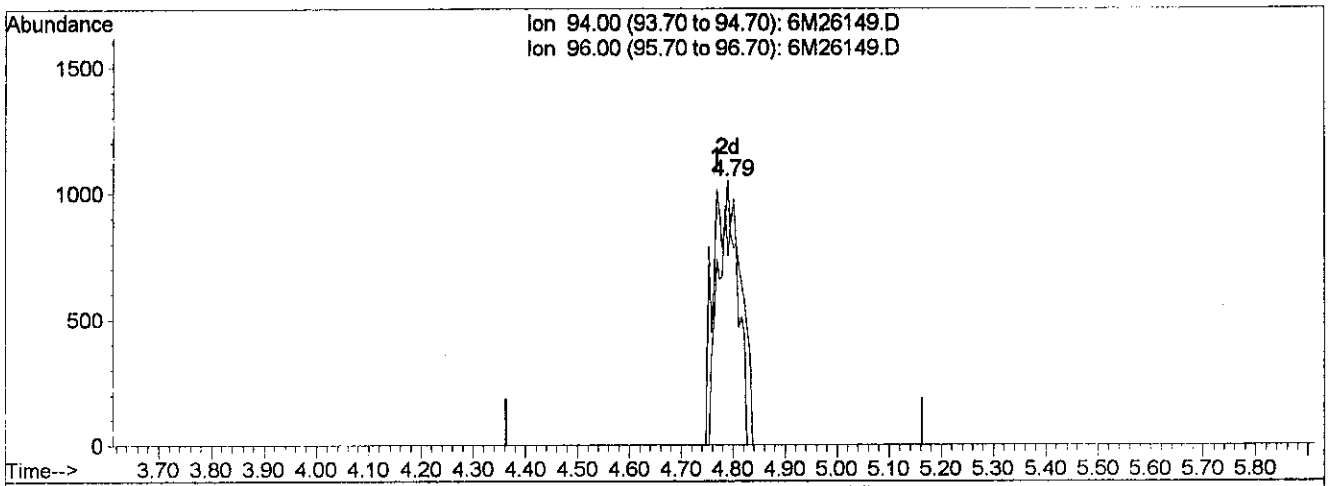
6-11-01 cms

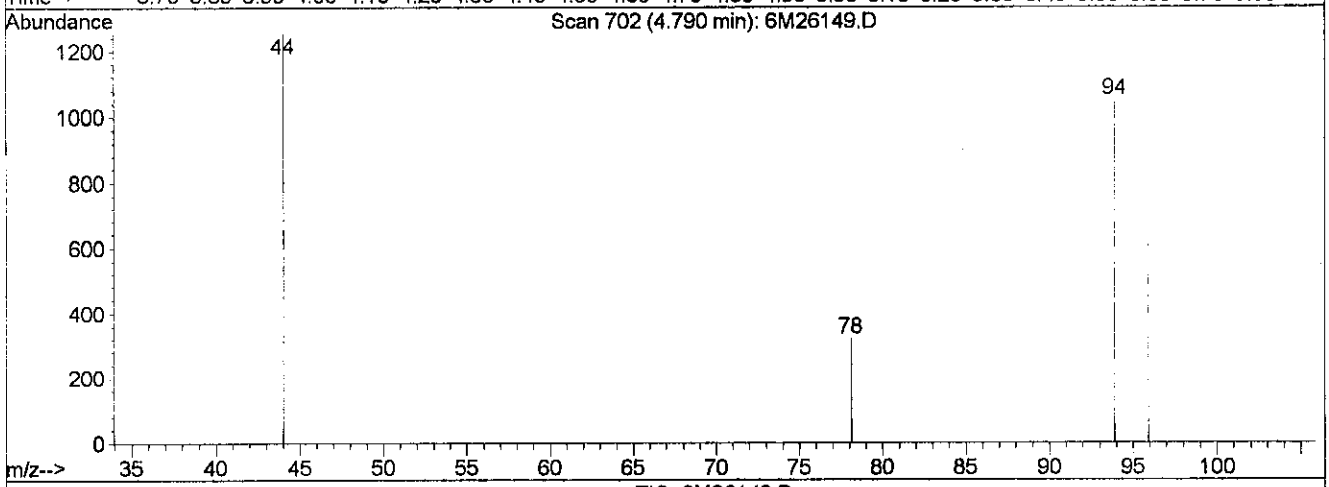
6-11-01 cms

Ion	Exp%	Act%
94.00	100	100
96.00	93.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: lotest.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration





TIC: 6M26149.D

(5) Bromomethane (T)

4.79min 0.48ug/L m

response 3691

Ion	Exp%	Act%
94.00	100	100
96.00	93.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

6-11-01 CMS

CMS 6/11/01

6M26149.D 8260BWT.M Mon Jun 11 08:10:05 2001

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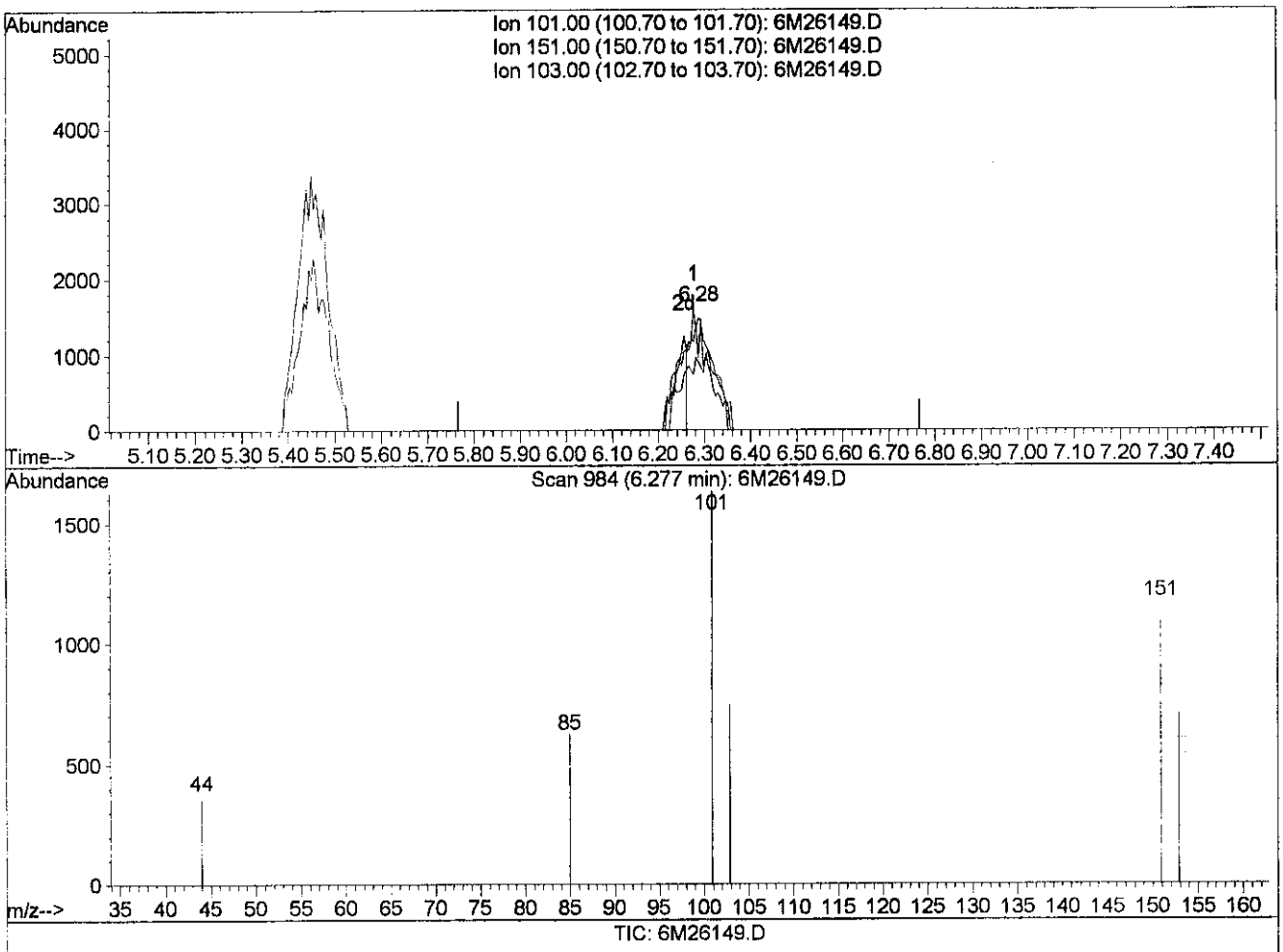
Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: 10t2001.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration



TIC: 6M26149.D

(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

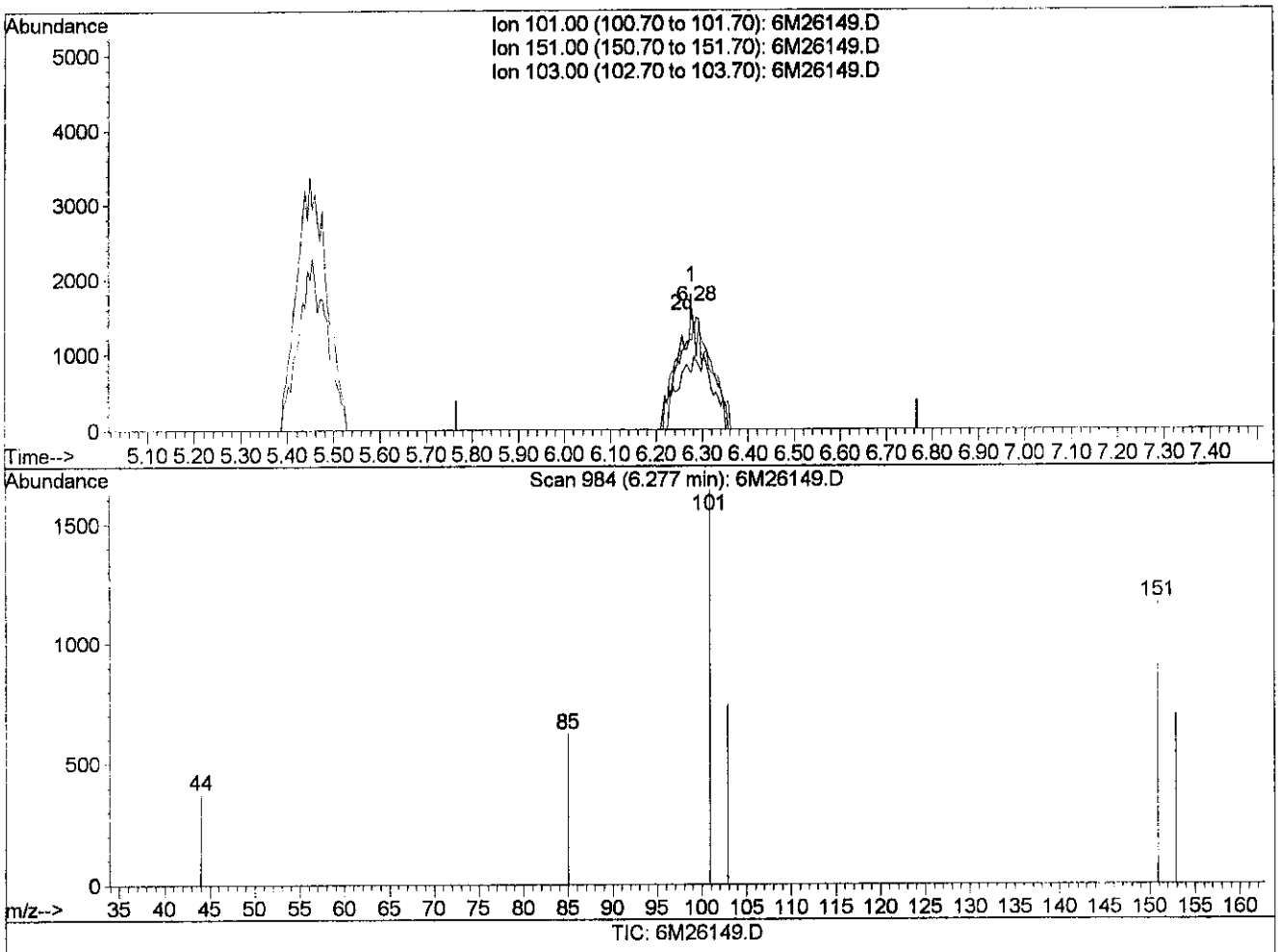
6.28min 0.37ug/L

response 5435

Ion	Exp%	Act%
101.00	100	100
151.00	85.20	0.00#
103.00	65.10	12.01#
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\060801\6M26149.D Vial: 3
Acq On : 8 Jun 2001 18:44 Operator: CMS
Sample : WG99096-03 0.5PPB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: 10t2001.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 07:54:32 2001
Response via : Multiple Level Calibration



TIC: 6M26149.D

(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

6.28min 0.52ug/L m

response 7711

Ion	Exp%	Act%
101.00	100	100
151.00	85.20	0.00#
103.00	65.10	8.47#
0.00	0.00	0.00

6-11-01 CMS

CMS 6/11/01

6M26149.D 8260BWT.M Mon Jun 11 08:10:18 2001

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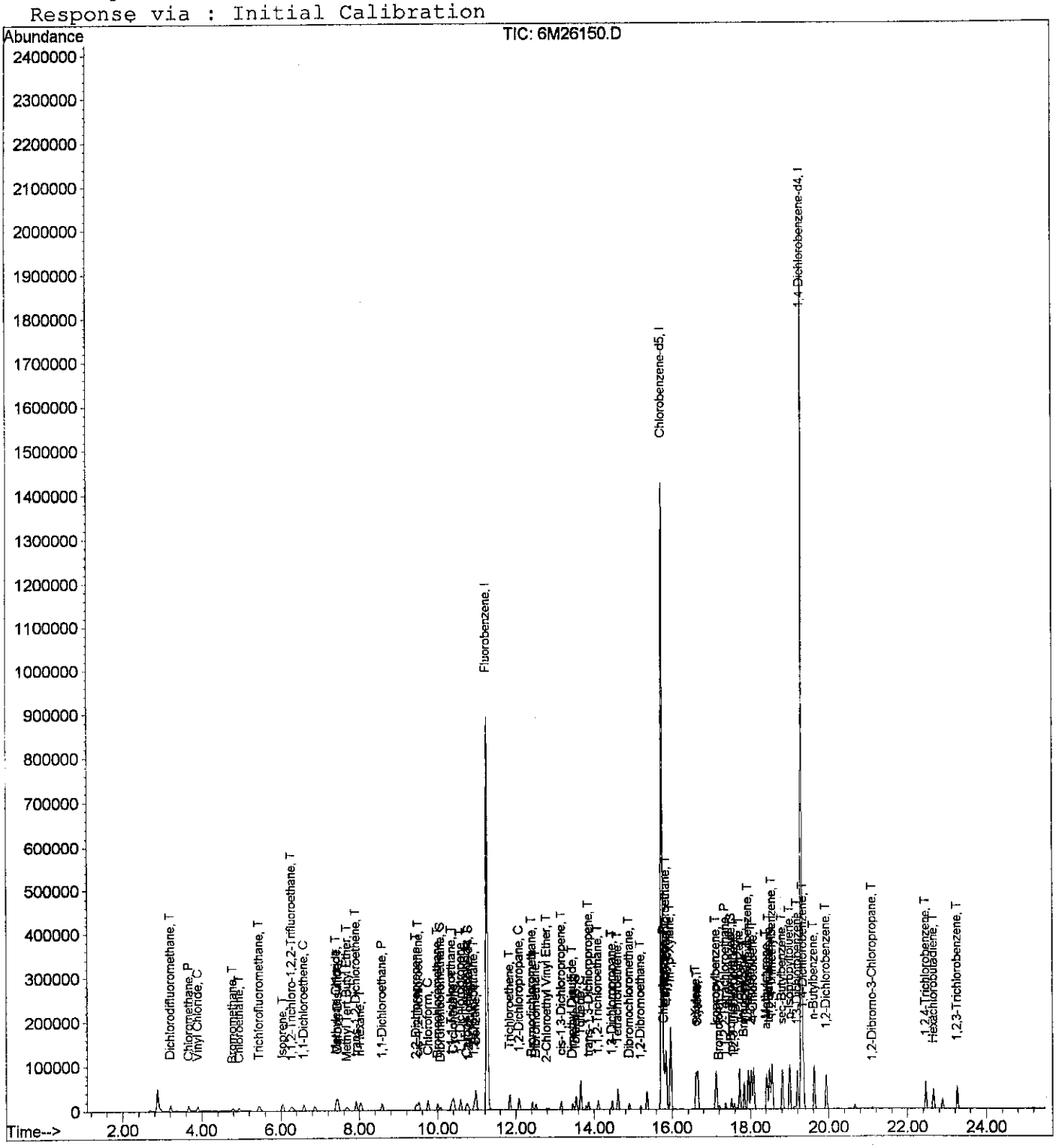
Data File : C:\HPCHEM\1\DATA\060801\6M26150.D Vial: 4
Acq On : 8 Jun 2001 19:16 Operator: CMS
Sample : WG99096-04 1PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:24 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26150.D Vial: 4
Acq On : 8 Jun 2001 19:16 Operator: CMS
Sample : WG99096-04 1PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:24 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1242036	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1208069	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	811688	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	7742	0.53	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	2.12%#		
33) 1,2-Dichloroethane-d4	10.80	65	8261	0.58	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.32%#		
45) Toluene-d8	13.55	98	31991	0.50	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.00%#		
66) p-Bromofluorobenzene	17.52	95	14344	0.50	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.00%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	23659	1.14	ug/L	97
3) Chloromethane	3.66	50	19651	1.20	ug/L	98
4) Vinyl Chloride	3.90	62	17759	0.08	ug/L	98
5) Bromomethane	4.78	94	7944	1.11	ug/L	85
6) Chloroethane	4.95	64	9966	1.20	ug/L	92
7) Trichlorofluoromethane	5.45	101	27292	1.01	ug/L	97
8) Isoprene	6.05	67	15005	0.78	ug/L	97
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	14094	1.02	ug/L	96
12) 1,1-Dichloroethene	6.58	96	10012	0.91	ug/L	91
15) Methylene Chloride	7.41	84	16801	0.27	ug/L	98
16) Carbon Disulfide	7.46	76	48532	0.98	ug/L	97
18) Methyl Tert Butyl Ether	7.68	73	17349	0.82	ug/L #	84
19) trans-1,2-Dichloroethene	7.91	96	13395	1.00	ug/L	97
20) n-Hexane	8.03	57	16472	0.87	ug/L	97
22) 1,1-Dichloroethane	8.59	63	24905	1.00	ug/L	96
24) 2,2-Dichloropropane	9.45	77	15666	1.63	ug/L	96
25) cis-1,2-Dichloroethene	9.51	96	12766	0.92	ug/L	97
26) Chloroform	9.75	83	27566	1.06	ug/L	96
27) Bromochloromethane	10.00	128	6481	0.99	ug/L	100
29) 1,1,1-Trichloroethane	10.36	97	23451	1.00	ug/L	95
30) Cyclohexane	10.41	56	17500	0.77	ug/L	93
31) 1,1-Dichloropropene	10.59	75	19030	0.96	ug/L	98
32) Carbon Tetrachloride	10.74	117	18901	0.92	ug/L	99
34) 1,2-Dichloroethane	10.93	62	18189	1.03	ug/L #	89
35) Benzene	10.98	78	59027	1.03	ug/L	98
36) Trichloroethene	11.85	130	18102	1.02	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26150.D Vial: 4
Acq On : 8 Jun 2001 19:16 Operator: CMS
Sample : WG99096-04 1PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:24 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	1,2-Dichloropropane	12.08	63	13964	1.00	ug/L		94
38)	Bromodichloromethane	12.42	83	18405	0.99	ug/L		98
39)	Dibromomethane	12.51	93	6673	1.00	ug/L		84
40)	2-Chloroethyl Vinyl Ether	12.79	63	2805	1.53	ug/L	#	45
42)	cis-1,3-Dichloropropene	13.17	75	15596	0.75	ug/L		99
43)	Dimethyl Disulfide	13.46	79	4984	0.44	ug/L		94
46)	Toluene	13.66	91	73275	1.04	ug/L		96
48)	trans-1,3-Dichloropropene	13.86	75	13435	0.44	ug/L		100
49)	1,1,2-Trichloroethane	14.11	97	10289	1.04	ug/L		99
51)	1,3-Dichloropropane	14.46	76	16735	0.97	ug/L		100
52)	Tetrachloroethene	14.62	164	17047	1.07	ug/L		89
53)	Dibromochloromethane	14.90	129	12322	0.91	ug/L		96
54)	1,2-Dibromoethane	15.20	107	9375	0.94	ug/L		97
55)	1-Chlorohexane	15.35	91	18023	-0.43	ug/L		89
56)	Chlorobenzene	15.80	112	60540	1.09	ug/L		98
57)	1,1,1,2-Tetrachloroethane	15.84	131	16318	0.99	ug/L		99
58)	Ethylbenzene	15.85	106	32617	1.08	ug/L		88
59)	m-,p-Xylene	15.97	106	84288	2.21	ug/L		86
60)	o-Xylene	16.62	106	34940	1.01	ug/L		96
61)	Styrene	16.66	104	62666	1.05	ug/L		96
62)	Bromoform	17.20	173	6470	0.81	ug/L	#	96
63)	Isopropylbenzene	17.13	105	89817	1.00	ug/L		98
65)	1,1,2,2-Tetrachloroethane	17.36	83	10875	0.95	ug/L		98
67)	1,2,3-Trichloropropane	17.59	110	3601	0.97	ug/L	#	87
69)	n-Propylbenzene	17.73	91	110940	1.01	ug/L		96
70)	Bromobenzene	17.85	156	26322	1.02	ug/L		99
71)	1,3,5-Trimethylbenzene	17.95	105	80515	0.99	ug/L		99
72)	2-Chlorotoluene	18.03	91	80119	1.07	ug/L		98
73)	4-Chlorotoluene	18.09	91	80552	1.07	ug/L		95
74)	a-Methylstyrene	18.42	118	36857	0.83	ug/L		99
75)	tert-Butylbenzene	18.49	119	78479	1.03	ug/L		98
76)	1,2,4-Trimethylbenzene	18.55	105	93810	1.06	ug/L		96
77)	sec-Butylbenzene	18.81	105	100762	1.00	ug/L		97
78)	p-Isopropyltoluene	19.01	119	91003	1.00	ug/L		96
79)	1,3-Dichlorobenzene	19.21	146	57031	1.06	ug/L		95
80)	1,4-Dichlorobenzene	19.36	146	63568	1.10	ug/L		96
81)	n-Butylbenzene	19.62	91	80742	1.03	ug/L		97
82)	1,2-Dichlorobenzene	19.94	146	49629	1.04	ug/L		97
83)	1,2-Dibromo-3-Chloropropan	21.10	157	1986	2.89	ug/L		89
84)	1,2,4-Trichlorobenzene	22.47	180	28697	0.95	ug/L		97
85)	Hexachlorobutadiene	22.66	225	14609	1.02	ug/L	#	31

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26150.D Vial: 4
Acq On : 8 Jun 2001 19:16 Operator: CMS
Sample : WG99096-04 1PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:24 2001 Quant Results File: 8260BWT.RES

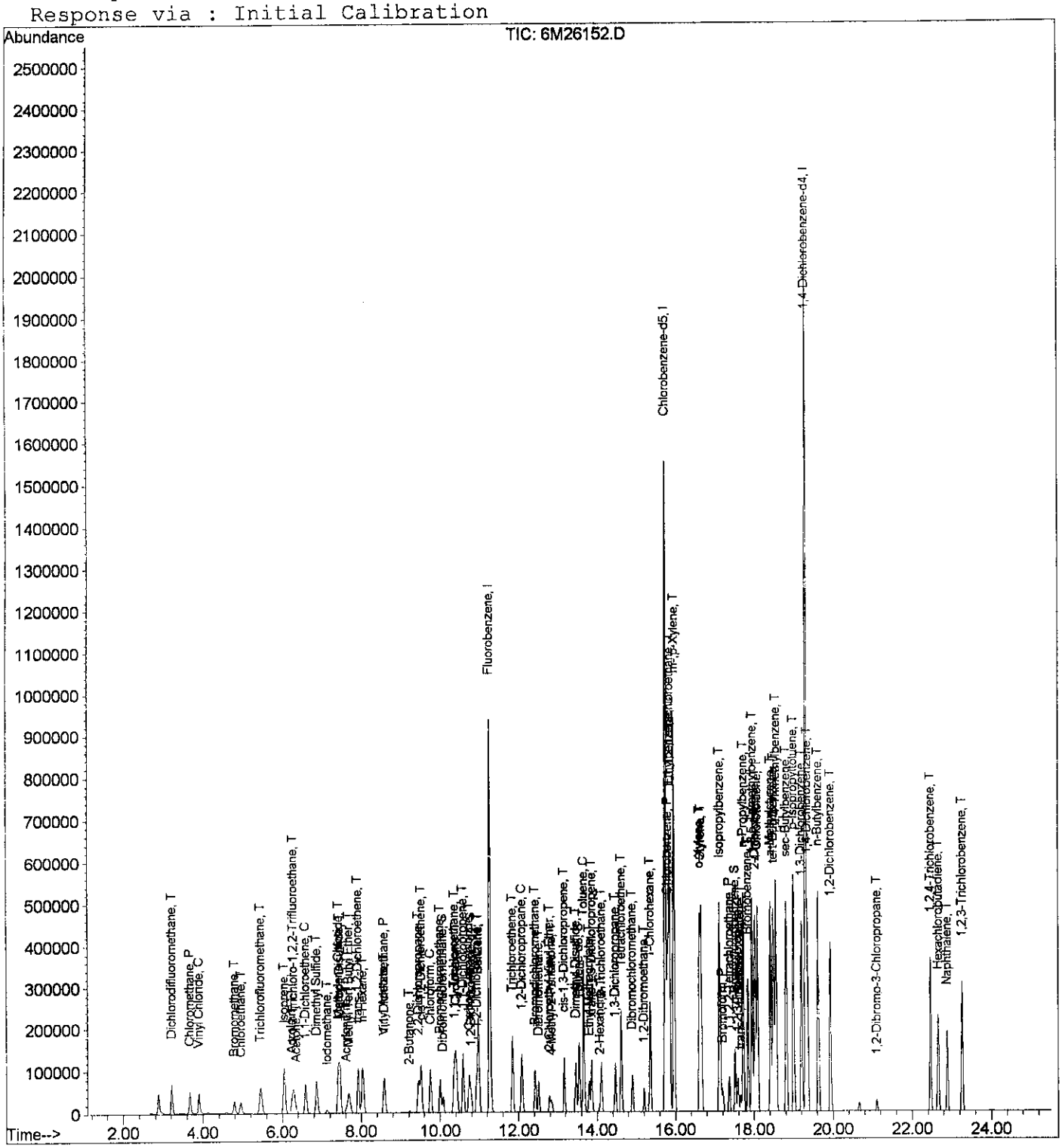
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) Naphthalene	22.89	128	30722	-1.03 ug/L #	91
87) 1,2,3-Trichlorobenzene	23.26	180	24313	0.94 ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26152.D Vial: 6
Acq On : 8 Jun 2001 20:21 Operator: CMS
Sample : WG99096-06 5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:15 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26152.D Vial: 6
Acq On : 8 Jun 2001 20:21 Operator: CMS
Sample : WG99096-06 5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:15 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1315652	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1304813	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	858257	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.08	111	36887	2.39	ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery =	9.56%#		
33) 1,2-Dichloroethane-d4	10.80	65	37397	2.47	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	9.88%#		
45) Toluene-d8	13.55	98	168065	2.45	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.80%#		
66) p-Bromofluorobenzene	17.52	95	73499	2.44	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.76%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	113668	5.16	ug/L	99
3) Chloromethane	3.67	50	87728	5.08	ug/L	98
4) Vinyl Chloride	3.90	62	81595	5.46	ug/L	98
5) Bromomethane	4.79	94	35777	4.72	ug/L	99
6) Chloroethane	4.95	64	46237	5.28	ug/L	96
7) Trichlorofluoromethane	5.45	101	132613	4.63	ug/L	99
8) Isoprene	6.05	67	91662	4.50	ug/L	98
9) Acrolein	6.23	56	4604	12.28	ug/L	100
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	70206	4.81	ug/L	98
11) Acetone	6.36	43	11319	5.10	ug/L	96
12) 1,1-Dichloroethene	6.59	96	54492	4.67	ug/L	98
13) Dimethyl Sulfide	6.87	62	65107	4.22	ug/L #	1
14) Iodomethane	7.12	142	16824	4.31	ug/L	92
15) Methylene Chloride	7.42	84	76526	4.54	ug/L	99
16) Carbon Disulfide	7.46	76	237487	4.53	ug/L	99
17) Acrylonitrile	7.62	53	11468	4.12	ug/L	97
18) Methyl Tert Butyl Ether	7.68	73	102005	4.54	ug/L	100
19) trans-1,2-Dichloroethene	7.92	96	68255	4.80	ug/L	98
20) n-Hexane	8.03	57	102290	5.12	ug/L	97
21) Vinyl Acetate	8.57	43	41630	4.37	ug/L	99
22) 1,1-Dichloroethane	8.59	63	122278	4.65	ug/L	99
23) 2-Butanone	9.22	43	10784	6.13	ug/L	98
24) 2,2-Dichloropropane	9.45	77	89462	4.77	ug/L	98
25) cis-1,2-Dichloroethene	9.52	96	71921	4.87	ug/L	97
26) Chloroform	9.76	83	130132	4.70	ug/L	99
27) Bromochloromethane	10.00	128	32943	4.76	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26152.D Vial: 6
Acq On : 8 Jun 2001 20:21 Operator: CMS
Sample : WG99096-06 5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:15 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	116709	4.70 ug/L		93
30) Cyclohexane	10.41	56	110892	4.62 ug/L		97
31) 1,1-Dichloropropene	10.59	75	105785	5.03 ug/L		99
32) Carbon Tetrachloride	10.75	117	101363	4.65 ug/L		99
34) 1,2-Dichloroethane	10.93	62	91366	4.89 ug/L	#	80
35) Benzene	10.98	78	305538	5.02 ug/L		99
36) Trichloroethene	11.85	130	92372	4.89 ug/L		97
37) 1,2-Dichloropropane	12.09	63	73066	4.92 ug/L		94
38) Bromodichloromethane	12.42	83	97869	4.95 ug/L		98
39) Dibromomethane	12.51	93	35902	5.08 ug/L		88
40) 2-Chloroethyl Vinyl Ether	12.79	63	21567	4.79 ug/L		100
41) 4-Methyl-2-Pentanone	12.84	58	12293	4.28 ug/L		100
42) cis-1,3-Dichloropropene	13.17	75	98028	4.42 ug/L		100
43) Dimethyl Disulfide	13.46	79	46252	3.87 ug/L		100
46) Toluene	13.66	91	402782	5.28 ug/L		97
47) Ethyl Methacrylate	13.81	69	55025	4.13 ug/L		100
48) trans-1,3-Dichloropropene	13.87	75	88172	4.07 ug/L		99
49) 1,1,2-Trichloroethane	14.12	97	53672	5.01 ug/L		100
50) 2-Hexanone	14.07	43	22320	4.17 ug/L		96
51) 1,3-Dichloropropane	14.47	76	92579	4.94 ug/L		97
52) Tetrachloroethene	14.62	164	86003	5.02 ug/L		93
53) Dibromochloromethane	14.91	129	71607	4.92 ug/L		98
54) 1,2-Dibromoethane	15.20	107	52746	4.89 ug/L		99
55) 1-Chlorohexane	15.36	91	118875	3.58 ug/L		95
56) Chlorobenzene	15.81	112	301229	5.01 ug/L		98
57) 1,1,1,2-Tetrachloroethane	15.85	131	90028	5.04 ug/L		99
58) Ethylbenzene	15.86	106	168705	5.16 ug/L		89
59) m-,p-Xylene	15.96	106	444509	10.80 ug/L		88
60) o-Xylene	16.62	106	201864	5.41 ug/L		94
61) Styrene	16.66	104	354744	5.48 ug/L		97
62) Bromoform	17.20	173	40653	4.69 ug/L		98
63) Isopropylbenzene	17.13	105	536879	5.55 ug/L		97
65) 1,1,2,2-Tetrachloroethane	17.37	83	59608	4.94 ug/L		100
67) 1,2,3-Trichloropropane	17.59	110	20378	5.21 ug/L		95
68) trans-1,4-Dichloro-2-Buten	17.66	53	14159	4.21 ug/L	#	78
69) n-Propylbenzene	17.73	91	652267	5.64 ug/L		96
70) Bromobenzene	17.85	156	139884	5.15 ug/L		98
71) 1,3,5-Trimethylbenzene	17.96	105	474422	5.53 ug/L		97
72) 2-Chlorotoluene	18.03	91	424652	5.38 ug/L		99
73) 4-Chlorotoluene	18.09	91	420731	5.30 ug/L		98
74) a-Methylstyrene	18.42	118	236567	5.06 ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26152.D Vial: 6
Acq On : 8 Jun 2001 20:21 Operator: CMS
Sample : WG99096-06 5PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:15 2001 Quant Results File: 8260BWT.RES

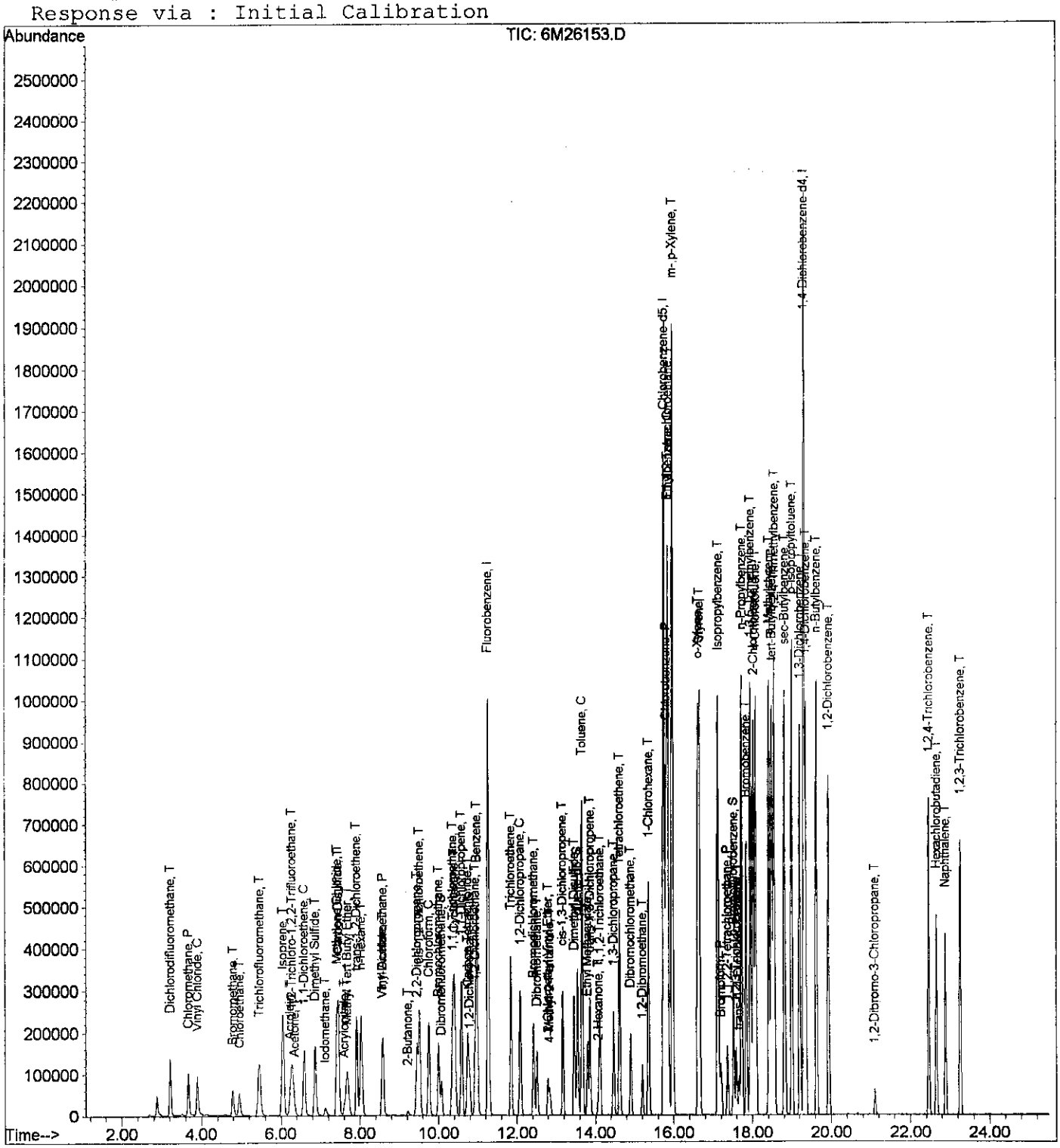
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75) tert-Butylbenzene	18.49	119	432204	5.38	ug/L		99
76) 1,2,4-Trimethylbenzene	18.56	105	504430	5.41	ug/L		97
77) sec-Butylbenzene	18.82	105	588328	5.50	ug/L		97
78) p-Isopropyltoluene	19.01	119	532549	5.55	ug/L		97
79) 1,3-Dichlorobenzene	19.21	146	292816	5.14	ug/L		95
80) 1,4-Dichlorobenzene	19.36	146	305254	5.02	ug/L		100
81) n-Butylbenzene	19.63	91	448585	5.39	ug/L		98
82) 1,2-Dichlorobenzene	19.94	146	256552	5.09	ug/L		96
83) 1,2-Dibromo-3-Chloropropan	21.11	157	12331	5.90	ug/L		95
84) 1,2,4-Trichlorobenzene	22.47	180	167598	5.22	ug/L		98
85) Hexachlorobutadiene	22.66	225	75248	4.96	ug/L	#	35
86) Naphthalene	22.89	128	216676	3.00	ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.26	180	142561	5.22	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26153.D Vial: 7
Acq On : 8 Jun 2001 20:53 Operator: CMS
Sample : WG99096-07 10PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26153.D Vial: 7
Acq On : 8 Jun 2001 20:53 Operator: CMS
Sample : WG99096-07 10PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1421233	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1357612	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	874407	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	81687	4.90	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 19.60%#			
33) 1,2-Dichloroethane-d4	10.80	65	81997	5.02	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 20.08%#			
45) Toluene-d8	13.55	98	365059	5.11	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 20.44%#			
66) p-Bromofluorobenzene	17.52	95	155478	5.07	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 20.28%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	233633	9.82	ug/L	99
3) Chloromethane	3.66	50	176064	9.43	ug/L	100
4) Vinyl Chloride	3.90	62	160895	11.32	ug/L	99
5) Bromomethane	4.78	94	80546	9.84	ug/L	99
6) Chloroethane	4.95	64	93304	9.86	ug/L	96
7) Trichlorofluoromethane	5.46	101	288291	9.32	ug/L	99
8) Isoprene	6.04	67	213643	9.71	ug/L	98
9) Acrolein	6.23	56	12183	21.01	ug/L	98
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	154577	9.80	ug/L #	80
11) Acetone	6.36	43	22680	9.46	ug/L	95
12) 1,1-Dichloroethene	6.59	96	123626	9.81	ug/L	99
13) Dimethyl Sulfide	6.86	62	155577	9.34	ug/L #	1
14) Iodomethane	7.12	142	42385	7.64	ug/L	98
15) Methylene Chloride	7.42	84	161031	9.81	ug/L	99
16) Carbon Disulfide	7.45	76	549068	9.70	ug/L	99
17) Acrylonitrile	7.60	53	25109	8.34	ug/L #	82
18) Methyl Tert Butyl Ether	7.68	73	244882	10.09	ug/L	100
19) trans-1,2-Dichloroethene	7.91	96	153910	10.03	ug/L	99
20) n-Hexane	8.03	57	237217	10.99	ug/L	96
21) Vinyl Acetate	8.57	43	107411	10.43	ug/L	100
22) 1,1-Dichloroethane	8.59	63	280446	9.88	ug/L	97
23) 2-Butanone	9.22	43	26704	10.43	ug/L	98
24) 2,2-Dichloropropane	9.45	77	207229	9.17	ug/L	100
25) cis-1,2-Dichloroethene	9.52	96	165166	10.35	ug/L	98
26) Chloroform	9.76	83	289272	9.68	ug/L	99
27) Bromochloromethane	10.01	128	73171	9.79	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M26153.D 8260BWT.M Mon Jun 11 09:16:20 2001 Page 1

Data File : C:\HPCHEM\1\DATA\060801\6M26153.D Vial: 7
Acq On : 8 Jun 2001 20:53 Operator: CMS
Sample : WG99096-07 10PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	267601	9.97 ug/L		95
30) Cyclohexane	10.41	56	266643	10.29 ug/L		98
31) 1,1-Dichloropropene	10.59	75	240420	10.59 ug/L		99
32) Carbon Tetrachloride	10.74	117	238388	10.13 ug/L		100
34) 1,2-Dichloroethane	10.93	62	203991	10.12 ug/L	#	83
35) Benzene	10.98	78	678500	10.32 ug/L		99
36) Trichloroethene	11.85	130	200795	9.84 ug/L		97
37) 1,2-Dichloropropane	12.09	63	160344	9.99 ug/L		97
38) Bromodichloromethane	12.43	83	213269	9.99 ug/L		100
39) Dibromomethane	12.52	93	77908	10.20 ug/L		89
40) 2-Chloroethyl Vinyl Ether	12.79	63	51556	9.37 ug/L		99
41) 4-Methyl-2-Pentanone	12.83	58	29158	9.40 ug/L		99
42) cis-1,3-Dichloropropene	13.17	75	225871	9.42 ug/L		99
43) Dimethyl Disulfide	13.46	79	117674	9.11 ug/L		98
46) Toluene	13.67	91	860081	10.83 ug/L		96
47) Ethyl Methacrylate	13.80	69	133765	9.65 ug/L		100
48) trans-1,3-Dichloropropene	13.87	75	201194	9.27 ug/L		100
49) 1,1,2-Trichloroethane	14.11	97	114388	10.25 ug/L		100
50) 2-Hexanone	14.07	43	51370	9.23 ug/L		98
51) 1,3-Dichloropropane	14.47	76	199419	10.24 ug/L		98
52) Tetrachloroethene	14.62	164	181859	10.20 ug/L		93
53) Dibromochloromethane	14.90	129	158279	10.46 ug/L		98
54) 1,2-Dibromoethane	15.21	107	115359	10.28 ug/L		100
55) 1-Chlorohexane	15.36	91	266354	9.12 ug/L		99
56) Chlorobenzene	15.81	112	615128	9.84 ug/L		100
57) 1,1,1,2-Tetrachloroethane	15.85	131	193715	10.43 ug/L		97
58) Ethylbenzene	15.85	106	353097	10.38 ug/L		91
59) m-,p-Xylene	15.96	106	907896	21.20 ug/L		88
60) o-Xylene	16.62	106	424000	10.92 ug/L		95
61) Styrene	16.66	104	742291	11.01 ug/L		98
62) Bromoform	17.20	173	90579	10.05 ug/L		98
63) Isopropylbenzene	17.13	105	1126882	11.19 ug/L		96
65) 1,1,2,2-Tetrachloroethane	17.37	83	121348	9.86 ug/L		99
67) 1,2,3-Trichloropropane	17.59	110	42076	10.56 ug/L		96
68) trans-1,4-Dichloro-2-Buten	17.66	53	31909	9.31 ug/L		85
69) n-Propylbenzene	17.73	91	1337961	11.35 ug/L		97
70) Bromobenzene	17.85	156	290304	10.49 ug/L		99
71) 1,3,5-Trimethylbenzene	17.95	105	975652	11.17 ug/L		97
72) 2-Chlorotoluene	18.03	91	831976	10.35 ug/L		100
73) 4-Chlorotoluene	18.09	91	884505	10.94 ug/L		99
74) a-Methylstyrene	18.42	118	500342	10.51 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26153.D Vial: 7
Acq On : 8 Jun 2001 20:53 Operator: CMS
Sample : WG99096-07 10PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.50	119	889104	10.86	ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	1021231	10.76	ug/L		97
77)	sec-Butylbenzene	18.82	105	1209922	11.10	ug/L		98
78)	p-Isopropyltoluene	19.01	119	1093758	11.19	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	597897	10.31	ug/L		95
80)	1,4-Dichlorobenzene	19.36	146	609850	9.84	ug/L		98
81)	n-Butylbenzene	19.63	91	917662	10.82	ug/L		99
82)	1,2-Dichlorobenzene	19.93	146	526039	10.25	ug/L		95
83)	1,2-Dibromo-3-Chloropropan	21.11	157	26963	10.07	ug/L		95
84)	1,2,4-Trichlorobenzene	22.47	180	351043	10.74	ug/L		98
85)	Hexachlorobutadiene	22.66	225	155149	10.04	ug/L	#	33
86)	Naphthalene	22.89	128	489566	8.76	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	303029	10.88	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26153.D 8260BWT.M Mon Jun 11 09:16:21 2001 Page 3

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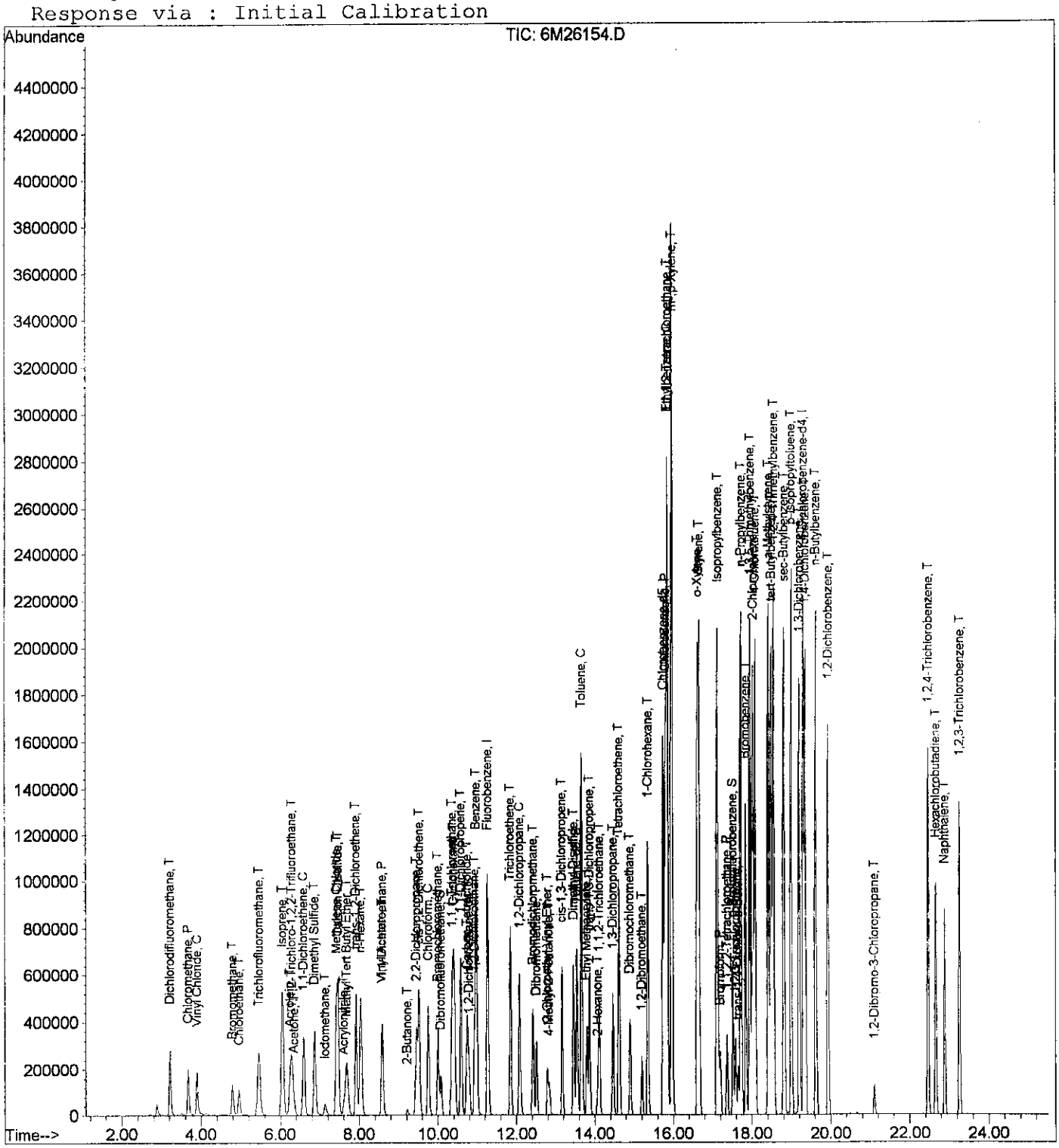
Data File : C:\HPCHEM\1\DATA\060801\6M26154.D Vial: 8
Acq On : 8 Jun 2001 21:26 Operator: CMS
Sample : WG99096-08 20PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26154.D Vial: 8
Acq On : 8 Jun 2001 21:26 Operator: CMS
Sample : WG99096-08 20PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1467777	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1388783	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	890334	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.08	111	169056	9.81	ug/L	0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 39.24%#			
33) 1,2-Dichloroethane-d4	10.80	65	164407	9.74	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 38.96%#			
45) Toluene-d8	13.55	98	745078	10.19	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 40.76%#			
66) p-Bromofluorobenzene	17.52	95	319335	10.22	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 40.88%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.21	85	473390	19.27	ug/L	99
3) Chloromethane	3.67	50	355397	18.43	ug/L	100
4) Vinyl Chloride	3.89	62	309234	22.75	ug/L	100
5) Bromomethane	4.78	94	174744	20.68	ug/L	98
6) Chloroethane	4.95	64	191910	19.63	ug/L	96
7) Trichlorofluoromethane	5.45	101	605958	18.97	ug/L	99
8) Isoprene	6.04	67	471374	20.75	ug/L	98
9) Acrolein	6.24	56	27794	38.85	ug/L	96
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	324656	19.92	ug/L	97
11) Acetone	6.36	43	43703	17.65	ug/L	99
12) 1,1-Dichloroethene	6.59	96	268528	20.64	ug/L	100
13) Dimethyl Sulfide	6.87	62	346984	20.18	ug/L #	1
14) Iodomethane	7.13	142	114366	17.02	ug/L	99
15) Methylene Chloride	7.42	84	331086	20.55	ug/L	99
16) Carbon Disulfide	7.46	76	1192972	20.41	ug/L	99
17) Acrylonitrile	7.61	53	63484	20.42	ug/L	100
18) Methyl Tert Butyl Ether	7.68	73	532606	21.25	ug/L	100
19) trans-1,2-Dichloroethene	7.92	96	328869	20.75	ug/L	98
20) n-Hexane	8.03	57	505283	22.66	ug/L	96
21) Vinyl Acetate	8.57	43	225045	21.16	ug/L	99
22) 1,1-Dichloroethane	8.59	63	594821	20.28	ug/L	97
23) 2-Butanone	9.21	43	58961	19.09	ug/L	98
24) 2,2-Dichloropropane	9.46	77	464343	18.83	ug/L	99
25) cis-1,2-Dichloroethene	9.52	96	349633	21.22	ug/L	98
26) Chloroform	9.76	83	596189	19.32	ug/L	100
27) Bromochloromethane	10.00	128	154925	20.07	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M26154.D 8260BWT.M Mon Jun 11 09:16:39 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\060801\6M26154.D Vial: 8
Acq On : 8 Jun 2001 21:26 Operator: CMS
Sample : WG99096-08 20PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	1,1,1-Trichloroethane	10.36	97	566103	20.42	ug/L		96
30)	Cyclohexane	10.41	56	567743	21.21	ug/L		97
31)	1,1-Dichloropropene	10.59	75	512011	21.83	ug/L		98
32)	Carbon Tetrachloride	10.75	117	515438	21.20	ug/L		99
34)	1,2-Dichloroethane	10.93	62	414058	19.88	ug/L	#	82
35)	Benzene	10.98	78	1408804	20.75	ug/L		99
36)	Trichloroethene	11.85	130	423952	20.12	ug/L		97
37)	1,2-Dichloropropane	12.09	63	335263	20.22	ug/L		98
38)	Bromodichloromethane	12.42	83	442631	20.07	ug/L		100
39)	Dibromomethane	12.51	93	160109	20.29	ug/L		87
40)	2-Chloroethyl Vinyl Ether	12.79	63	115744	19.18	ug/L		96
41)	4-Methyl-2-Pentanone	12.84	58	62977	19.67	ug/L		98
42)	cis-1,3-Dichloropropene	13.17	75	488530	19.71	ug/L		99
43)	Dimethyl Disulfide	13.46	79	270353	20.26	ug/L		99
46)	Toluene	13.66	91	1765789	21.74	ug/L		97
47)	Ethyl Methacrylate	13.80	69	289882	20.44	ug/L		99
48)	trans-1,3-Dichloropropene	13.87	75	433938	19.85	ug/L		100
49)	1,1,2-Trichloroethane	14.12	97	234277	20.53	ug/L		99
50)	2-Hexanone	14.07	43	113530	19.95	ug/L		99
51)	1,3-Dichloropropane	14.47	76	412669	20.71	ug/L		97
52)	Tetrachloroethene	14.62	164	373249	20.46	ug/L		93
53)	Dibromochloromethane	14.90	129	339003	21.90	ug/L		99
54)	1,2-Dibromoethane	15.20	107	243292	21.19	ug/L		100
55)	1-Chlorohexane	15.36	91	571773	20.49	ug/L		99
56)	Chlorobenzene	15.81	112	1253921	19.60	ug/L		98
57)	1,1,1,2-Tetrachloroethane	15.85	131	403617	21.24	ug/L		97
58)	Ethylbenzene	15.86	106	716595	20.59	ug/L		91
59)	m-,p-Xylene	15.97	106	1834237	41.86	ug/L		89
60)	o-Xylene	16.62	106	882652	22.23	ug/L		96
61)	Styrene	16.66	104	1529867	22.19	ug/L		97
62)	Bromoform	17.21	173	196208	21.28	ug/L		99
63)	Isopropylbenzene	17.13	105	2322495	22.55	ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.37	83	248923	19.87	ug/L		100
67)	1,2,3-Trichloropropane	17.59	110	85888	21.17	ug/L		97
68)	trans-1,4-Dichloro-2-Buten	17.66	53	67755	19.42	ug/L		91
69)	n-Propylbenzene	17.72	91	2730707	22.76	ug/L		97
70)	Bromobenzene	17.85	156	592567	21.02	ug/L		99
71)	1,3,5-Trimethylbenzene	17.96	105	1992582	22.40	ug/L		98
72)	2-Chlorotoluene	18.03	91	1761080	21.51	ug/L		100
73)	4-Chlorotoluene	18.09	91	1740765	21.14	ug/L		100
74)	a-Methylstyrene	18.42	118	1049533	21.66	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26154.D Vial: 8
Acq On : 8 Jun 2001 21:26 Operator: CMS
Sample : WG99096-08 20PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.49	119	1803168	21.62	ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	2083872	21.56	ug/L		97
77)	sec-Butylbenzene	18.82	105	2488144	22.43	ug/L		98
78)	p-Isopropyltoluene	19.01	119	2242538	22.54	ug/L		98
79)	1,3-Dichlorobenzene	19.21	146	1215764	20.58	ug/L		95
80)	1,4-Dichlorobenzene	19.36	146	1232866	19.53	ug/L		97
81)	n-Butylbenzene	19.63	91	1872983	21.69	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	1074486	20.56	ug/L		95
83)	1,2-Dibromo-3-Chloropropan	21.11	157	57544	18.61	ug/L		96
84)	1,2,4-Trichlorobenzene	22.47	180	733060	22.02	ug/L		98
85)	Hexachlorobutadiene	22.66	225	323035	20.53	ug/L	#	34
86)	Naphthalene	22.89	128	1029573	19.96	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	623241	21.99	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26154.D 8260BWT.M Mon Jun 11 09:16:40 2001 Page 3

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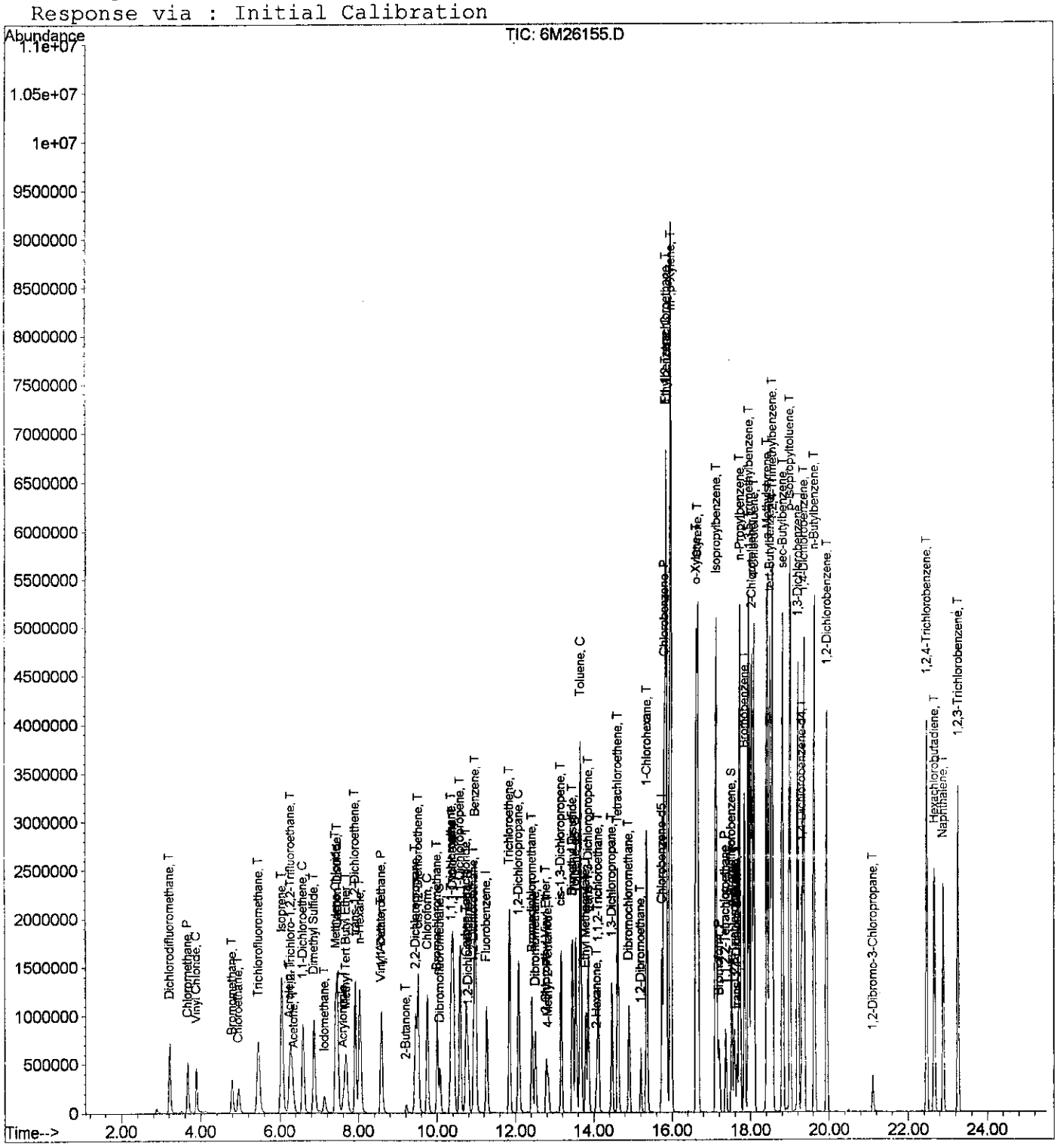
Data File : C:\HPCHEM\1\DATA\060801\6M26155.D Vial: 9
Acq On : 8 Jun 2001 21:59 Operator: CMS
Sample : WG99096-09 50PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26155.D Vial: 9
Acq On : 8 Jun 2001 21:59 Operator: CMS
Sample : WG99096-09 50PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1545229	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1443973	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	926190	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	447766	24.69	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.76%				
33) 1,2-Dichloroethane-d4	10.80	65	426673	24.00	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.00%				
45) Toluene-d8	13.55	98	1920546	25.27	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.08%				
66) p-Bromofluorobenzene	17.52	95	826728	25.44	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	1185346	45.83	ug/L		100
3) Chloromethane	3.67	50	892552	43.97	ug/L		100
4) Vinyl Chloride	3.89	62	670304	50.48	ug/L		99
5) Bromomethane	4.78	94	459783	51.68	ug/L		99
6) Chloroethane	4.95	64	466405	45.32	ug/L		97
7) Trichlorofluoromethane	5.45	101	1645151	48.93	ug/L		99
8) Isoprene	6.04	67	1284810	53.72	ug/L		97
9) Acrolein	6.24	56	79857	95.20	ug/L		99
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	850527	49.58	ug/L		98
11) Acetone	6.36	43	134340	51.54	ug/L		97
12) 1,1-Dichloroethene	6.59	96	728563	53.20	ug/L		99
13) Dimethyl Sulfide	6.87	62	951962	52.59	ug/L	#	1
14) Iodomethane	7.13	142	385890	50.54	ug/L		93
15) Methylene Chloride	7.42	84	844886	51.26	ug/L		97
16) Carbon Disulfide	7.46	76	3176799	51.64	ug/L		99
17) Acrylonitrile	7.61	53	175817	53.72	ug/L		96
18) Methyl Tert Butyl Ether	7.68	73	1456317	55.18	ug/L		99
19) trans-1,2-Dichloroethene	7.92	96	881968	52.86	ug/L		98
20) n-Hexane	8.03	57	1310606	55.83	ug/L		96
21) Vinyl Acetate	8.57	43	573876	51.25	ug/L		98
22) 1,1-Dichloroethane	8.59	63	1583475	51.28	ug/L		97
23) 2-Butanone	9.21	43	171803	47.86	ug/L		98
24) 2,2-Dichloropropane	9.46	77	1291591	48.25	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	937314	54.03	ug/L		98
26) Chloroform	9.76	83	1572805	48.41	ug/L		99
27) Bromochloromethane	10.00	128	423161	52.07	ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26155.D Vial: 9
Acq On : 8 Jun 2001 21:59 Operator: CMS
Sample : WG99096-09 50PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	1509264	51.72 ug/L		98
30) Cyclohexane	10.41	56	1513358	53.70 ug/L		98
31) 1,1-Dichloropropene	10.59	75	1339798	54.26 ug/L		97
32) Carbon Tetrachloride	10.75	117	1392309	54.39 ug/L		100
34) 1,2-Dichloroethane	10.93	62	1082821	49.39 ug/L	#	82
35) Benzene	10.99	78	3626907	50.75 ug/L		99
36) Trichloroethene	11.85	130	1122016	50.57 ug/L		96
37) 1,2-Dichloropropane	12.09	63	877845	50.28 ug/L		99
38) Bromodichloromethane	12.43	83	1175454	50.63 ug/L		100
39) Dibromomethane	12.51	93	420547	50.63 ug/L		86
40) 2-Chloroethyl Vinyl Ether	12.79	63	327777	49.90 ug/L		96
41) 4-Methyl-2-Pentanone	12.84	58	177533	52.66 ug/L		100
42) cis-1,3-Dichloropropene	13.17	75	1315623	50.42 ug/L		98
43) Dimethyl Disulfide	13.46	79	762647	54.28 ug/L		99
46) Toluene	13.66	91	4448557	52.68 ug/L		97
47) Ethyl Methacrylate	13.80	69	788920	53.49 ug/L		99
48) trans-1,3-Dichloropropene	13.87	75	1162107	51.56 ug/L		99
49) 1,1,2-Trichloroethane	14.12	97	606478	51.12 ug/L		99
50) 2-Hexanone	14.07	43	314762	53.19 ug/L		97
51) 1,3-Dichloropropane	14.47	76	1086080	52.41 ug/L		95
52) Tetrachloroethene	14.62	164	949062	50.03 ug/L		93
53) Dibromochloromethane	14.90	129	899601	55.89 ug/L		99
54) 1,2-Dibromoethane	15.20	107	644121	53.95 ug/L		100
55) 1-Chlorohexane	15.36	91	1478127	52.75 ug/L		95
56) Chlorobenzene	15.81	112	3148235	47.33 ug/L		97
57) 1,1,1,2-Tetrachloroethane	15.85	131	1025897	51.92 ug/L		98
58) Ethylbenzene	15.86	106	1787053	49.38 ug/L		94
59) m-,p-Xylene	15.97	106	4494091	98.65 ug/L		91
60) o-Xylene	16.62	106	2216845	53.69 ug/L		98
61) Styrene	16.66	104	3840116	53.58 ug/L		97
62) Bromoform	17.21	173	535780	55.89 ug/L		98
63) Isopropylbenzene	17.13	105	5761388	53.80 ug/L		98
65) 1,1,2,2-Tetrachloroethane	17.37	83	638310	48.98 ug/L		100
67) 1,2,3-Trichloropropane	17.59	110	222819	52.79 ug/L		95
68) trans-1,4-Dichloro-2-Buten	17.66	53	186962	51.51 ug/L		96
69) n-Propylbenzene	17.72	91	6740933	54.00 ug/L		98
70) Bromobenzene	17.85	156	1485466	50.65 ug/L		99
71) 1,3,5-Trimethylbenzene	17.96	105	5018362	54.24 ug/L		98
72) 2-Chlorotoluene	18.03	91	4332946	50.88 ug/L		99
73) 4-Chlorotoluene	18.09	91	4311445	50.33 ug/L		99
74) a-Methylstyrene	18.42	118	2678928	53.14 ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26155.D 8260BWT.M Mon Jun 11 09:16:59 2001 Page 2

Data File : C:\HPCHEM\1\DATA\060801\6M26155.D Vial: 9
Acq On : 8 Jun 2001 21:59 Operator: CMS
Sample : WG99096-09 50PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:16 2001 Quant Results File: 8260BWT.RES

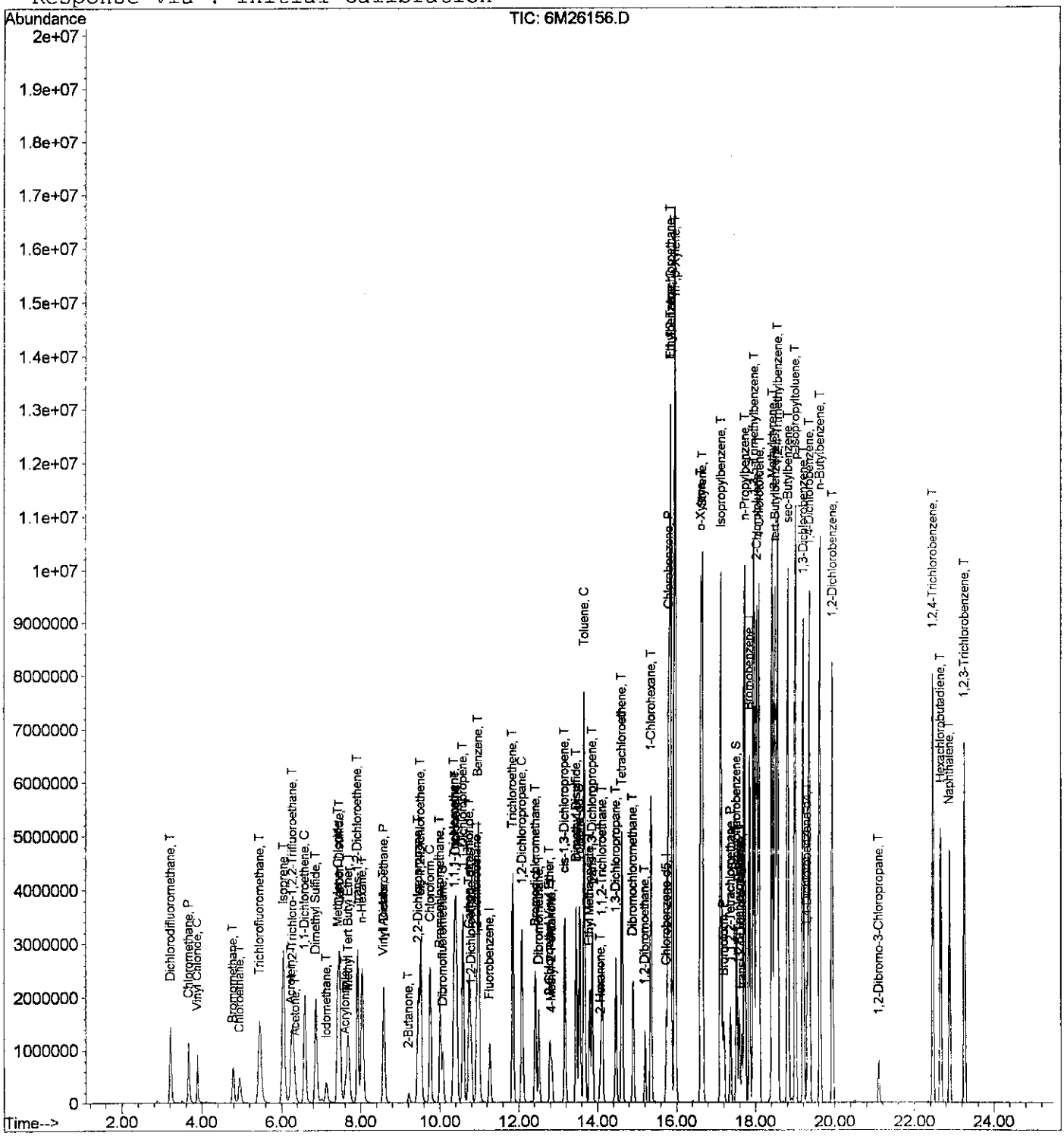
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75) tert-Butylbenzene	18.49	119	4490523	51.76	ug/L		100
76) 1,2,4-Trimethylbenzene	18.56	105	5178212	51.50	ug/L		98
77) sec-Butylbenzene	18.82	105	6153675	53.32	ug/L		99
78) p-Isopropyltoluene	19.01	119	5614301	54.25	ug/L		98
79) 1,3-Dichlorobenzene	19.21	146	3032804	49.35	ug/L		96
80) 1,4-Dichlorobenzene	19.36	146	3072739	46.80	ug/L		97
81) n-Butylbenzene	19.63	91	4700418	52.32	ug/L		100
82) 1,2-Dichlorobenzene	19.94	146	2699506	49.64	ug/L		96
83) 1,2-Dibromo-3-Chloropropan	21.11	157	167102	47.89	ug/L		92
84) 1,2,4-Trichlorobenzene	22.47	180	1920249	55.45	ug/L		98
85) Hexachlorobutadiene	22.66	225	829599	50.68	ug/L	#	34
86) Naphthalene	22.89	128	2758560	54.15	ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.26	180	1628500	55.22	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26155.D 8260BWT.M Mon Jun 11 09:16:59 2001 Page 3

Data File : C:\HPCHEM\1\DATA\060801\6M26156.D Vial: 10
Acq On : 8 Jun 2001 22:31 Operator: CMS
Sample : WG99096-10 100PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26156.D Vial: 10
Acq On : 8 Jun 2001 22:31 Operator: CMS
Sample : WG99096-10 100PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1606381	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1502108	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	965281	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	956404	50.72	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 202.88%#				
33) 1,2-Dichloroethane-d4	10.80	65	896195	48.50	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 194.00%#				
45) Toluene-d8	13.55	98	3955919	50.04	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 200.16%#				
66) p-Bromofluorobenzene	17.52	95	1679384	49.58	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 198.32%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	2427346	90.27	ug/L		100
3) Chloromethane	3.66	50	1872764	88.74	ug/L		99
4) Vinyl Chloride	3.88	62	1240360	97.95	ug/L		98
5) Bromomethane	4.78	94	951110	102.83	ug/L		100
6) Chloroethane	4.94	64	960532	89.79	ug/L		96
7) Trichlorofluoromethane	5.45	101	3675613	105.17	ug/L		99
8) Isoprene	6.05	67	2798006	112.54	ug/L		95
9) Acrolein	6.24	56	183542	202.91	ug/L		99
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	1845181	103.46	ug/L		98
11) Acetone	6.36	43	296627	109.48	ug/L		93
12) 1,1-Dichloroethene	6.59	96	1661229	116.68	ug/L		98
13) Dimethyl Sulfide	6.87	62	2039853	108.40	ug/L	#	1
14) Iodomethane	7.12	142	893788	110.38	ug/L		93
15) Methylene Chloride	7.42	84	1750104	103.15	ug/L		96
16) Carbon Disulfide	7.46	76	6697766	104.73	ug/L		100
17) Acrylonitrile	7.61	53	385937	113.44	ug/L		96
18) Methyl Tert Butyl Ether	7.68	73	3132972	114.19	ug/L		99
19) trans-1,2-Dichloroethene	7.92	96	1928907	111.20	ug/L		97
20) n-Hexane	8.03	57	2696933	110.50	ug/L		94
21) Vinyl Acetate	8.57	43	1242122	106.71	ug/L		97
22) 1,1-Dichloroethane	8.59	63	3425316	106.71	ug/L		98
23) 2-Butanone	9.21	43	392551	101.83	ug/L		97
24) 2,2-Dichloropropane	9.46	77	2876781	102.33	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	2042358	113.26	ug/L		96
26) Chloroform	9.76	83	3333451	98.69	ug/L		99
27) Bromochloromethane	10.01	128	916965	108.53	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26156.D 8260BWT.M Mon Jun 11 09:17:17 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\060801\6M26156.D Vial: 10
Acq On : 8 Jun 2001 22:31 Operator: CMS
Sample : WG99096-10 100PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	3239720	106.79 ug/L		98
30) Cyclohexane	10.41	56	3202613	109.32 ug/L		97
31) 1,1-Dichloropropene	10.59	75	2837634	110.54 ug/L		96
32) Carbon Tetrachloride	10.74	117	3004453	112.91 ug/L		100
34) 1,2-Dichloroethane	10.93	62	2278395	99.97 ug/L	#	83
35) Benzene	10.98	78	7526354	101.30 ug/L		98
36) Trichloroethene	11.85	130	2359163	102.28 ug/L		95
37) 1,2-Dichloropropane	12.09	63	1875048	103.32 ug/L		99
38) Bromodichloromethane	12.43	83	2489384	103.14 ug/L		100
39) Dibromomethane	12.52	93	894017	103.54 ug/L		87
40) 2-Chloroethyl Vinyl Ether	12.79	63	705099	102.18 ug/L		97
41) 4-Methyl-2-Pentanone	12.84	58	379604	108.32 ug/L		98
42) cis-1,3-Dichloropropene	13.17	75	2795626	103.05 ug/L		98
43) Dimethyl Disulfide	13.46	79	1625971	111.33 ug/L		99
46) Toluene	13.66	91	8993630	102.38 ug/L		99
47) Ethyl Methacrylate	13.80	69	1645584	107.25 ug/L		99
48) trans-1,3-Dichloropropene	13.87	75	2429302	103.90 ug/L		99
49) 1,1,2-Trichloroethane	14.11	97	1259017	102.01 ug/L		100
50) 2-Hexanone	14.07	43	670883	108.98 ug/L		96
51) 1,3-Dichloropropane	14.47	76	2250919	104.42 ug/L		93
52) Tetrachloroethene	14.62	164	1932319	97.92 ug/L		93
53) Dibromochloromethane	14.90	129	1880485	112.30 ug/L		100
54) 1,2-Dibromoethane	15.20	107	1348229	108.55 ug/L		100
55) 1-Chlorohexane	15.36	91	3027907	105.07 ug/L		94
56) Chlorobenzene	15.81	112	6345047	91.70 ug/L		96
57) 1,1,1,2-Tetrachloroethane	15.85	131	2024057	98.47 ug/L		98
58) Ethylbenzene	15.86	106	3569746	94.82 ug/L		99
59) m-,p-Xylene	15.97	106	8714800	183.89 ug/L		99
60) o-Xylene	16.62	106	4455766	103.74 ug/L		100
61) Styrene	16.66	104	7595485	101.87 ug/L		97
62) Bromoform	17.21	173	1121564	112.46 ug/L		98
63) Isopropylbenzene	17.13	105	11337494	101.78 ug/L		100
65) 1,1,2,2-Tetrachloroethane	17.37	83	1362007	100.28 ug/L		100
67) 1,2,3-Trichloropropane	17.59	110	460686	104.72 ug/L		96
68) trans-1,4-Dichloro-2-Buten	17.66	53	404210	106.85 ug/L		99
69) n-Propylbenzene	17.72	91	13021070	100.08 ug/L		100
70) Bromobenzene	17.85	156	3005206	98.33 ug/L		99
71) 1,3,5-Trimethylbenzene	17.96	105	9941281	103.09 ug/L		99
72) 2-Chlorotoluene	18.03	91	8525513	96.05 ug/L		98
73) 4-Chlorotoluene	18.09	91	8379333	93.86 ug/L		98
74) a-Methylstyrene	18.42	118	5383863	102.46 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26156.D Vial: 10
Acq On : 8 Jun 2001 22:31 Operator: CMS
Sample : WG99096-10 100PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

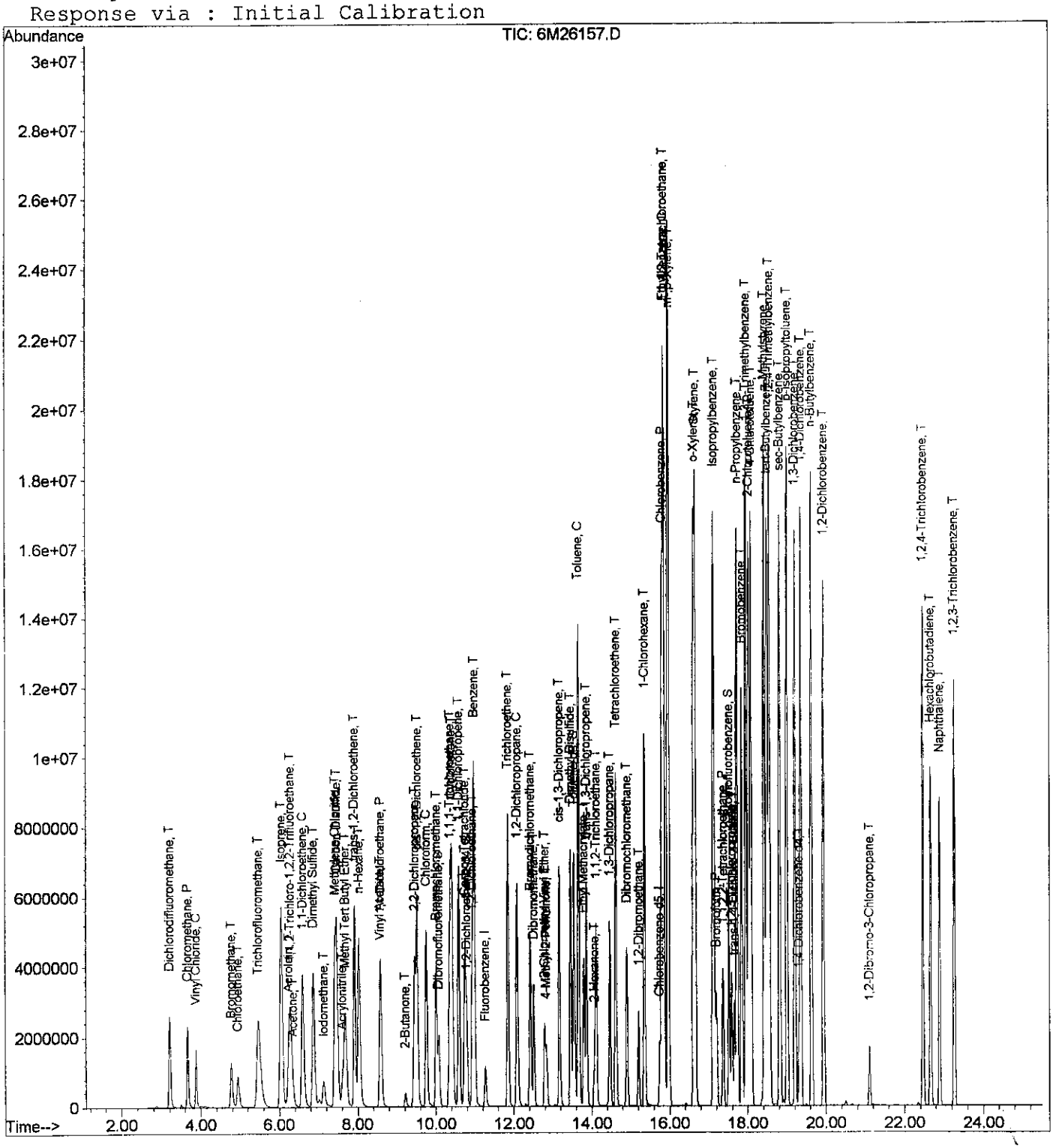
Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.49	119	8990350	99.43	ug/L		100
76)	1,2,4-Trimethylbenzene	18.56	105	10205313	97.38	ug/L		99
77)	sec-Butylbenzene	18.82	105	12093160	100.54	ug/L		100
78)	p-Isopropyltoluene	19.01	119	11113448	103.03	ug/L		99
79)	1,3-Dichlorobenzene	19.21	146	6039151	94.30	ug/L		98
80)	1,4-Dichlorobenzene	19.36	146	6059828	88.56	ug/L		98
81)	n-Butylbenzene	19.63	91	9361399	99.98	ug/L		98
82)	1,2-Dichlorobenzene	19.94	146	5394347	95.19	ug/L		98
83)	1,2-Dibromo-3-Chloropropan	21.11	157	373043	100.00	ug/L		92
84)	1,2,4-Trichlorobenzene	22.47	180	3889413	107.76	ug/L		99
85)	Hexachlorobutadiene	22.67	225	1721662	100.91	ug/L	#	34
86)	Naphthalene	22.89	128	5646556	108.03	ug/L	#	89
87)	1,2,3-Trichlorobenzene	23.26	180	3295318	107.22	ug/L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26157.D Vial: 11
Acq On : 8 Jun 2001 23:04 Operator: CMS
Sample : WG99096-11 200PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:27 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060801\6M26157.D Vial: 11
Acq On : 8 Jun 2001 23:04 Operator: CMS
Sample : WG99096-11 200PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:27 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1673313	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1575526	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	1004084	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.08	111	2002965	101.98	ug/L		0.01
Spiked Amount 25.000	Range 86 - 118		Recovery = 407.92%#				
33) 1,2-Dichloroethane-d4	10.80	65	1826077	94.86	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 379.44%#				
45) Toluene-d8	13.55	98	7970403	96.13	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 384.52%#				
66) p-Bromofluorobenzene	17.52	95	3422072	97.13	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 388.52%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	4460073	159.23	ug/L		100
3) Chloromethane	3.66	50	3724437	169.43	ug/L		99
4) Vinyl Chloride	3.88	62	2202289	200.70	ug/L		98
5) Bromomethane	4.77	94	1822780	189.19	ug/L		99
6) Chloroethane	4.94	64	1825772	163.84	ug/L		97
7) Trichlorofluoromethane	5.46	101	7728322	212.27	ug/L		100
8) Isoprene	6.04	67	5752874	222.13	ug/L		94
9) Acrolein	6.23	56	382570	399.75	ug/L		95
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	3614063	194.54	ug/L		98
11) Acetone	6.36	43	578892	205.11	ug/L		99
12) 1,1-Dichloroethene	6.59	96	3534511	238.32	ug/L		96
13) Dimethyl Sulfide	6.87	62	4217343	215.15	ug/L	#	1
14) Iodomethane	7.12	142	1657677	195.11	ug/L		99
15) Methylene Chloride	7.41	84	3484418	198.08	ug/L		93
16) Carbon Disulfide	7.46	76	13208166	198.26	ug/L		100
17) Acrylonitrile	7.60	53	788724	222.56	ug/L		96
18) Methyl Tert Butyl Ether	7.68	73	6685871	233.94	ug/L		99
19) trans-1,2-Dichloroethene	7.92	96	3900655	215.87	ug/L		96
20) n-Hexane	8.03	57	5296657	208.34	ug/L		93
21) Vinyl Acetate	8.56	43	2263736	186.70	ug/L		96
22) 1,1-Dichloroethane	8.59	63	6984171	208.89	ug/L		99
23) 2-Butanone	9.22	43	812920	199.66	ug/L		96
24) 2,2-Dichloropropane	9.46	77	5865619	199.43	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	4128511	219.79	ug/L		96
26) Chloroform	9.76	83	6678437	189.82	ug/L		99
27) Bromochloromethane	10.01	128	1890667	214.82	ug/L		90

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26157.D Vial: 11
Acq On : 8 Jun 2001 23:04 Operator: CMS
Sample : WG99096-11 200PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:27 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	6327822	200.23 ug/L		97
30) Cyclohexane	10.41	56	6389139	209.36 ug/L		95
31) 1,1-Dichloropropene	10.59	75	5574519	208.47 ug/L		95
32) Carbon Tetrachloride	10.75	117	5928225	213.87 ug/L		100
34) 1,2-Dichloroethane	10.93	62	4496360	189.39 ug/L	#	83
35) Benzene	10.98	78	14323033	185.06 ug/L		98
36) Trichloroethene	11.85	130	4651760	193.61 ug/L		95
37) 1,2-Dichloropropane	12.09	63	3777860	199.84 ug/L		99
38) Bromodichloromethane	12.43	83	4976435	197.94 ug/L		99
39) Dibromomethane	12.51	93	1809424	201.18 ug/L		87
40) 2-Chloroethyl Vinyl Ether	12.79	63	1437787	199.05 ug/L		96
41) 4-Methyl-2-Pentanone	12.84	58	791002	216.67 ug/L		98
42) cis-1,3-Dichloropropene	13.17	75	5608095	198.45 ug/L		98
43) Dimethyl Disulfide	13.46	79	3359968	220.85 ug/L		99
46) Toluene	13.67	91	16551719	179.63 ug/L		98
47) Ethyl Methacrylate	13.80	69	3365168	209.11 ug/L		98
48) trans-1,3-Dichloropropene	13.87	75	4843244	197.74 ug/L		98
49) 1,1,2-Trichloroethane	14.12	97	2532286	195.62 ug/L		100
50) 2-Hexanone	14.07	43	1408576	218.16 ug/L		95
51) 1,3-Dichloropropane	14.47	76	4518801	199.86 ug/L		92
52) Tetrachloroethene	14.62	164	3670655	177.34 ug/L		93
53) Dibromochloromethane	14.91	129	3805423	216.67 ug/L		100
54) 1,2-Dibromoethane	15.21	107	2727145	209.35 ug/L		99
55) 1-Chlorohexane	15.36	91	5917600	196.82 ug/L		92
56) Chlorobenzene	15.81	112	11725271	161.57 ug/L		96
57) 1,1,1,2-Tetrachloroethane	15.85	131	3644555	169.04 ug/L		98
58) Ethylbenzene	15.86	106	6469902	163.85 ug/L		91
59) m-,p-Xylene	15.97	106	14689159	295.51 ug/L		88
60) o-Xylene	16.62	106	8326116	184.82 ug/L		93
61) Styrene	16.66	104	13594271	173.83 ug/L		99
62) Bromoform	17.21	173	2348595	224.53 ug/L		98
63) Isopropylbenzene	17.13	105	19696925	168.58 ug/L		96
65) 1,1,2,2-Tetrachloroethane	17.37	83	2987421	211.46 ug/L		99
67) 1,2,3-Trichloropropane	17.59	110	996755	217.83 ug/L		96
68) trans-1,4-Dichloro-2-Buten	17.66	53	910848	231.47 ug/L		96
69) n-Propylbenzene	17.73	91	21780033	160.94 ug/L		94
70) Bromobenzene	17.85	156	5699883	179.29 ug/L		99
71) 1,3,5-Trimethylbenzene	17.96	105	17387557	173.34 ug/L		95
72) 2-Chlorotoluene	18.03	91	14660325	158.79 ug/L		93
73) 4-Chlorotoluene	18.09	91	15108960	162.70 ug/L		98
74) a-Methylstyrene	18.42	118	10185582	186.36 ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26157.D 8260BWT.M Mon Jun 11 09:27:05 2001 Page 2

Data File : C:\HPCHEM\1\DATA\060801\6M26157.D Vial: 11
Acq On : 8 Jun 2001 23:04 Operator: CMS
Sample : WG99096-11 200PPB STD Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:27 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75) tert-Butylbenzene	18.50	119	16251856	172.80	ug/L		98
76) 1,2,4-Trimethylbenzene	18.56	105	17499402	160.53	ug/L		95
77) sec-Butylbenzene	18.81	105	20751403	165.85	ug/L		96
78) p-Isopropyltoluene	19.01	119	18944099	168.85	ug/L		96
79) 1,3-Dichlorobenzene	19.21	146	11079361	166.31	ug/L		100
80) 1,4-Dichlorobenzene	19.36	146	11058985	155.37	ug/L		99
81) n-Butylbenzene	19.63	91	16494433	169.36	ug/L		95
82) 1,2-Dichlorobenzene	19.94	146	10086545	171.10	ug/L		100
83) 1,2-Dibromo-3-Chloropropan	21.11	157	787633	200.63	ug/L		90
84) 1,2,4-Trichlorobenzene	22.47	180	7123539	189.74	ug/L		99
85) Hexachlorobutadiene	22.66	225	3270742	184.30	ug/L	#	34
86) Naphthalene	22.89	128	10531793	195.08	ug/L	#	88
87) 1,2,3-Trichlorobenzene	23.27	180	6050451	189.25	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26157.D 8260BWT.M Mon Jun 11 09:27:05 2001 Page 3

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Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.418	0.360	13.9	97	0.02
3	P	Chloromethane	0.328	0.312	4.9	112	0.03
4	C	Vinyl Chloride	0.273	0.239	12.5	98	0.03
5	T	Bromomethane	0.144	0.150	-4.2	109	0.03
6	T	Chloroethane	0.166	0.155	6.6	103	0.02
7	T	Trichlorofluoromethane	0.544	0.505	7.2	106	0.01
8	T	Isoprene	0.387	0.000	100.0#	0#	-6.03#
9	T	Acrolein	0.012	0.000	100.0#	0#	-6.22#
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.278	0.000	100.0#	0#	-6.27#
11	T	Acetone	0.042	0.038	9.5	111	0.02
12	C	1,1-Dichloroethene	0.222	0.252	-13.5	120	0.02
13	T	Dimethyl Sulfide	0.293	0.032	89.1#	12#	-0.26
14	T	Iodomethane	0.104	0.162	-55.8#	181	0.01
15	T	Methylene Chloride	0.312	0.296	5.1	114	0.02
16	T	Carbon Disulfide	0.995	0.931	6.4	100	0.01
17	T	Acrylonitrile	0.053	0.006	88.7#	12#	0.08
18	T	Methyl Tert Butyl Ether	0.427	0.501	-17.3	120	0.00
19	T	trans-1,2-Dichloroethene	0.270	0.294	-8.9	114	0.00
20	T	n-Hexane	0.380	0.361	5.0	91	0.00
21	T	Vinyl Acetate	0.181	0.222	-22.7#	126	0.01
22	P	1,1-Dichloroethane	0.500	0.524	-4.8	112	0.00
23	T	2-Butanone	0.053	0.055	-3.8	120	0.00
24	T	2,2-Dichloropropane	0.367	0.376	-2.5	103	0.00
25	T	cis-1,2-Dichloroethene	0.281	0.306	-8.9	112	0.00
26	C	Chloroform	0.526	0.532	-1.1	114	0.00
27	T	Bromochloromethane	0.131	0.142	-8.4	117	0.00
28	S	Dibromofluoromethane	0.293	0.738	-151.9#	278#	0.00
29	T	1,1,1-Trichloroethane	0.472	0.485	-2.8	109	0.00
30	T	Cyclohexane	0.456	0.002	99.6#	0#	-0.03
31	T	1,1-Dichloropropene	0.400	0.408	-2.0	102	0.00
32	T	Carbon Tetrachloride	0.414	0.427	-3.1	106	0.00
33	S	1,2-Dichloroethane-d4	0.288	0.677	-135.1#	263#	0.00
34	T	1,2-Dichloroethane	0.355	0.352	0.8	109	0.00
35	T	Benzene	1.156	1.206	-4.3	109	0.00
36	T	Trichloroethene	0.359	0.376	-4.7	113	0.00
37	C	1,2-Dichloropropane	0.282	0.281	0.4	107	0.00
38	T	Bromodichloromethane	0.376	0.384	-2.1	111	0.00
39	T	Dibromomethane	0.134	0.139	-3.7	111	0.00
40	T	2-Chloroethyl Vinyl Ether	0.093	0.100	-7.5	110	0.00
41	T	4-Methyl-2-Pentanone	0.055	0.053	3.6	107	0.00

(#) = Out of Range
6M26160.D 8260BWT.M Mon Jun 11 09:27:36 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.375	0.433	-15.5	113	0.00
43	T	Dimethyl Disulfide	0.227	0.000	100.0#	0#	-13.46#
44	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
45	S	Toluene-d8	1.316	3.378	-156.7#	267#	0.00
46	C	Toluene	1.462	1.593	-9.0	106	0.00
47	T	Ethyl Methacrylate	0.255	0.004	98.4#	1#	-0.24
48	T	trans-1,3-Dichloropropene	0.340	0.401	-17.9	109	0.00
49	T	1,1,2-Trichloroethane	0.205	0.221	-7.8	111	0.00
50	T	2-Hexanone	0.102	0.097	4.9	101	0.00
51	T	1,3-Dichloropropane	0.359	0.384	-7.0	110	0.00
52	T	Tetrachloroethene	0.328	0.334	-1.8	105	0.00
53	T	Dibromochloromethane	0.279	0.301	-7.9	105	0.00
54	T	1,2-Dibromoethane	0.207	0.231	-11.6	112	0.00
55	T	1-Chlorohexane	0.453	0.516	-13.9	106	0.00
56	P	Chlorobenzene	1.152	1.124	2.4	106	0.00
57	T	1,1,1,2-Tetrachloroethane	0.342	0.363	-6.1	106	0.00
58	C	Ethylbenzene	0.627	0.624	0.5	103	0.00
59	T	m-,p-Xylene	0.789	0.796	-0.9	102	0.00
60	T	o-Xylene	0.715	0.779	-9.0	104	0.00
61	T	Styrene	1.241	1.344	-8.3	104	0.00
62	P	Bromoform	0.166	0.171	-3.0	103	0.00
63	T	Isopropylbenzene	1.854	1.912	-3.1	97	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
65	P	1,1,2,2-Tetrachloroethane	0.352	0.351	0.3	104	0.00
66	S	p-Bromofluorobenzene	0.877	2.343	-167.2#	272#	0.00
67	T	1,2,3-Trichloropropane	0.114	0.125	-9.6	108	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.098	0.019	80.6#	20#	0.06
69	T	n-Propylbenzene	3.370	3.783	-12.3	103	0.00
70	T	Bromobenzene	0.792	0.835	-5.4	104	0.00
71	T	1,3,5-Trimethylbenzene	2.497	2.779	-11.3	103	0.00
72	T	2-Chlorotoluene	2.299	2.388	-3.9	100	0.00
73	T	4-Chlorotoluene	2.312	2.414	-4.4	103	0.00
74	T	a-Methylstyrene	1.361	0.002	99.9#	0#	0.00
75	T	tert-Butylbenzene	2.342	2.437	-4.1	100	0.00
76	T	1,2,4-Trimethylbenzene	2.714	2.863	-5.5	102	0.00
77	T	sec-Butylbenzene	3.115	3.307	-6.2	98	0.00
78	T	p-Isopropyltoluene	2.794	2.927	-4.8	97	0.00
79	T	1,3-Dichlorobenzene	1.659	1.674	-0.9	102	0.00
80	T	1,4-Dichlorobenzene	1.772	1.698	4.2	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	2.425	2.537	-4.6	100	0.00
82	T	1,2-Dichlorobenzene	1.468	1.500	-2.2	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.082	0.083	-1.2	107	0.00
84	T	1,2,4-Trichlorobenzene	0.935	1.047	-12.0	106	0.00
85	T	Hexachlorobutadiene	0.442	0.438	0.9	100	0.00
86	T	Naphthalene	1.264	1.497	-18.4	108	0.00
87	T	1,2,3-Trichlorobenzene	0.796	0.896	-12.6	106	0.00

Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	20.000	17.183	14.1	97	0.02
3	P	Chloromethane	20.000	19.008	5.0	112	0.03
4	C	Vinyl Chloride	20.000	20.395	-2.0	98	0.03
5	T	Bromomethane	20.000	20.811	-4.1	109	0.03
6	T	Chloroethane	20.000	18.643	6.8	103	0.02
7	T	Trichlorofluoromethane	20.000	18.557	7.2	106	0.01
8	T	Isoprene	20.000	0.000	~~100.0#~~	0	-6.03#
9	T	Acrolein	40.000	0.000	~~100.0#~~	0	-6.22#
10	T	1,1,2-Trichloro-1,2,2-Trifl	20.000	0.000	~~100.0#~~	0	-6.27#
11	T	Acetone	20.000	18.060	9.7	111	0.02
12	C	1,1-Dichloroethene	20.000	22.725	-13.6	120	0.02
13	T	Dimethyl Sulfide	20.000	2.202	~~89.0#~~	12	-0.26
14	T	Iodomethane	20.000	27.135	-35.7#	181	0.01
15	T	Methylene Chloride	20.000	21.645	-8.2	114	0.02
16	T	Carbon Disulfide	20.000	18.707	6.5	100	0.01
17	T	Acrylonitrile	20.000	2.216	~~88.9#~~	12	0.08
18	T	Methyl Tert Butyl Ether	20.000	23.470	-17.3	120	0.00
19	T	trans-1,2-Dichloroethene	20.000	21.744	-8.7	114	0.00
20	T	n-Hexane	20.000	19.026	4.9	91	0.00
21	T	Vinyl Acetate	20.000	24.536	-22.7#	126	0.01
22	P	1,1-Dichloroethane	20.000	20.977	-4.9	112	0.00
23	T	2-Butanone	20.000	20.761	-3.8	120	0.00
24	T	2,2-Dichloropropane	20.000	17.934	10.3	103	0.00
25	T	cis-1,2-Dichloroethene	20.000	21.803	-9.0	112	0.00
26	C	Chloroform	20.000	20.225	-1.1	114	0.00
27	T	Bromochloromethane	20.000	21.543	-7.7	117	0.00
28	S	Dibromofluoromethane	10.000	25.151	~~-151.5#~~	278	0.00
29	T	1,1,1-Trichloroethane	20.000	20.527	-2.6	109	0.00
30	T	Cyclohexane	20.000	0.066	~~99.7#~~	0	-0.03
31	T	1,1-Dichloropropene	20.000	20.442	-2.2	102	0.00
32	T	Carbon Tetrachloride	20.000	20.608	-3.0	106	0.00
33	S	1,2-Dichloroethane-d4	10.000	23.551	~~-135.5#~~	263	0.00
34	T	1,2-Dichloroethane	20.000	19.872	0.6	109	0.00
35	T	Benzene	20.000	20.851	-4.3	109	0.00
36	T	Trichloroethene	20.000	20.945	-4.7	113	0.00
37	C	1,2-Dichloropropane	20.000	19.890	0.5	107	0.00
38	T	Bromodichloromethane	20.000	20.424	-2.1	111	0.00
39	T	Dibromomethane	20.000	20.682	-3.4	111	0.00
40	T	2-Chloroethyl Vinyl Ether	20.000	19.462	2.7	110	0.00
41	T	4-Methyl-2-Pentanone	20.000	19.425	2.9	107	0.00

(#) = Out of Range
6M26160.D 8260BWT.M Mon Jun 11 09:27:26 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	20.000	20.506	-2.5	113	0.00
43	T	Dimethyl Disulfide	20.000	0.000	-100.0#	0	-13.46#
44	I	Chlorobenzene-d5	25.000	25.000	0.0	106	0.00
45	S	Toluene-d8	10.000	25.679	-156.8#	267	0.00
46	C	Toluene	20.000	21.785	-8.9	106	0.00
47	T	Ethyl Methacrylate	20.000	0.282	-98.6#	1	-0.24
48	T	trans-1,3-Dichloropropene	20.000	20.368	-1.8	109	0.00
49	T	1,1,2-Trichloroethane	20.000	21.500	-7.5	111	0.00
50	T	2-Hexanone	20.000	18.897	5.5	101	0.00
51	T	1,3-Dichloropropane	20.000	21.380	-6.9	110	0.00
52	T	Tetrachloroethene	20.000	20.322	-1.6	105	0.00
53	T	Dibromochloromethane	20.000	21.570	-7.9	105	0.00
54	T	1,2-Dibromoethane	20.000	22.370	-11.9	112	0.00
55	T	1-Chlorohexane	20.000	20.543	-2.7	106	0.00
56	P	Chlorobenzene	20.000	19.529	2.4	106	0.00
57	T	1,1,1,2-Tetrachloroethane	20.000	21.214	-6.1	106	0.00
58	C	Ethylbenzene	20.000	19.902	0.5	103	0.00
59	T	m-,p-Xylene	40.000	40.372	-0.9	102	0.00
60	T	o-Xylene	20.000	21.804	-9.0	104	0.00
61	T	Styrene	20.000	21.661	-8.3	104	0.00
62	P	Bromoform	20.000	20.565	-2.8	103	0.00
63	T	Isopropylbenzene	20.000	20.622	-3.1	97	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	104	0.00
65	P	1,1,2,2-Tetrachloroethane	20.000	19.952	0.2	104	0.00
66	S	p-Bromofluorobenzene	10.000	26.716	-167.2#	272	0.00
67	T	1,2,3-Trichloropropane	20.000	21.954	-9.8	108	0.00
68	T	trans-1,4-Dichloro-2-Butene	20.000	3.803	-81.0#	20	0.06
69	T	n-Propylbenzene	20.000	22.454	-12.3	103	0.00
70	T	Bromobenzene	20.000	21.095	-5.5	104	0.00
71	T	1,3,5-Trimethylbenzene	20.000	22.255	-11.3	103	0.00
72	T	2-Chlorotoluene	20.000	20.774	-3.9	100	0.00
73	T	4-Chlorotoluene	20.000	20.878	-4.4	103	0.00
74	T	a-Methylstyrene	20.000	0.036	-99.8#	0	0.00
75	T	tert-Butylbenzene	20.000	20.811	-4.1	100	0.00
76	T	1,2,4-Trimethylbenzene	20.000	21.094	-5.5	102	0.00
77	T	sec-Butylbenzene	20.000	21.232	-6.2	98	0.00
78	T	p-Isopropyltoluene	20.000	20.954	-4.8	97	0.00
79	T	1,3-Dichlorobenzene	20.000	20.189	-0.9	102	0.00
80	T	1,4-Dichlorobenzene	20.000	19.160	4.2	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	20.000	20.922	-4.6	100	0.00
82	T	1,2-Dichlorobenzene	20.000	20.437	-2.2	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	20.000	19.139	4.3	107	0.00
84	T	1,2,4-Trichlorobenzene	20.000	22.412	-12.1	106	0.00
85	T	Hexachlorobutadiene	20.000	19.823	0.9	100	0.00
86	T	Naphthalene	20.000	20.731	-3.7	108	0.00
87	T	1,2,3-Trichlorobenzene	20.000	22.513	-12.6	106	0.00

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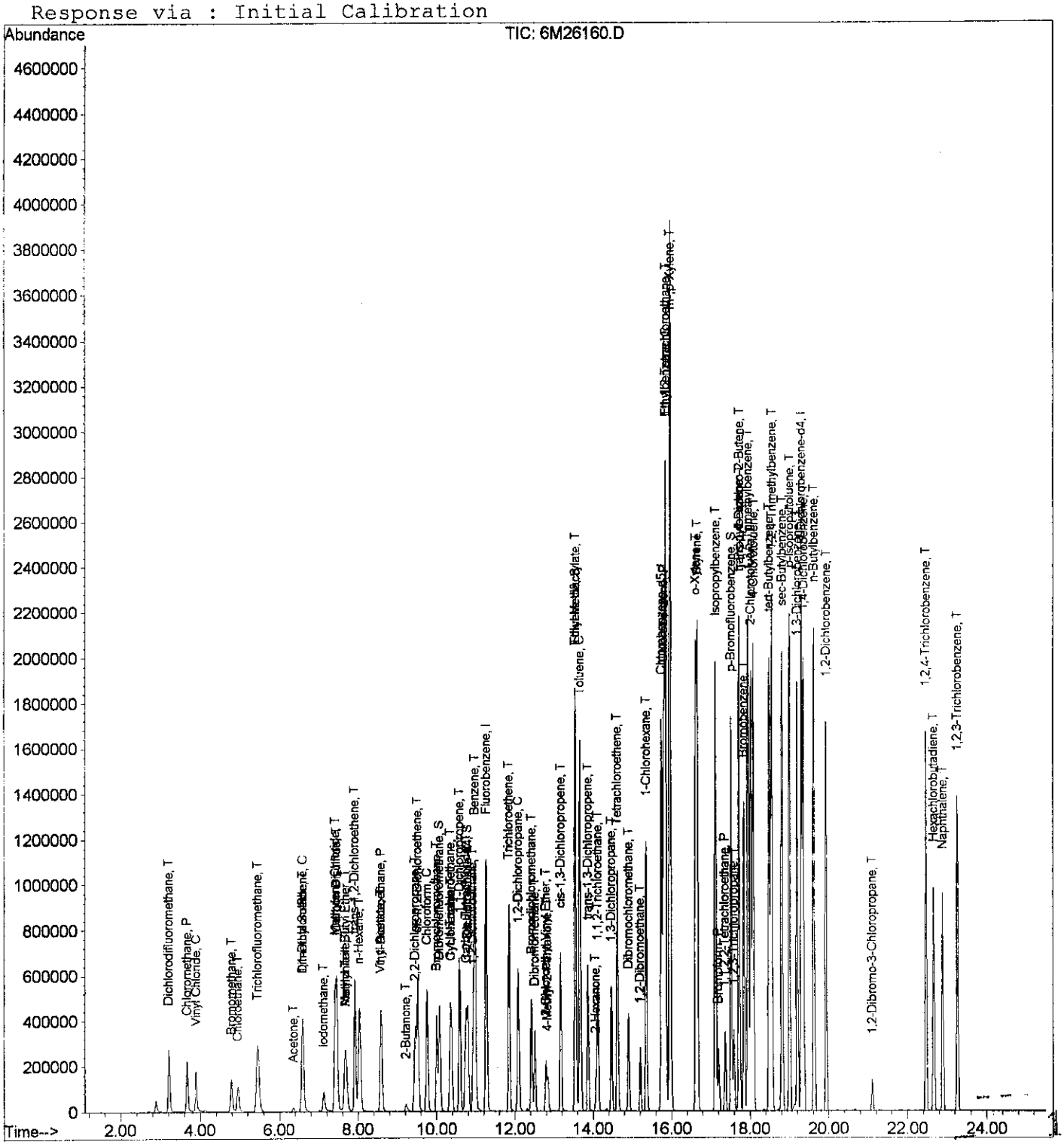
Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



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Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1594499	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1473873	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	925547	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.08	111	470720	25.15	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.60%				
33) 1,2-Dichloroethane-d4	10.80	65	431996	23.55	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.20%				
45) Toluene-d8	13.55	98	1991720	25.68	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.72%				
66) p-Bromofluorobenzene	17.52	95	867602	26.72	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 106.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	458640	17.18	ug/L		100
3) Chloromethane	3.67	50	398174	19.01	ug/L		100
4) Vinyl Chloride	3.90	62	304267	20.39	ug/L		98
5) Bromomethane	4.79	94	191061	20.81	ug/L		100
6) Chloroethane	4.95	64	197965	18.64	ug/L		97
7) Trichlorofluoromethane	5.45	101	643773	18.56	ug/L		99
11) Acetone	6.36	43	48573	18.06	ug/L		98
12) 1,1-Dichloroethene	6.59	96	321165	22.73	ug/L		97
13) Dimethyl Sulfide	6.59	62	41121	2.20	ug/L	#	1
14) Iodomethane	7.12	142	206894	27.13	ug/L		94
15) Methylene Chloride	7.42	84	377998	21.65	ug/L		96
16) Carbon Disulfide	7.46	76	1187523	18.71	ug/L		99
17) Acrylonitrile	7.67	53	7485	2.22	ug/L	#	12
18) Methyl Tert Butyl Ether	7.68	73	639151	23.47	ug/L		99
19) trans-1,2-Dichloroethene	7.92	96	374395	21.74	ug/L		98
20) n-Hexane	8.03	57	460909	19.03	ug/L		94
21) Vinyl Acetate	8.57	43	283488	24.54	ug/L		98
22) 1,1-Dichloroethane	8.59	63	668337	20.98	ug/L		97
23) 2-Butanone	9.22	43	70634	20.76	ug/L		99
24) 2,2-Dichloropropane	9.45	77	479151	17.93	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	390257	21.80	ug/L		96
26) Chloroform	9.76	83	678062	20.23	ug/L		99
27) Bromochloromethane	10.01	128	180672	21.54	ug/L		98
29) 1,1,1-Trichloroethane	10.36	97	618144	20.53	ug/L		97
30) Cyclohexane	10.37	56	1928	0.07	ug/L	#	1
31) 1,1-Dichloropropene	10.59	75	520874	20.44	ug/L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Carbon Tetrachloride	10.75	117	544305	20.61	ug/L		100
34)	1,2-Dichloroethane	10.93	62	449558	19.87	ug/L	#	82
35)	Benzene	10.98	78	1537800	20.85	ug/L		98
36)	Trichloroethene	11.85	130	479527	20.94	ug/L		96
37)	1,2-Dichloropropane	12.09	63	358304	19.89	ug/L		100
38)	Bromodichloromethane	12.43	83	489296	20.42	ug/L		99
39)	Dibromomethane	12.51	93	177253	20.68	ug/L		85
40)	2-Chloroethyl Vinyl Ether	12.79	63	127661	19.46	ug/L		97
41)	4-Methyl-2-Pentanone	12.84	58	67575	19.43	ug/L		96
42)	cis-1,3-Dichloropropene	13.17	75	552065	20.51	ug/L		99
46)	Toluene	13.67	91	1877795	21.79	ug/L		98
47)	Ethyl Methacrylate	13.56	69	4251	0.28	ug/L	#	1
48)	trans-1,3-Dichloropropene	13.87	75	472416	20.37	ug/L		99
49)	1,1,2-Trichloroethane	14.12	97	260359	21.50	ug/L		100
50)	2-Hexanone	14.07	43	114141	18.90	ug/L		99
51)	1,3-Dichloropropane	14.47	76	452214	21.38	ug/L		94
52)	Tetrachloroethene	14.62	164	393509	20.32	ug/L		92
53)	Dibromochloromethane	14.91	129	354407	21.57	ug/L		100
54)	1,2-Dibromoethane	15.21	107	272606	22.37	ug/L		100
55)	1-Chlorohexane	15.36	91	608356	20.54	ug/L		96
56)	Chlorobenzene	15.81	112	1325829	19.53	ug/L		97
57)	1,1,1,2-Tetrachloroethane	15.85	131	427884	21.21	ug/L		97
58)	Ethylbenzene	15.86	106	735188	19.90	ug/L		91
59)	m-,p-Xylene	15.97	106	1877359	40.37	ug/L		89
60)	o-Xylene	16.62	106	918877	21.80	ug/L		96
61)	Styrene	16.66	104	1584712	21.66	ug/L		96
62)	Bromoform	17.21	173	201233	20.56	ug/L		98
63)	Isopropylbenzene	17.13	105	2253913	20.62	ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.37	83	259826	19.95	ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	92600	21.95	ug/L		94
68)	trans-1,4-Dichloro-2-Buten	17.72	53	13794	3.80	ug/L	#	1
69)	n-Propylbenzene	17.73	91	2801060	22.45	ug/L		97
70)	Bromobenzene	17.85	156	618187	21.09	ug/L		99
71)	1,3,5-Trimethylbenzene	17.95	105	2057706	22.25	ug/L		98
72)	2-Chlorotoluene	18.03	91	1767967	20.77	ug/L		100
73)	4-Chlorotoluene	18.09	91	1787107	20.88	ug/L		100
75)	tert-Butylbenzene	18.49	119	1804125	20.81	ug/L		100
76)	1,2,4-Trimethylbenzene	18.56	105	2119580	21.09	ug/L		98
77)	sec-Butylbenzene	18.81	105	2448835	21.23	ug/L		98
78)	p-Isopropyltoluene	19.01	119	2167101	20.95	ug/L		98
79)	1,3-Dichlorobenzene	19.20	146	1239729	20.19	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M26160.D 8260BWT.M Mon Jun 11 09:17:48 2001 Page 165

Data File : C:\HPCHEM\1\DATA\060801\6M26160.D Vial: 14
Acq On : 9 Jun 2001 00:47 Operator: CMS
Sample : WG99096-12 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 11 9:17 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,4-Dichlorobenzene	19.36	146	1257101	19.16	ug/L		97
81)	n-Butylbenzene	19.63	91	1878368	20.92	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	1110519	20.44	ug/L		96
83)	1,2-Dibromo-3-Chloropropan	21.11	157	61739	19.14	ug/L		94
84)	1,2,4-Trichlorobenzene	22.47	180	775605	22.41	ug/L		98
85)	Hexachlorobutadiene	22.66	225	324287	19.82	ug/L	#	35
86)	Naphthalene	22.89	128	1108405	20.73	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	663436	22.51	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26160.D 8260BWT.M Mon Jun 11 09:17:49 2001 Page 166

Ical Date: 8 Jun 2001 21:59 Ical Filename: 6M26155.D Instrument: HPMS 6
CCV Date: 6/14/2001 CCV Filename: 6M26268.D

	Fluorbenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d	
	Ret. Time	Response	Ret. Time	Response	Ret. Time	Response
Ical	11.27	1545229	15.75	1443973	19.31	926190
CCV	11.27	1859019	15.75	1516590	19.31	953094
	Pass	Pass	Pass	Pass	Pass	Pass

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	120	0.00
2	T	Dichlorodifluoromethane	0.418	0.332	20.6#	104	0.01
3	P	Chloromethane	0.328	0.247	24.7#	103	0.02
4	C	Vinyl Chloride	0.273	0.176	35.5#	98	0.02
5	T	Bromomethane	0.144	0.093	35.4#	75	0.01
6	T	Chloroethane	0.166	0.139	16.3	111	0.02
7	T	Trichlorofluoromethane	0.544	0.531	2.4	120	0.01
8	T	Isoprene	0.387	0.342	11.6	99	0.01
9	T	Acrolein	0.012	0.011	8.3	105	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.278	0.284	-2.2	124	0.01
11	T	Acetone	0.042	0.040	4.8	112	0.01
12	C	1,1-Dichloroethene	0.222	0.256	-15.3	130	0.01
13	T	Dimethyl Sulfide	0.293	0.301	-2.7	117	0.00
14	T	Iodomethane	0.104	0.250	-140.4#	241#	0.00
15	T	Methylene Chloride	0.312	0.269	13.8	119	0.00
16	T	Carbon Disulfide	0.995	0.989	0.6	116	0.00
17	T	Acrylonitrile	0.053	0.054	-1.9	115	0.01
18	T	Methyl Tert Butyl Ether	0.427	0.495	-15.9	126	0.00
19	T	trans-1,2-Dichloroethene	0.270	0.300	-11.1	127	0.01
20	T	n-Hexane	0.380	0.408	-7.4	116	0.00
21	T	Vinyl Acetate	0.181	0.231	-27.6#	150	0.00
22	P	1,1-Dichloroethane	0.500	0.530	-6.0	124	0.00
23	T	2-Butanone	0.053	0.057	-7.5	123	0.00
24	T	2,2-Dichloropropane	0.367	0.456	-24.3#	131	0.00
25	T	cis-1,2-Dichloroethene	0.281	0.322	-14.6	128	0.00
26	C	Chloroform	0.526	0.526	0.0	124	0.00
27	T	Bromochloromethane	0.131	0.144	-9.9	127	0.00
28	S	Dibromofluoromethane	0.293	0.302	-3.1	126	0.00
29	T	1,1,1-Trichloroethane	0.472	0.476	-0.8	117	0.00
30	T	Cyclohexane	0.456	0.473	-3.7	116	0.00
31	T	1,1-Dichloropropene	0.400	0.421	-5.2	117	0.00
32	T	Carbon Tetrachloride	0.414	0.419	-1.2	112	0.00
33	S	1,2-Dichloroethane-d4	0.288	0.271	5.9	118	0.00
34	T	1,2-Dichloroethane	0.355	0.359	-1.1	123	0.00
35	T	Benzene	1.156	1.128	2.4	116	0.00
36	T	Trichloroethene	0.359	0.341	5.0	113	0.00
37	C	1,2-Dichloropropane	0.282	0.280	0.7	118	0.00
38	T	Bromodichloromethane	0.376	0.370	1.6	117	0.00
39	T	Dibromomethane	0.134	0.139	-3.7	123	0.00
40	T	2-Chloroethyl Vinyl Ether	0.093	0.111	-19.4	126	0.00
41	T	4-Methyl-2-Pentanone	0.055	0.056	-1.8	117	0.00

(#) = Out of Range
6M26268.D 8260BWT.M Thu Jun 14 10:58:16 2001 Page 168

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.375	0.425	-13.3	120	0.00
43	T	Dimethyl Disulfide	0.227	0.218	4.0	106	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
45	S	Toluene-d8	1.316	1.395	-6.0	110	0.00
46	C	Toluene	1.462	1.585	-8.4	108	0.00
47	T	Ethyl Methacrylate	0.255	0.286	-12.2	110	0.00
48	T	trans-1,3-Dichloropropene	0.340	0.443	-30.3#	116	0.00
49	T	1,1,2-Trichloroethane	0.205	0.230	-12.2	115	0.00
50	T	2-Hexanone	0.102	0.116	-13.7	112	0.00
51	T	1,3-Dichloropropane	0.359	0.408	-13.6	114	0.00
52	T	Tetrachloroethene	0.328	0.336	-2.4	108	0.00
53	T	Dibromochloromethane	0.279	0.320	-14.7	108	0.00
54	T	1,2-Dibromoethane	0.207	0.241	-16.4	113	0.00
55	T	1-Chlorohexane	0.453	0.524	-15.7	108	0.00
56	P	Chlorobenzene	1.152	1.106	4.0	107	0.00
57	T	1,1,1,2-Tetrachloroethane	0.342	0.373	-9.1	110	0.00
58	C	Ethylbenzene	0.627	0.626	0.2	106	0.00
59	T	m-,p-Xylene	0.789	0.790	-0.1	107	0.00
60	T	o-Xylene	0.715	0.776	-8.5	106	0.00
61	T	Styrene	1.241	1.345	-8.4	106	0.00
62	P	Bromoform	0.166	0.179	-7.8	101	0.00
63	T	Isopropylbenzene	1.854	1.998	-7.8	105	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
65	P	1,1,2,2-Tetrachloroethane	0.352	0.379	-7.7	113	0.00
66	S	p-Bromofluorobenzene	0.877	0.946	-7.9	109	0.00
67	T	1,2,3-Trichloropropane	0.114	0.124	-8.8	106	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.098	0.103	-5.1	105	0.00
69	T	n-Propylbenzene	3.370	3.743	-11.1	106	0.00
70	T	Bromobenzene	0.792	0.826	-4.3	106	0.00
71	T	1,3,5-Trimethylbenzene	2.497	2.789	-11.7	106	0.00
72	T	2-Chlorotoluene	2.299	2.405	-4.6	106	0.00
73	T	4-Chlorotoluene	2.312	2.394	-3.5	106	0.00
74	T	a-Methylstyrene	1.361	1.454	-6.8	103	0.00
75	T	tert-Butylbenzene	2.342	2.501	-6.8	106	0.00
76	T	1,2,4-Trimethylbenzene	2.714	2.885	-6.3	106	0.00
77	T	sec-Butylbenzene	3.115	3.412	-9.5	106	0.00
78	T	p-Isopropyltoluene	2.794	3.125	-11.8	106	0.00
79	T	1,3-Dichlorobenzene	1.659	1.689	-1.8	106	0.00
80	T	1,4-Dichlorobenzene	1.772	1.720	2.9	107	0.00

(#) = Out of Range
6M26268.D 8260BWT.M Thu Jun 14 10:58:18 2001 Page 69

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	2.425	2.593	-6.9	105	0.00
82	T	1,2-Dichlorobenzene	1.468	1.501	-2.2	106	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.082	0.094	-14.6	107	0.00
84	T	1,2,4-Trichlorobenzene	0.935	1.064	-13.8	106	0.00
85	T	Hexachlorobutadiene	0.442	0.473	-7.0	109	0.00
86	T	Naphthalene	1.264	1.445	-14.3	100	0.00
87	T	1,2,3-Trichlorobenzene	0.796	0.883	-10.9	103	0.00

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	120	0.00
2	T	Dichlorodifluoromethane	50.000	39.711	20.6#	104	0.01
3	P	Chloromethane	50.000	37.620	24.8#	103	0.02
4	C	Vinyl Chloride	50.000	40.125	19.8	98	0.02
5	T	Bromomethane	50.000	32.251	35.5#	75	0.01
6	T	Chloroethane	50.000	41.824	16.4	111	0.02
7	T	Trichlorofluoromethane	50.000	48.829	2.3	120	0.01
8	T	Isoprene	50.000	44.159	11.7	99	0.01
9	T	Acrolein	100.000	84.107	15.9	105	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	51.210	-2.4	124	0.01
11	T	Acetone	50.000	47.975	4.0	112	0.01
12	C	1,1-Dichloroethene	50.000	57.659	-15.3	130	0.01
13	T	Dimethyl Sulfide	50.000	51.344	-2.7	117	0.00
14	T	Iodomethane	50.000	99.266	-98.5#	241	0.00
15	T	Methylene Chloride	50.000	50.491	-1.0	119	0.00
16	T	Carbon Disulfide	50.000	49.667	0.7	116	0.00
17	T	Acrylonitrile	50.000	51.457	-2.9	115	0.01
18	T	Methyl Tert Butyl Ether	50.000	57.968	-15.9	126	0.00
19	T	trans-1,2-Dichloroethene	50.000	55.602	-11.2	127	0.01
20	T	n-Hexane	50.000	53.725	-7.5	116	0.00
21	T	Vinyl Acetate	50.000	63.693	-27.4#	150	0.00
22	P	1,1-Dichloroethane	50.000	53.011	-6.0	124	0.00
23	T	2-Butanone	50.000	48.985	2.0	123	0.00
24	T	2,2-Dichloropropane	50.000	52.599	-5.2	131	0.00
25	T	cis-1,2-Dichloroethene	50.000	57.351	-14.7	128	0.00
26	C	Chloroform	50.000	50.004	-0.0	124	0.00
27	T	Bromochloromethane	50.000	54.803	-9.6	127	0.00
28	S	Dibromofluoromethane	25.000	25.765	-3.1	126	0.00
29	T	1,1,1-Trichloroethane	50.000	50.370	-0.7	117	0.00
30	T	Cyclohexane	50.000	51.878	-3.8	116	0.00
31	T	1,1-Dichloropropene	50.000	52.743	-5.5	117	0.00
32	T	Carbon Tetrachloride	50.000	50.596	-1.2	112	0.00
33	S	1,2-Dichloroethane-d4	25.000	23.597	5.6	118	0.00
34	T	1,2-Dichloroethane	50.000	50.557	-1.1	123	0.00
35	T	Benzene	50.000	48.774	2.5	116	0.00
36	T	Trichloroethene	50.000	47.503	5.0	113	0.00
37	C	1,2-Dichloropropane	50.000	49.505	1.0	118	0.00
38	T	Bromodichloromethane	50.000	49.287	1.4	117	0.00
39	T	Dibromomethane	50.000	51.877	-3.8	123	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	52.133	-4.3	126	0.00
41	T	4-Methyl-2-Pentanone	50.000	51.226	-2.5	117	0.00

(#) = Out of Range
6M26268.D 8260BWT.M Thu Jun 14 10:58:07 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	50.317	-0.6	120	0.00
43	T	Dimethyl Disulfide	50.000	47.852	4.3	106	0.00
44	I	Chlorobenzene-d5	25.000	25.000	0.0	105	0.00
45	S	Toluene-d8	25.000	26.511	-6.0	110	0.00
46	C	Toluene	50.000	54.198	-8.4	108	0.00
47	T	Ethyl Methacrylate	50.000	55.991	-12.0	110	0.00
48	T	trans-1,3-Dichloropropene	50.000	56.794	-13.6	116	0.00
49	T	1,1,2-Trichloroethane	50.000	56.077	-12.2	115	0.00
50	T	2-Hexanone	50.000	56.676	-13.4	112	0.00
51	T	1,3-Dichloropropane	50.000	56.806	-13.6	114	0.00
52	T	Tetrachloroethene	50.000	51.206	-2.4	108	0.00
53	T	Dibromochloromethane	50.000	57.478	-15.0	108	0.00
54	T	1,2-Dibromoethane	50.000	58.242	-16.5	113	0.00
55	T	1-Chlorohexane	50.000	54.038	-8.1	108	0.00
56	P	Chlorobenzene	50.000	48.008	4.0	107	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	54.537	-9.1	110	0.00
58	C	Ethylbenzene	50.000	49.947	0.1	106	0.00
59	T	m-,p-Xylene	100.000	100.164	-0.2	107	0.00
60	T	o-Xylene	50.000	54.311	-8.6	106	0.00
61	T	Styrene	50.000	54.190	-8.4	106	0.00
62	P	Bromoform	50.000	53.803	-7.6	101	0.00
63	T	Isopropylbenzene	50.000	53.880	-7.8	105	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	103	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	53.846	-7.7	113	0.00
66	S	p-Bromofluorobenzene	25.000	26.952	-7.8	109	0.00
67	T	1,2,3-Trichloropropane	50.000	54.513	-9.0	106	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	52.660	-5.3	105	0.00
69	T	n-Propylbenzene	50.000	55.542	-11.1	106	0.00
70	T	Bromobenzene	50.000	52.161	-4.3	106	0.00
71	T	1,3,5-Trimethylbenzene	50.000	55.832	-11.7	106	0.00
72	T	2-Chlorotoluene	50.000	52.318	-4.6	106	0.00
73	T	4-Chlorotoluene	50.000	51.775	-3.5	106	0.00
74	T	a-Methylstyrene	50.000	53.428	-6.9	103	0.00
75	T	tert-Butylbenzene	50.000	53.398	-6.8	106	0.00
76	T	1,2,4-Trimethylbenzene	50.000	53.148	-6.3	106	0.00
77	T	sec-Butylbenzene	50.000	54.758	-9.5	106	0.00
78	T	p-Isopropyltoluene	50.000	55.939	-11.9	106	0.00
79	T	1,3-Dichlorobenzene	50.000	50.908	-1.8	106	0.00
80	T	1,4-Dichlorobenzene	50.000	48.538	2.9	107	0.00

(#) = Out of Range
6M26268.D 8260BWT.M Thu Jun 14 10:58:08 2001 Page 2

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p

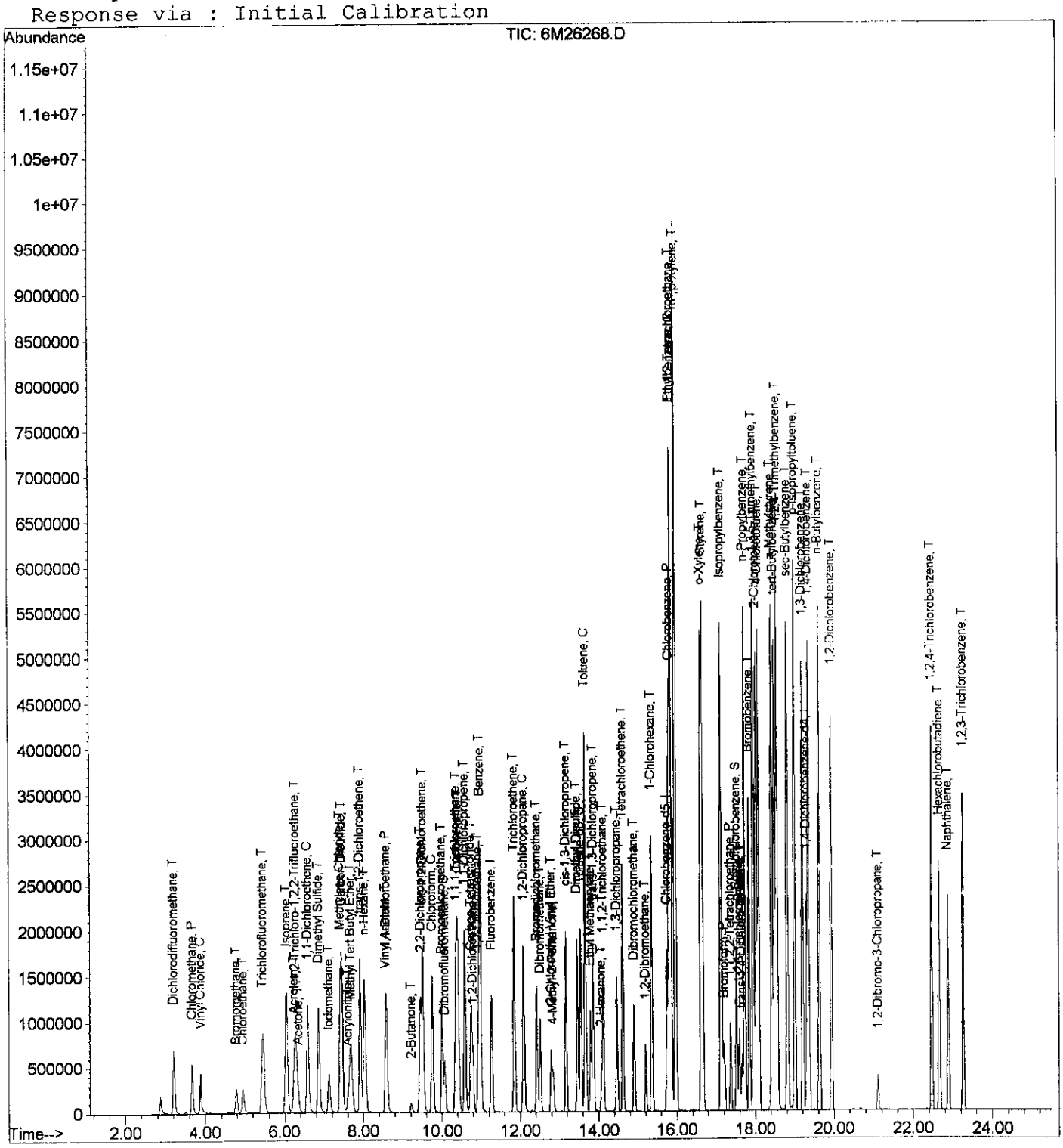
Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	53.462	-6.9	105	0.00
82	T	1,2-Dichlorobenzene	50.000	51.147	-2.3	106	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	49.716	0.6	107	0.00
84	T	1,2,4-Trichlorobenzene	50.000	56.919	-13.8	106	0.00
85	T	Hexachlorobutadiene	50.000	53.494	-7.0	109	0.00
86	T	Naphthalene	50.000	52.482	-5.0	100	0.00
87	T	1,2,3-Trichlorobenzene	50.000	55.436	-10.9	103	0.00

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:55 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:55 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1859019	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1516590	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	953094	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.08	111	562198	25.76	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.04%				
33) 1,2-Dichloroethane-d4	10.80	65	504651	23.60	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.40%				
45) Toluene-d8	13.55	98	2115887	26.51	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.04%				
66) p-Bromofluorobenzene	17.52	95	901304	26.95	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 107.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	1235797	39.71	ug/L		100
3) Chloromethane	3.66	50	918764	37.62	ug/L		100
4) Vinyl Chloride	3.89	62	655574	40.12	ug/L		98
5) Bromomethane	4.78	94	345202	32.25	ug/L		99
6) Chloroethane	4.95	64	517778	41.82	ug/L		97
7) Trichlorofluoromethane	5.45	101	1975012	48.83	ug/L		99
8) Isoprene	6.04	67	1270575	44.16	ug/L		94
9) Acrolein	6.24	56	84089	84.11	ug/L		98
10) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	1056909	51.21	ug/L		97
11) Acetone	6.35	43	150433	47.98	ug/L		99
12) 1,1-Dichloroethene	6.59	96	950038	57.66	ug/L		96
13) Dimethyl Sulfide	6.86	62	1118119	51.34	ug/L	#	1
14) Iodomethane	7.12	142	928480	99.27	ug/L		94
15) Methylene Chloride	7.41	84	1001530	50.49	ug/L		92
16) Carbon Disulfide	7.46	76	3676011	49.67	ug/L		99
17) Acrylonitrile	7.61	53	202600	51.46	ug/L		96
18) Methyl Tert Butyl Ether	7.68	73	1840543	57.97	ug/L		100
19) trans-1,2-Dichloroethene	7.92	96	1116182	55.60	ug/L		96
20) n-Hexane	8.04	57	1517427	53.73	ug/L		94
21) Vinyl Acetate	8.56	43	857991	63.69	ug/L		97
22) 1,1-Dichloroethane	8.59	63	1969151	53.01	ug/L		98
23) 2-Butanone	9.22	43	211843	48.99	ug/L		97
24) 2,2-Dichloropropane	9.45	77	1696603	52.60	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	1196856	57.35	ug/L		95
26) Chloroform	9.75	83	1954531	50.00	ug/L		99
27) Bromochloromethane	10.00	128	535853	54.80	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26268.D 8260BWT.M Thu Jun 14 10:55:52 2001 Page 175

Data File : C:\HPCHEM\1\DATA\061401\6M26268.D
Acq On : 14 Jun 2001 10:30
Sample : WG99379-02 50 PPB STD 8260
Misc : 1,1 SV8030
MS Integration Params: rteint.p
Quant Time: Jun 14 10:55 2001

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00
Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	1768469	50.37	ug/L		98
30) Cyclohexane	10.41	56	1758879	51.88	ug/L		96
31) 1,1-Dichloropropene	10.59	75	1566897	52.74	ug/L		95
32) Carbon Tetrachloride	10.75	117	1558097	50.60	ug/L		99
34) 1,2-Dichloroethane	10.93	62	1333486	50.56	ug/L	#	84
35) Benzene	10.98	78	4193897	48.77	ug/L		97
36) Trichloroethene	11.85	130	1268012	47.50	ug/L		94
37) 1,2-Dichloropropane	12.09	63	1039740	49.50	ug/L		100
38) Bromodichloromethane	12.43	83	1376644	49.29	ug/L		100
39) Dibromomethane	12.51	93	518373	51.88	ug/L		85
40) 2-Chloroethyl Vinyl Ether	12.79	63	412349	52.13	ug/L		98
41) 4-Methyl-2-Pentanone	12.83	58	207763	51.23	ug/L		98
42) cis-1,3-Dichloropropene	13.17	75	1579651	50.32	ug/L		98
43) Dimethyl Disulfide	13.46	79	808815	47.85	ug/L		99
46) Toluene	13.66	91	4807104	54.20	ug/L		98
47) Ethyl Methacrylate	13.80	69	867353	55.99	ug/L		98
48) trans-1,3-Dichloropropene	13.87	75	1343722	56.79	ug/L		98
49) 1,1,2-Trichloroethane	14.11	97	698771	56.08	ug/L		99
50) 2-Hexanone	14.07	43	352246	56.68	ug/L		95
51) 1,3-Dichloropropane	14.47	76	1236369	56.81	ug/L		93
52) Tetrachloroethene	14.62	164	1020245	51.21	ug/L		92
53) Dibromochloromethane	14.91	129	971737	57.48	ug/L		99
54) 1,2-Dibromoethane	15.20	107	730341	58.24	ug/L		100
55) 1-Chlorohexane	15.35	91	1589409	54.04	ug/L		93
56) Chlorobenzene	15.81	112	3353760	48.01	ug/L		96
57) 1,1,1,2-Tetrachloroethane	15.84	131	1131872	54.54	ug/L		98
58) Ethylbenzene	15.85	106	1898513	49.95	ug/L		95
59) m-,p-Xylene	15.97	106	4792760	100.16	ug/L		92
60) o-Xylene	16.62	106	2355179	54.31	ug/L		98
61) Styrene	16.66	104	4079434	54.19	ug/L		96
62) Bromoform	17.20	173	541742	53.80	ug/L		98
63) Isopropylbenzene	17.13	105	6059701	53.88	ug/L		98
65) 1,1,2,2-Tetrachloroethane	17.37	83	722087	53.85	ug/L		99
67) 1,2,3-Trichloropropane	17.59	110	236780	54.51	ug/L		96
68) trans-1,4-Dichloro-2-Buten	17.65	53	196695	52.66	ug/L		98
69) n-Propylbenzene	17.72	91	7134807	55.54	ug/L		98
70) Bromobenzene	17.84	156	1574090	52.16	ug/L		99
71) 1,3,5-Trimethylbenzene	17.95	105	5315918	55.83	ug/L		99
72) 2-Chlorotoluene	18.03	91	4585148	52.32	ug/L		99
73) 4-Chlorotoluene	18.09	91	4563808	51.77	ug/L		99
74) a-Methylstyrene	18.42	118	2771898	53.43	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M26268.D 8260BWT.M Thu Jun 14 10:55:53 2001 Page 2

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Data File : C:\HPCHEM\1\DATA\061401\6M26268.D Vial: 2
Acq On : 14 Jun 2001 10:30 Operator: CMS
Sample : WG99379-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV8030 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:55 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.49	119	4766974	53.40	ug/L		100
76)	1,2,4-Trimethylbenzene	18.55	105	5499430	53.15	ug/L		99
77)	sec-Butylbenzene	18.81	105	6503396	54.76	ug/L		99
78)	p-Isopropyltoluene	19.00	119	5957461	55.94	ug/L		98
79)	1,3-Dichlorobenzene	19.20	146	3219110	50.91	ug/L		96
80)	1,4-Dichlorobenzene	19.36	146	3279333	48.54	ug/L		97
81)	n-Butylbenzene	19.62	91	4942577	53.46	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	2861996	51.15	ug/L		96
83)	1,2-Dibromo-3-Chloropropan	21.11	157	178823	49.72	ug/L		92
84)	1,2,4-Trichlorobenzene	22.47	180	2028430	56.92	ug/L		98
85)	Hexachlorobutadiene	22.66	225	901156	53.49	ug/L	#	35
86)	Naphthalene	22.88	128	2754116	52.48	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	1682293	55.44	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26268.D 8260BWT.M Thu Jun 14 10:55:53 2001 Page 3

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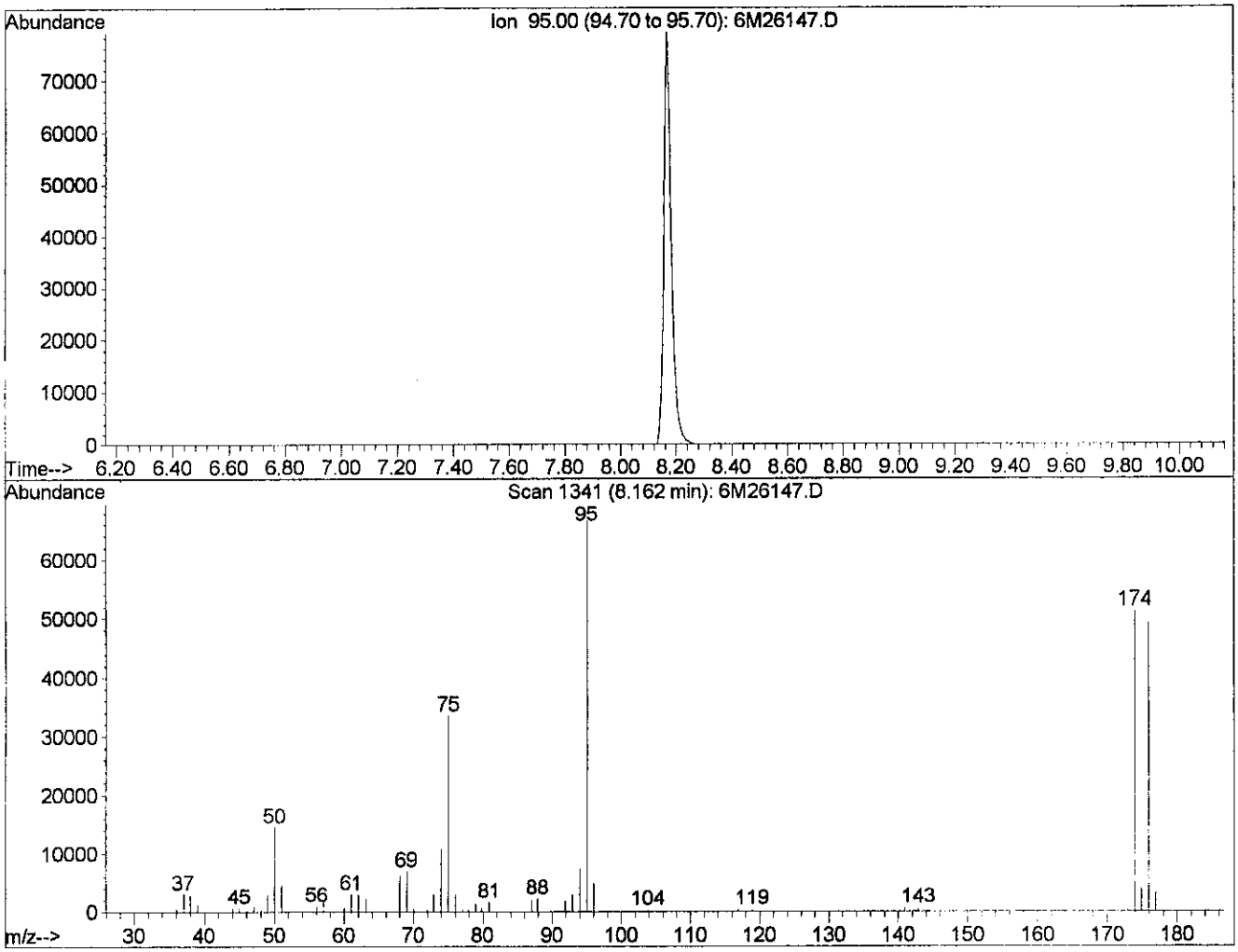
2.1.1.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\060801\6M26147.D Vial: 1
Acq On : 8 Jun 2001 16:41 Operator: CMS
Sample : WG99096-01 50NG BFB STD Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6



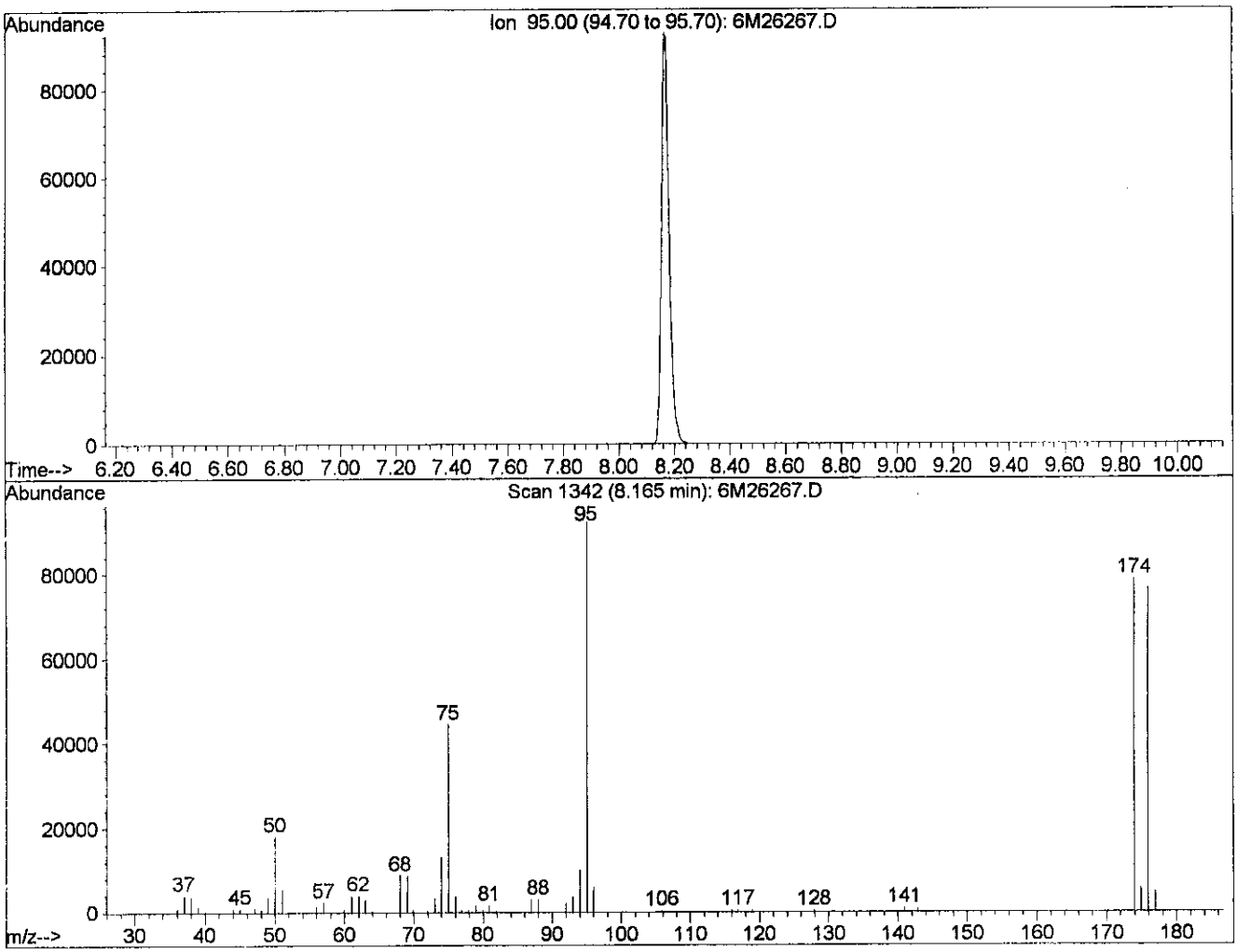
Spectrum Information: Scan 1341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	14530	PASS
75	95	30	60	50.4	33472	PASS
95	95	100	100	100.0	66456	PASS
96	95	5	9	7.4	4891	PASS
173	174	0.00	2	0.9	466	PASS
174	95	50	100	77.0	51184	PASS
175	174	5	9	7.6	3913	PASS
176	174	95	101	95.9	49104	PASS
177	176	5	9	6.4	3132	PASS

6M26147.D 8260BWT.M Mon Jun 11 08:03:53 2001

179

Data File : C:\HPCHEM\1\DATA\061401\6M26267.D Vial: 1
Acq On : 14 Jun 2001 10:00 Operator: CMS
Sample : WG99379-01 BFB 50NG STD 8260 Inst : HPMS6
Misc : 1,1 SV8032 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6



Spectrum Information: Scan 1342

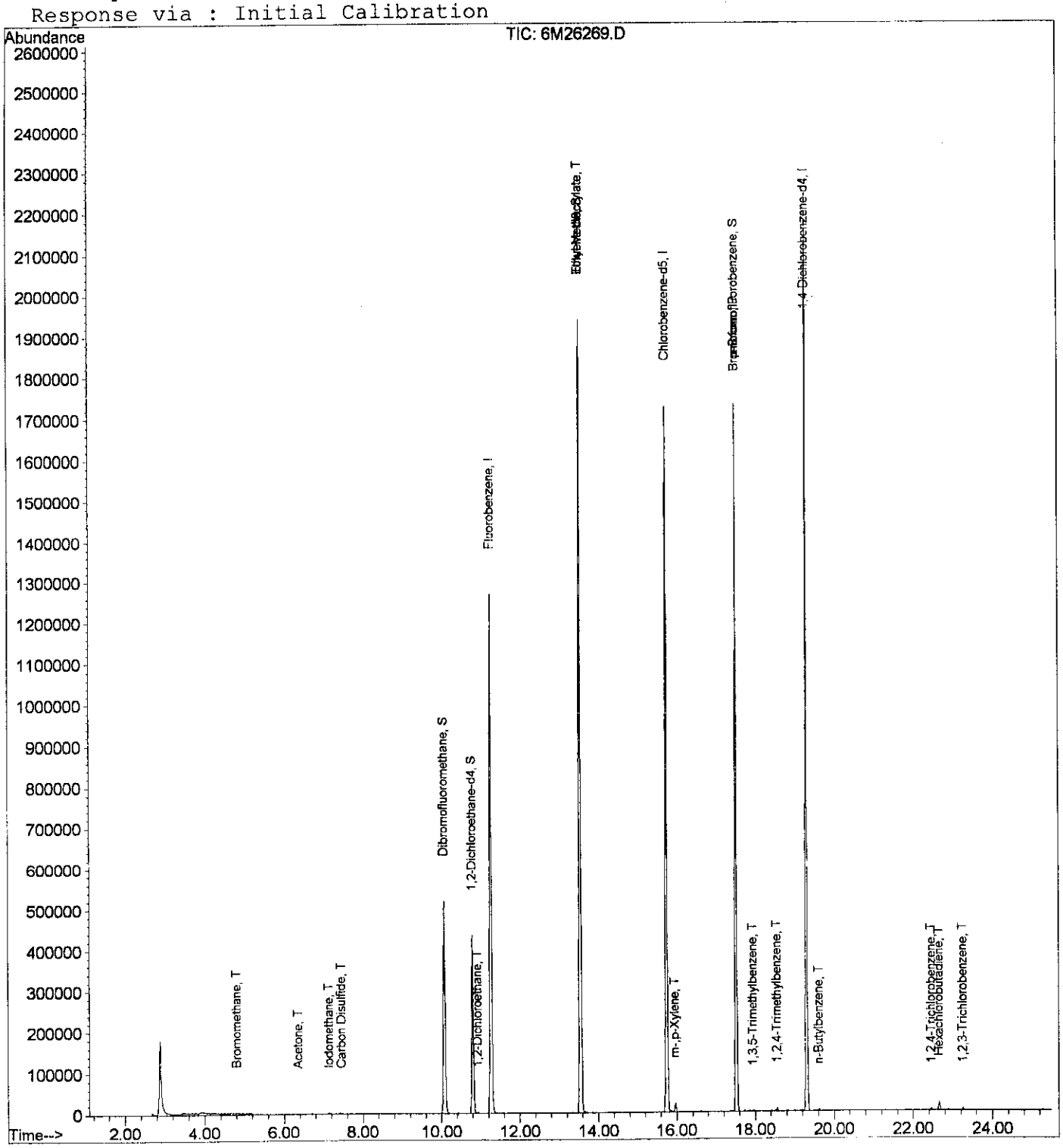
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	18048	PASS
75	95	30	60	48.1	44400	PASS
95	95	100	100	100.0	92336	PASS
96	95	5	9	6.5	6022	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.1	78616	PASS
175	174	5	9	7.2	5632	PASS
176	174	95	101	97.4	76592	PASS
177	176	5	9	6.2	4781	PASS

6M26267.D 8260BWT.M Thu Jun 14 10:10:45 2001

180

Data File : C:\HPCHEM\1\DATA\061401\6M26269.D Vial: 3
Acq On : 14 Jun 2001 11:14 Operator: CMS
Sample : WG99379-03 VBLK0614 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:39 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061401\6M26269.D Vial: 3
Acq On : 14 Jun 2001 11:14 Operator: CMS
Sample : WG99379-03 VBLK0614 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:39 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1814559	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1491029	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	880282	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	517017	24.27	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.08%			
33) 1,2-Dichloroethane-d4	10.80	65	460082	22.04	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 88.16%			
45) Toluene-d8	13.54	98	2058888	26.24	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.96%			
66) p-Bromofluorobenzene	17.51	95	860585	27.86	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 111.44%			
Target Compounds						Qvalue
5) Bromomethane	4.80	94	2681	~~0.26 ug/L~~	#	74
11) Acetone	6.37	43	3137	~~1.02 ug/L~~	#	46
14) Iodomethane	7.14	142	7066	2.58 ug/L	#F	82
15) Methylene Chloride	7.42	84	1157	~~0.96 ug/L~~		77
16) Carbon Disulfide	7.46	76	3921	0.05 ug/L	#	74
34) 1,2-Dichloroethane	10.93	62	3104	0.12 ug/L	#	83
47) Ethyl Methacrylate	13.55	69	4026	~~0.26 ug/L~~	#	1
59) m-,p-Xylene	15.96	106	10971	0.23 ug/L		92
62) Bromoform	17.51	173	1391	~~0.14 ug/L~~	#	1
71) 1,3,5-Trimethylbenzene	17.95	105	4845	~~0.06 ug/L~~		93
76) 1,2,4-Trimethylbenzene	18.55	105	9979	~~0.10 ug/L~~		95
81) n-Butylbenzene	19.63	91	5095	~~0.06 ug~~/L		97
84) 1,2,4-Trichlorobenzene	22.46	180	3555	~~0.11 ug/L~~	#	93
85) Hexachlorobutadiene	22.66	225	8354	0.54 ug/L	#F	39
86) Naphthalene	22.88	128	5688	~~1.62 ug/L~~	#	75
87) 1,2,3-Trichlorobenzene	23.26	180	3855	~~0.14 ug/L~~	#	89

(#) = qualifier out of range (m) = manual integration
6M26269.D 8260BWT.M Thu Jun 14 11:39:53 2001 Page 1

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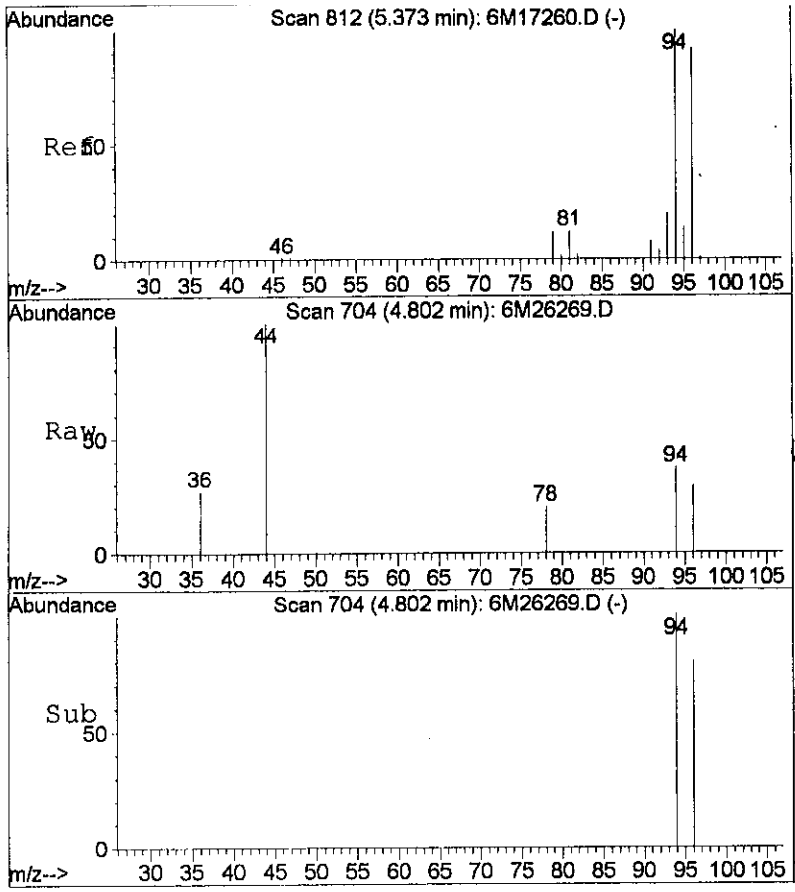
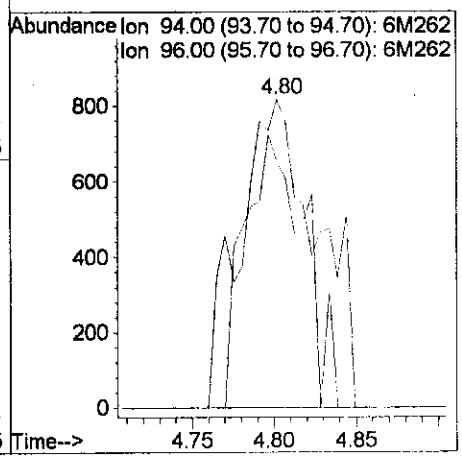
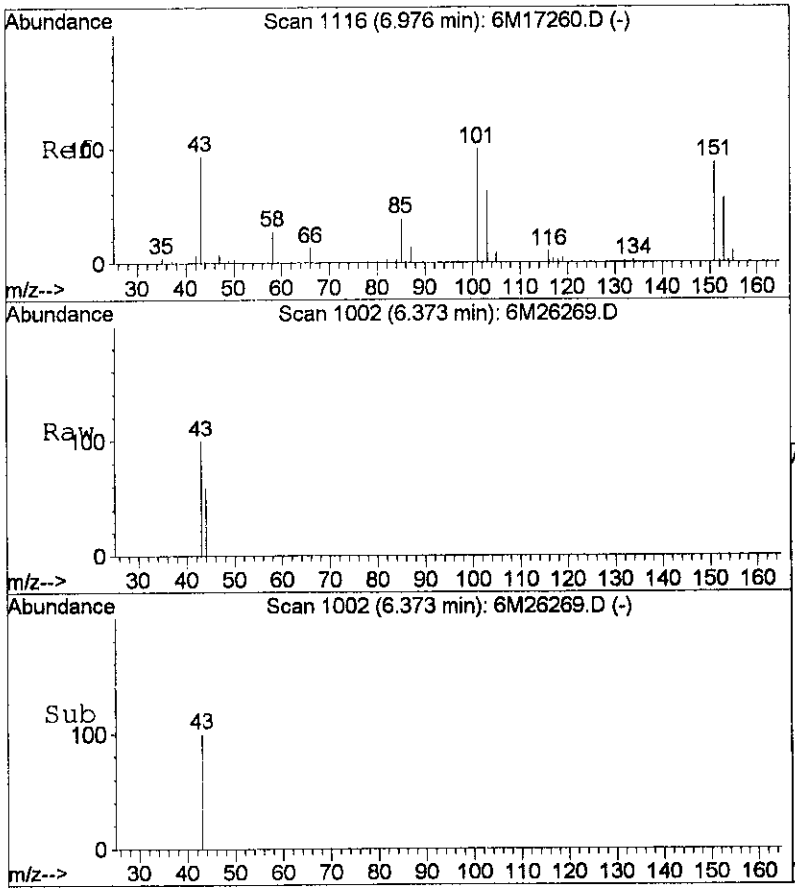


#5
Bromomethane
Concen: 0.26 ug/L
RT: 4.80 min Scan# 704
Delta R.T. 0.04 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 94 Resp: 2681

Ion	Ratio	Lower	Upper
94	100		
96	68.5	75.1	112.7#

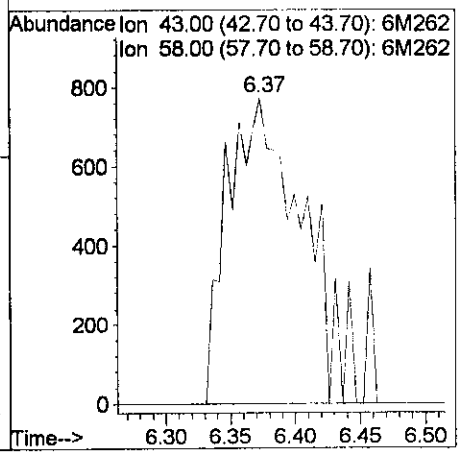


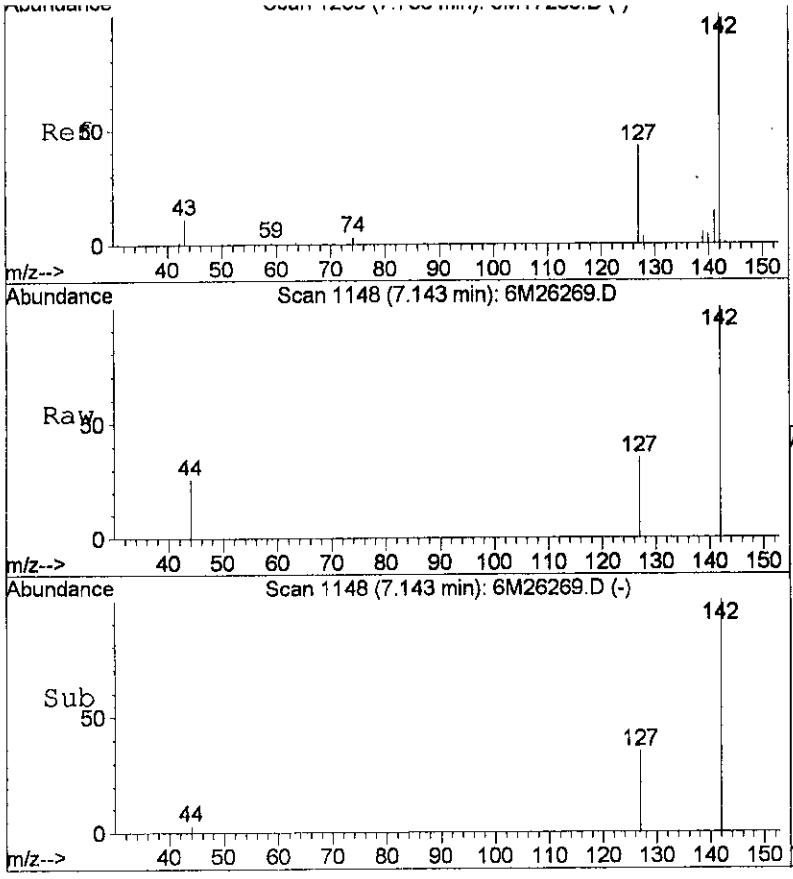


#11
Acetone
Concen: 1.02 ug/L
RT: 6.37 min Scan# 1002
Delta R.T. 0.03 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 43 Resp: 3137

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

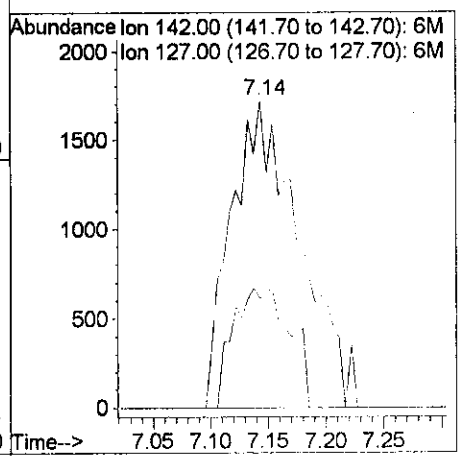


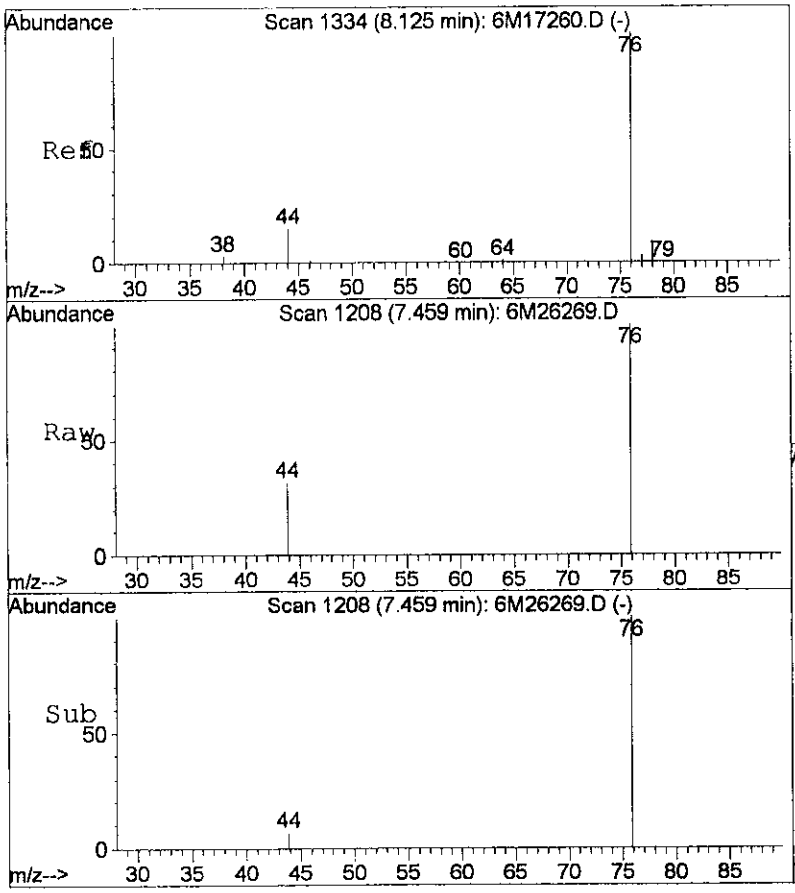


Iodomethane
Concen: 2.58 ug/L
RT: 7.14 min Scan# 1148
Delta R.T. 0.03 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:142 Resp: 7066

Ion	Ratio	Lower	Upper
142	100		
127	32.3	35.4	53.0#

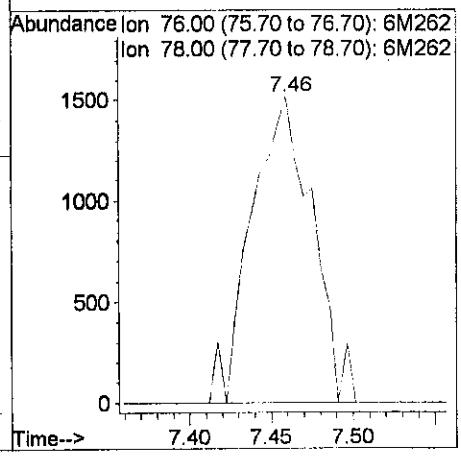


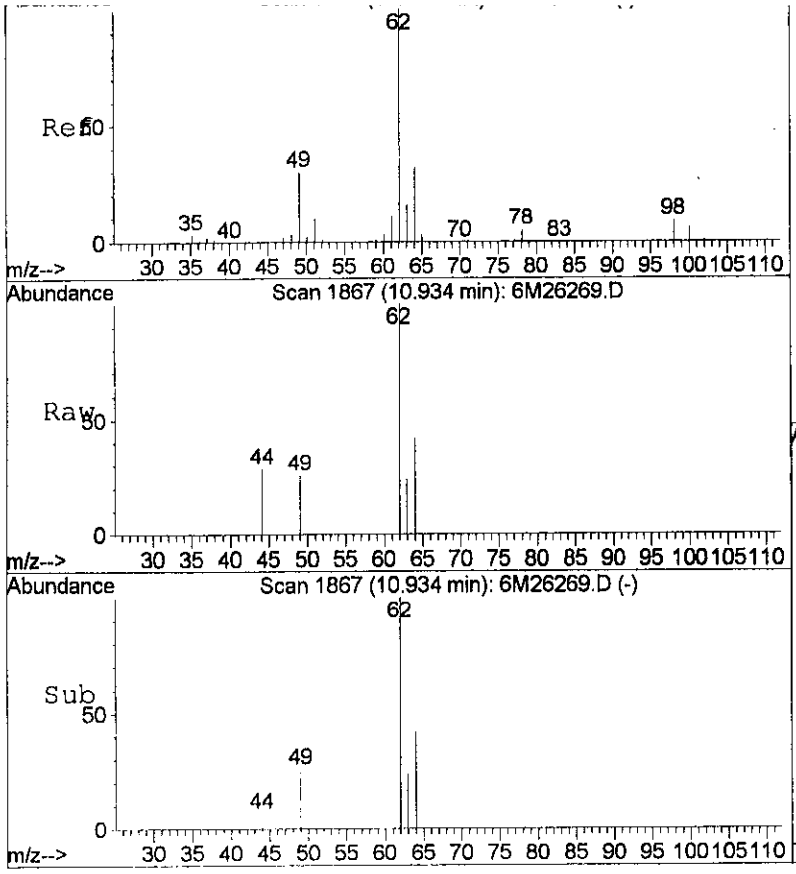


#16
Carbon Disulfide
Concen: 0.05 ug/L
RT: 7.46 min Scan# 1208
Delta R.T. 0.01 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 76 Resp: 3921

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.5	11.3#

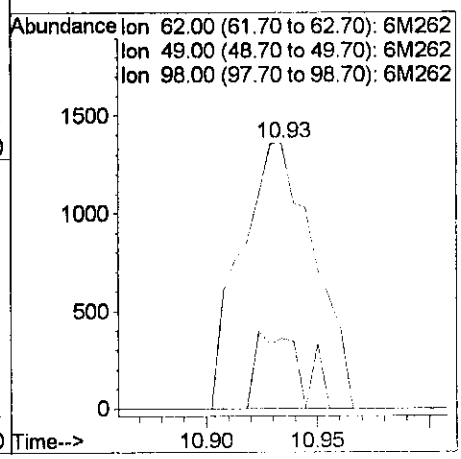


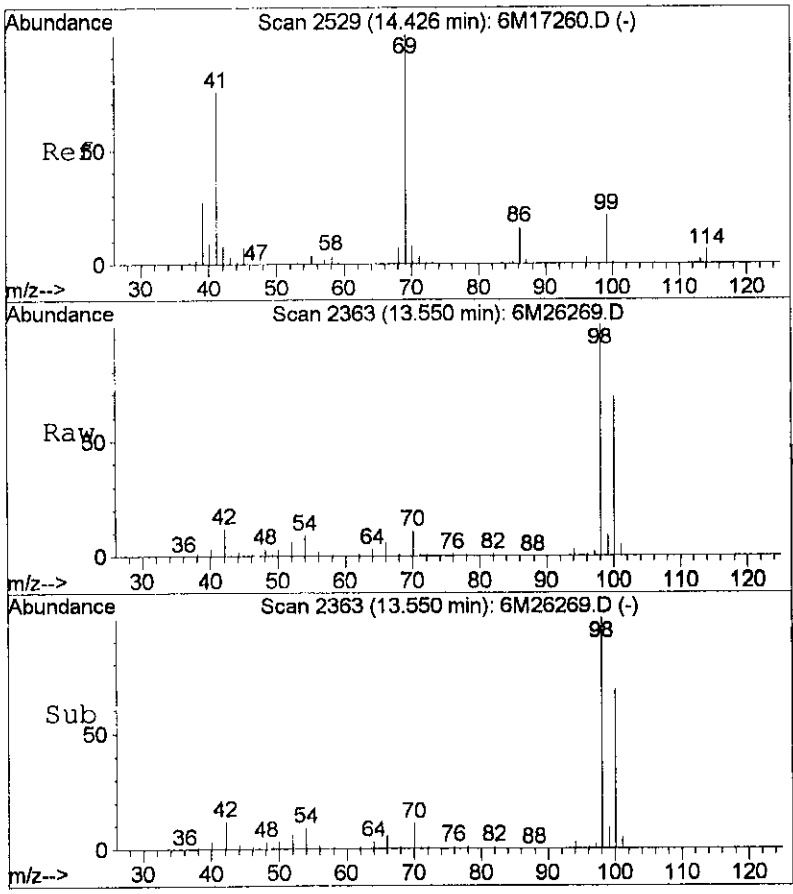


1,2-Dichloroethane
Concen: 0.12 ug/L
RT: 10.93 min Scan# 1867
Delta R.T. 0.01 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 62 Resp: 3104

Ion	Ratio	Lower	Upper
62	100		
49	17.9	19.1	28.7#
98	0.0	8.0	12.0#

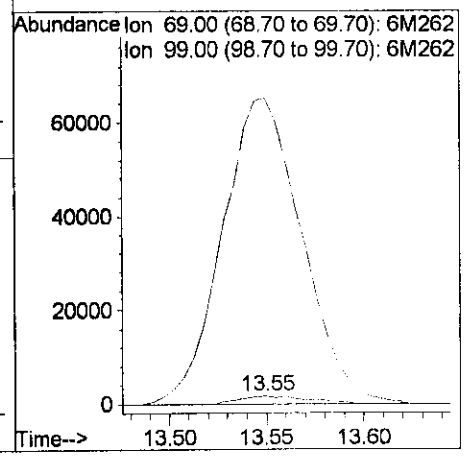


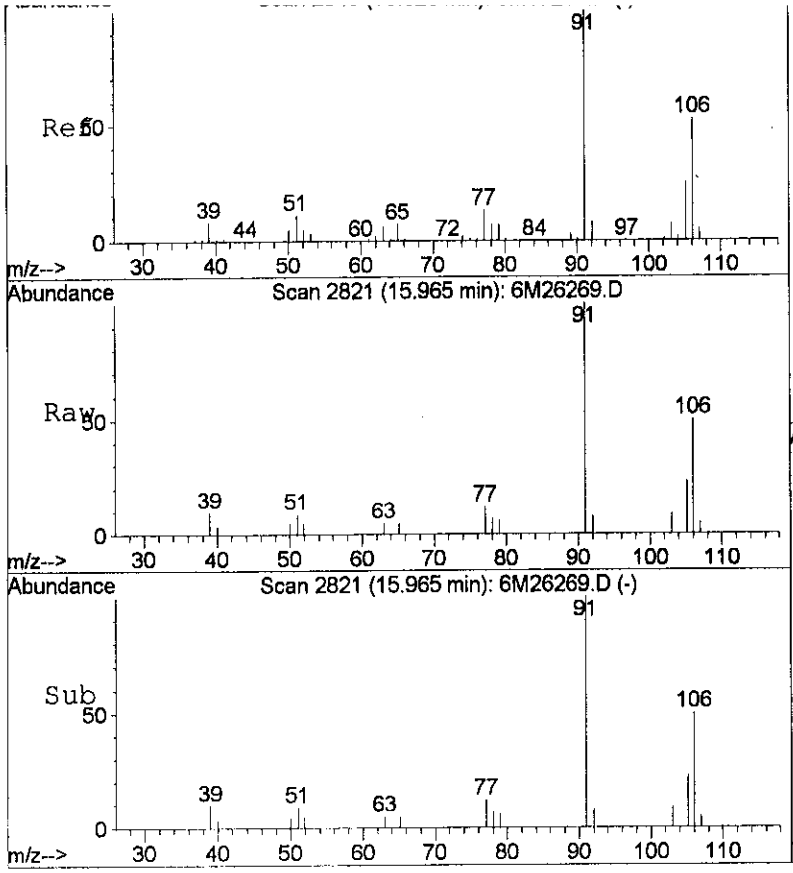


#47
Ethyl Methacrylate
Concen: 0.26 ug/L
RT: 13.55 min Scan# 2363
Delta R.T. -0.25 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 69 Resp: 4026

Ion	Ratio	Lower	Upper
69	100		
99	4615.9	16.6	24.8#

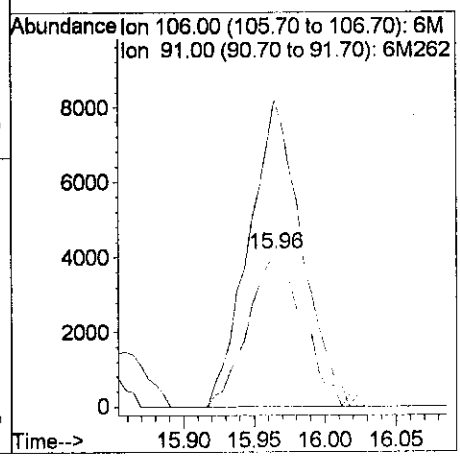


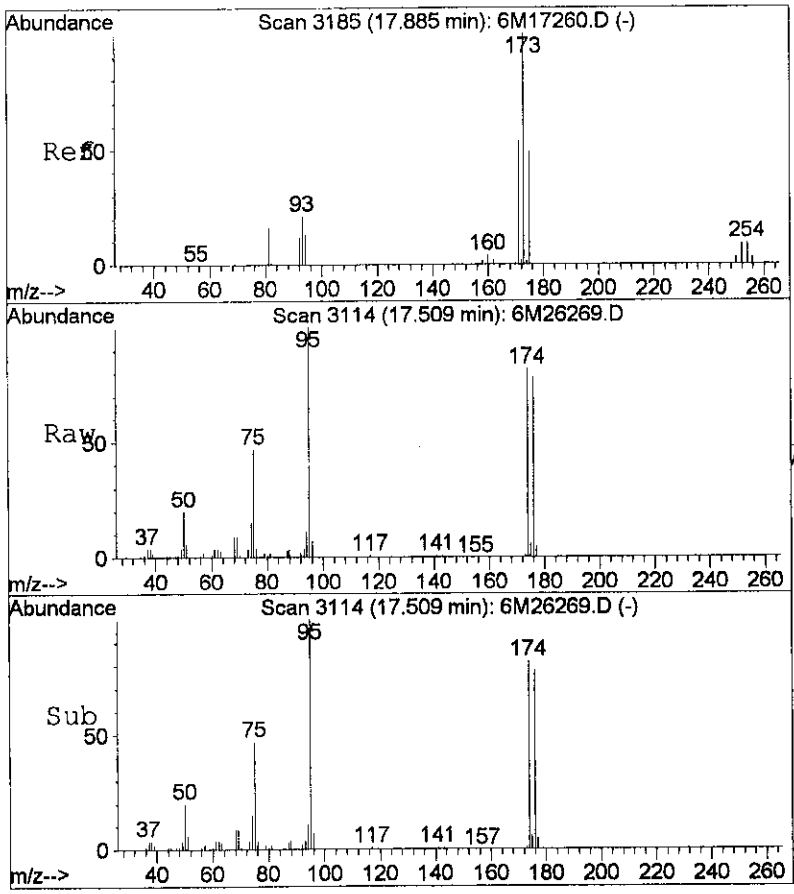


m-,p-Xylene
Concen: 0.23 ug/L
RT: 15.96 min Scan# 2821
Delta R.T. -0.00 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:106 Resp: 10971

Ion	Ratio	Lower	Upper
106	100		
91	194.5	146.8	220.2

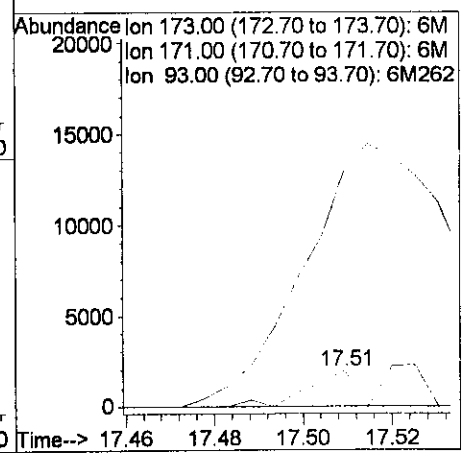


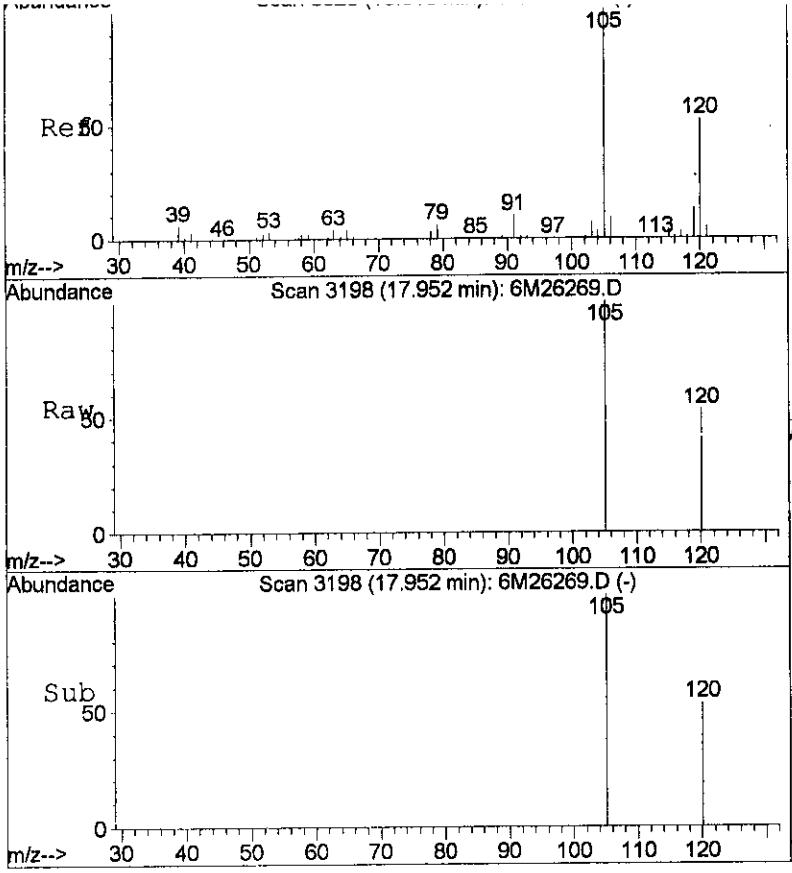


#62
Bromoform
Concen: 0.14 ug/L
RT: 17.51 min Scan# 3114
Delta R.T. 0.30 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:173 Resp: 1391

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	2465.9	18.2	27.2#

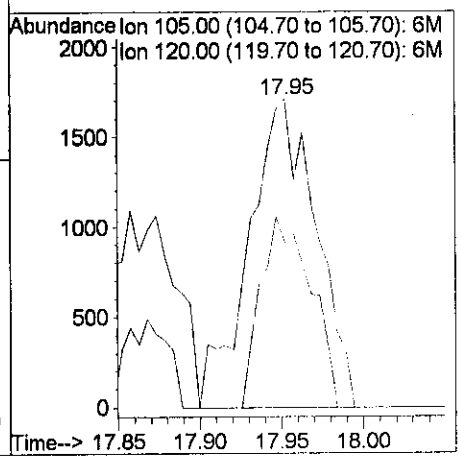


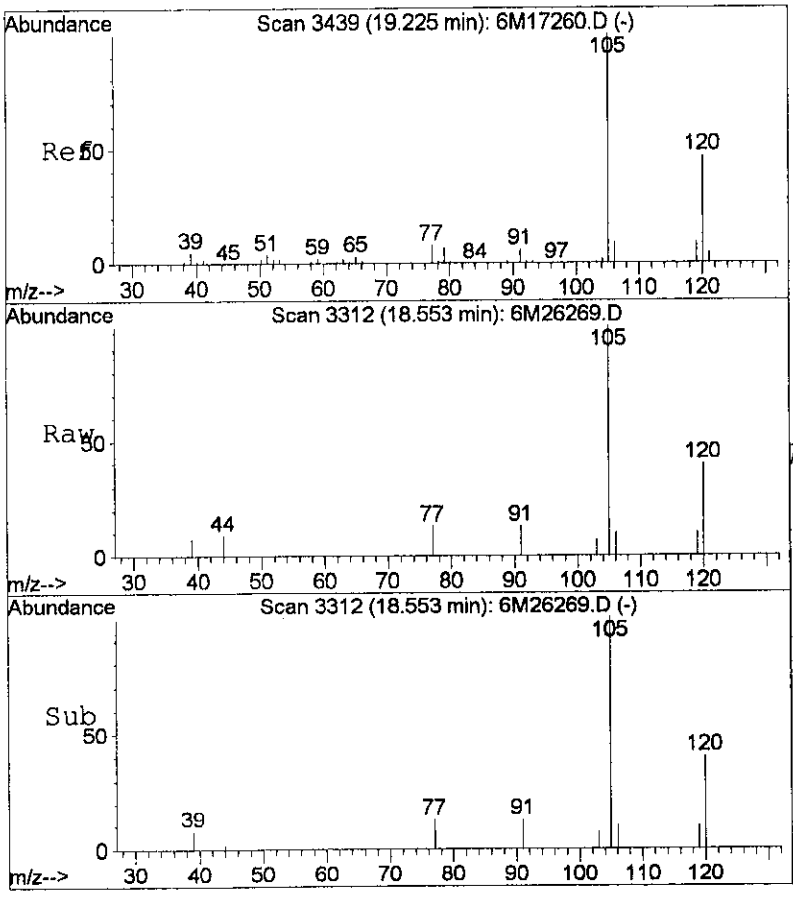


1,3,5-Trimethylbenzene
Concen: 0.06 ug/L
RT: 17.95 min Scan# 3198
Delta R.T. -0.00 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:105 Resp: 4845

Ion	Ratio	Lower	Upper
105	100		
120	46.4	40.9	61.3

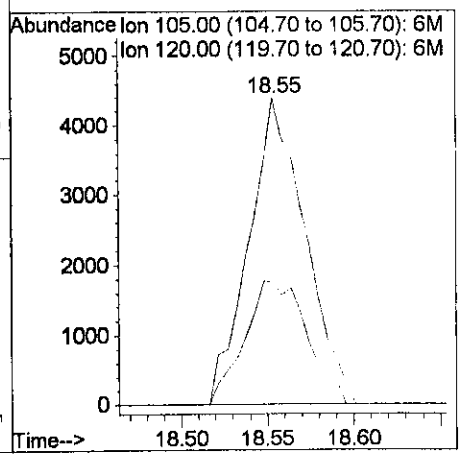


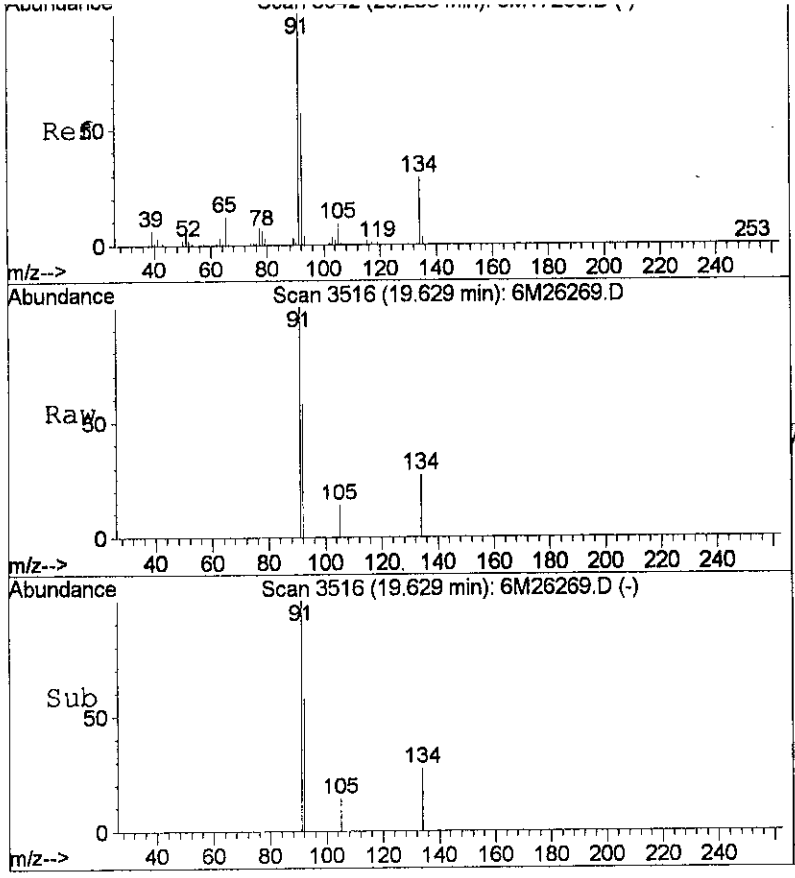


#76
1,2,4-Trimethylbenzene
Concen: 0.10 ug/L
RT: 18.55 min Scan# 3312
Delta R.T. -0.01 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:105 Resp: 9979

Ion	Ratio	Lower	Upper
105	100		
120	44.8	38.7	58.1

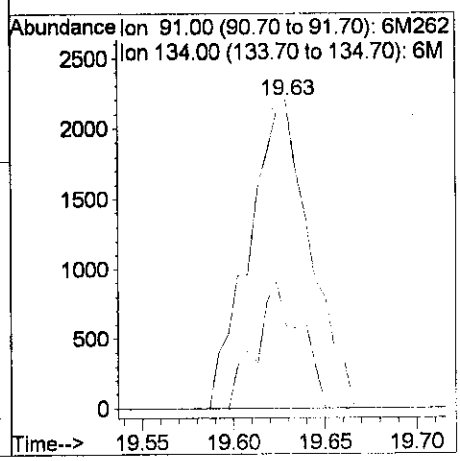


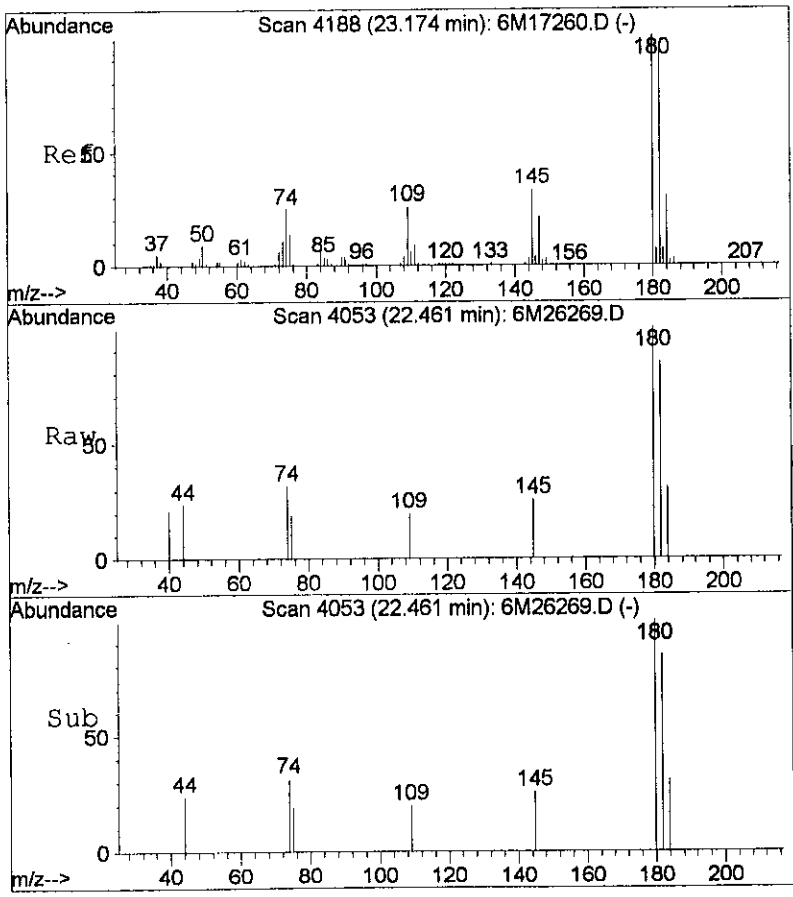


n-Butylbenzene
Concen: 0.06 ug/L
RT: 19.63 min Scan# 3516
Delta R.T. -0.00 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion: 91 Resp: 5095

Ion	Ratio	Lower	Upper
91	100		
134	30.0	23.0	34.4

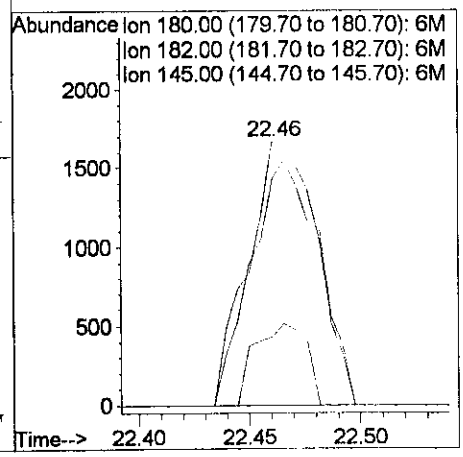


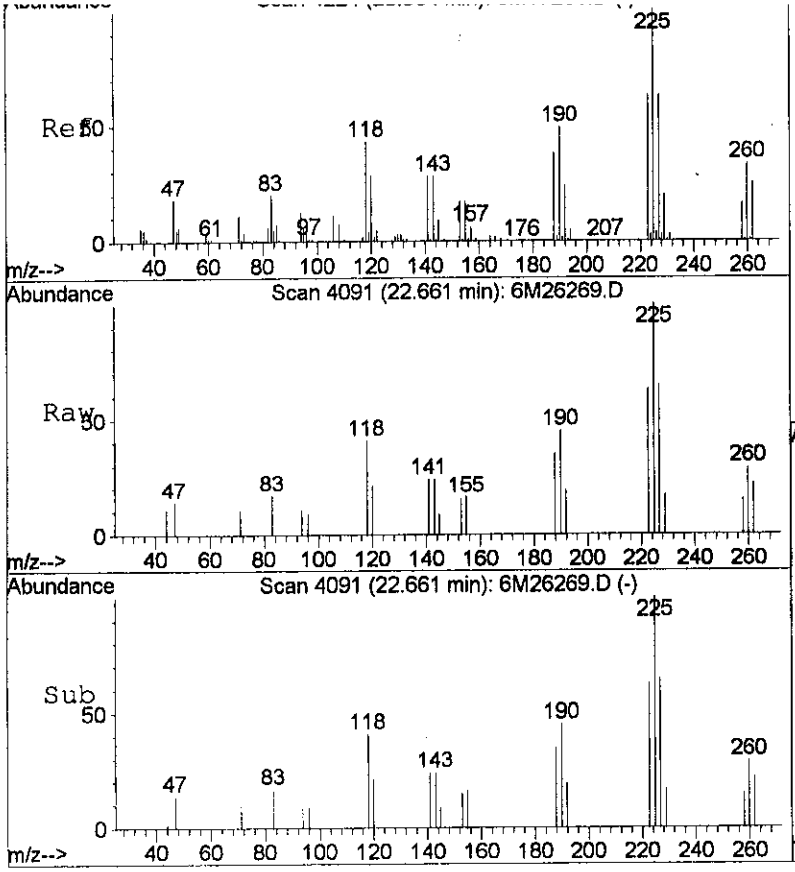


#84
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 22.46 min Scan# 4053
Delta R.T. -0.01 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:180 Resp: 3555

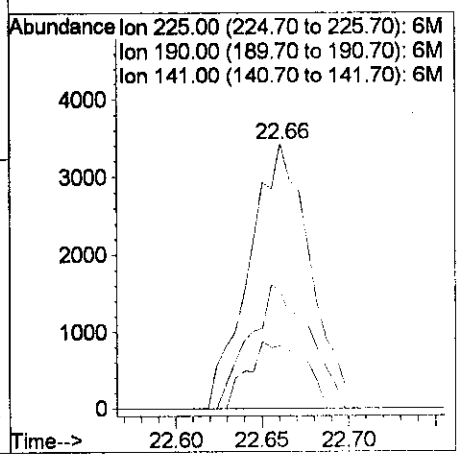
Ion	Ratio	Lower	Upper
180	100		
182	92.2	75.8	113.8
145	23.1	27.4	41.0#

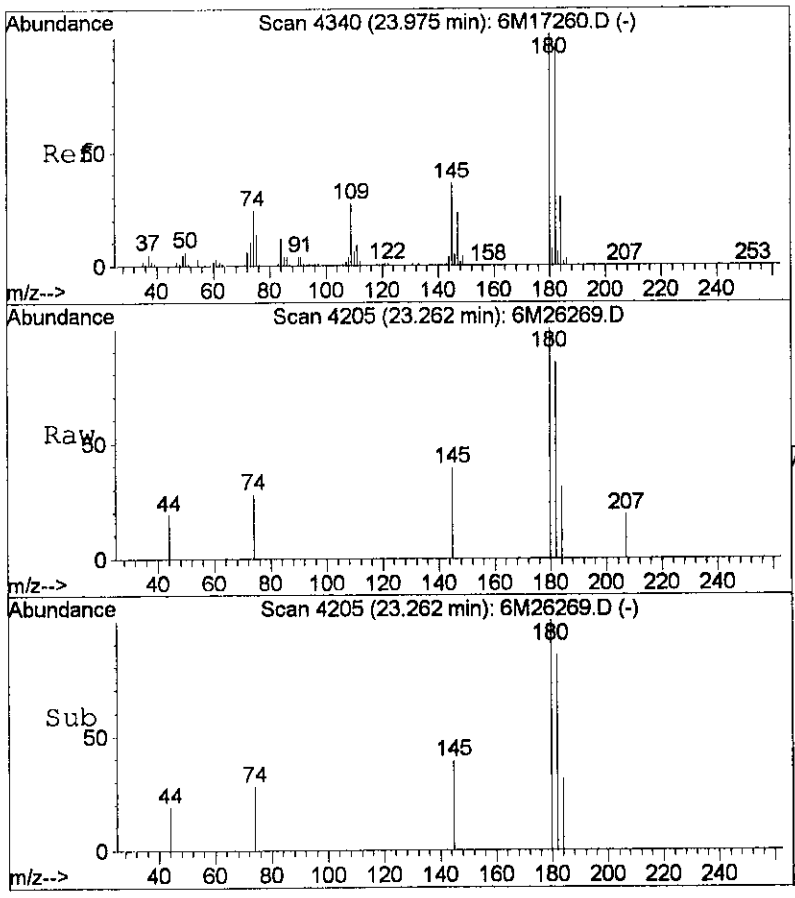




Hexachlorobutadiene
Concen: 0.54 ug/L
RT: 22.66 min Scan# 4091
Delta R.T. -0.00 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

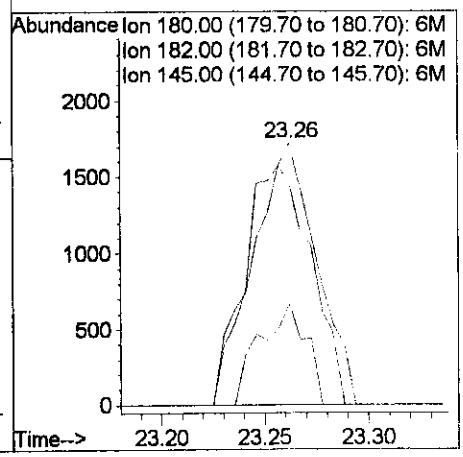
Tgt Ion:225	Resp:	8354	
Ion	Ratio	Lower	Upper
225	100		
190	46.0	0.5	0.7#
141	23.5	0.2	0.4#





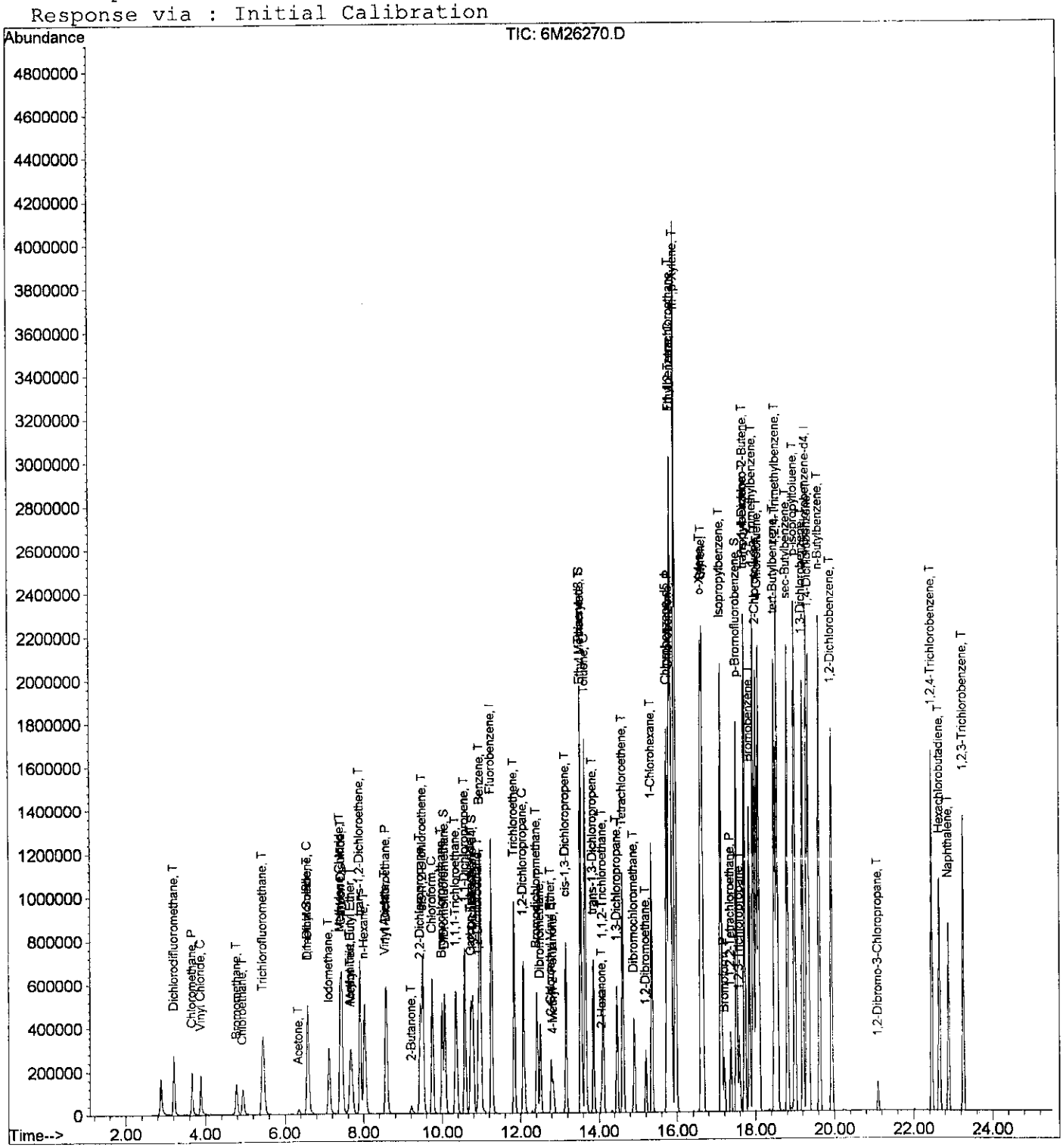
#87
1,2,3-Trichlorobenzene
Concen: 0.14 ug/L
RT: 23.26 min Scan# 4205
Delta R.T. -0.00 min
Lab File: 6M26269.D
Acq: 14 Jun 2001 11:14

Tgt Ion:180	Resp:	3855	
Ion	Ratio	Lower	Upper
180	100		
182	86.4	76.3	114.5
145	26.8	28.8	43.2#



Data File : C:\HPCHEM\1\DATA\061401\6M26270.D Vial: 4
Acq On : 14 Jun 2001 11:46 Operator: CMS
Sample : WG99379-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:11 2001 Quant Results File: 8260BWT.RES

Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration



6M26270.D 8260BWT.M Thu Jun 14 12:11:59 2001 Page 4

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Data File : C:\HPCHEM\1\DATA\061401\6M26270.D Vial: 4
Acq On : 14 Jun 2001 11:46 Operator: CMS
Sample : WG99379-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:11 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1831080	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1528031	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	941744	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	554420	25.80	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.20%				
33) 1,2-Dichloroethane-d4	10.80	65	498334	23.66	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.64%				
45) Toluene-d8	13.54	98	2082785	25.90	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.60%				
66) p-Bromofluorobenzene	17.52	95	899461	27.22	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 108.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.21	85	443413	14.47	ug/L		99
3) Chloromethane	3.67	50	330333	13.73	ug/L		99
4) Vinyl Chloride	3.89	62	267912	15.16	ug/L		99
5) Bromomethane	4.79	94	182465	17.31	ug/L		99
6) Chloroethane	4.94	64	207288	17.00	ug/L		96
7) Trichlorofluoromethane	5.45	101	775391	19.46	ug/L		99
11) Acetone	6.36	43	57916	18.75	ug/L		98
12) 1,1-Dichloroethene	6.59	96	400865	24.70	ug/L		96
13) Dimethyl Sulfide	6.58	62	51948	2.42	ug/L	#	1
14) Iodomethane	7.12	142	680300	74.31	ug/L		94
15) Methylene Chloride	7.41	84	423269	21.08	ug/L		94
16) Carbon Disulfide	7.45	76	1364519	18.72	ug/L		99
17) Acrylonitrile	7.66	53	3428	0.88	ug/L	#	12
18) Methyl Tert Butyl Ether	7.68	73	735100	23.51	ug/L		99
19) trans-1,2-Dichloroethene	7.91	96	465773	23.56	ug/L		96
20) n-Hexane	8.03	57	522401	18.78	ug/L		94
21) Vinyl Acetate	8.56	43	508564	38.33	ug/L		97
22) 1,1-Dichloroethane	8.59	63	808113	22.09	ug/L		98
23) 2-Butanone	9.22	43	82057	20.97	ug/L		97
24) 2,2-Dichloropropane	9.45	77	657754	21.26	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	483413	23.52	ug/L		95
26) Chloroform	9.75	83	822823	21.37	ug/L		99
27) Bromochloromethane	10.00	128	218727	22.71	ug/L		99
29) 1,1,1-Trichloroethane	10.35	97	723824	20.93	ug/L		98
31) 1,1-Dichloropropene	10.59	75	591661	20.22	ug/L		95
32) Carbon Tetrachloride	10.74	117	621317	20.48	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M26270.D 8260BWT.M Thu Jun 14 12:11:56 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\061401\6M26270.D Vial: 4
Acq On : 14 Jun 2001 11:46 Operator: CMS
Sample : WG99379-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:11 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34) 1,2-Dichloroethane	10.93	62	533701	20.54	ug/L	#	84
35) Benzene	10.98	78	1695779	20.02	ug/L		97
36) Trichloroethene	11.85	130	513508	19.53	ug/L		94
37) 1,2-Dichloropropane	12.08	63	403040	19.48	ug/L		100
38) Bromodichloromethane	12.43	83	554240	20.15	ug/L		100
39) Dibromomethane	12.51	93	208424	21.18	ug/L		85
40) 2-Chloroethyl Vinyl Ether	12.78	63	145887	19.37	ug/L		97
41) 4-Methyl-2-Pentanone	12.84	58	69119	17.30	ug/L		99
42) cis-1,3-Dichloropropene	13.17	75	628208	20.32	ug/L		99
46) Toluene	13.66	91	1980262	22.16	ug/L		97
47) Ethyl Methacrylate	13.56	69	4132	0.26	ug/L	#	1
48) trans-1,3-Dichloropropene	13.87	75	519923	21.64	ug/L		99
49) 1,1,2-Trichloroethane	14.11	97	279107	22.23	ug/L		100
50) 2-Hexanone	14.07	43	112537	17.97	ug/L		97
51) 1,3-Dichloropropane	14.47	76	486943	22.21	ug/L		92
52) Tetrachloroethene	14.62	164	413966	20.62	ug/L		92
53) Dibromochloromethane	14.90	129	360348	21.15	ug/L		99
54) 1,2-Dibromoethane	15.20	107	285088	22.56	ug/L		100
55) 1-Chlorohexane	15.35	91	637730	20.78	ug/L		94
56) Chlorobenzene	15.81	112	1385826	19.69	ug/L		96
57) 1,1,1,2-Tetrachloroethane	15.85	131	449489	21.50	ug/L		97
58) Ethylbenzene	15.85	106	774891	20.23	ug/L		93
59) m-,p-Xylene	15.96	106	1983657	41.15	ug/L		90
60) o-Xylene	16.62	106	958903	21.95	ug/L		97
61) Styrene	16.66	104	1650036	21.75	ug/L		96
62) Bromoform	17.21	173	184727	18.21	ug/L		98
63) Isopropylbenzene	17.12	105	2363272	20.86	ug/L		97
65) 1,1,2,2-Tetrachloroethane	17.37	83	275731	20.81	ug/L		100
67) 1,2,3-Trichloropropane	17.59	110	90981	21.20	ug/L		94
68) trans-1,4-Dichloro-2-Buten	17.71	53	14167	3.84	ug/L	#	1
69) n-Propylbenzene	17.72	91	2944964	23.20	ug/L		97
70) Bromobenzene	17.85	156	641939	21.53	ug/L		100
71) 1,3,5-Trimethylbenzene	17.95	105	2163502	23.00	ug/L		98
72) 2-Chlorotoluene	18.03	91	1852339	21.39	ug/L		99
73) 4-Chlorotoluene	18.09	91	1860773	21.36	ug/L		100
75) tert-Butylbenzene	18.49	119	1906286	21.61	ug/L		100
76) 1,2,4-Trimethylbenzene	18.55	105	2240714	21.92	ug/L		98
77) sec-Butylbenzene	18.81	105	2583726	22.02	ug/L		98
78) p-Isopropyltoluene	19.01	119	2309363	21.95	ug/L		97
79) 1,3-Dichlorobenzene	19.20	146	1298657	20.78	ug/L		96
80) 1,4-Dichlorobenzene	19.36	146	1319137	19.76	ug/L		97

(#) = qualifier out of range (m) = manual integration
6M26270.D 8260BWT.M Thu Jun 14 12:11:57 2001 Page 2

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Data File : C:\HPCHEM\1\DATA\061401\6M26270.D Vial: 4
Acq On : 14 Jun 2001 11:46 Operator: CMS
Sample : WG99379-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV8038 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:11 2001 Quant Results File: 8260BWT.RES

Quant Method : C:\HPCHEM\1\METHODS\8260BWT.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 06/08/01 - HPMS6
Last Update : Mon Jun 11 09:10:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260BWT

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
81) n-Butylbenzene	19.62	91	2005062	21.95 ug/L		100
82) 1,2-Dichlorobenzene	19.93	146	1148028	20.76 ug/L		96
83) 1,2-Dibromo-3-Chloropropan	21.10	157	61122	18.68 ug/L		92
84) 1,2,4-Trichlorobenzene	22.47	180	785058	22.29 ug/L		98
85) Hexachlorobutadiene	22.66	225	354869	21.32 ug/L	#	34
86) Naphthalene	22.89	128	1022514	18.63 ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.26	180	649888	21.67 ug/L		98

(#) = qualifier out of range (m) = manual integration
6M26270.D 8260BWT.M Thu Jun 14 12:11:57 2001 Page 3

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Analyst: CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m26133.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 08:08
2	2	6m26134.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 08:38
3	3	6m26135.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 09:25
4	4	6m26136.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 09:55
5	5	6m26137.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 10:24
6	6	6m26138.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 10:54
7	7	6m26139.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 11:41
8		6m26140.d	1.			
9	9	6m26141.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 13:19
10	10	6m26142.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 13:49
11	11	6m26143.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 14:18
12	12	6m26144.d	1.	✓BFB 50NG STD 8260	1,1 SV8032	8 Jun 01 14:48
13	13	6m26145.d	1.	✓SYSTEM BLANK	1,1	8 Jun 01 15:29
14	14	6m26146.d	1.	✓SYSTEM BLANK	1,1	8 Jun 01 16:01
15	1	6m26147.d	1.	✓WG99096-01 50NG BFB STD	1,1 SV8032	8 Jun 01 16:41
16	2	6m26148.d	1.	✓WG99096-02 0.25PPB STD	1,1 SV8030	8 Jun 01 17:33
17	3	6m26149.d	1.	✓WG99096-03 0.5PPB STD	1,1 SV8030	8 Jun 01 18:44
18	4	6m26150.d	1.	✓WG99096-04 1PPB STD	1,1 SV8030	8 Jun 01 19:16
19	5	6m26151.d	1. Didn't use	WG99096-05 2PPB STD	1,1 SV8030	8 Jun 01 19:49
20	6	6m26152.d	1.	✓WG99096-06 5PPB STD	1,1 SV8030	8 Jun 01 20:21
21	7	6m26153.d	1.	✓WG99096-07 10PPB STD	1,1 SV8030	8 Jun 01 20:53
22	8	6m26154.d	1.	✓WG99096-08 20PPB STD	1,1 SV8030	8 Jun 01 21:26
23	9	6m26155.d	1.	✓WG99096-09 50PPB STD	1,1 SV8030	8 Jun 01 21:59
24	10	6m26156.d	1.	✓WG99096-10 100PPB STD	1,1 SV8030	8 Jun 01 22:31
25	11	6m26157.d	1.	✓WG99096-11 200PPB STD	1,1 SV8030	8 Jun 01 23:04
26	12	6m26158.d	1.	✓SYSTEM BLANK	1,1	8 Jun 01 23:37
27	13	6m26159.d	1.	✓SYSTEM BLANK	1,1	9 Jun 01 00:12
28	14	6m26160.d	1.	✓WG99096-12 20PPB ALT SOURCE	1,1 SV8038	9 Jun 01 00:47

WG99096
No reanalysis required.

ANALYST: CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m26267.d	1.	WG99379-01 BFB 50NG STD 8260	1,1 SV8032	14 Jun 01 10:00
2	2	6m26268.d	1.	WG99379-02 50 PPB STD 8260	1,1 SV8030	14 Jun 01 10:30
3	3	6m26269.d	1.	WG99379-03 VBLK0614 BLANK 8260	1,1	14 Jun 01 11:14
4	4	6m26270.d	1.	WG99379-04 20 PPB LCS STD 8260	1,1 SV8038	14 Jun 01 11:46
5	5	6m26271.d	1.	L0106292-02 A 00 8260	1,1	14 Jun 01 12:30
6	6	6m26272.d	1.	L0106236-01 A 00 8260	1,1	14 Jun 01 13:02
7	7	6m26273.d	10.	L0106269-01 10X 00 826-TC	1,10 (6/13@1400)	14 Jun 01 13:38
8	8	6m26274.d	10.	L0106269-01 MS 10X 00 826-TC	1,10 (6/13@1400) SV8038	14 Jun 01 14:11
9	9	6m26275.d	10.	L0106269-01 MSD 10X 00 826-TC	1,10 (6/13@1400) SV8038	14 Jun 01 14:43
10	10	6m26276.d	100.	L0106229-02 B 100X D1 826-VAP2	1,100	14 Jun 01 15:16
11	11	6m26277.d	100.	L0106229-05 B 100X D1 826-VAP2	1,100	14 Jun 01 15:49
12	12	6m26278.d	100.	L0106229-08 B 100X D1 826-VAP2	1,100	14 Jun 01 16:22
13	13	6m26279.d	1000.	L0106229-09 B 1000X D1 826-VAP2	1,1000	14 Jun 01 16:55
14	14	6m26280.d	100.	L0106229-13 B 100X D1 826-VAP2	1,100	14 Jun 01 17:28
15	15	6m26281.d	1.	L0106290-01 A 00 8260	1,1	14 Jun 01 18:01
16	16	6m26282.d	1.	L0106291-01 A 00 8260	1,1	14 Jun 01 18:34
17	17	6m26283.d	1.	L0106292-01 A 00 8260	1,1	14 Jun 01 19:06

WG99379 has ~~10~~ NO Reruns

2.2 Semivolatiles

2.2.1 Semivolatiles GC MS Data (8270)

REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS associated with this sample yielded a % recovery for benzoic acid that was below the lower advisory limit. All other acceptance criteria were met.
Matrix Spikes: The MS/MSD were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.
Surrogates: The sample yielded a % recovery for 2-fluorophenol that was below the lower advisory limit and a % recovery for nitrobenzene-d5 that was above the upper advisory limit; this was attributed to sample matrix interference. All other acceptance criteria were met.
Samples: The sample was analyzed at a 10X dilution due to appearance. All other acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: mdc

REVIEWED: Stephanie L. Lupo DATE: 6/22/01

Rev. 6/00

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Semi-Volatile GCMS Checklist

Run Date: 06/12/01

Analyst: mdl

Instrument: HP5MS4

Workorders: Due Date: Priority:

Curve Only

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	—
Continuing Calibration:	Continuing Calibration	
	Client Specific Requirements	
	Special Standards	
Blanks:	Quant Report/Chromatogram	
	Surrogates	
Laboratory Control Sample:	Quant Report/Chromatogram	
	Surrogates	
	Spike Compounds	
	MS/MSD	
	Excel Spreadsheet	
Samples:	TCL Hits	
	Spectra of TCL Hits	
	Surrogates	
	Internal Standards	
	Correct Factors	
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: mdl 6/14/01

Secondary Reviewer: CLF 6/14/01

Supervisor Review: mdl 6/14/01

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Semi-Volatile GCMS Checklist

Run Date: 6/12/01

Analyst: mdc

Instrument: HPMS4

Workorders:	Due Date:	Priority:
06-181	6/12	RUSH
06-231	6/14	FF
06-234	"	"
06-235	"	"
06-164	6/	M

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	
	Linear or quadriatic regression	
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	√
	Level 3	√
	Level 4	

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: mdc 6/14/01

Secondary Reviewer: CLC 6/14/01

Supervisor Review: [illegible] 6/14/01

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Semi-Volatile GCMS Checklist

Run Date: 6/15/01

Analyst: mdc

Instrument: HPMS4

Workorders:	Due Date:	Priority:
06-222	6/18	PFF
06-217	6/18	M
06-230	6/18	FF
06-236	6/18	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	
	Linear or quadriatic regression	
	Alt Source Check	
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

Π = Checked & OK

NA = Not Applicable

Comments:

06-222 needs RE

06-230-02,04 needs RE

06-230-03 needs dilution

Primary Reviewer: mdc 6/18/01

Secondary Reviewer: 6/18/01

Supervisor Review: 6/18/01

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SEMIVOLATILES GC/MS DATA

Login Number: L0106236

A. QC Summary

- ✓ Batch QC Summary Forms
- ✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

- _____ Target Compound List Results - See Summary Report
- _____ Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
- ✓ Reconstructed total ion chromatogram (RIC) and quantitation report for each sample.
- _____ Raw spectra and background subtracted mass spectra of target compounds identified.
- _____ Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

- _____ Initial calibration data summary form.
- ✓ Chromatograms and quantitation reports for initial calibration standards
- ✓ Continuing calibration data summary form
- ✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

- ✓ GC/MS Instrument Performance Check (DFTPP).
- ✓ Blank chromatogram and quantitation report.
- ✓ Laboratory Control Sample chromatogram and quantitation report.
- _____ Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- ✓ Instrument runlogs
- ✓ Extraction Bench Sheets

Checked By: _____ Date: 6/28/11

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2.2.1.1 QC Summary

ANAL WORK GRP : WG99191 | EXT DATE : 06/11/01 | RUN DATE : 06/13/01 | INSTRUMENT : HPMS4
METHOD : 8270 | BENCH SFEET : V165P31 | SMPL ID : NA | ANALYST : mdc
MATRIX : WATER | BLK FLNM : 4M6814 | SMPL FLNM : NA
CONCENTRATION UNITS : ug/ml | LCS FLNM : 4M6815 | MS FLNM : NA
PREP WORK GRP : WG99107 | MSD FLNM : NA

	CONCENTRATION , ug / L							PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	RPD
PYRIDINE	5.0	50	ND	9.8	NA	NA	NA	NS	19.6	NS	NA	NA	10	150	NA	40					
N-NITROSODIMETHYLAMINE	5.0	50	ND	14.7	NA	NA	NA	NS	29.5	NS	NA	NA	10	150	NA	40					
ANILINE	10.0	50	ND	15.4	NA	NA	NA	NS	30.7	NS	NA	NA	10	150	NA	40					
PHENOL	5.0	50	ND	9.9	NA	NA	NA	NS	19.8	NS	NA	NA	10	62	NA	40					
BIS(2-CHLOROETHYL)ETHER	5.0	50	ND	22.7	NA	NA	NA	NS	45.4	NS	NA	NA	25	104	NA	40					
2-CHLOROPHENOL	5.0	50	ND	17.3	NA	NA	NA	NS	34.6	NS	NA	NA	26	99	NA	40					
1,3-DICHLOROBENZENE	5.0	50	ND	15.3	NA	NA	NA	NS	30.6	NS	NA	NA	22	89	NA	40					
1,4-DICHLOROBENZENE	10.0	50	ND	15.5	NA	NA	NA	NS	31.0	NS	NA	NA	22	91	NA	40					
BENZYL ALCOHOL	5.0	50	ND	20.7	NA	NA	NA	NS	41.3	NS	NA	NA	22	96	NA	40					
1,2-DICHLOROBENZENE	5.0	50	ND	16.8	NA	NA	NA	NS	33.7	NS	NA	NA	23	94	NA	40					
2-METHYLPHENOL	5.0	50	ND	17.3	NA	NA	NA	NS	34.7	NS	NA	NA	21	105	NA	40					
BIS(2-CHLOROISOPROPYL)ETHER	5.0	50	ND	23.2	NA	NA	NA	NS	46.4	NS	NA	NA	23	99	NA	40					
3- & 4-METHYLPHENOL	5.0	50	ND	16.9	NA	NA	NA	NS	33.7	NS	NA	NA	22	99	NA	40					
N-NITROSO-DI-N-PROPYLAMINE	5.0	50	ND	27.3	NA	NA	NA	NS	54.6	NS	NA	NA	24	113	NA	40					
HEXACHLOROETHANE	5.0	50	ND	12.0	NA	NA	NA	NS	23.9	NS	NA	NA	20	93	NA	40					
NITROBENZENE	5.0	50	ND	22.0	NA	NA	NA	NS	43.9	NS	NA	NA	26	109	NA	40					
ISOPHORONE	5.0	50	ND	28.0	NA	NA	NA	NS	56.0	NS	NA	NA	24	126	NA	40					
2-NITROPHENOL	5.0	50	ND	16.9	NA	NA	NA	NS	37.7	NS	NA	NA	23	114	NA	40					
2,4-DIMETHYLPHENOL	5.0	50	ND	18.9	NA	NA	NA	NS	37.8	NS	NA	NA	27	121	NA	40					
BIS(2-CHLOROETHOXY)METHANE	25.0	50	ND	23.4	NA	NA	NA	NS	46.8	NS	NA	NA	26	120	NA	40					
BENZOIC ACID	5.0	50	ND	0.0	NA	NA	NA	NS	0.0	NS	NA	NA	10	106	NA	40		L			
2,4-DICHLOROPHENOL	5.0	50	ND	19.1	NA	NA	NA	NS	38.2	NS	NA	NA	27	116	NA	40					
1,2,4-TRICHLOROBENZENE	5.0	50	ND	16.0	NA	NA	NA	NS	32.0	NS	NA	NA	21	100	NA	40					
NAPHTHALENE	5.0	50	ND	20.2	NA	NA	NA	NS	40.3	NS	NA	NA	27	107	NA	40					
4-CHLOROANILINE	5.0	50	ND	20.8	NA	NA	NA	NS	41.6	NS	NA	NA	10	109	NA	40					
HEXACHLOROBUTADIENE	10.0	50	ND	12.8	NA	NA	NA	NS	25.6	NS	NA	NA	22	107	NA	40					
4-CHLORO-3-METHYLPHENOL	5.0	50	ND	24.8	NA	NA	NA	NS	49.6	NS	NA	NA	39	111	NA	40					
2-METHYLNAPHTHALENE	5.0	50	ND	21.1	NA	NA	NA	NS	42.3	NS	NA	NA	27	109	NA	40					
HEXACHLOROCYCLOPENTADIENE	5.0	50	ND	13.1	NA	NA	NA	NS	26.3	NS	NA	NA	10	102	NA	40					
2,4,6-TRICHLOROPHENOL	25.0	50	ND	22.4	NA	NA	NA	NS	44.7	NS	NA	NA	37	103	NA	40					
2,4,5-TRICHLOROPHENOL	5.0	50	ND	25.3	NA	NA	NA	NS	50.6	NS	NA	NA	42	115	NA	40					
2-CHLORONAPHTHALENE	25.0	50	ND	21.8	NA	NA	NA	NS	43.6	NS	NA	NA	24	115	NA	40					
2-NITROANILINE	5.0	50	ND	32.1	NA	NA	NA	NS	64.1	NS	NA	NA	46	110	NA	40					
DIMETHYLPHTHALATE	5.0	50	ND	32.2	NA	NA	NA	NS	64.4	NS	NA	NA	29	116	NA	40					
ACENAPHTHYLENE	5.0	50	ND	27.1	NA	NA	NA	NS	54.2	NS	NA	NA	37	120	NA	40					
2,6-DINITROTOLUENE	5.0	50	ND	38.4	NA	NA	NA	NS	76.8	NS	NA	NA	45	117	NA	40					
3-NITROANILINE	25.0	50	ND	39.9	NA	NA	NA	NS	79.9	NS	NA	NA	44	121	NA	40					
ACENAPHTHENE	5.0	50	ND	26.9	NA	NA	NA	NS	53.7	NS	NA	NA	30	127	NA	40					
2,4-DINITROPHENOL	25.0	50	ND	31.2	NA	NA	NA	NS	62.3	NS	NA	NA	22	109	NA	40					
4-NITROPHENOL	25.0	50	ND	18.8	NA	NA	NA	NS	37.5	NS	NA	NA	10	81	NA	40					
DIBENZOFURAN	5.0	50	ND	27.9	NA	NA	NA	NS	55.7	NS	NA	NA	36	122	NA	40					
2,4-DINITROTOLUENE	5.0	50	ND	47.6	NA	NA	NA	NS	95.1	NS	NA	NA	58	128	NA	40					
DIETHYLPHTHALATE	5.0	50	ND	43.2	NA	NA	NA	NS	86.4	NS	NA	NA	37	130	NA	40					
FLUORENE	5.0	50	ND	32.3	NA	NA	NA	NS	64.7	NS	NA	NA	39	111	NA	40					
4-CHLOROPHENYL-PHENYL ETHER	5.0	50	ND	31.1	NA	NA	NA	NS	62.2	NS	NA	NA	25	106	NA	40					
4-NITROANILINE	25.0	50	ND	51.9	NA	NA	NA	NS	103.7	NS	NA	NA	45	147	NA	40					
1,2-DIPHENYLHYDRAZINE *	5.0	50	ND	35.4	NA	NA	NA	NS	70.9	NS	NA	NA	42	120	NA	40					
4,6-DINITRO-2-METHYLPHENOL	25.0	50	ND	40.0	NA	NA	NA	NS	80.1	NS	NA	NA	33	135	NA	40					
N-NITROSODIPHENYLAMINE **	5.0	50	ND	44.2	NA	NA	NA	NS	88.4	NS	NA	NA	36	119	NA	40					
4-BROMOPHENYL-PHENYL ETHER	5.0	50	ND	34.4	NA	NA	NA	NS	68.9	NS	NA	NA	31	104	NA	40					
HEXACHLOROBENZENE	5.0	50	ND	43.6	NA	NA	NA	NS	87.2	NS	NA	NA	55	119	NA	40					
PENTACHLOROPHENOL	25.0	50	ND	42.3	NA	NA	NA	NS	84.7	NS	NA	NA	40	131	NA	40					
PHENANTHRENE	5.0	50	ND	44.3	NA	NA	NA	NS	88.5	NS	NA	NA	50	125	NA	40					
ANTHRACENE	5.0	50	ND	46.6	NA	NA	NA	NS	93.2	NS	NA	NA	52	120	NA	40					
CARBAZOLE	5.0	50	ND	55.4	NA	NA	NA	NS	110.9	NS	NA	NA	36	181	NA	40					
DI-N-BUTYLPHTHALATE	5.0	50	ND	52.3	NA	NA	NA	NS	104.5	NS	NA	NA	37	139	NA	40					
FLUORANTHENE	5.0	50	ND	48.9	NA	NA	NA	NS	97.7	NS	NA	NA	52	137	NA	40					
PYRENE	5.0	50	ND	50.5	NA	NA	NA	NS	101.0	NS	NA	NA	55	127	NA	40					
BUTYLBENZYLPHTHALATE	5.0	50	ND	54.1	NA	NA	NA	NS	108.2	NS	NA	NA	28	150	NA	40					
BENZO(A)ANTHRACENE	10.0	50	ND	51.7	NA	NA	NA	NS	103.5	NS	NA	NA	58	131	NA	40					
3,3'-DICHLOROBENZIDINE	5.0	50	ND	58.9	NA	NA	NA	NS	117.7	NS	NA	NA	41	172	NA	40					
CHRYSENE	5.0	50	ND	54.1	NA	NA	NA	NS	108.1	NS	NA	NA	67	176	NA	40					
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	50	ND	53.7	NA	NA	NA	NS	107.4	NS	NA	NA	32	149	NA	40					
DI-N-OCTYLPHTHALATE	5.0	50	ND	55.3	NA	NA	NA	NS	110.6	NS	NA	NA	32	149	NA	40					
BENZO[B]FLUORANTHENE	5.0	50	ND	53.3	NA	NA	NA	NS	106.6	NS	NA	NA	48	129	NA	40					
BENZO[K]FLUORANTHENE	5.0	50	ND	52.5	NA	NA	NA	NS	105.0	NS	NA	NA	55	127	NA	40					
BENZO[A]PYRENE	5.0	50	ND	52.5	NA	NA	NA	NS	105.0	NS	NA	NA	55	132	NA	40					
INDENO[1,2,3-CD]PYRENE	5.0	50	ND	56.2	NA	NA	NA	NS	112.5	NS	NA	NA	43	140	NA	40					
DIBENZ[A,H]ANTHRACENE	5.0	50	ND	73.2	NA	NA	NA	NS	146.4	NS	NA	NA	37	167	NA	40					
BENZO[G,H,I]PERYLENE	5.0	50	ND	51.1	NA	NA	NA	NS	102.1	NS	NA	NA	42	143	NA	40					
SURROGATES																					
2-FLUOROPHENOL		100	40.4	24.5	NA	NA	NA	40.4	24.5	NA	NA	NA	21	100							
PHENOL - D5		100	28.4	19.7	NA	NA	NA	28.4	19.7	NA	NA	NA	10	94							
NITROBENZENE - D5		50	31.3	22.7	NA	NA	NA	62.6	45.4	NA	NA	NA	35	114							
2-FLUOROBIPHENYL		50	28.8	22.6	NA	NA	NA	57.6	45.3	NA	NA	NA	43	116							
2,4,6-TRIBROMOPHENOL		100	81.7	77.2	NA	NA	NA	81.7	77.2	NA	NA	NA	10	123							
p-TERPHENYL - D14		50	51.3	38.3	NA	NA	NA	102.6	76.7	NA	NA	NA	33	141							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT | NS = NOT SPIKED | L= below QC limit
ND = NOT DETECTED | H=above QC limit

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Tune File : C:\HPCHEM\1\DATA\061301\4M8811.D
Tune Time : 13 Jun 2001 7:43

Daily Calibration File : C:\HPCHEM\1\DATA\061301\4M8812.D

{2FP}PHL NBZ FBP	DCB	NPT	ANT
	345909	1302830	698294
tbp TPH	PHN	CRY	PRY
	1128600	1214430	868624

File	Sample	Surrogate Recovery %				Internal Standard Responses		
4M8814.D	WG99107-	40	28	63	58	393873	1529225	837369
		82	103			1290118	1379137	1054946
4M8815.D	WG99107-	25	20	45	45	404221	1629282	916522
		77	77			1481511	1570042	1117997
4M8816.D	WG99052-	34	25	68	65	347480	1319833	727975
		58	78			1132608	1233812	945073
4M8817.D	WG99052-	22	16	37	38*	637932	2417728	1338227
		47	42			2189542	2386437	1731704
4M8818.D	L0106181	17*	12	32*	31*	391968	1493202	818083
		47	118			1263805	1353558	1031175
4M8819.D	L0106181	14*	10	26*	26*	381408	1474481	815561
		47	94			1259439	1355043	1019340
4M8820.D	L0106181	28	22	54	46	382598	1483726	819209
		48	28*			1266624	1353446	1022866
4M8821.D	L0106181	29	23	56	51	382428	1459489	792479
		42	34			1252549	1322675	991093
4M8822.D	L0106181	34	26	64	56	371103	1404220	781899
		63	38			1216655	1292640	948034
4M8823.D	WG99181-	25	19	47	46	347058	1312454	722048
		49	82			1100210	1186700	911334
4M8824.D	WG99181-	29	22	52	57	344711	1314317	727402
		85	91			1173592	1263393	898096
4M8825.D	L0106231	22	16	36	34*	330391	1250772	700733
		64	46			1097622	1135391	845274
4M8826.D	L0106234	17*	13	31*	25*	342919	1308586	738341
		49	9*			1187190	1199587	895619
4M8827.D	L0106234	18*	13	33*	32*	337480	1306798	738039
		44	27*			1202734	1184884	881568
4M8828.D	L0106234	17*	13	32*	31*	352608	1346174	750323
		40	27*			1228049	1218602	896556
4M8829.D	L0106235	17*	12	33*	31*	350546	1330689	766396
		78	30*			1243331	1223644	897403

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4M8831.D	L0106164	0*	20	56	42*	366907	1441219	951573
		6*	84			1618639	810627	210386*
4M8832.D	WG99159-	35	26	64	67	360596	1372042	755561
		60	80			1306725	1142657	433745*
4M8833.D	L0106164	36	25	93	77	363101	1048984	741099
		113	88			1322509	1227186	561594

t - fails 12hr time check * - fails criteria

Created: Thu Jun 14 08:05:53 2001 HPMS4

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Tune File : C:\HPCHEM\1\DATA\061501\4M8851.D
Tune Time : 15 Jun 2001 10:05

Daily Calibration File : C:\HPCHEM\1\DATA\061501\4M8852.D

{2FP}PHL NBZ FBP	DCB	NPT	ANT
	348312	1307250	703284
tbp TPH	PHN	CRY	PRY
	1201650	1262820	897053

File	Sample	Surrogate Recovery %				Internal Standard Responses		
4M8855.D	WG99296-	19*	16	43	41*	299352	1101444	611497
		35	40			971263	1039330	791798
4M8856.D	WG99296-	19*	16	45	49	317346	1190317	665871
		43	29*			1111515	1178910	858771
4M8857.D	WG99251-	25	19	49	47	322393	1192892	661328
		50	69			1092853	1180314	907089
4M8858.D	L0106222	19*	14	36	32*	312234	1174910	664401
		35	34			1066707	1130677	839878
4M8867.D	L0106230	35	25	58	52	308520	1184524	646963
		92	15*			1089630	1092340	821133
4M8868.D	L0106230	24	21	79	41*	366457	1350364	785251
		67	20*			1260686	1202534	887148
4M8869.D	L0106230	26	1*	52	41*	359893	1316539	678353
		57	15*			1157672	1187754	887151
4M8870.D	L0106230	17*	48	176*	63	346187	1338133	853600
		62	30*			1366138	1259800	928618
4M8871.D	L0106236	11*	17	728*	57	319834	1288203	972672
		79	72			1404386	1241973	886508

t - fails 12hr time check * - fails criteria

Created: Mon Jun 18 09:12:17 2001 HPMS4

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2.2.1.2 Sample Data

Data File : C:\HPCHEM\1\DATA\061501\4M8871.D Vial: 21
Acq On : 15 Jun 2001 20:38 Operator: mdc
Sample : L0106236-01 10X Inst : HPMS4
Misc : 1,10 Multiplr: 10.00
MS Integration Params: RTEINT.P
Quant Time: Jun 18 9:07 2001 Quant Results File: BNA.RES

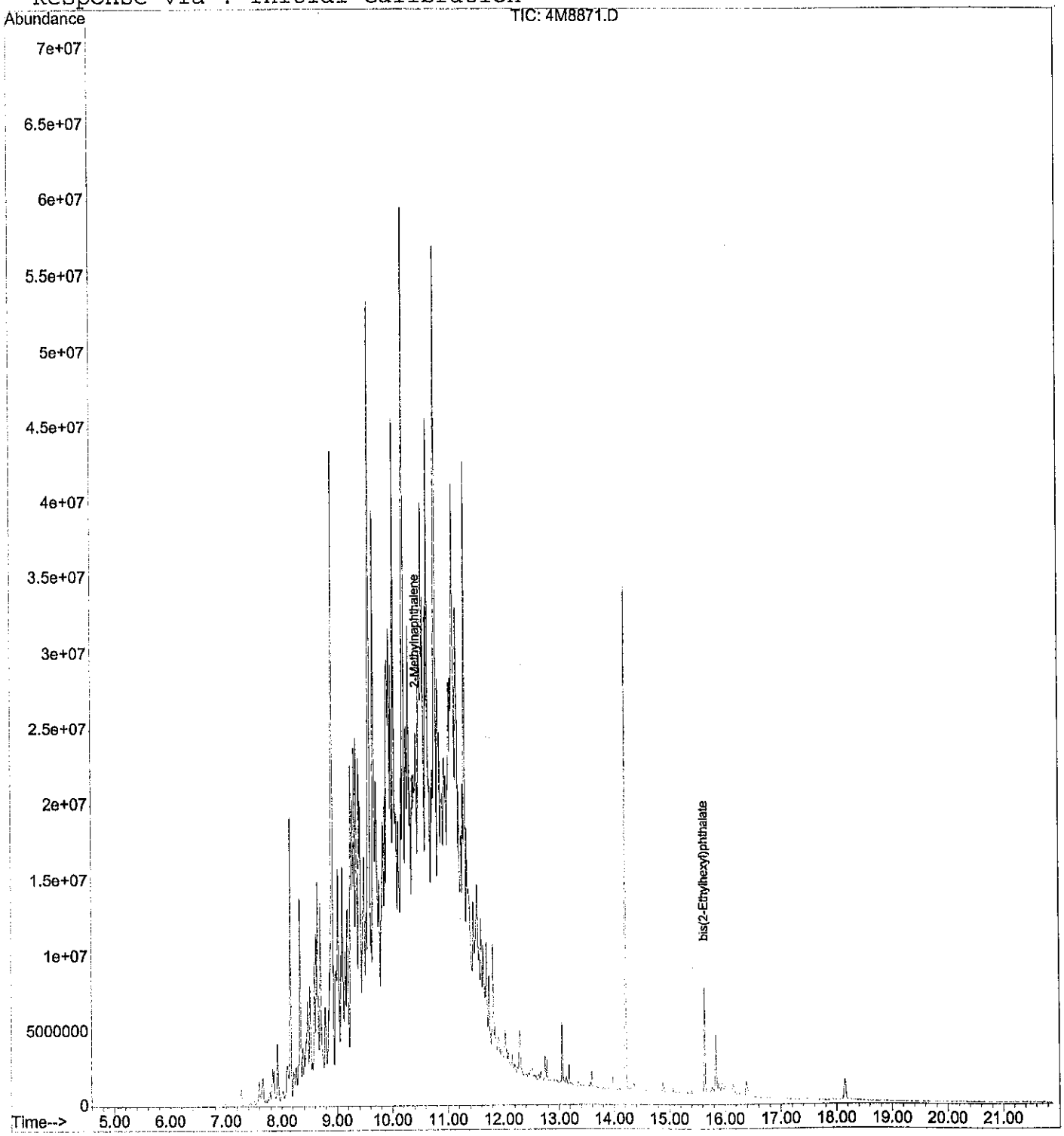
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Initial Calibration
DataAcq Meth : BNA

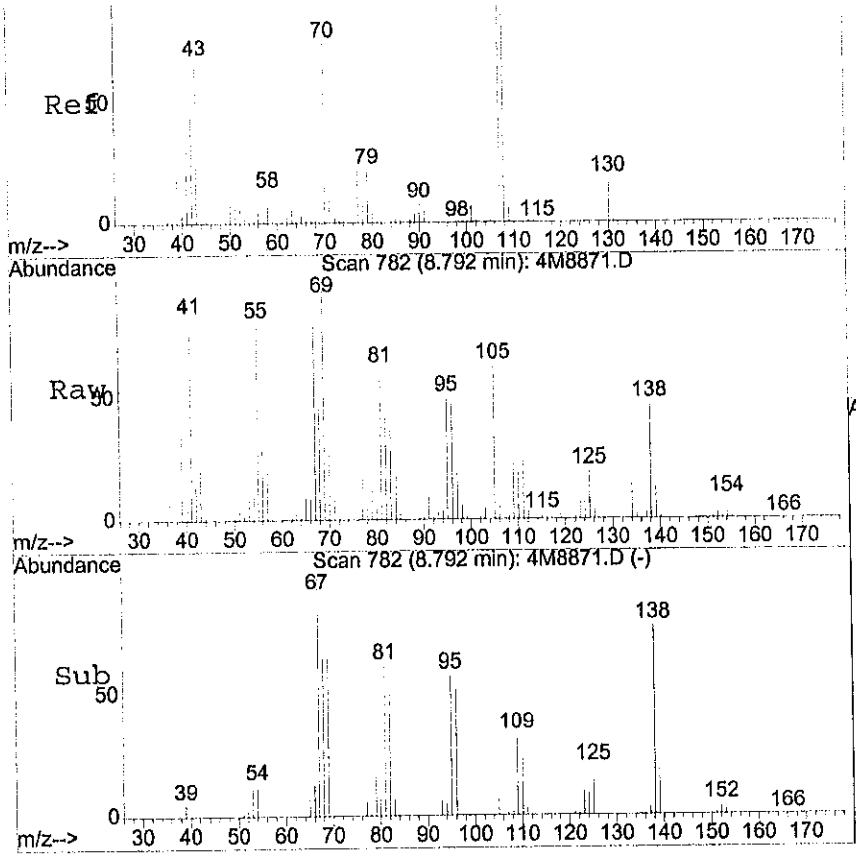
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	319834	40.00	ug/ml	0.00
19) Naphthalene-d8	9.72	136	1288203	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.53	164	972672	40.00	ug/ml	0.02
56) Phenanthrene-d10	13.06	188	1404386	40.00	ug/ml	0.00
67) Chrysene-d12	15.84	240	1241973	40.00	ug/ml	0.00
76) Perylene-d12	18.15	264	886508	40.00	ug/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	11628	10.55	ug/ml	0.03
Spiked Amount 100.000	Range 21 - 100		Recovery = 10.55%#			
6) Phenol-d5	8.03	99	23474	17.39	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 94		Recovery = 17.39%			
20) Nitrobenzene-d5	9.00	82	490727	364.08	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 728.16%#			
38) 2-Fluorobiphenyl	10.80	172	94333	28.29	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 56.58%			
55) 2,4,6-Tribromophenol	12.34	330	30210	78.98	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 78.98%			
70) p-Terphenyl-d14	14.64	244	108265	35.97	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 71.94%			
Target Compounds						Qvalue
17) n-Nitrosodipropylamine	8.79	70	134987	166.09	ug/ml#	70
18) Hexachloroethane	8.92	117	190476	374.97	ug/ml#	11
21) Nitrobenzene	9.02	77	176606	125.80	ug/ml#	32
22) Isophorone	9.20	82	402936	186.87	ug/ml#	1
23) 2-Nitrophenol	9.31	139	107776	160.73	ug/ml#	1
26) Benzoic Acid	9.35	122	42941	124.68	ug/ml#	1
27) 2,4-Dichlorophenol	9.51	162	88335	89.04	ug/ml#	1
29) Naphthalene	9.74	128	752221	209.33	ug/ml#	25
30) 4-Chloroaniline	9.78	127	82839	58.78	ug/ml#	46
32) 4-Chloro-3-Methylphenol	10.26	107	79980	78.61	ug/ml#	51
33) 2-Methylnaphthalene	10.44	142	2602063	1109.10	ug/ml	99
37) 2,4,5-Trichlorophenol	10.77	196	81605	84.97	ug/ml#	13
46) 2,4-Dinitrophenol	11.58	184	2388	93.52	ug/ml#	16
47) 4-Nitrophenol	11.60	65	30796	50.55	ug/ml#	1
61) Pentachlorophenol	12.85	266	170	50.07	ug/ml#	18
75) bis(2-Ethylhexyl)phthalate	15.64	149	2526887	972.58	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061501\4M8871.D Vial: 21
Acq On : 15 Jun 2001 20:38 Operator: mdc
Sample : L0106236-01 10X Inst : HPMS4
Misc : 1,10 Multiplr: 10.00
MS Integration Params: RTEINT.P
Quant Time: Jun 18 9:07 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Initial Calibration

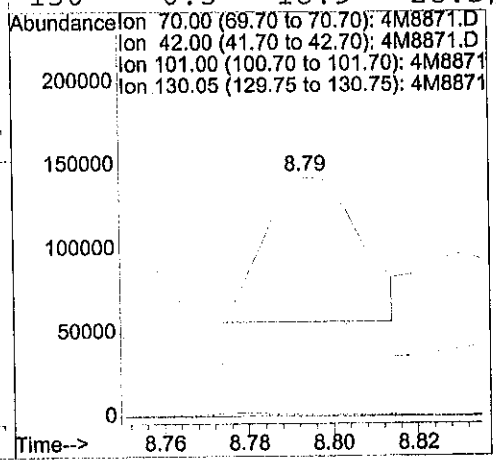


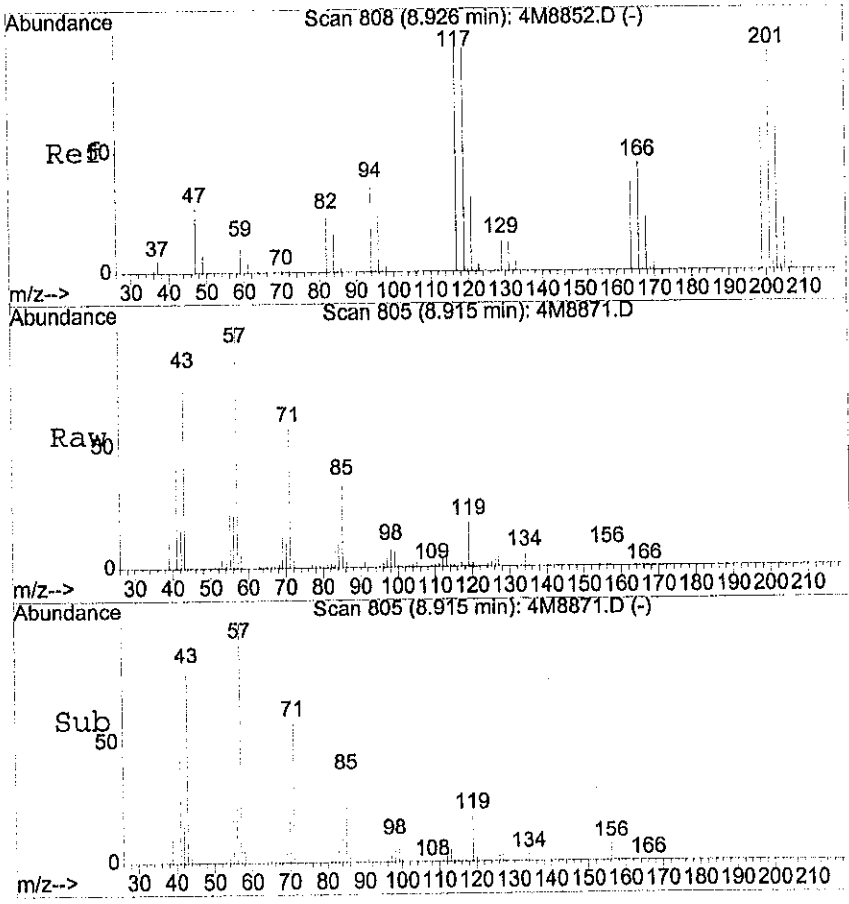


n-Nitrosodipropylamine
Concen: 166.09 ug/ml
RT: 8.79 min Scan# 782
Delta R.T. 0.00 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion: 70 Resp: 134987

Ion	Ratio	Lower	Upper
70	100		
42	41.4	48.2	72.4#
101	2.6	9.0	13.4#
130	0.3	18.9	28.3#

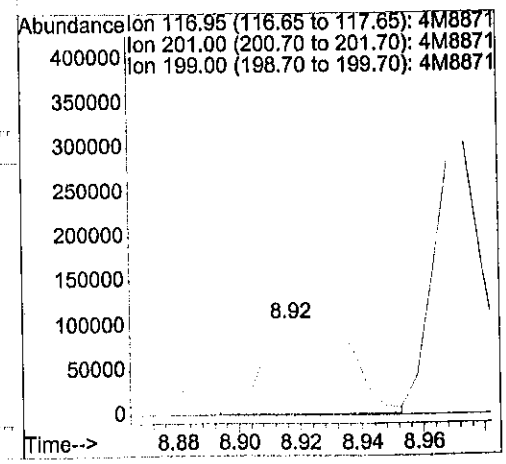


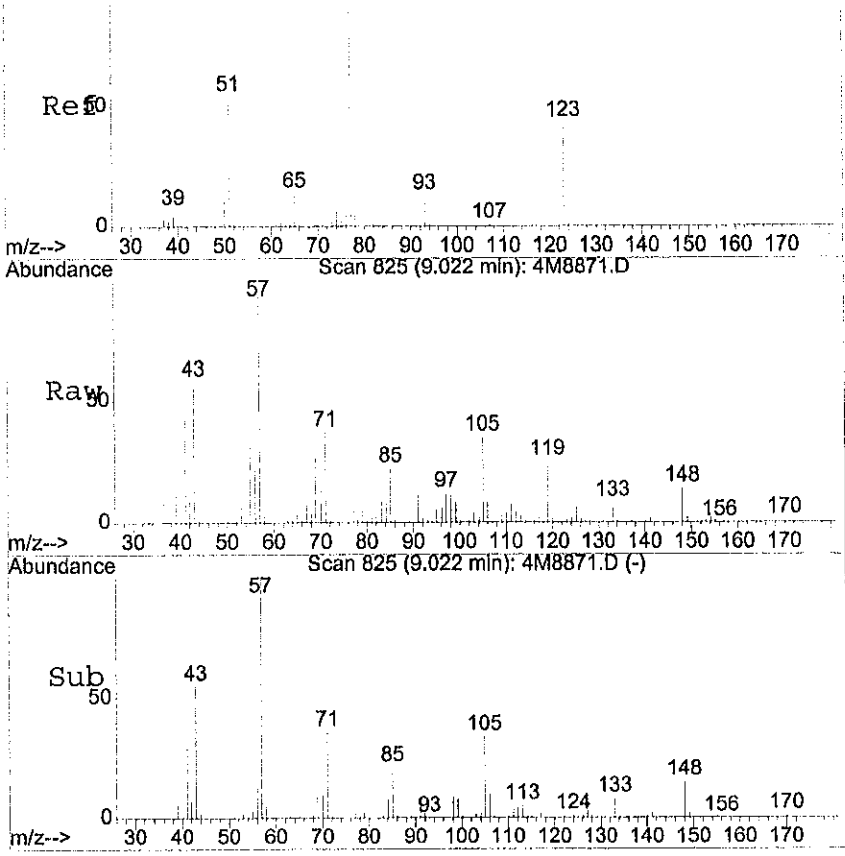


#18
Hexachloroethane
Concen: 374.97 ug/ml
RT: 8.92 min Scan# 805
Delta R.T. -0.01 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:117 Resp: 190476

Ion	Ratio	Lower	Upper
117	100		
201	0.0	72.6	108.8#
199	0.0	45.5	68.3#

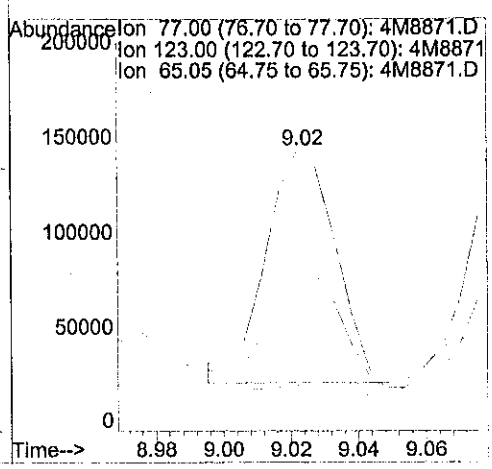


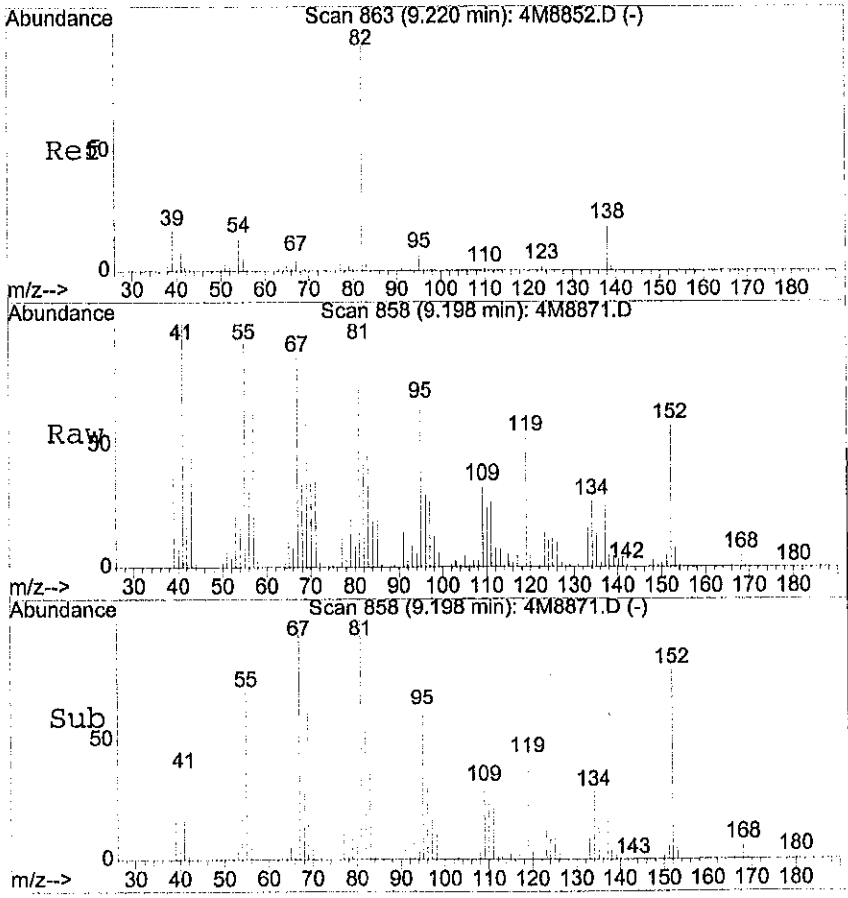


Nitrobenzene
Concen: 125.80 ug/ml
RT: 9.02 min Scan# 825
Delta R.T. 0.02 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion: 77 Resp: 176606

Ion	Ratio	Lower	Upper
77	100		
123	4.4	35.7	53.5#
65	50.4	11.4	17.2#

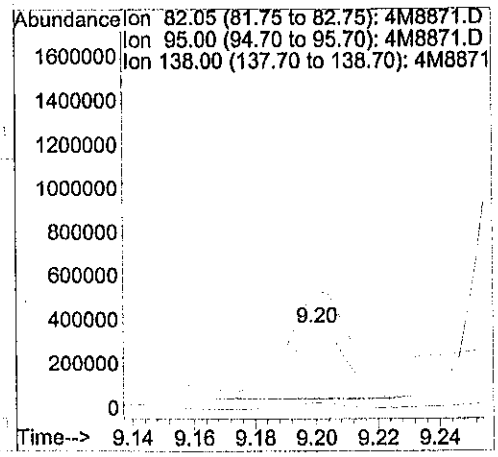


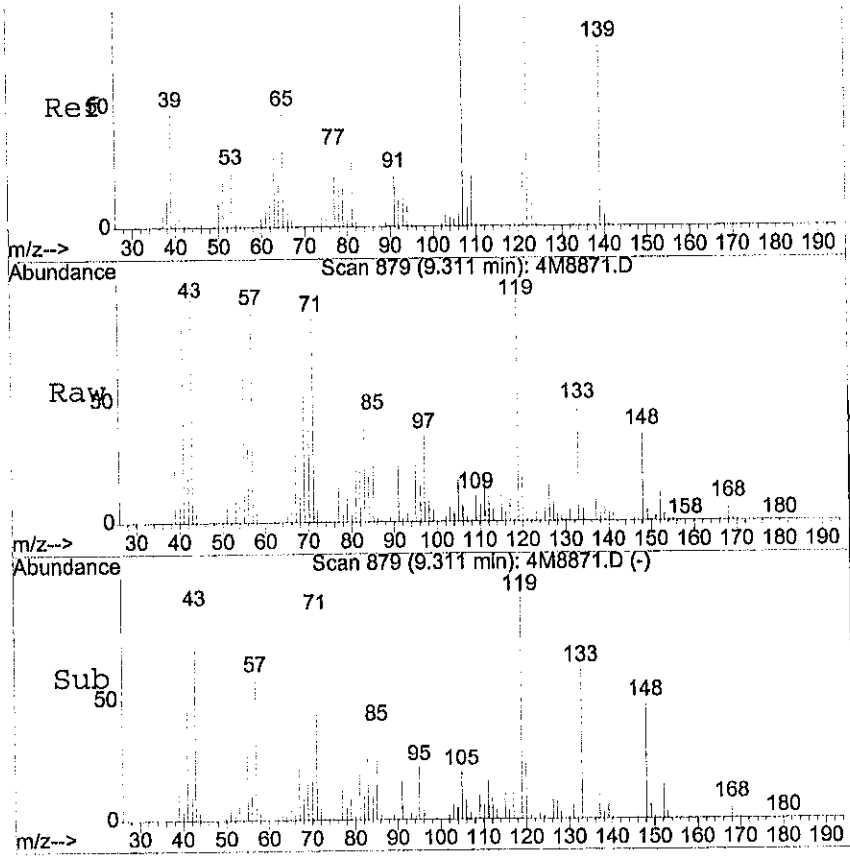


#22
Isophorone
Concen: 186.87 ug/ml
RT: 9.20 min Scan# 858
Delta R.T. -0.02 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion: 82 Resp: 402936

Ion	Ratio	Lower	Upper
82	100		
95	150.1	5.4	8.0#
138	10.0	14.0	21.0#

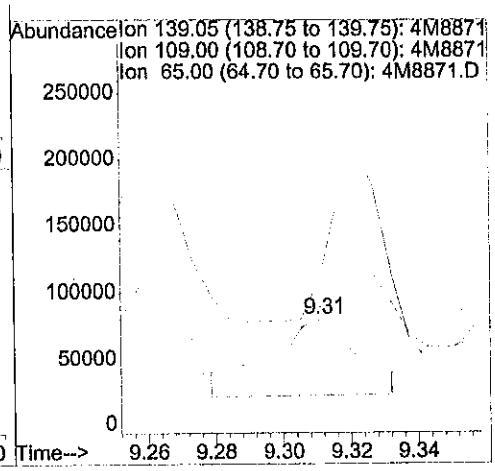


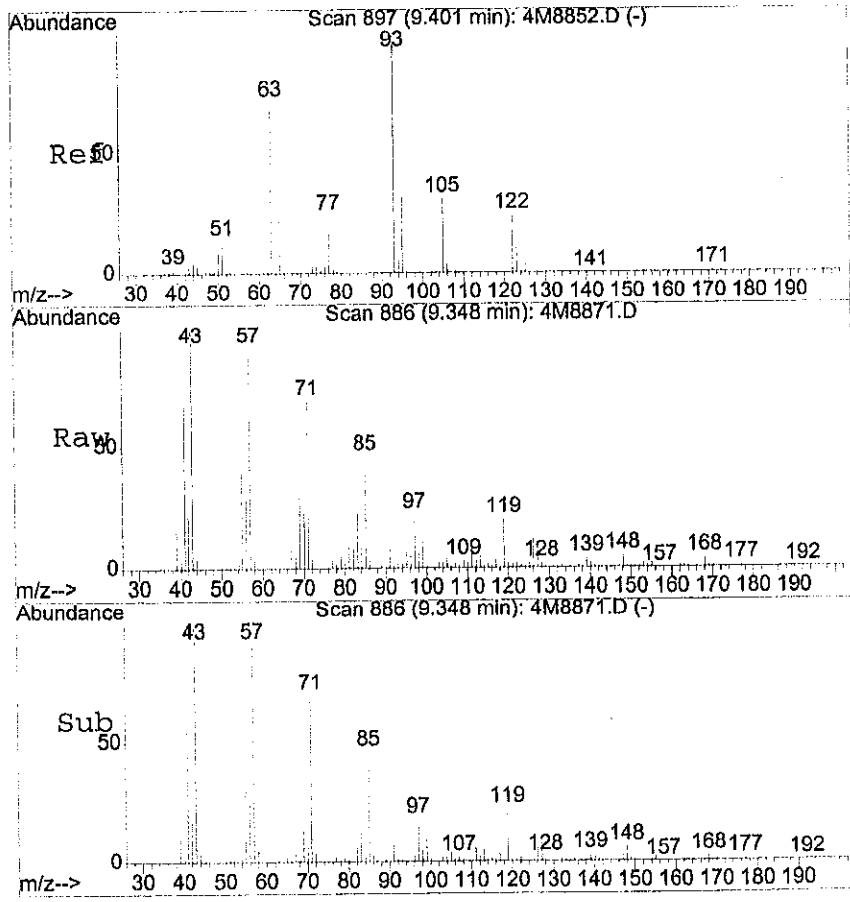


2-Nitrophenol
Concen: 160.73 ug/ml
RT: 9.31 min Scan# 879
Delta R.T. -0.01 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:139 Resp: 107776

Ion	Ratio	Lower	Upper
139	100		
109	172.4	23.4	35.0#
65	137.8	53.8	80.6#

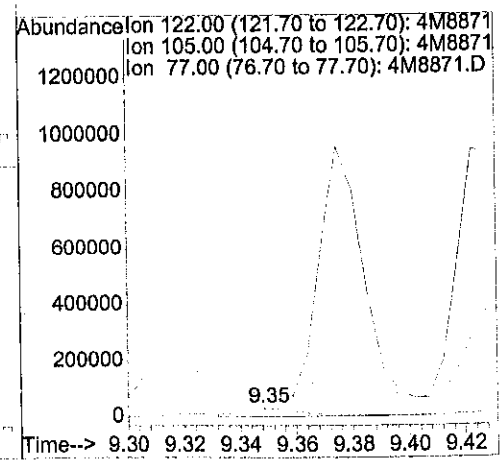


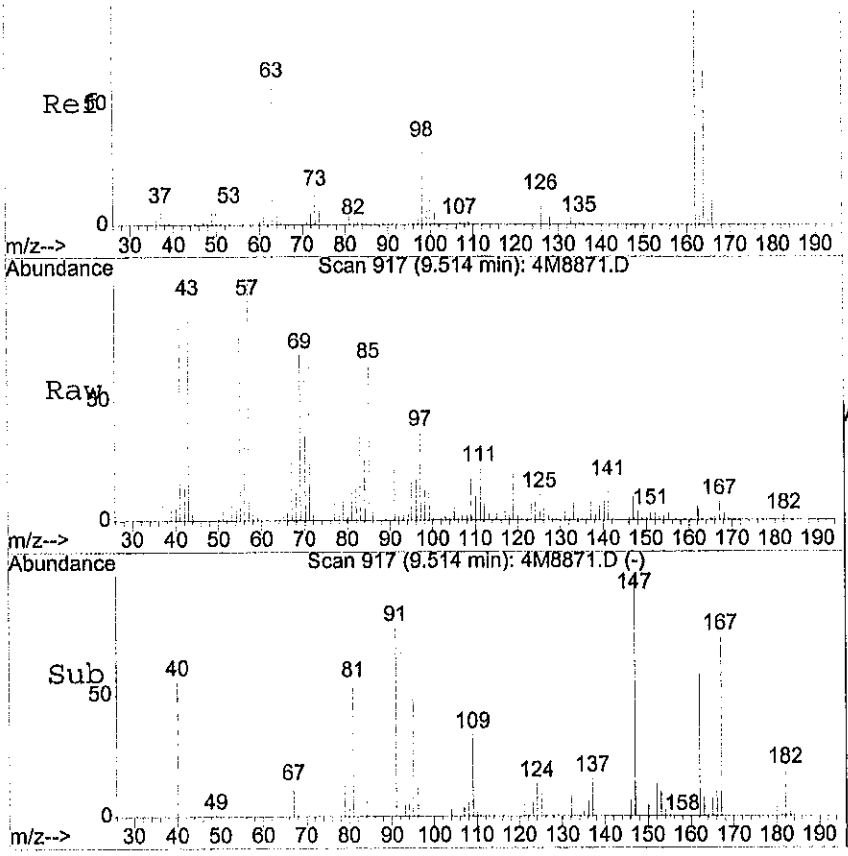


#26
Benzoic Acid
Concen: 124.68 ug/ml
RT: 9.35 min Scan# 886
Delta R.T. -0.04 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:122 Resp: 42941

Ion	Ratio	Lower	Upper
122	100		
105	2339.8	105.6	158.4#
77	400.7	80.6	121.0#

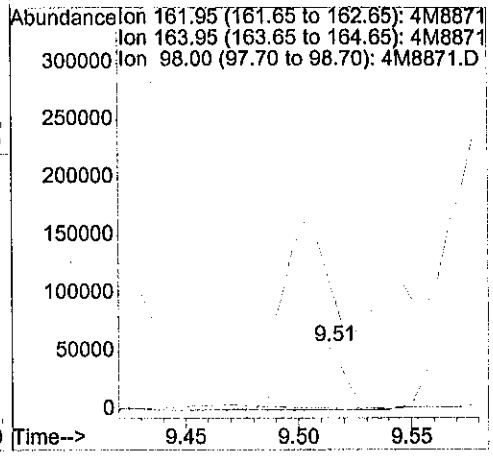


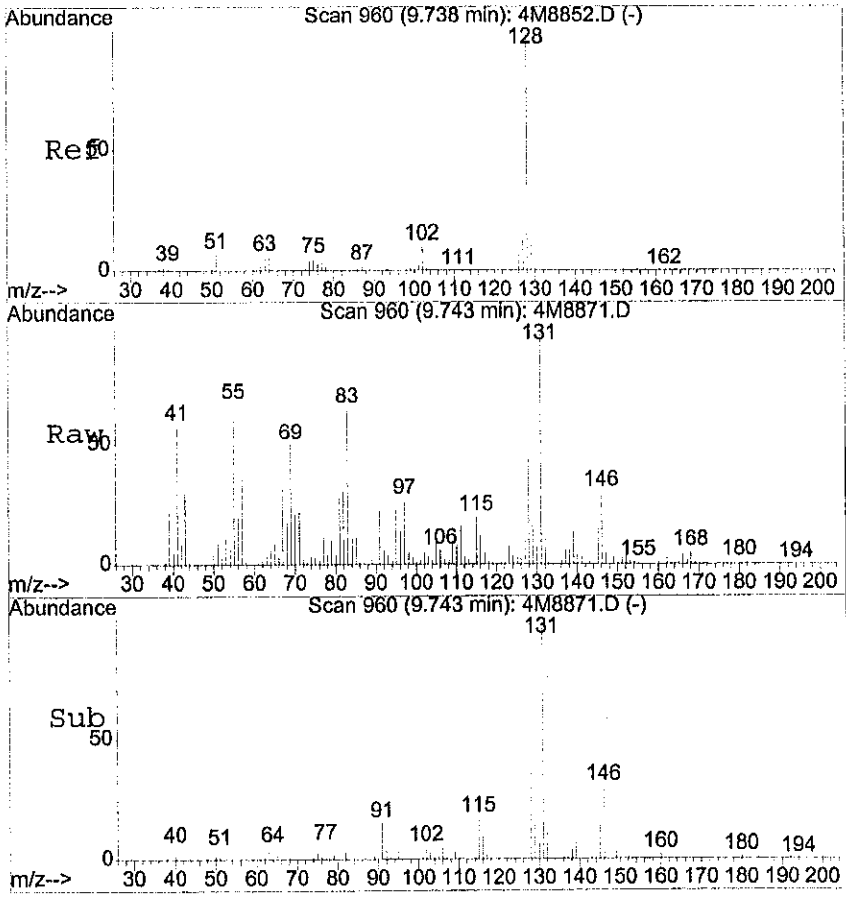


2,4-Dichlorophenol
Concen: 89.04 ug/ml
RT: 9.51 min Scan# 917
Delta R.T. -0.04 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:162 Resp: 88335

Ion	Ratio	Lower	Upper
162	100		
164	0.0	50.8	76.2#
98	156.0	28.1	42.1#

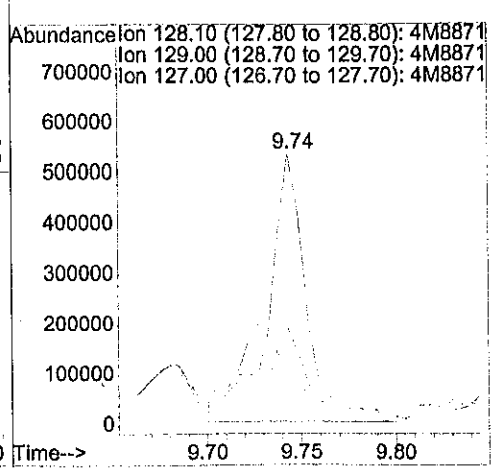


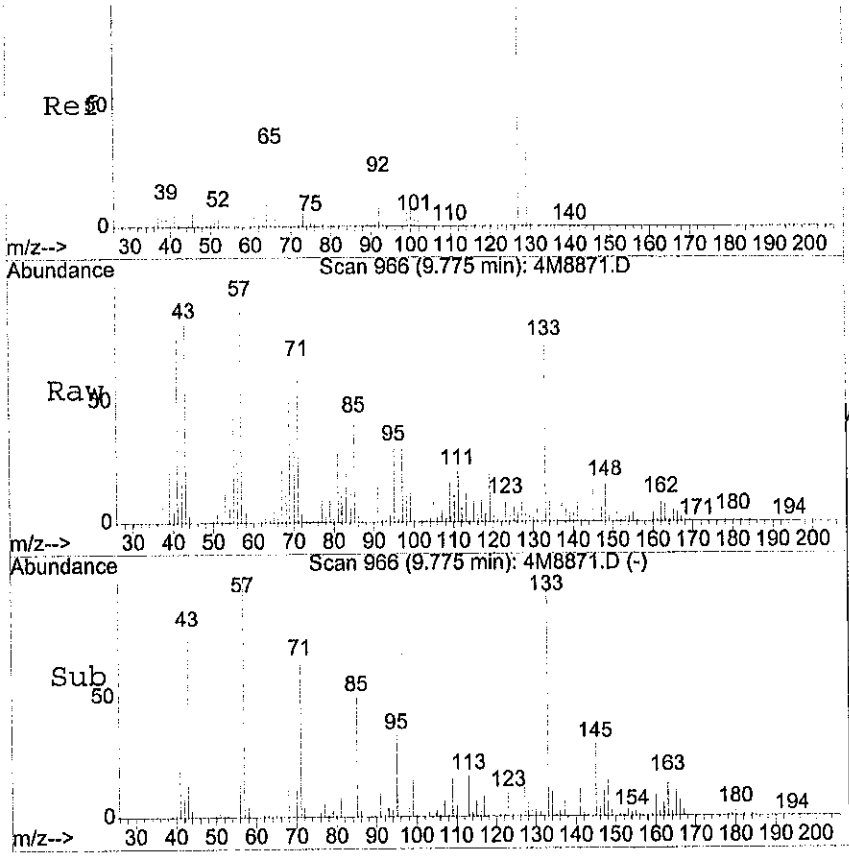


#29
Naphthalene
Concen: 209.33 ug/ml
RT: 9.74 min Scan# 960
Delta R.T. 0.00 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:128 Resp: 752221

Ion	Ratio	Lower	Upper
128	100		
129	48.4	8.9	13.3#
127	36.6	11.0	16.4#

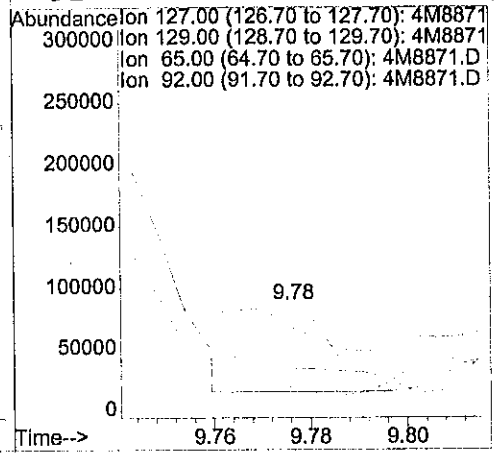


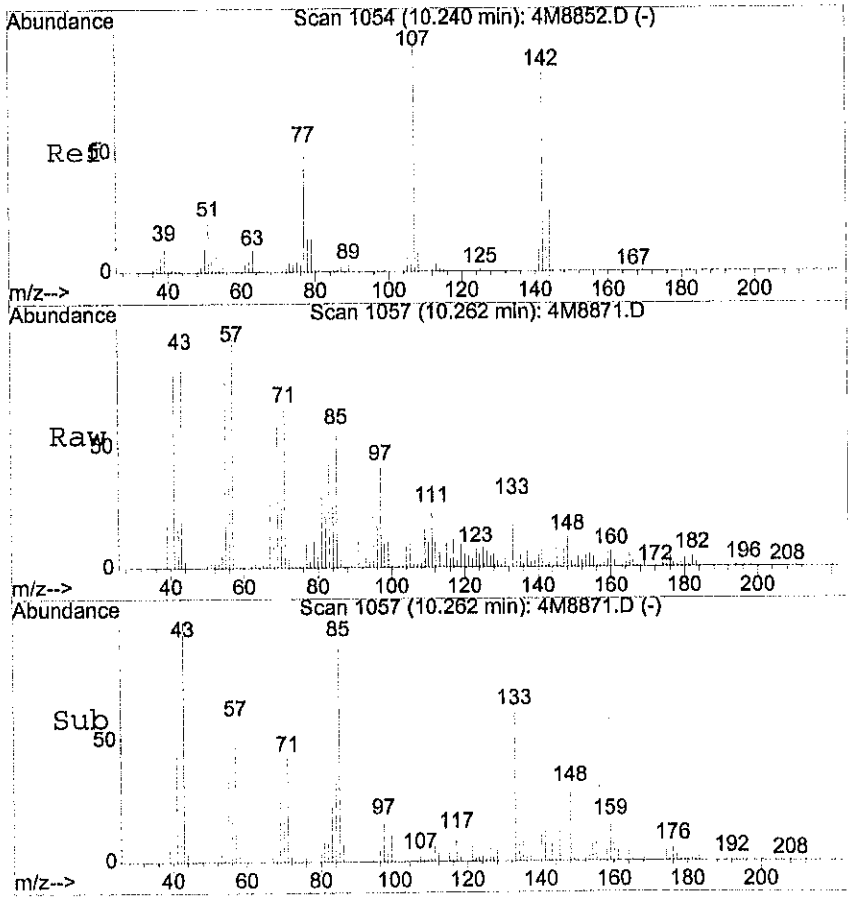


4-Chloroaniline
Concen: 58.78 ug/ml
RT: 9.78 min Scan# 966
Delta R.T. -0.00 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:127 Resp: 82839

Ion	Ratio	Lower	Upper
127	100		
129	0.0	25.1	37.7#
65	0.0	26.1	39.1#
92	0.0	15.8	23.8#

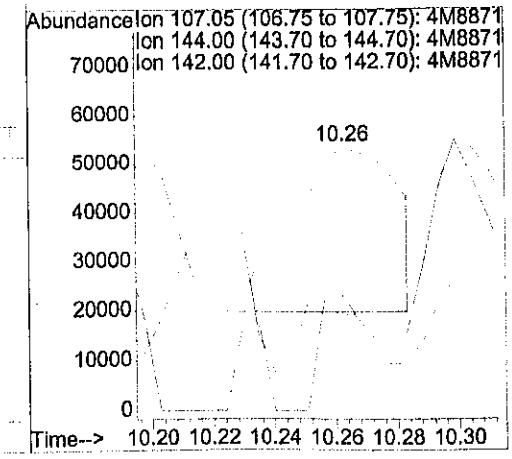


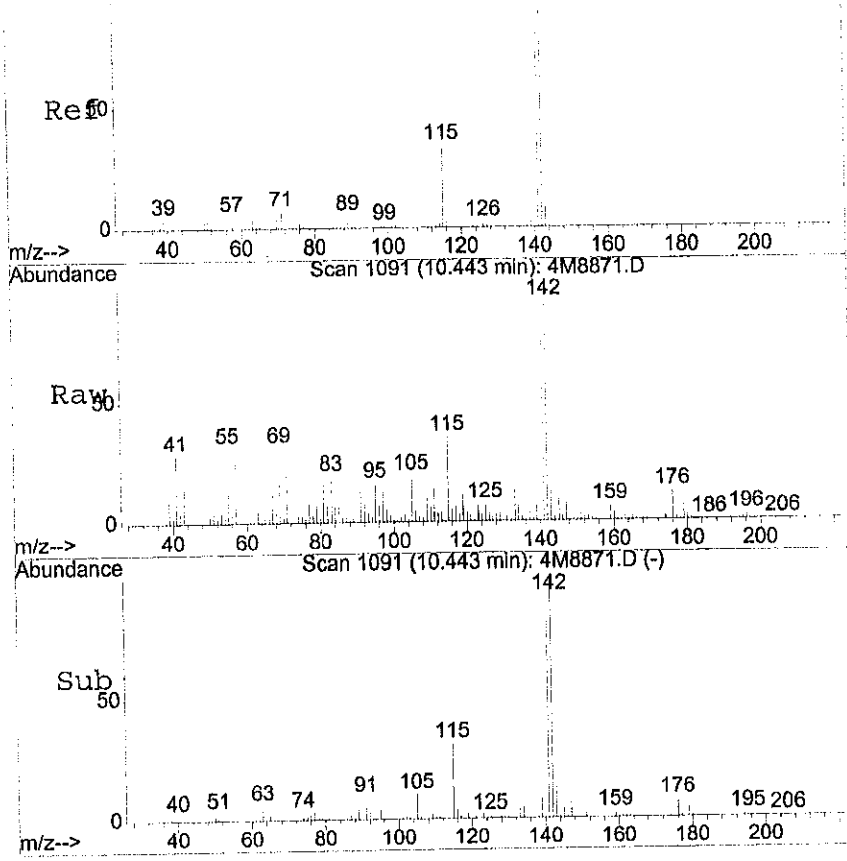


#32
4-Chloro-3-Methylphenol
Concen: 78.61 ug/ml
RT: 10.26 min Scan# 1057
Delta R.T. 0.04 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:107 Resp: 79980

Ion	Ratio	Lower	Upper
107	100		
144	36.5	20.6	30.8#
142	29.0	64.2	96.2#

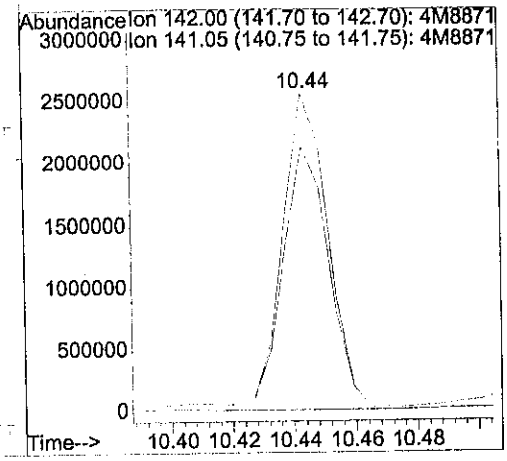


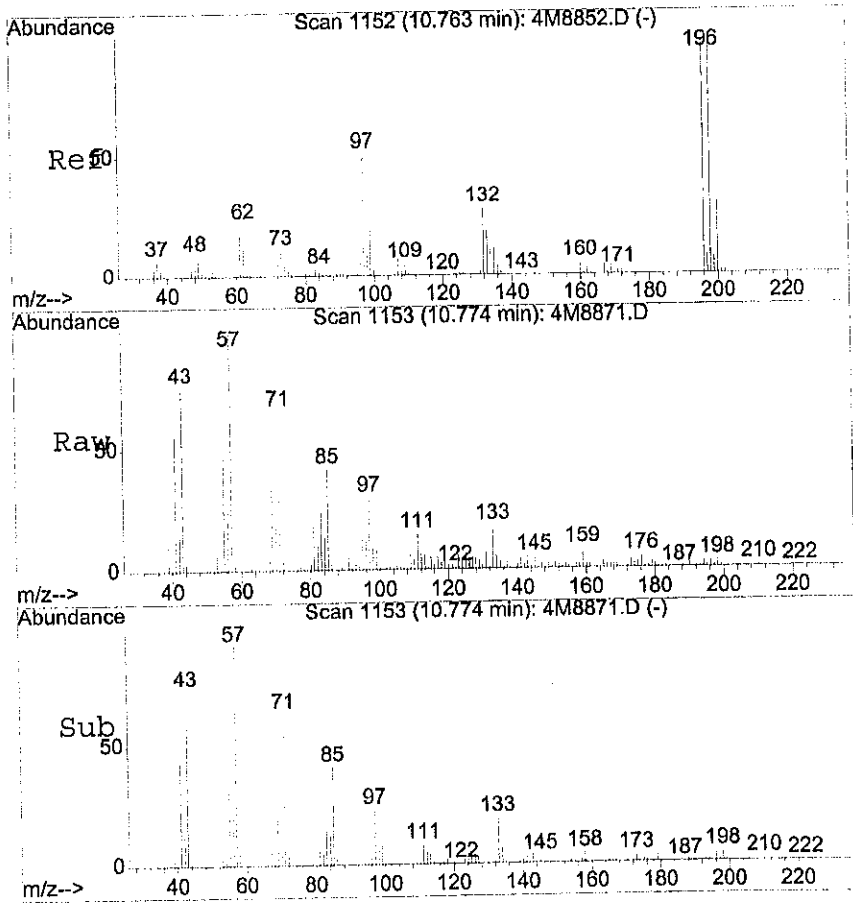


2-Methylnaphthalene
Concen: 1109.10 ug/ml
RT: 10.44 min Scan# 1091
Delta R.T. 0.02 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:142 Resp: 2602063

Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.0	102.0

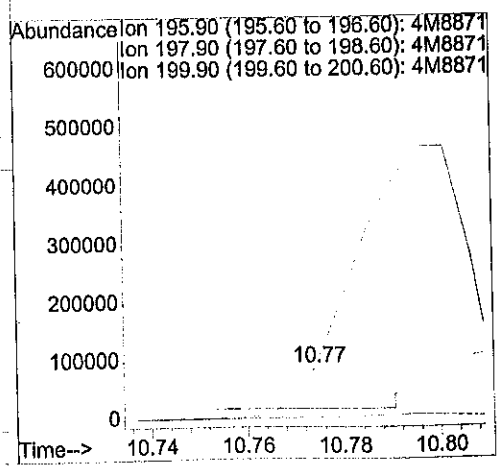


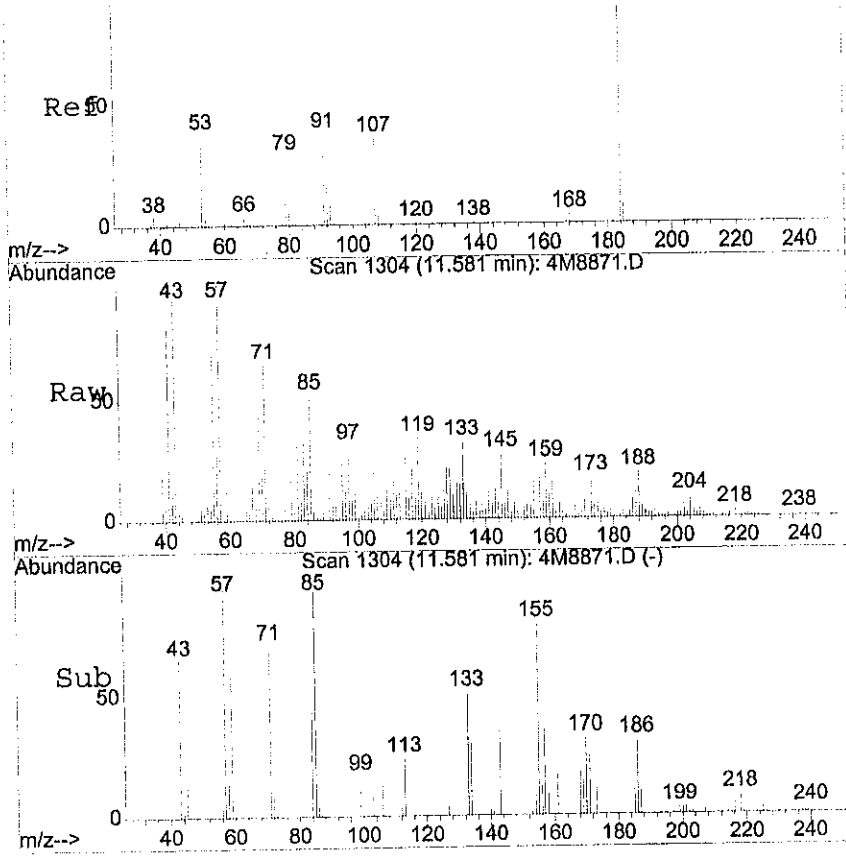


#37
2,4,5-Trichlorophenol
Concen: 84.97 ug/ml
RT: 10.77 min Scan# 1153
Delta R.T. 0.02 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:196 Resp: 81605

Ion	Ratio	Lower	Upper
196	100		
198	0.0	75.6	113.4#
200	0.0	24.2	36.4#

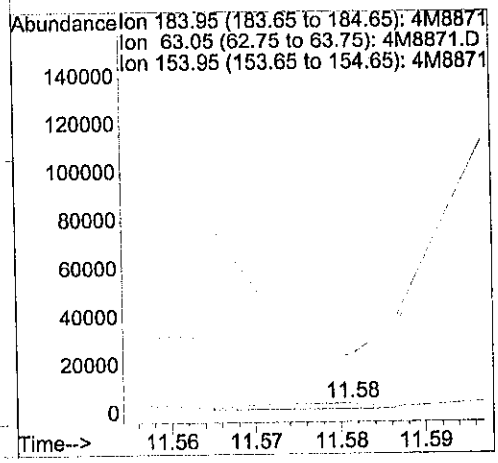


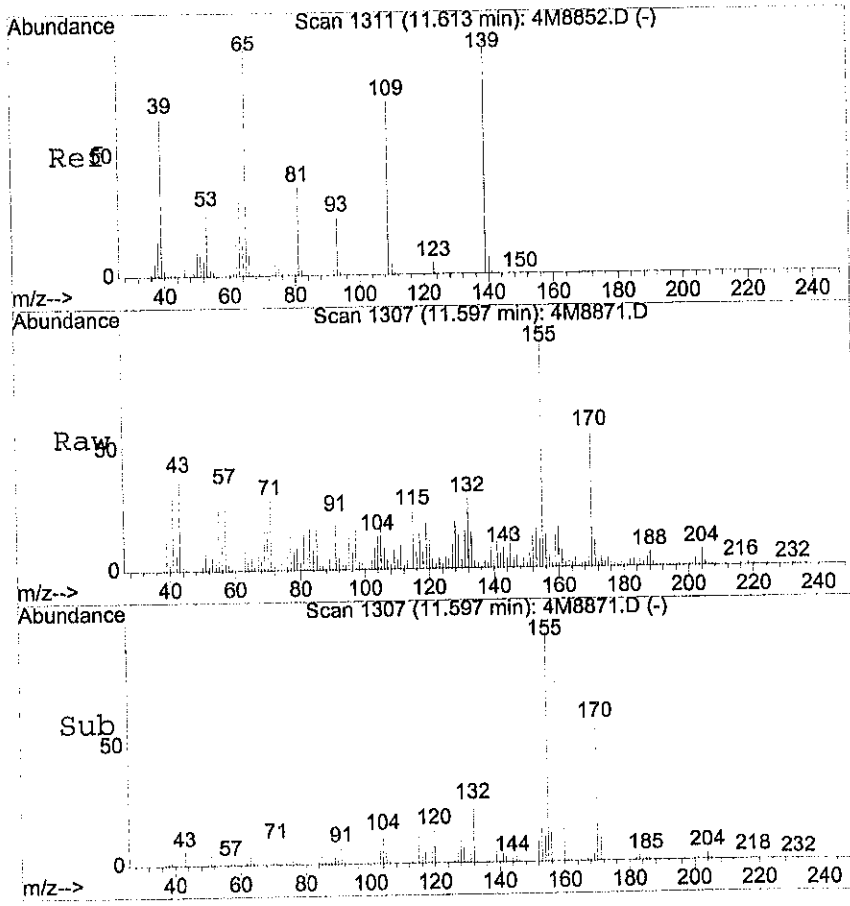


2,4-Dinitrophenol
Concen: 93.52 ug/ml
RT: 11.58 min Scan# 1304
Delta R.T. 0.01 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:184 Resp: 2388

Ion	Ratio	Lower	Upper
184	100		
63	0.0	54.6	82.0#
154	0.0	0.0	0.0

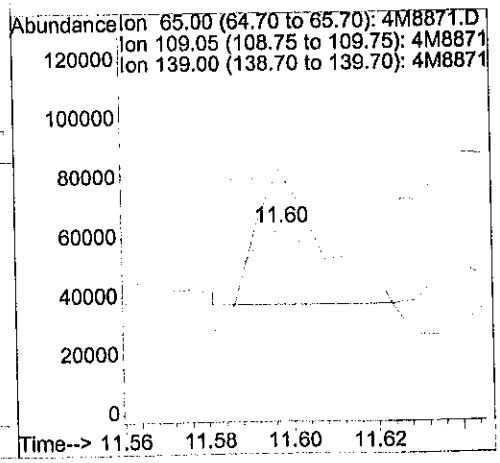


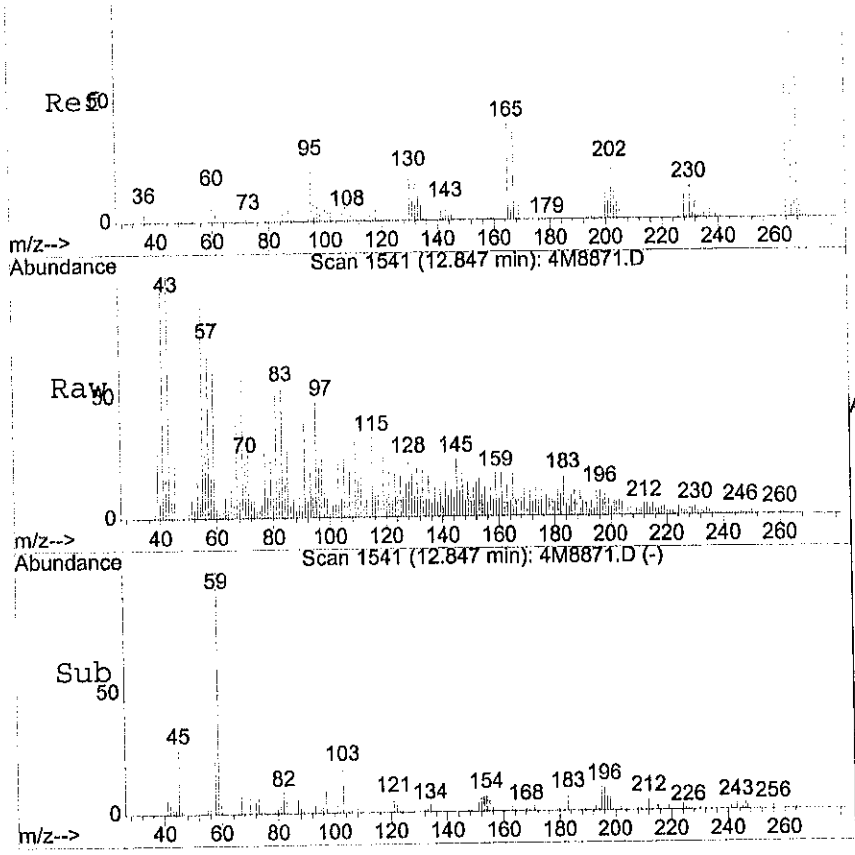


#47
4-Nitrophenol
Concen: 50.55 ug/ml
RT: 11.60 min Scan# 1307
Delta R.T. 0.00 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion: 65 Resp: 30796

Ion	Ratio	Lower	Upper
65	100		
109	0.0	55.4	83.2#
139	276.4	81.0	121.4#

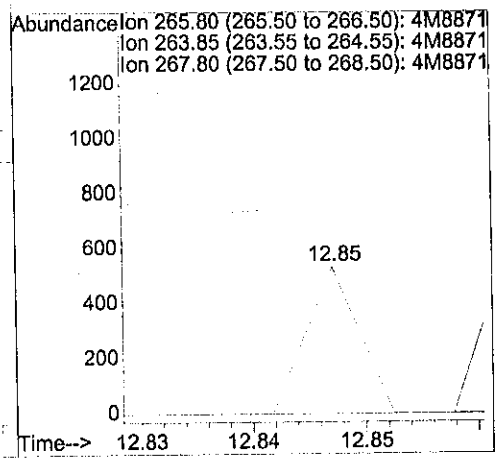


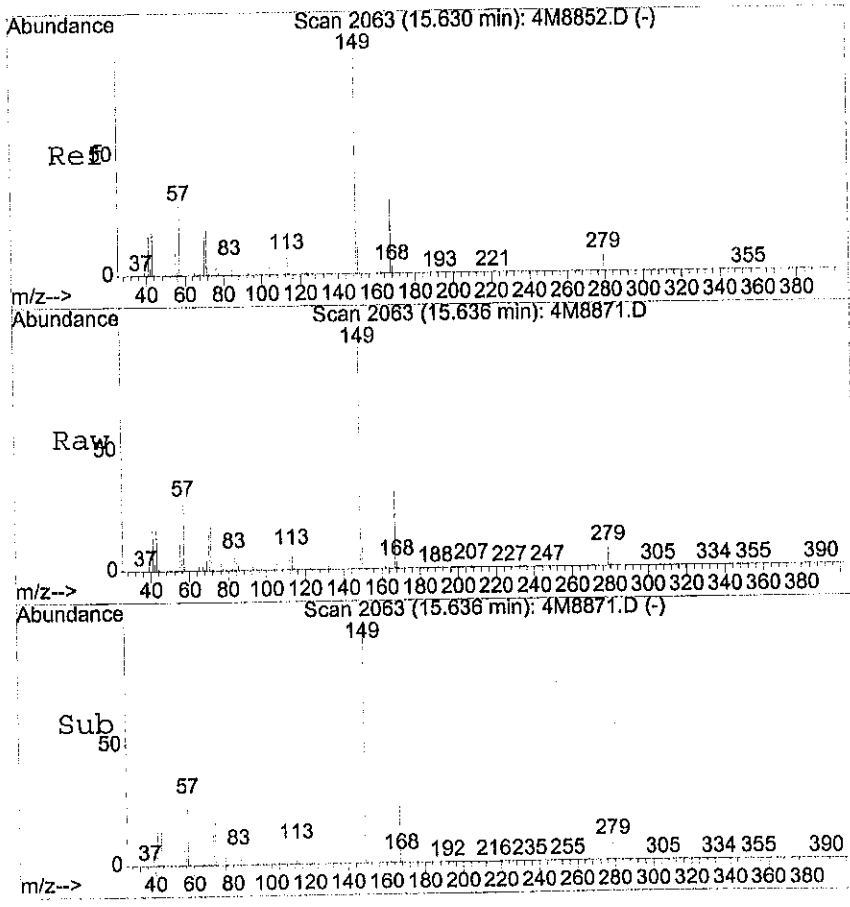


Pentachlorophenol
Concen: 50.07 ug/ml
RT: 12.85 min Scan# 1541
Delta R.T. -0.01 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:266 Resp: 170

Ion	Ratio	Lower	Upper
266	100		
264	0.0	51.5	77.3#
268	0.0	51.6	77.4#

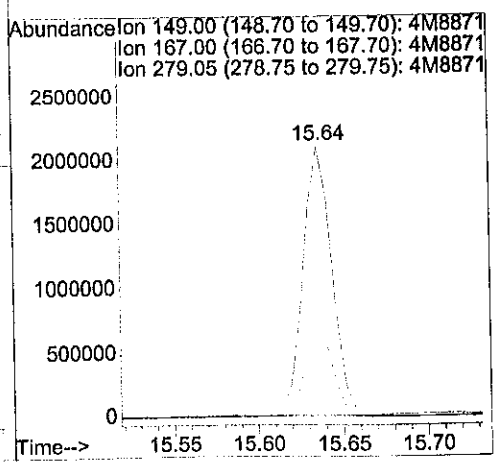




#75
bis(2-Ethylhexyl)phthalate
Concen: 972.58 ug/ml
RT: 15.64 min Scan# 2063
Delta R.T. 0.01 min
Lab File: 4M8871.D
Acq: 15 Jun 2001 20:38

Tgt Ion:149 Resp: 2526887

Ion	Ratio	Lower	Upper
149	100		
167	31.3	25.4	38.0
279	8.0	6.1	9.1



2.2.1.3 Standards Data

Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.06/13/01
Last Calibration: Wed Jun 13 07:06:53 2001
HPMS4
Calibration Files

	Compound	3 4M8804.D	10 4M8806.D	20 4M8807.D	50 4M8805.D	80 4M8808.D	100 4M8809.D	120 4M8810.D	Avg	%RSD	R^2 value
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	1.205	1.437	1.770	1.688	1.610	1.598	1.596	1.558	11.9	
	n-Nitrosodimethylamine	0.967	0.960	0.985	0.936	0.899	0.888	0.900	0.934	4.1	
S	2-Fluorophenol	1.448	1.385	1.460	1.386	1.335	1.311	1.321	1.378	4.3	
	Aniline	0.842	0.830	0.865	0.820	0.796	0.779	0.782	0.816	3.9	
S	Phenol-d5	1.740	1.694	1.790	1.717	1.637	1.611	1.626	1.688	3.9	
C	Phenol	1.939	1.880	1.968	1.871	1.805	1.782	1.797	1.863	3.9	
	bis(2-Chloroethyl)ether	1.055	0.988	1.033	0.985	0.951	0.941	0.949	0.986	4.5	
	2-Chlorophenol	1.447	1.388	1.457	1.399	1.357	1.342	1.354	1.392	3.3	
	1,3-Dichlorobenzene	1.687	1.588	1.661	1.579	1.536	1.502	1.513	1.581	4.5	
C	1,4-Dichlorobenzene	1.755	1.678	1.757	1.661	1.601	1.600	1.612	1.666	4.1	
	Benzyl Alcohol	0.874	0.931	1.013	0.986	0.971	0.959	0.974	0.958	4.7	
	1,2-Dichlorobenzene	1.647	1.517	1.575	1.518	1.470	1.459	1.473	1.523	4.5	
	2-Methylphenol	1.251	1.153	1.219	1.180	1.158	1.151	1.160	1.182	3.3	
	bis(2-Chloroisopropyl)ether	2.037	1.897	1.991	1.912	1.845	1.814	1.825	1.903	4.5	
	4-Methylphenol	1.806	1.745	1.850	1.779	1.709	1.693	1.696	1.754	3.4	
P	n-Nitrosodipropylamine	1.044	1.015	1.083	1.032	0.988	0.980	0.973	1.016	3.9	
	Hexachloroethane	0.668	0.625	0.661	0.640	0.619	0.613	0.621	0.635	3.4	
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.431	0.415	0.439	0.424	0.404	0.406	0.411	0.419	3.1	
	Nitrobenzene	0.445	0.436	0.463	0.439	0.422	0.421	0.425	0.436	3.5	
	Isophorone	0.718	0.702	0.745	0.687	0.625	0.612	0.597	0.670	8.6	
C	2-Nitrophenol	0.197	0.202	0.217	0.216	0.208	0.208	0.211	0.208	3.4	
	2,4-Dimethylphenol	0.351	0.338	0.357	0.343	0.331	0.333	0.330	0.341	3.1	
	bis(2-Chloroethoxy)methane	0.448	0.432	0.455	0.434	0.420	0.421	0.424	0.433	3.1	
	Benzoic Acid		0.093	0.108	0.141	0.135	0.143	0.157	0.129	18.5	0.997QR
C	2,4-Dichlorophenol	0.307	0.305	0.322	0.311	0.301	0.303	0.307	0.308	2.3	
	1,2,4-Trichlorobenzene	0.372	0.347	0.365	0.349	0.340	0.342	0.344	0.351	3.5	
	Naphthalene	1.223	1.120	1.167	1.107	1.065	1.063	1.065	1.116	5.4	
	4-Chloroaniline	0.437	0.429	0.462	0.453	0.433	0.429	0.421	0.438	3.3	
C	Hexachlorobutadiene	0.209	0.196	0.206	0.195	0.193	0.197	0.199	0.199	3.0	
C	4-Chloro-3-Methylphenol	0.335	0.327	0.348	0.325	0.297	0.288	0.291	0.316	7.5	
	2-Methylnaphthalene	0.778	0.744	0.768	0.725	0.698	0.694	0.692	0.728	4.9	
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.010	0.039	0.077	0.137	0.170	0.193	0.204	0.118	65.0	0.999QR
C	2,4,6-Trichlorophenol	0.373	0.356	0.385	0.380	0.362	0.354	0.354	0.366	3.6	
	2,4,5-Trichlorophenol	0.385	0.394	0.416	0.406	0.386	0.385	0.393	0.395	3.0	
S	2-Fluorobiphenyl	1.410	1.344	1.422	1.382	1.370	1.351	1.317	1.371	2.7	
	2-Chloronaphthalene	1.267	1.212	1.274	1.244	1.216	1.206	1.167	1.227	3.1	
	2-Nitroaniline			0.404	0.409	0.410	0.408	0.403	0.407	0.8	
	Dimethylphthalate	1.312	1.213	1.308	1.345	1.349	1.345	1.333	1.315	3.6	
	Acenaphthylene	1.855	1.815	1.905	1.808	1.760	1.737	1.712	1.799	3.8	
	2,6-Dinitrotoluene	0.263	0.273	0.300	0.316	0.323	0.320	0.320	0.302	8.2	
	3-Nitroaniline	0.304	0.320	0.348	0.336	0.312	0.303	0.299	0.317	5.8	
C	Acenaphthene	1.224	1.157	1.232	1.206	1.181	1.187	1.189	1.197	2.2	
P	2,4-Dinitrophenol		0.028	0.063	0.119	0.135	0.152	0.161	0.110	48.2	1.000QR
P	4-Nitrophenol			0.233	0.248	0.251	0.258	0.262	0.251	4.5	

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Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.06/13/01
Last Calibration: Wed Jun 13 07:06:53 2001
HPMS4
Calibration Files

	Compound	3 4M8804.D	10 4M8806.D	20 4M8807.D	50 4M8805.D	80 4M8808.D	100 4M8809.D	120 4M8810.D	Avg	%RSD	R^2 value
	Dibenzofuran	1.754	1.660	1.744	1.649	1.693	1.685	1.704	1.698	2.3	
	2,4-Dinitrotoluene	0.335	0.377	0.421	0.427	0.430	0.431	0.431	0.407	9.2	
	Diethylphthalate	1.264	1.247	1.348	1.313	1.322	1.318	1.302	1.302	2.7	
	Fluorene	1.323	1.275	1.340	1.352	1.384	1.387	1.385	1.349	3.1	
	4-Chlorophenyl Phenyl Ether	0.660	0.619	0.656	0.676	0.703	0.709	0.715	0.677	5.2	
	4-Nitroaniline	0.322	0.310	0.308	0.330	0.269	0.270	0.278	0.298	8.4	
	1,2-Diphenylhydrazine	1.468	1.381	1.468	1.498	1.509	1.484	1.471	1.468	2.8	
S	2,4,6-Tribromophenol	0.138	0.133	0.154	0.163	0.168	0.171	0.174	0.157	10.4	
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylphenol			0.118	0.145	0.155	0.157	0.164	0.148	12.1	
C	n-Nitrosodiphenylamine	0.617	0.581	0.635	0.636	0.627	0.626	0.631	0.622	3.1	
	4-Bromophenyl Phenyl Ether	0.227	0.216	0.228	0.233	0.237	0.238	0.243	0.232	3.9	
	Hexachlorobenzene	0.227	0.231	0.241	0.240	0.242	0.247	0.253	0.240	3.7	
C	Pentachlorophenol		0.071	0.081	0.100	0.098	0.101	0.108	0.093	15.2	0.996LR
	Phenanthrene	1.350	1.270	1.315	1.262	1.229	1.211	1.200	1.262	4.4	
	Anthracene	1.311	1.260	1.306	1.273	1.246	1.237	1.245	1.268	2.4	
	Carbazole	1.298	1.125	1.046	0.991	0.920	0.864	0.893	1.020	15.0	
	Di-n-Butyl Phthalate	1.528	1.403	1.473	1.440	1.401	1.379	1.360	1.426	4.1	
C	Fluoranthene	1.575	1.420	1.465	1.445	1.417	1.398	1.403	1.446	4.2	
I	Chrysene-d12	ISTD									
	Benzidine		0.160	0.169	0.143	0.143	0.145	0.123	0.147	10.9	
	Pyrene	1.454	1.388	1.463	1.379	1.370	1.361	1.345	1.394	3.3	
S	p-Terphenyl-d14	0.971	0.937	0.991	0.955	0.979	0.968	0.985	0.969	1.9	
	Butyl Benzyl Phthalate	0.667	0.625	0.670	0.628	0.606	0.593	0.587	0.625	5.3	
	Benzo[a]anthracene	1.437	1.331	1.394	1.310	1.297	1.286	1.278	1.333	4.5	
	3,3'-Dichlorobenzidine	0.485	0.383	0.381	0.340	0.335	0.330	0.376	0.376	14.2	
	Chrysene	1.401	1.326	1.383	1.312	1.300	1.275	1.276	1.325	3.8	
	bis(2-Ethylhexyl)phthalate	0.919	0.842	0.893	0.827	0.804	0.789	0.783	0.837	6.2	
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.929	1.904	2.062	1.997	1.940	1.930	1.941	1.958	2.8	
	Benzo[b]fluoranthene	1.630	1.630	1.776	1.646	1.672	1.664	1.743	1.680	3.4	
	Benzo[k]fluoranthene	1.727	1.672	1.712	1.739	1.700	1.728	1.723	1.715	1.3	
C	Benzo[a]pyrene	1.542	1.528	1.595	1.555	1.541	1.541	1.569	1.553	1.5	
	Indeno[1,2,3-cd]pyrene	1.598	1.639	1.738	1.627	1.479	1.446	1.372	1.557	8.2	
	Dibenz[ah]anthracene	0.973	1.008	1.068	1.000	0.926	0.906	0.875	0.965	6.9	
	Benzo[ghi]perylene	1.431	1.434	1.498	1.340	1.131	1.091	1.027	1.279	15.0	

I=ISTD/S=SURR/C=CCC/P=SPCC
Wed Jun 13 09:01:08 2001

Average %RSD
6.5

221

Data File : C:\HPCHEM\1\DATA\061201\4M8804.D Vial: 6
Acq On : 12 Jun 2001 16:31 Operator: mdc
Sample : 3PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:02:43 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	318086	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1196251	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	651820	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1009870	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1116354	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	867862	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	34534	2.86	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 2.86%#			
6) Phenol-d5	8.01	99	41511	2.81	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 2.81%#			
20) Nitrobenzene-d5	8.98	82	38662	2.81	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 5.62%#			
38) 2-Fluorobiphenyl	10.78	172	68949	2.41	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 4.82%#			
55) 2,4,6-Tribromophenol	12.33	330	6737	9.93	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 9.93%#			
70) p-Terphenyl-d14	14.64	244	81289	2.54	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 5.08%#			
Target Compounds						Qvalue
2) Pyridine	5.42	79	28750	3.54	ug/ml#	85
3) n-Nitrosodimethylamine	5.36	74	23068	3.04	ug/ml#	99
5) Aniline	8.08	66	20081	2.84	ug/ml	96
7) Phenol	8.02	94	46251	2.87	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	25163	2.89	ug/ml	98
9) 2-Chlorophenol	8.20	128	34529	2.62	ug/ml	99
10) 1,3-Dichlorobenzene	8.35	146	40237	2.64	ug/ml	97
11) 1,4-Dichlorobenzene	8.42	146	41860	2.56	ug/ml#	90
12) Benzyl Alcohol	8.54	108	20861	2.47	ug/ml	97
13) 1,2-Dichlorobenzene	8.59	146	39302	2.67	ug/ml	99
14) 2-Methylphenol	8.63	107	29851	2.88	ug/ml#	89
15) bis(2-Chloroisopropyl)ethe	8.65	45	48603	2.77	ug/ml	95
16) 4-Methylphenol	8.77	107	43091	2.81	ug/ml	99
17) n-Nitrosodipropylamine	8.79	70	24905	2.95	ug/ml	99
18) Hexachloroethane	8.93	117	15926	2.61	ug/ml	98
21) Nitrobenzene	9.01	77	39889	2.81	ug/ml	97
22) Isophorone	9.22	82	64436	3.03	ug/ml	100
23) 2-Nitrophenol	9.33	139	17668	2.37	ug/ml	93
24) 2,4-Dimethylphenol	9.31	122	31488	2.71	ug/ml	96
25) bis(2-Chloroethoxy)methane	9.41	93	40163	2.82	ug/ml	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8804.D
Acq On : 12 Jun 2001 16:31
Sample : 3PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:02:43 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.36	122	7724	1.71	ug/ml	93
27) 2,4-Dichlorophenol	9.56	162	27521	2.54	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.64	180	33344	2.63	ug/ml	98
29) Naphthalene	9.74	128	109719	2.70	ug/ml	100
30) 4-Chloroaniline	9.78	127	39165	2.50	ug/ml	99
31) Hexachlorobutadiene	9.83	225	18723	2.45	ug/ml	98
32) 4-Chloro-3-Methylphenol	10.23	107	30058	2.89	ug/ml	97
33) 2-Methylnaphthalene	10.43	142	69776	2.70	ug/ml	98
35) Hexachlorocyclopentadiene	10.59	237	473	6.06	ug/ml#	28
36) 2,4,6-Trichlorophenol	10.71	196	18231	2.55	ug/ml	99
37) 2,4,5-Trichlorophenol	10.76	196	18840	2.42	ug/ml	99
39) 2-Chloronaphthalene	10.94	162	61953	2.50	ug/ml	99
40) 2-Nitroaniline	11.05	65	18846	2.46	ug/ml	97
41) Dimethylphthalate	11.18	163	64148	2.40	ug/ml	99
42) Acenaphthylene	11.38	152	90690	2.53	ug/ml	99
43) 2,6-Dinitrotoluene	11.28	165	12840	7.07	ug/ml	91
44) 3-Nitroaniline	11.46	138	14865	2.50	ug/ml	95
45) Acenaphthene	11.55	154	59856	2.49	ug/ml	95
46) 2,4-Dinitrophenol	11.59	184	218	20.09	ug/ml#	1
47) 4-Nitrophenol	11.60	65	10010	2.04	ug/ml	88
48) Dibenzofuran	11.72	168	85745	2.53	ug/ml	98
49) 2,4-Dinitrotoluene	11.69	165	16365	6.59	ug/ml	93
50) Diethylphthalate	11.88	149	61786	2.36	ug/ml	99
51) Fluorene	12.07	166	64655	6.49	ug/ml	98
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	32244	7.18	ug/ml	96
53) 4-Nitroaniline	12.10	138	15723	2.81	ug/ml	91
54) 1,2-Diphenylhydrazine	12.20	77	71758	5.67	ug/ml	97
57) 4,6-Dinitro-2-Methylphenol	12.12	198	4711	3.72	ug/ml#	72
58) n-Nitrosodiphenylamine	12.16	169	46722	2.49	ug/ml	97
59) 4-Bromophenyl Phenyl Ether	12.54	248	17199	8.04	ug/ml	96
60) Hexachlorobenzene	12.66	284	17181	8.81	ug/ml	95
61) Pentachlorophenol	12.85	266	5299	1.59	ug/ml	95
62) Phenanthrene	13.08	178	102276	2.59	ug/ml	97
63) Anthracene	13.12	178	99264	2.54	ug/ml	99
64) Carbazole	13.28	167	98332	3.33	ug/ml	99
65) Di-n-Butyl Phthalate	13.53	149	115697	2.64	ug/ml	99
66) Fluoranthene	14.31	202	119265	2.68	ug/ml	99
68) Benzidine	14.41	184	11158	2.80	ug/ml	100
69) Pyrene	14.55	202	121753	2.97	ug/ml	100
71) Butyl Benzyl Phthalate	15.09	149	55855	3.04	ug/ml	98
72) Benzo[a]anthracene	15.81	228	120287	2.91	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8804.D
Acq On : 12 Jun 2001 16:31
Sample : 3PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:02:43 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	40580	3.95	ug/ml	99
74) Chrysene	15.86	228	117341	2.85	ug/ml	99
75) bis(2-Ethylhexyl)phthalate	15.62	149	76983	3.15	ug/ml	98
77) Di-n-Octyl Phthalate	16.43	149	125557	2.83	ug/ml	96
78) Benzo[b]fluoranthene	17.38	252	106092	2.46	ug/ml	96
79) Benzo[k]fluoranthene	17.43	252	112434	2.52	ug/ml	99
80) Benzo[a]pyrene	18.02	252	100355	2.56	ug/ml	97
81) Indeno[1,2,3-cd]pyrene	20.71	276	104037	2.59	ug/ml#	99
82) Dibenz[ah]anthracene	20.71	278	63330	2.42	ug/ml	98
83) Benzo[ghi]perylene	21.54	276	93142	2.98	ug/ml#	88

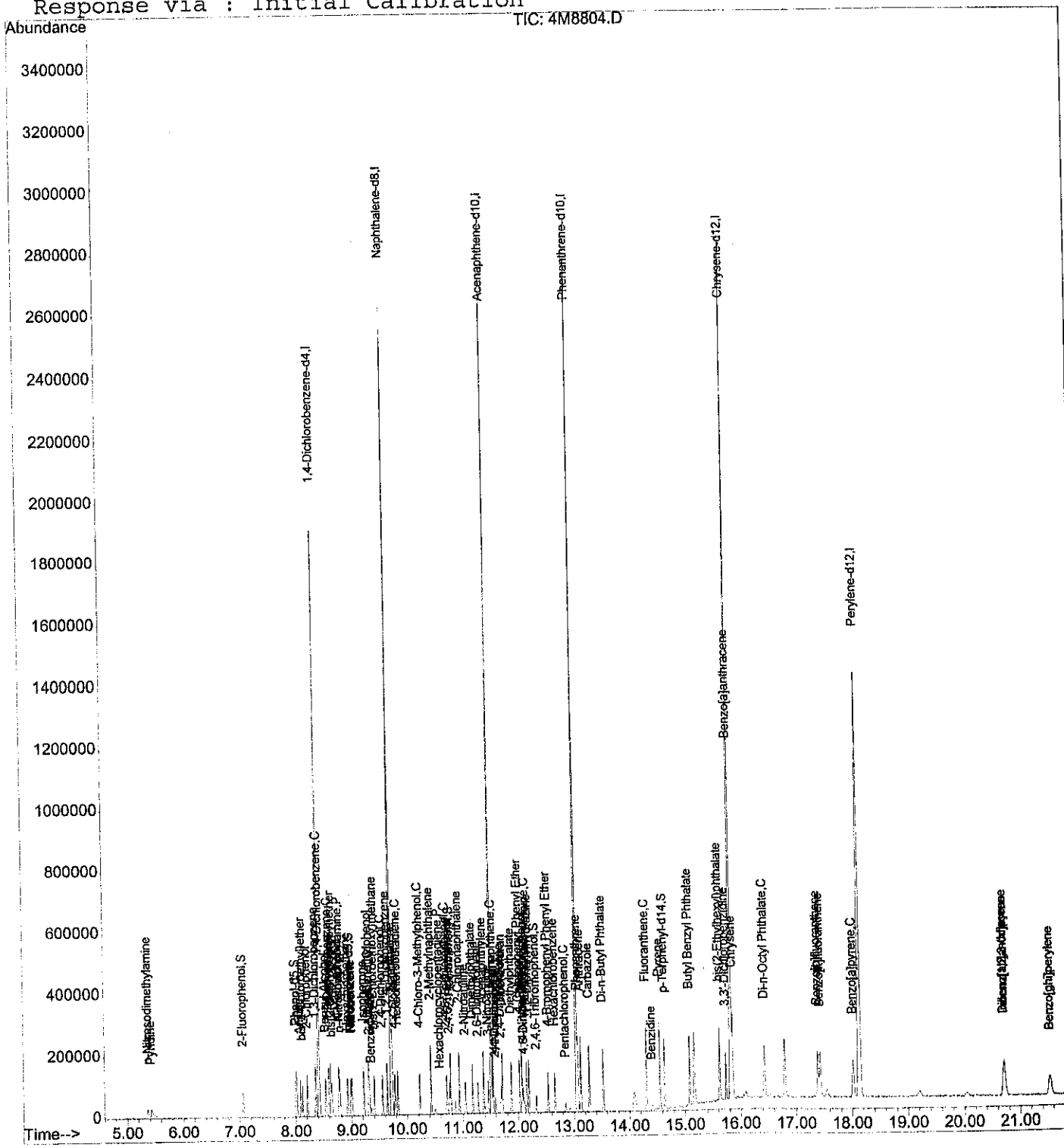
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8804.D
Acq On : 12 Jun 2001 16:31
Sample : 3PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061201\4M8805.D
Acq On : 12 Jun 2001 17:04
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001

Vial: 7
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Tue Jun 12 15:30:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	338233	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1284249	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	688309	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1121394	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1219653	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	868701	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	586059	45.86	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 45.86%			
6) Phenol-d5	8.00	99	725790	46.25	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 46.25%			
20) Nitrobenzene-d5	8.99	82	680684	46.12	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 92.24%			
38) 2-Fluorobiphenyl	10.79	172	1189084	39.31	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 78.62%			
55) 2,4,6-Tribromophenol	12.33	330	140511	31.99	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 31.99%			
70) p-Terphenyl-d14	14.63	244	1456073	41.56	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 83.12%			
Target Compounds						Qvalue
2) Pyridine	5.36	79	713558	48.25	ug/ml	99
3) n-Nitrosodimethylamine	5.35	74	395693	49.28	ug/ml	98
5) Aniline	8.08	66	346889	46.25	ug/ml	97
7) Phenol	8.01	94	791196	46.31	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	416238	45.12	ug/ml	99
9) 2-Chlorophenol	8.21	128	591502	42.20	ug/ml	99
10) 1,3-Dichlorobenzene	8.36	146	667724	41.23	ug/ml	100
11) 1,4-Dichlorobenzene	8.42	146	702117	40.31	ug/ml	100
12) Benzyl Alcohol	8.53	108	416973	46.56	ug/ml	99
13) 1,2-Dichlorobenzene	8.59	146	641713	41.04	ug/ml	100
14) 2-Methylphenol	8.62	107	498871	45.30	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.65	45	808564	43.50	ug/ml	99
16) 4-Methylphenol	8.77	107	752029	46.19	ug/ml	100
17) n-Nitrosodipropylamine	8.79	70	436366	48.69	ug/ml	100
18) Hexachloroethane	8.93	117	270563	41.64	ug/ml	100
21) Nitrobenzene	9.00	77	704294	46.28	ug/ml	99
22) Isophorone	9.22	82	1103061	48.24	ug/ml	100
23) 2-Nitrophenol	9.32	139	346326	43.40	ug/ml	99
24) 2,4-Dimethylphenol	9.31	122	551109	44.20	ug/ml	100
25) bis(2-Chloroethoxy)methane	9.41	93	697365	45.68	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8805.D Vial: 7
Acq On : 12 Jun 2001 17:04 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Tue Jun 12 15:30:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) Benzoic Acid	9.39	122	225997	50.04 ug/ml	97
27) 2,4-Dichlorophenol	9.55	162	498831	42.87 ug/ml	99
28) 1,2,4-Trichlorobenzene	9.64	180	559870	41.09 ug/ml	100
29) Naphthalene	9.74	128	1777444	40.62 ug/ml	99
30) 4-Chloroaniline	9.78	127	727492	43.24 ug/ml	100
31) Hexachlorobutadiene	9.83	225	312499	37.92 ug/ml	98
32) 4-Chloro-3-Methylphenol	10.23	107	521035	46.63 ug/ml	99
33) 2-Methylnaphthalene	10.43	142	1163054	41.81 ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	117515	38.83 ug/ml	100
36) 2,4,6-Trichlorophenol	10.71	196	326951	43.41 ug/ml	99
37) 2,4,5-Trichlorophenol	10.75	196	349017	42.43 ug/ml	99
39) 2-Chloronaphthalene	10.94	162	1069901	40.83 ug/ml	100
40) 2-Nitroaniline	11.05	65	352078	43.41 ug/ml	98
41) Dimethylphthalate	11.18	163	1157574	40.91 ug/ml	100
42) Acenaphthylene	11.38	152	1555878	40.95 ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	271847	39.14 ug/ml	100
44) 3-Nitroaniline	11.46	138	288766	46.17 ug/ml	99
45) Acenaphthene	11.55	154	1037542	40.80 ug/ml	99
46) 2,4-Dinitrophenol	11.57	184	102210	41.77 ug/ml#	98
47) 4-Nitrophenol	11.59	65	213716	41.30 ug/ml	98
48) Dibenzofuran	11.72	168	1419201	39.67 ug/ml	99
49) 2,4-Dinitrotoluene	11.70	165	367018	38.68 ug/ml	100
50) Diethylphthalate	11.88	149	1129627	40.75 ug/ml	100
51) Fluorene	12.07	166	1163253	38.04 ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	581801	38.57 ug/ml	99
53) 4-Nitroaniline	12.10	138	283998	48.95 ug/ml	99
54) 1,2-Diphenylhydrazine	12.20	77	1288821	42.33 ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.12	198	202572	46.25 ug/ml	97
58) n-Nitrosodiphenylamine	12.16	169	891029	42.89 ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	326372	35.48 ug/ml	99
60) Hexachlorobenzene	12.66	284	336347	32.06 ug/ml	99
61) Pentachlorophenol	12.85	266	139587	37.81 ug/ml	98
62) Phenanthrene	13.08	178	1768663	40.36 ug/ml	100
63) Anthracene	13.13	178	1784816	41.12 ug/ml	100
64) Carbazole	13.28	167	1389496	43.20 ug/ml	100
65) Di-n-Butyl Phthalate	13.53	149	2018369	41.37 ug/ml	100
66) Fluoranthene	14.31	202	2025036	40.90 ug/ml	100
68) Benzidine	14.41	184	218097	50.92 ug/ml	100
69) Pyrene	14.55	202	2103005	46.80 ug/ml	100
71) Butyl Benzyl Phthalate	15.09	149	956682	47.50 ug/ml	99
72) Benzo[a]anthracene	15.81	228	1996738	44.10 ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8805.D Vial: 7
Acq On : 12 Jun 2001 17:04 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Tue Jun 12 15:30:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.74	252	518246	45.88	ug/ml	99
74)	Chrysene	15.87	228	1999684	44.40	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.63	149	1260583	47.01	ug/ml	99
77)	Di-n-Octyl Phthalate	16.43	149	2168545	48.74	ug/ml	100
78)	Benzo[b]fluoranthene	17.39	252	1787535	41.59	ug/ml	100
79)	Benzo[k]fluoranthene	17.44	252	1888726	42.29	ug/ml	100
80)	Benzo[a]pyrene	18.02	252	1688949	43.07	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.73	276	1767209	43.94	ug/ml#	99
82)	Dibenz[ah]anthracene	20.73	278	1085639	41.34	ug/ml	100
83)	Benzo[ghi]perylene	21.55	276	1454751	46.35	ug/ml	99

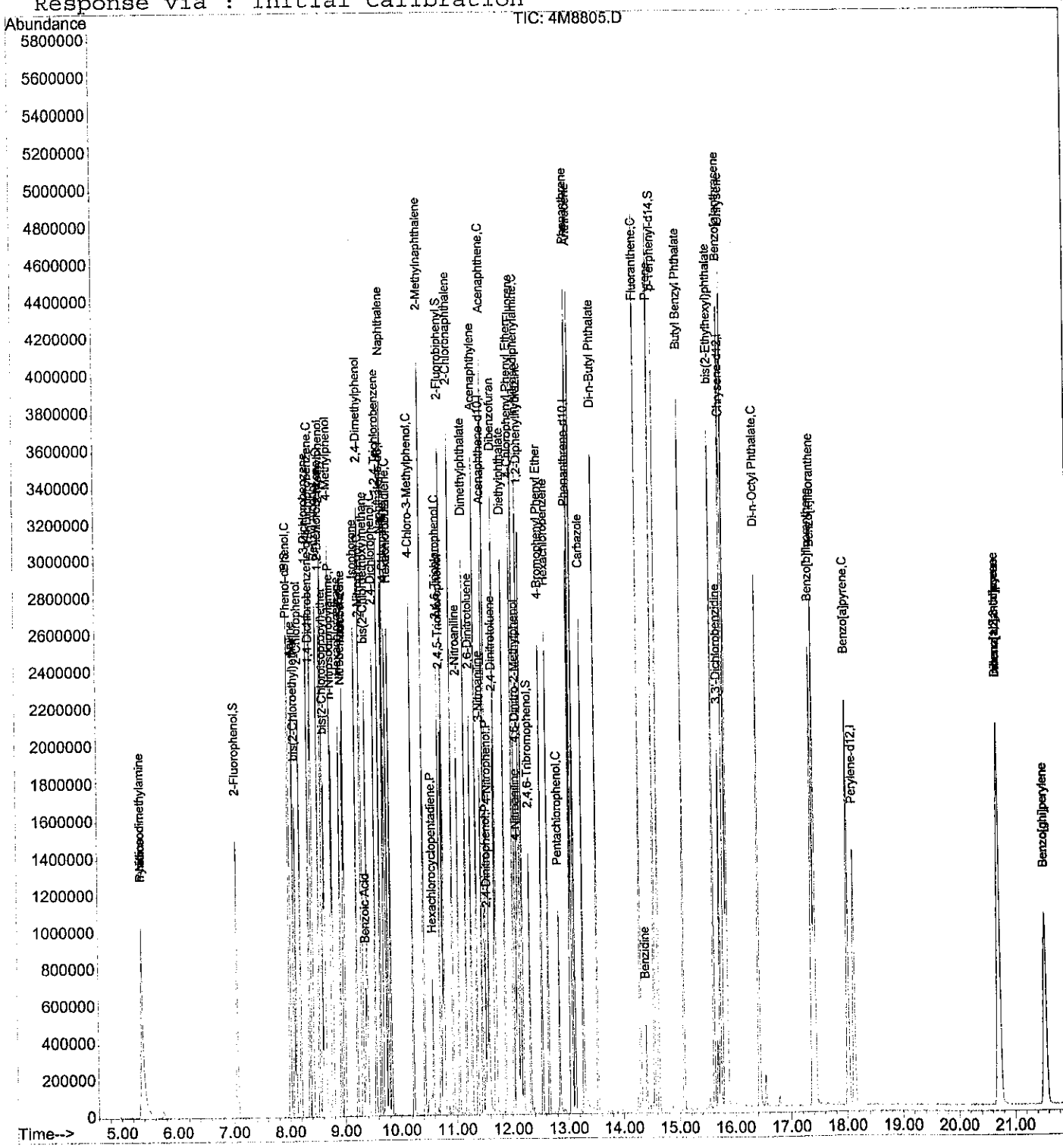
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8805.D
Acq On : 12 Jun 2001 17:04
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:02 2001

Vial: 7
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



4M8805.D BNA.M Wed Jun 13 09:05:05 2001 HPMS4 Page 4

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Data File : C:\HPCHEM\1\DATA\061201\4M8806.D
Acq On : 12 Jun 2001 17:37
Sample : 10PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:03 2001

Vial: 8
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:03:12 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	335189	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1270221	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	693544	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1091526	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1151723	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	847962	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	116068	9.31	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 9.31%#			
6) Phenol-d5	8.00	99	141935	9.30	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 9.30%#			
20) Nitrobenzene-d5	8.98	82	131714	9.13	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 18.26%#			
38) 2-Fluorobiphenyl	10.78	172	233053	7.98	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 15.96%#			
55) 2,4,6-Tribromophenol	12.33	330	23048	12.61	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 12.61%			
70) p-Terphenyl-d14	14.63	244	269782	8.38	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 16.76%#			
Target Compounds						Qvalue
2) Pyridine	5.39	79	120416	9.45	ug/ml	93
3) n-Nitrosodimethylamine	5.35	74	80432	10.17	ug/ml	99
5) Aniline	8.08	66	69575	9.50	ug/ml	96
7) Phenol	8.02	94	157548	9.44	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	82824	9.25	ug/ml	99
9) 2-Chlorophenol	8.20	128	116287	8.60	ug/ml	99
10) 1,3-Dichlorobenzene	8.35	146	133062	8.58	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	140634	8.47	ug/ml	99
12) Benzyl Alcohol	8.53	108	77975	8.96	ug/ml	98
13) 1,2-Dichlorobenzene	8.59	146	127118	8.48	ug/ml	98
14) 2-Methylphenol	8.62	107	96658	8.97	ug/ml#	92
15) bis(2-Chloroisopropyl)ethe	8.65	45	158929	8.91	ug/ml	99
16) 4-Methylphenol	8.77	107	146221	9.22	ug/ml	99
17) n-Nitrosodipropylamine	8.79	70	85018	9.64	ug/ml	100
18) Hexachloroethane	8.93	117	52408	8.43	ug/ml	99
21) Nitrobenzene	9.00	77	138585	9.36	ug/ml	99
22) Isophorone	9.22	82	222989	10.03	ug/ml	99
23) 2-Nitrophenol	9.32	139	64056	8.24	ug/ml	96
24) 2,4-Dimethylphenol	9.31	122	107368	8.86	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.41	93	137186	9.19	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8806.D Vial: 8
Acq On : 12 Jun 2001 17:37 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:03 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:03:12 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.36	122	29475	8.21	ug/ml	98
27) 2,4-Dichlorophenol	9.56	162	96976	8.60	ug/ml	98
28) 1,2,4-Trichlorobenzene	9.64	180	110157	8.42	ug/ml	100
29) Naphthalene	9.74	128	355760	8.52	ug/ml	99
30) 4-Chloroaniline	9.78	127	136078	8.35	ug/ml	100
31) Hexachlorobutadiene	9.83	225	62246	7.96	ug/ml	98
32) 4-Chloro-3-Methylphenol	10.22	107	103954	9.53	ug/ml	98
33) 2-Methylnaphthalene	10.43	142	236292	8.87	ug/ml	97
35) Hexachlorocyclopentadiene	10.59	237	6836	8.78	ug/ml	99
36) 2,4,6-Trichlorophenol	10.71	196	61772	8.24	ug/ml	97
37) 2,4,5-Trichlorophenol	10.76	196	68366	8.42	ug/ml	98
39) 2-Chloronaphthalene	10.94	162	210167	8.23	ug/ml	99
40) 2-Nitroaniline	11.05	65	66967	8.21	ug/ml	99
41) Dimethylphthalate	11.18	163	210389	7.62	ug/ml	100
42) Acenaphthylene	11.38	152	314748	8.53	ug/ml	98
43) 2,6-Dinitrotoluene	11.28	165	47362	11.36	ug/ml	95
44) 3-Nitroaniline	11.46	138	55494	8.93	ug/ml	97
45) Acenaphthene	11.55	154	200633	8.10	ug/ml	96
46) 2,4-Dinitrophenol	11.57	184	4863	21.06	ug/ml#	1
47) 4-Nitrophenol	11.59	65	38592	7.38	ug/ml	91
48) Dibenzofuran	11.72	168	287773	8.25	ug/ml	98
49) 2,4-Dinitrotoluene	11.69	165	65325	11.03	ug/ml	96
50) Diethylphthalate	11.88	149	216290	7.92	ug/ml	99
51) Fluorene	12.07	166	221058	11.05	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	107287	11.46	ug/ml	97
53) 4-Nitroaniline	12.10	138	53726	8.96	ug/ml	97
54) 1,2-Diphenylhydrazine	12.20	77	239479	10.65	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.12	198	23856	9.12	ug/ml#	85
58) n-Nitrosodiphenylamine	12.16	169	158582	8.04	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	58933	11.93	ug/ml	99
60) Hexachlorobenzene	12.66	284	62999	12.38	ug/ml	98
61) Pentachlorophenol	12.85	266	19329	5.37	ug/ml	94
62) Phenanthrene	13.08	178	346461	8.42	ug/ml	99
63) Anthracene	13.12	178	343913	8.36	ug/ml	100
64) Carbazole	13.28	167	306866	9.91	ug/ml	99
65) Di-n-Butyl Phthalate	13.53	149	382905	8.28	ug/ml	100
66) Fluoranthene	14.31	202	387362	8.29	ug/ml	99
68) Benzidine	14.40	184	46112	11.20	ug/ml	100
69) Pyrene	14.55	202	399592	9.58	ug/ml	99
71) Butyl Benzyl Phthalate	15.09	149	179969	9.49	ug/ml	98
72) Benzo[a]anthracene	15.81	228	383335	9.19	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8806.D Vial: 8
Acq On : 12 Jun 2001 17:37 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:03 2001 Quant Results File: BNA.RES

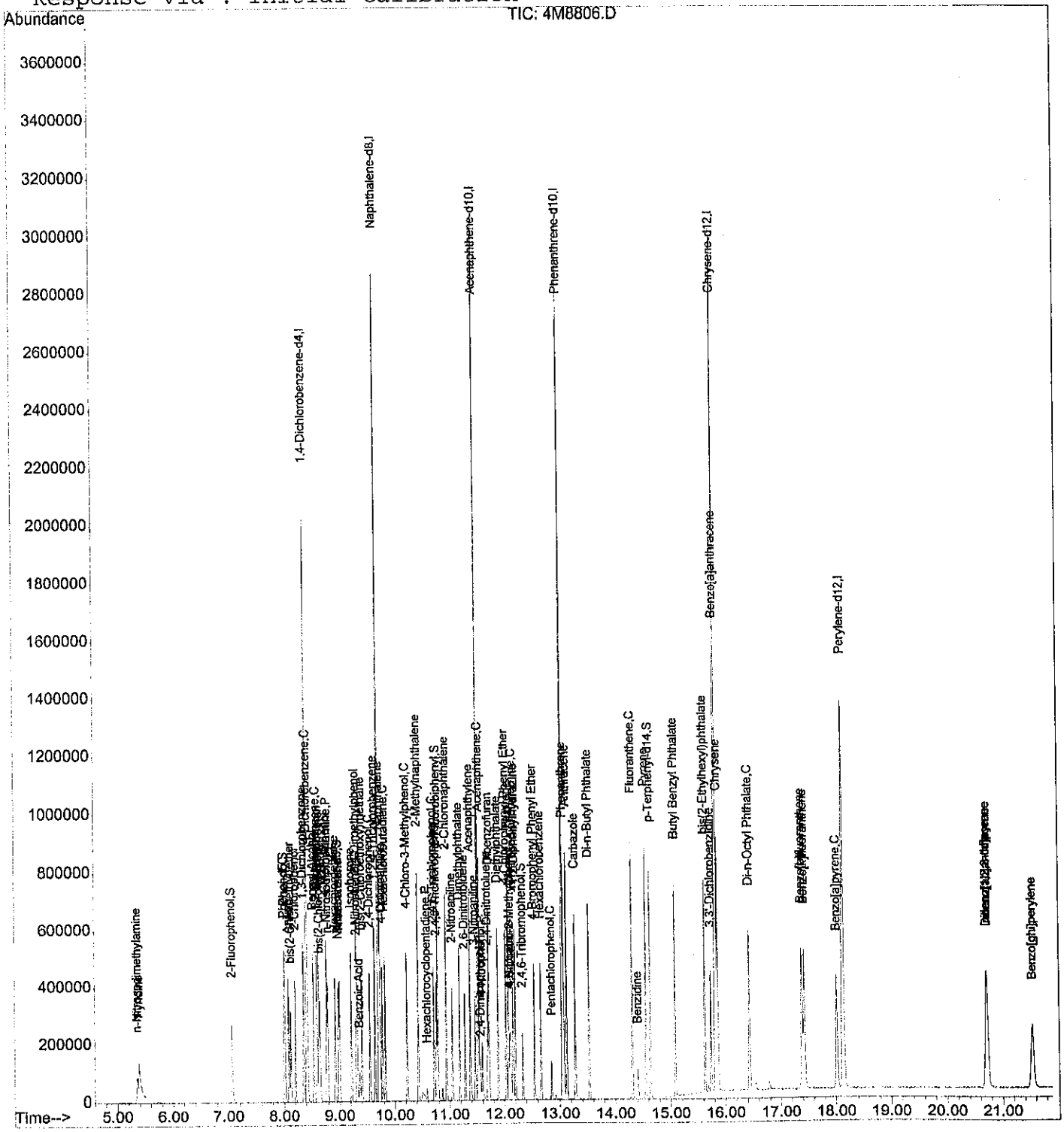
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:03:12 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.74	252	110360	10.30	ug/ml	100
74)	Chrysene	15.86	228	381669	9.24	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.62	149	242520	9.58	ug/ml	98
77)	Di-n-Octyl Phthalate	16.43	149	403674	9.22	ug/ml	99
78)	Benzo[b]fluoranthene	17.38	252	345602	8.46	ug/ml	99
79)	Benzo[k]fluoranthene	17.43	252	354547	8.26	ug/ml	99
80)	Benzo[a]pyrene	18.02	252	323864	8.60	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.71	276	347468	9.08	ug/ml#	100
82)	Dibenz[ah]anthracene	20.71	278	213720	8.60	ug/ml	98
83)	Benzo[ghi]perylene	21.53	276	304067	10.24	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8806.D Vial: 8
Acq On : 12 Jun 2001 17:37 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:03 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



4M8806.D BNA.M Wed Jun 13 09:06:06 2001 HPMS4 Page 343

Data File : C:\HPCHEM\1\DATA\061201\4M8807.D
Acq On : 12 Jun 2001 18:10
Sample : 20PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 9
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:06 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	333647	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1259849	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	686965	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1104697	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1146088	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	833095	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	243516	19.37	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 19.37%#			
6) Phenol-d5	8.00	99	298665	19.41	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 19.41%			
20) Nitrobenzene-d5	8.98	82	276415	19.05	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 38.10%			
38) 2-Fluorobiphenyl	10.78	172	488422	16.92	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 33.84%#			
55) 2,4,6-Tribromophenol	12.33	330	52804	17.67	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 17.67%			
70) p-Terphenyl-d14	14.64	244	568169	17.63	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 35.26%			
Target Compounds						Qvalue
2) Pyridine	5.37	79	295328	20.94	ug/ml	98
3) n-Nitrosodimethylamine	5.35	74	164400	20.37	ug/ml	98
5) Aniline	8.08	66	144303	19.43	ug/ml	97
7) Phenol	8.02	94	328341	19.41	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	172308	19.10	ug/ml	98
9) 2-Chlorophenol	8.20	128	243025	17.96	ug/ml	99
10) 1,3-Dichlorobenzene	8.35	146	277021	17.93	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	293048	17.78	ug/ml	99
12) Benzyl Alcohol	8.53	108	168973	19.21	ug/ml	99
13) 1,2-Dichlorobenzene	8.59	146	262750	17.60	ug/ml	100
14) 2-Methylphenol	8.62	107	203294	18.70	ug/ml	98
15) bis(2-Chloroisopropyl)ethe	8.65	45	332112	18.62	ug/ml	99
16) 4-Methylphenol	8.76	107	308642	19.27	ug/ml	98
17) n-Nitrosodipropylamine	8.79	70	180747	20.14	ug/ml	99
18) Hexachloroethane	8.93	117	110204	17.77	ug/ml	100
21) Nitrobenzene	9.00	77	291840	19.55	ug/ml	98
22) Isophorone	9.22	82	468985	20.87	ug/ml	99
23) 2-Nitrophenol	9.32	139	136519	17.58	ug/ml	97
24) 2,4-Dimethylphenol	9.30	122	225133	18.56	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.41	93	286860	19.06	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8807.D Vial: 9
Acq On : 12 Jun 2001 18:10 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:06 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.37	122	68076	18.78	ug/ml	96
27) 2,4-Dichlorophenol	9.56	162	202974	18.02	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.65	180	230066	17.65	ug/ml	100
29) Naphthalene	9.74	128	735093	17.78	ug/ml	100
30) 4-Chloroaniline	9.77	127	290973	17.90	ug/ml	99
31) Hexachlorobutadiene	9.83	225	129830	16.84	ug/ml	98
32) 4-Chloro-3-Methylphenol	10.22	107	219216	20.00	ug/ml	99
33) 2-Methylnaphthalene	10.43	142	484005	18.22	ug/ml	99
35) Hexachlorocyclopentadiene	10.59	237	26414	16.32	ug/ml	99
36) 2,4,6-Trichlorophenol	10.71	196	132407	17.73	ug/ml	99
37) 2,4,5-Trichlorophenol	10.76	196	142771	17.61	ug/ml	99
39) 2-Chloronaphthalene	10.94	162	437446	17.26	ug/ml	100
40) 2-Nitroaniline	11.05	65	138791	17.18	ug/ml	100
41) Dimethylphthalate	11.18	163	449438	16.39	ug/ml	99
42) Acenaphthylene	11.38	152	654411	17.81	ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	102924	18.26	ug/ml	97
44) 3-Nitroaniline	11.46	138	119528	19.03	ug/ml	97
45) Acenaphthene	11.55	154	423060	17.25	ug/ml	97
46) 2,4-Dinitrophenol	11.57	184	21690	24.63	ug/ml#	18
47) 4-Nitrophenol	11.59	65	79978	15.44	ug/ml	98
48) Dibenzofuran	11.72	168	598889	17.24	ug/ml	99
49) 2,4-Dinitrotoluene	11.70	165	144447	18.35	ug/ml	97
50) Diethylphthalate	11.88	149	462899	17.09	ug/ml	99
51) Fluorene	12.07	166	460148	17.97	ug/ml	98
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	225284	18.22	ug/ml	97
53) 4-Nitroaniline	12.10	138	105731	17.51	ug/ml	99
54) 1,2-Diphenylhydrazine	12.20	77	504221	18.52	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.11	198	65290	19.55	ug/ml	97
58) n-Nitrosodiphenylamine	12.16	169	350768	17.41	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	125689	17.94	ug/ml	98
60) Hexachlorobenzene	12.66	284	133106	17.65	ug/ml	98
61) Pentachlorophenol	12.85	266	44541	12.20	ug/ml	98
62) Phenanthrene	13.08	178	726522	17.44	ug/ml	100
63) Anthracene	13.12	178	721226	17.27	ug/ml	99
64) Carbazole	13.28	167	578011	18.44	ug/ml	100
65) Di-n-Butyl Phthalate	13.53	149	813688	17.29	ug/ml	100
66) Fluoranthene	14.30	202	808986	17.03	ug/ml	100
68) Benzidine	14.41	184	96661	22.45	ug/ml	100
69) Pyrene	14.55	202	838228	19.79	ug/ml	100
71) Butyl Benzyl Phthalate	15.08	149	383754	19.92	ug/ml	99
72) Benzo[a]anthracene	15.81	228	798703	19.02	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8807.D
Acq On : 12 Jun 2001 18:10
Sample : 20PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 9
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

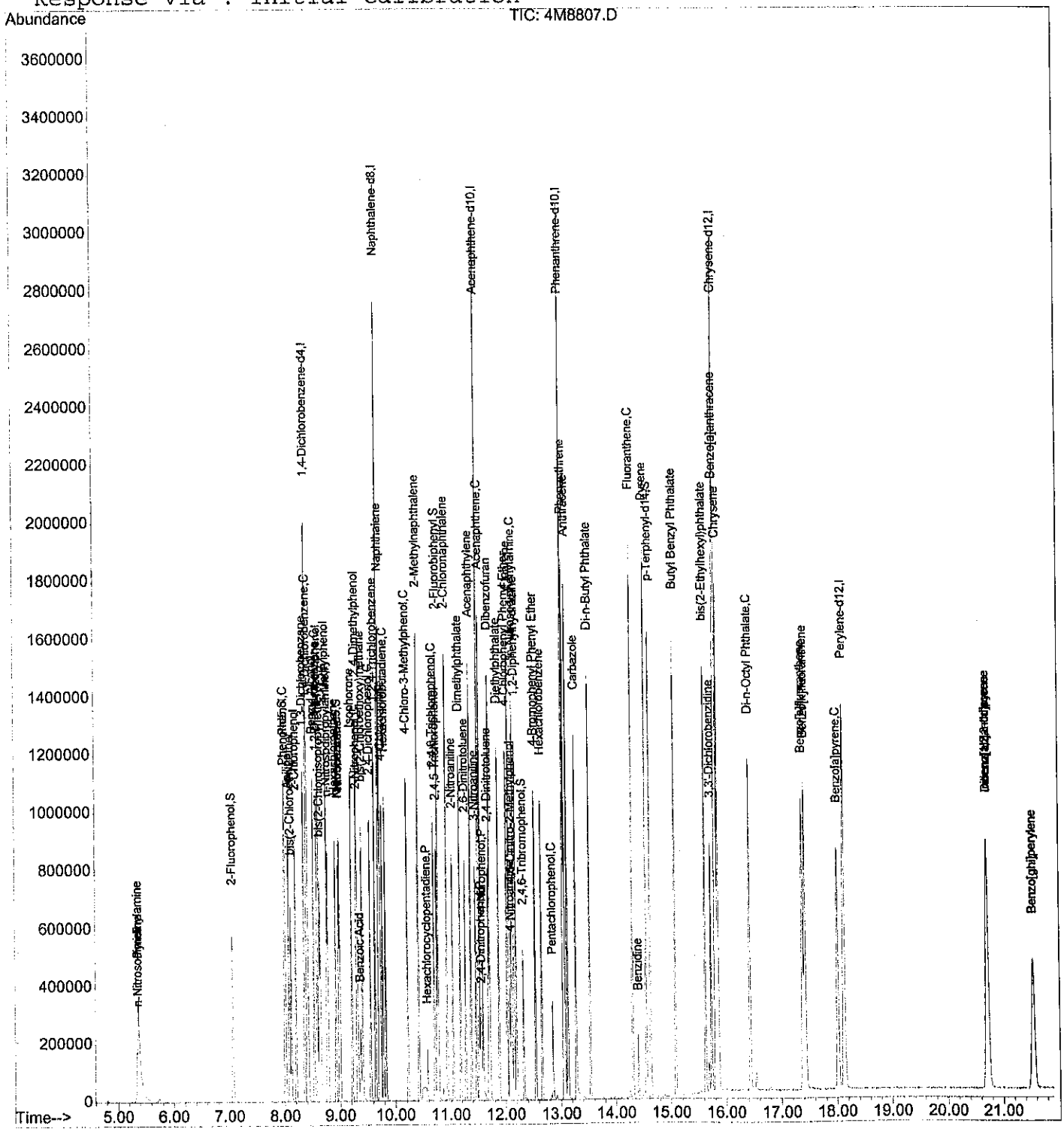
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:06 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	218091	19.98	ug/ml	97
74) Chrysene	15.86	228	792272	19.11	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.63	149	511493	19.85	ug/ml	100
77) Di-n-Octyl Phthalate	16.43	149	858898	19.50	ug/ml	99
78) Benzo[b]fluoranthene	17.39	252	739724	18.33	ug/ml	99
79) Benzo[k]fluoranthene	17.43	252	713056	16.77	ug/ml	99
80) Benzo[a]pyrene	18.02	252	664424	17.76	ug/ml	100
81) Indeno[1,2,3-cd]pyrene	20.72	276	724167	19.10	ug/ml#	99
82) Dibenz[ah]anthracene	20.72	278	444681	18.13	ug/ml	99
83) Benzo[ghi]perylene	21.54	276	623823	21.12	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8807.D Vial: 9
Acq On : 12 Jun 2001 18:10 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061201\4M8808.D Vial: 10
Acq On : 12 Jun 2001 18:42 Operator: mdc
Sample : 80PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	356572	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1357864	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	710162	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1172918	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1262342	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	902249	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	952343	71.86	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 71.86%			
6) Phenol-d5	8.00	99	1167634	72.14	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 72.14%			
20) Nitrobenzene-d5	8.99	82	1098313	71.47	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 142.94%#			
38) 2-Fluorobiphenyl	10.79	172	1946533	67.65	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 135.30%#			
55) 2,4,6-Tribromophenol	12.34	330	238029	47.64	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 47.64%			
70) p-Terphenyl-d14	14.64	244	2471360	71.58	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 143.16%#			
Target Compounds						Qvalue
2) Pyridine	5.36	79	1148492	72.44	ug/ml	99
3) n-Nitrosodimethylamine	5.35	74	641011	74.65	ug/ml	100
5) Aniline	8.08	66	567895	72.49	ug/ml	99
7) Phenol	8.02	94	1286995	72.00	ug/ml	100
8) bis(2-Chloroethyl)ether	8.12	63	677955	71.66	ug/ml	99
9) 2-Chlorophenol	8.21	128	967939	68.78	ug/ml	99
10) 1,3-Dichlorobenzene	8.36	146	1095356	68.32	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	1141439	67.02	ug/ml	100
12) Benzyl Alcohol	8.53	108	692728	74.73	ug/ml	98
13) 1,2-Dichlorobenzene	8.59	146	1048552	67.79	ug/ml	100
14) 2-Methylphenol	8.62	107	825483	72.22	ug/ml#	93
15) bis(2-Chloroisopropyl)ethe	8.65	45	1315450	70.62	ug/ml	100
16) 4-Methylphenol	8.77	107	1219019	72.35	ug/ml	99
17) n-Nitrosodipropylamine	8.79	70	704639	73.86	ug/ml	99
18) Hexachloroethane	8.93	117	441309	68.73	ug/ml	99
21) Nitrobenzene	9.01	77	1146296	72.30	ug/ml	100
22) Isophorone	9.22	82	1698057	71.11	ug/ml	100
23) 2-Nitrophenol	9.32	139	565000	69.25	ug/ml	98
24) 2,4-Dimethylphenol	9.31	122	900127	70.27	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.41	93	1141461	71.40	ug/ml	99

(#) = qualifier out of range (m) = manual integration
4M8808.D BNA.M Wed Jun 13 09:06:23 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\061201\4M8808.D
Acq On : 12 Jun 2001 18:42
Sample : 80PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.40	122	367779	67.64	ug/ml	98
27) 2,4-Dichlorophenol	9.56	162	816867	69.01	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.64	180	922857	67.61	ug/ml	100
29) Naphthalene	9.74	128	2893244	67.22	ug/ml	100
30) 4-Chloroaniline	9.78	127	1176764	69.18	ug/ml	100
31) Hexachlorobutadiene	9.83	225	522891	65.45	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.22	107	807160	69.70	ug/ml	100
33) 2-Methylnaphthalene	10.43	142	1895300	68.19	ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	241956	60.29	ug/ml	100
36) 2,4,6-Trichlorophenol	10.71	196	514250	68.38	ug/ml	100
37) 2,4,5-Trichlorophenol	10.75	196	548251	67.27	ug/ml	99
39) 2-Chloronaphthalene	10.94	162	1727584	68.03	ug/ml	100
40) 2-Nitroaniline	11.05	65	582089	71.00	ug/ml	97
41) Dimethylphthalate	11.18	163	1916209	69.69	ug/ml	100
42) Acenaphthylene	11.38	152	2499385	67.95	ug/ml	99
43) 2,6-Dinitrotoluene	11.28	165	458150	61.10	ug/ml	99
44) 3-Nitroaniline	11.47	138	443721	69.80	ug/ml	100
45) Acenaphthene	11.56	154	1677834	68.43	ug/ml	100
46) 2,4-Dinitrophenol	11.57	184	192294	59.89	ug/ml#	94
47) 4-Nitrophenol	11.59	65	356797	67.66	ug/ml	100
48) Dibenzofuran	11.72	168	2404760	68.89	ug/ml	99
49) 2,4-Dinitrotoluene	11.70	165	611424	60.04	ug/ml	99
50) Diethylphthalate	11.89	149	1877941	69.26	ug/ml	100
51) Fluorene	12.07	166	1965709	60.08	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.04	204	998873	61.23	ug/ml	99
53) 4-Nitroaniline	12.11	138	382611	62.20	ug/ml	92
54) 1,2-Diphenylhydrazine	12.20	77	2142971	66.67	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.12	198	362882	68.00	ug/ml	96
58) n-Nitrosodiphenylamine	12.16	169	1470138	70.50	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	556082	54.50	ug/ml	98
60) Hexachlorobenzene	12.66	284	566852	48.11	ug/ml	99
61) Pentachlorophenol	12.85	266	228986	60.93	ug/ml	100
62) Phenanthrene	13.08	178	2881946	67.43	ug/ml	99
63) Anthracene	13.13	178	2922101	68.20	ug/ml	99
64) Carbazole	13.28	167	2157734	66.80	ug/ml	100
65) Di-n-Butyl Phthalate	13.53	149	3286041	67.67	ug/ml	100
66) Fluoranthene	14.31	202	3323691	68.07	ug/ml	99
68) Benzidine	14.41	184	360628	74.73	ug/ml	100
69) Pyrene	14.56	202	3457609	74.98	ug/ml	99
71) Butyl Benzyl Phthalate	15.09	149	1530386	72.68	ug/ml	100
72) Benzo[a]anthracene	15.81	228	3274722	72.14	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8808.D
Acq On : 12 Jun 2001 18:42
Sample : 80PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	846088	70.19	ug/ml	99
74) Chrysene	15.87	228	3281358	73.37	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.63	149	2030455	72.12	ug/ml	100
77) Di-n-Octyl Phthalate	16.44	149	3501022	73.86	ug/ml	100
78) Benzo[b]fluoranthene	17.39	252	3016848	70.27	ug/ml	100
79) Benzo[k]fluoranthene	17.44	252	3068223	68.69	ug/ml	100
80) Benzo[a]pyrene	18.03	252	2780443	70.12	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.74	276	2669207	66.63	ug/ml#	99
82) Dibenz[ah]anthracene	20.73	278	1671163	64.88	ug/ml	100
83) Benzo[ghi]perylene	21.56	276	2041236	65.34	ug/ml	100

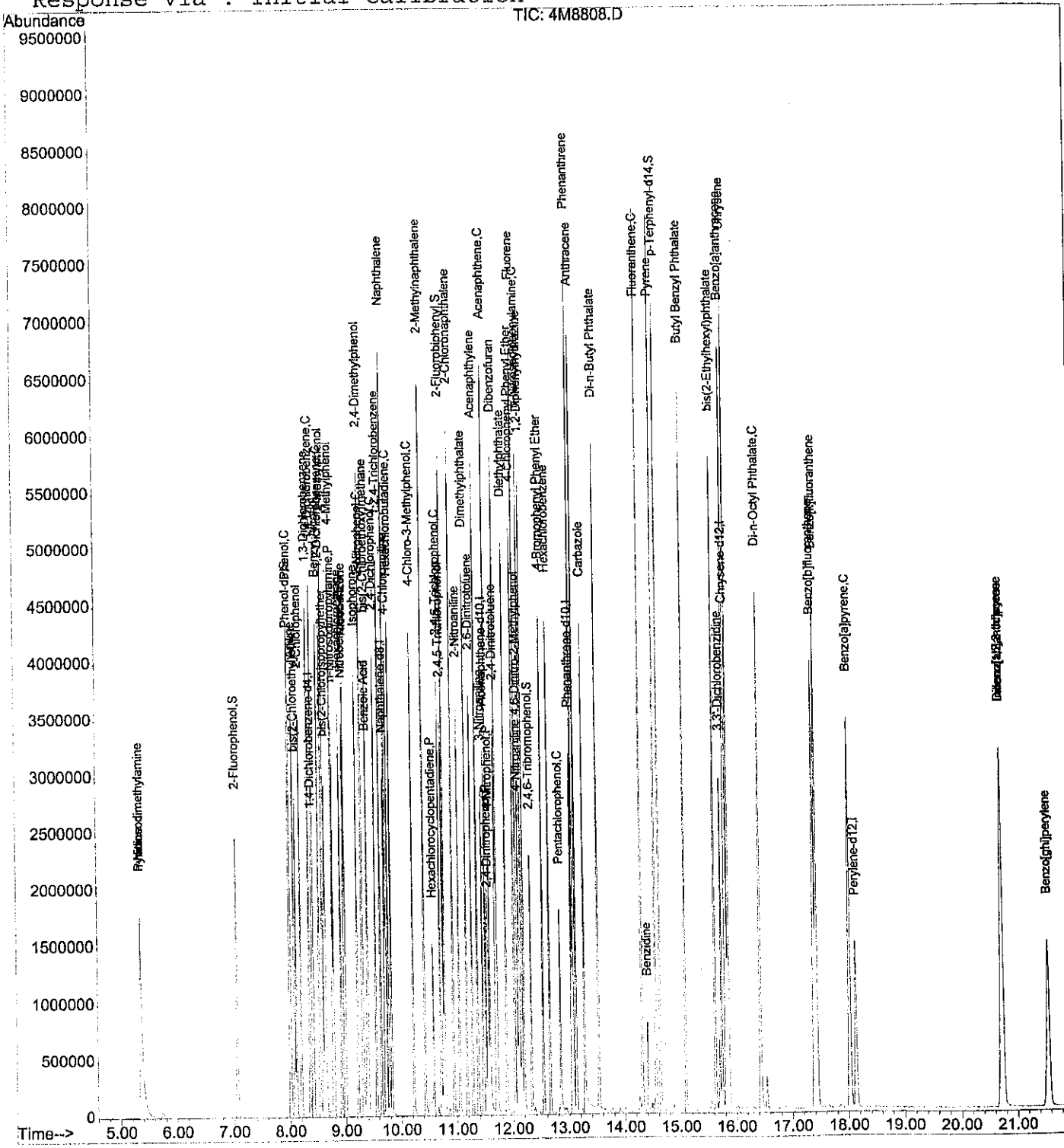
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8808.D
Acq On : 12 Jun 2001 18:42
Sample : 80PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061201\4M8809.D
Acq On : 12 Jun 2001 19:13
Sample : 100PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:37 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	362150	40.00	ug/ml	0.00
19) Naphthalene-d8	9.72	136	1358325	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	717120	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1185600	40.00	ug/ml	0.00
67) Chrysene-d12	15.84	240	1276761	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	899677	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	1186921	90.06	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 90.06%			
6) Phenol-d5	8.00	99	1458933	90.68	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 90.68%			
20) Nitrobenzene-d5	8.98	82	1379272	91.92	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 183.84%#			
38) 2-Fluorobiphenyl	10.78	172	2422535	87.97	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 175.94%#			
55) 2,4,6-Tribromophenol	12.33	330	307374	63.09	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 63.09%			
70) p-Terphenyl-d14	14.64	244	3088269	91.77	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 183.54%#			
Target Compounds						Qvalue
2) Pyridine	5.35	79	1446953	90.96	ug/ml	99
3) n-Nitrosodimethylamine	5.35	74	803990	92.93	ug/ml	100
5) Aniline	8.09	66	705679	90.41	ug/ml	100
7) Phenol	8.02	94	1613717	90.77	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	851599	90.57	ug/ml	98
9) 2-Chlorophenol	8.20	128	1214645	88.13	ug/ml	100
10) 1,3-Dichlorobenzene	8.35	146	1360126	86.69	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	1448419	87.31	ug/ml	100
12) Benzyl Alcohol	8.54	108	868694	94.41	ug/ml	98
13) 1,2-Dichlorobenzene	8.59	146	1321122	87.42	ug/ml	99
14) 2-Methylphenol	8.63	107	1042085	91.92	ug/ml	97
15) bis(2-Chloroisopropyl)ethe	8.65	45	1642709	89.33	ug/ml	98
16) 4-Methylphenol	8.77	107	1533067	91.61	ug/ml	99
17) n-Nitrosodipropylamine	8.80	70	887666	93.02	ug/ml	100
18) Hexachloroethane	8.93	117	555303	88.40	ug/ml	99
21) Nitrobenzene	9.01	77	1430623	92.07	ug/ml	100
22) Isophorone	9.22	82	2079890	88.47	ug/ml	100
23) 2-Nitrophenol	9.33	139	705317	90.14	ug/ml	100
24) 2,4-Dimethylphenol	9.31	122	1129253	90.87	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.41	93	1428130	91.55	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8809.D Vial: 11
Acq On : 12 Jun 2001 19:13 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:37 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.40	122	484700	86.22	ug/ml	98
27)	2,4-Dichlorophenol	9.56	162	1029153	90.25	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.65	180	1162591	88.63	ug/ml	100
29)	Naphthalene	9.74	128	3609900	87.33	ug/ml	100
30)	4-Chloroaniline	9.78	127	1455764	88.77	ug/ml	99
31)	Hexachlorobutadiene	9.83	225	668305	88.09	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.22	107	979602	86.67	ug/ml	100
33)	2-Methylnaphthalene	10.43	142	2358218	88.03	ug/ml	99
35)	Hexachlorocyclopentadiene	10.59	237	345177	82.45	ug/ml	100
36)	2,4,6-Trichlorophenol	10.71	196	633760	87.18	ug/ml	99
37)	2,4,5-Trichlorophenol	10.76	196	690224	87.53	ug/ml	99
39)	2-Chloronaphthalene	10.94	162	2161641	88.49	ug/ml	100
40)	2-Nitroaniline	11.05	65	730881	91.72	ug/ml	96
41)	Dimethylphthalate	11.18	163	2411139	91.31	ug/ml	100
42)	Acenaphthylene	11.38	152	3114645	87.50	ug/ml	99
43)	2,6-Dinitrotoluene	11.29	165	574098	77.91	ug/ml	99
44)	3-Nitroaniline	11.47	138	543902	87.78	ug/ml	98
45)	Acenaphthene	11.55	154	2127628	89.75	ug/ml	99
46)	2,4-Dinitrophenol	11.57	184	272222	79.20	ug/ml#	91
47)	4-Nitrophenol	11.60	65	463358	90.77	ug/ml	97
48)	Dibenzofuran	11.72	168	3021513	89.39	ug/ml	100
49)	2,4-Dinitrotoluene	11.70	165	771821	77.49	ug/ml	99
50)	Diethylphthalate	11.88	149	2363511	90.63	ug/ml	100
51)	Fluorene	12.08	166	2486311	78.07	ug/ml	100
52)	4-Chlorophenyl Phenyl Ethe	12.03	204	1271425	79.22	ug/ml	99
53)	4-Nitroaniline	12.11	138	484775	81.56	ug/ml	93
54)	1,2-Diphenylhydrazine	12.20	77	2660717	84.30	ug/ml	99
57)	4,6-Dinitro-2-Methylphenol	12.12	198	465750	85.33	ug/ml	95
58)	n-Nitrosodiphenylamine	12.16	169	1855005	91.53	ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.54	248	705071	70.71	ug/ml	97
60)	Hexachlorobenzene	12.66	284	731776	63.75	ug/ml	98
61)	Pentachlorophenol	12.85	266	298904	85.21	ug/ml	98
62)	Phenanthrene	13.08	178	3588466	86.66	ug/ml	99
63)	Anthracene	13.13	178	3665767	88.33	ug/ml	99
64)	Carbazole	13.28	167	2561634	79.89	ug/ml	98
65)	Di-n-Butyl Phthalate	13.53	149	4086224	86.82	ug/ml	100
66)	Fluoranthene	14.31	202	4143933	87.60	ug/ml	99
68)	Benzidine	14.41	184	463274	93.71	ug/ml	100
69)	Pyrene	14.56	202	4345392	94.51	ug/ml	99
71)	Butyl Benzyl Phthalate	15.09	149	1891288	90.33	ug/ml	99
72)	Benzo[a]anthracene	15.82	228	4103997	91.45	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8809.D
Acq On : 12 Jun 2001 19:13
Sample : 100PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:37 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	1053656	86.82	ug/ml	99
74) Chrysene	15.87	228	4070313	92.03	ug/ml	99
75) bis(2-Ethylhexyl)phthalate	15.63	149	2517356	89.92	ug/ml	100
77) Di-n-Octyl Phthalate	16.44	149	4341775	93.67	ug/ml	100
78) Benzo[b]fluoranthene	17.40	252	3743123	90.48	ug/ml	100
79) Benzo[k]fluoranthene	17.45	252	3887488	91.18	ug/ml	100
80) Benzo[a]pyrene	18.03	252	3467123	90.80	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.74	276	3251641	84.95	ug/ml#	99
82) Dibenz[ah]anthracene	20.74	278	2037077	83.57	ug/ml	100
83) Benzo[ghi]perylene	21.56	276	2453187	80.98	ug/ml	100

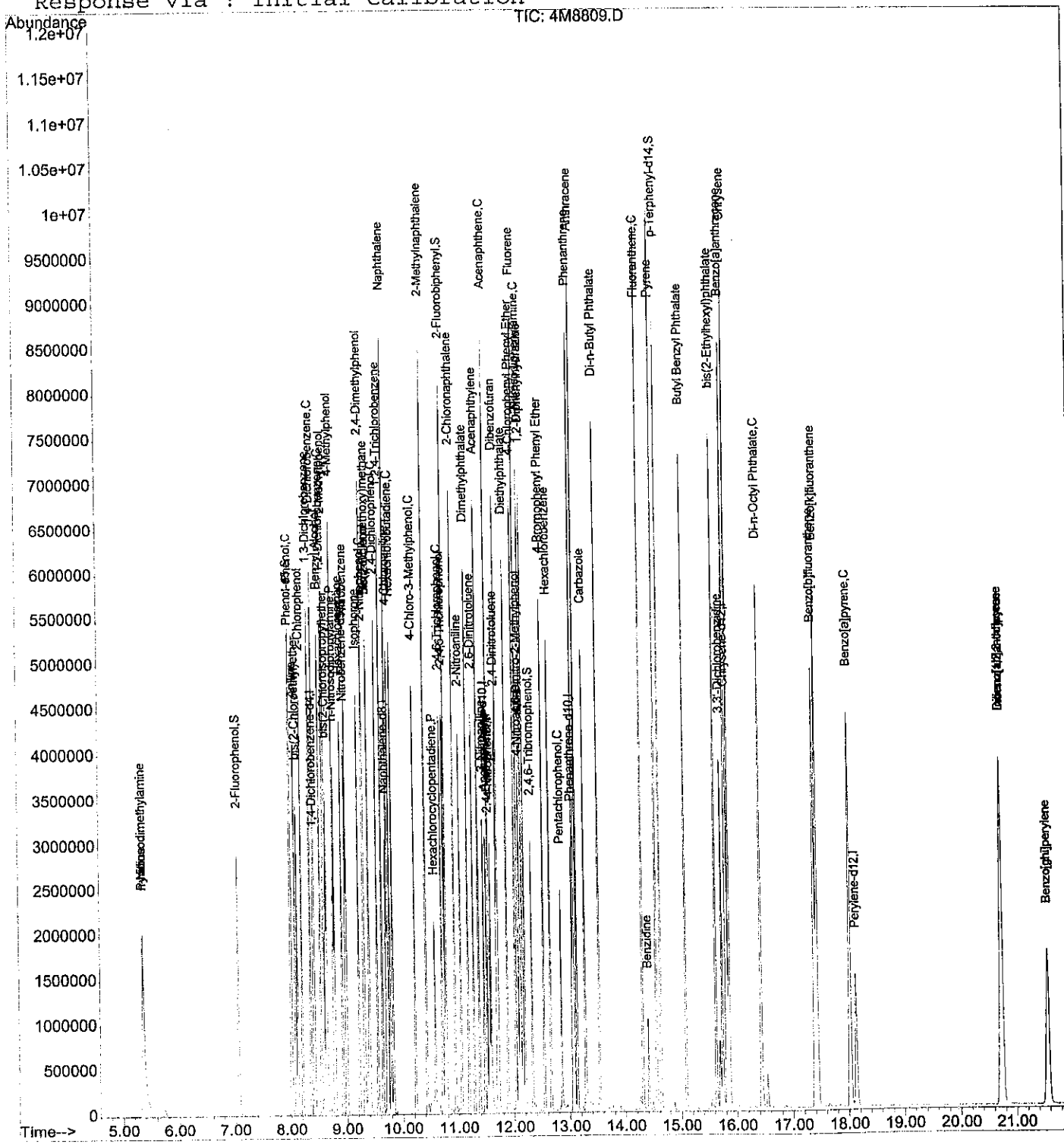
(#) = qualifier out of range (m) = manual integration
4M8809.D BNA.M Wed Jun 13 09:06:34 2001 HPMS4 Page 3

Data File : C:\HPCHEM\1\DATA\061201\4M8809.D
Acq On : 12 Jun 2001 19:13
Sample : 100PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061201\4M8810.D
Acq On : 12 Jun 2001 19:45
Sample : 120PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 12
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	364927	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1371381	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	740256	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1210979	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1311814	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	911056	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	1446718	111.97	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 111.97%#			
6) Phenol-d5	8.00	99	1780045	112.65	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 112.65%#			
20) Nitrobenzene-d5	8.99	82	1689156	114.61	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 229.22%#			
38) 2-Fluorobiphenyl	10.79	172	2925773	109.08	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 218.16%#			
55) 2,4,6-Tribromophenol	12.34	330	386931	86.53	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 86.53%			
70) p-Terphenyl-d14	14.64	244	3877959	117.15	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 234.30%#			
Target Compounds						Qvalue
2) Pyridine	5.36	79	1747745	112.57	ug/ml	99
3) n-Nitrosodimethylamine	5.35	74	985703	114.47	ug/ml	99
5) Aniline	8.08	66	856056	111.81	ug/ml	98
7) Phenol	8.02	94	1967729	112.78	ug/ml	99
8) bis(2-Chloroethyl)ether	8.12	63	1038457	112.54	ug/ml	99
9) 2-Chlorophenol	8.21	128	1482476	111.58	ug/ml	100
10) 1,3-Dichlorobenzene	8.36	146	1656781	109.66	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	1764277	110.66	ug/ml	100
12) Benzyl Alcohol	8.54	108	1066148	118.43	ug/ml	97
13) 1,2-Dichlorobenzene	8.59	146	1612167	110.81	ug/ml	100
14) 2-Methylphenol	8.62	107	1269432	114.37	ug/ml#	93
15) bis(2-Chloroisopropyl)ethe	8.65	45	1998129	111.42	ug/ml	99
16) 4-Methylphenol	8.77	107	1856736	112.99	ug/ml	99
17) n-Nitrosodipropylamine	8.80	70	1064813	112.80	ug/ml	99
18) Hexachloroethane	8.93	117	680339	112.37	ug/ml	99
21) Nitrobenzene	9.01	77	1748357	114.25	ug/ml	99
22) Isophorone	9.23	82	2455730	105.06	ug/ml	100
23) 2-Nitrophenol	9.32	139	866438	115.49	ug/ml	99
24) 2,4-Dimethylphenol	9.31	122	1359466	112.26	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.41	93	1745029	114.13	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8810.D
Acq On : 12 Jun 2001 19:45
Sample : 120PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 12
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.41	122	644301	106.30	ug/ml	98
27) 2,4-Dichlorophenol	9.56	162	1264259	114.70	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.64	180	1416074	112.05	ug/ml	99
29) Naphthalene	9.74	128	4381117	109.68	ug/ml	99
30) 4-Chloroaniline	9.78	127	1732996	109.56	ug/ml	100
31) Hexachlorobutadiene	9.83	225	820259	113.30	ug/ml	98
32) 4-Chloro-3-Methylphenol	10.22	107	1196338	107.65	ug/ml	99
33) 2-Methylnaphthalene	10.43	142	2848577	109.57	ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	452301	98.87	ug/ml	99
36) 2,4,6-Trichlorophenol	10.71	196	787125	110.28	ug/ml	99
37) 2,4,5-Trichlorophenol	10.75	196	871785	112.85	ug/ml	99
39) 2-Chloronaphthalene	10.94	162	2592552	108.42	ug/ml	100
40) 2-Nitroaniline	11.05	65	894786	113.84	ug/ml	96
41) Dimethylphthalate	11.19	163	2959634	115.03	ug/ml	100
42) Acenaphthylene	11.38	152	3801028	108.69	ug/ml	98
43) 2,6-Dinitrotoluene	11.29	165	709815	101.35	ug/ml	98
44) 3-Nitroaniline	11.47	138	663187	108.20	ug/ml	100
45) Acenaphthene	11.56	154	2639873	113.55	ug/ml	99
46) 2,4-Dinitrophenol	11.57	184	357395	102.90	ug/ml#	93
47) 4-Nitrophenol	11.60	65	581543	117.53	ug/ml	97
48) Dibenzofuran	11.72	168	3784591	114.33	ug/ml	100
49) 2,4-Dinitrotoluene	11.70	165	956738	101.16	ug/ml#	90
50) Diethylphthalate	11.89	149	2892232	113.54	ug/ml	100
51) Fluorene	12.08	166	3075221	102.10	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.04	204	1588813	103.76	ug/ml	98
53) 4-Nitroaniline	12.11	138	618322	106.45	ug/ml	97
54) 1,2-Diphenylhydrazine	12.20	77	3267811	107.10	ug/ml	98
57) 4,6-Dinitro-2-Methylphenol	12.12	198	594233	102.44	ug/ml	94
58) n-Nitrosodiphenylamine	12.16	169	2291553	115.69	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	882592	95.27	ug/ml	96
60) Hexachlorobenzene	12.66	284	918759	87.65	ug/ml	97
61) Pentachlorophenol	12.85	266	392453	122.04	ug/ml	98
62) Phenanthrene	13.08	178	4359157	108.13	ug/ml	98
63) Anthracene	13.13	178	4522000	111.94	ug/ml	99
64) Carbazole	13.28	167	3243481	101.64	ug/ml	98
65) Di-n-Butyl Phthalate	13.53	149	4941756	108.17	ug/ml	99
66) Fluoranthene	14.31	202	5096795	110.65	ug/ml	98
68) Benzidine	14.41	184	482528	96.47	ug/ml	100
69) Pyrene	14.56	202	5295010	113.89	ug/ml	99
71) Butyl Benzyl Phthalate	15.09	149	2309627	109.78	ug/ml	99
72) Benzo[a]anthracene	15.82	228	5027584	111.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061201\4M8810.D
Acq On : 12 Jun 2001 19:45
Sample : 120PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 12
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:04:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	1479145	120.08	ug/ml	99
74) Chrysene	15.87	228	5022504	113.16	ug/ml	99
75) bis(2-Ethylhexyl)phthalate	15.63	149	3082857	109.70	ug/ml	100
77) Di-n-Octyl Phthalate	16.44	149	5304446	115.97	ug/ml	100
78) Benzo[b]fluoranthene	17.40	252	4762892	119.34	ug/ml	99
79) Benzo[k]fluoranthene	17.44	252	4708152	114.17	ug/ml	99
80) Benzo[a]pyrene	18.04	252	4289412	115.94	ug/ml	100
81) Indeno[1,2,3-cd]pyrene	20.75	276	3750361	100.93	ug/ml#	100
82) Dibenz[ah]anthracene	20.74	278	2391471	102.47	ug/ml	100
83) Benzo[ghi]perylene	21.57	276	2805608	93.49	ug/ml	100

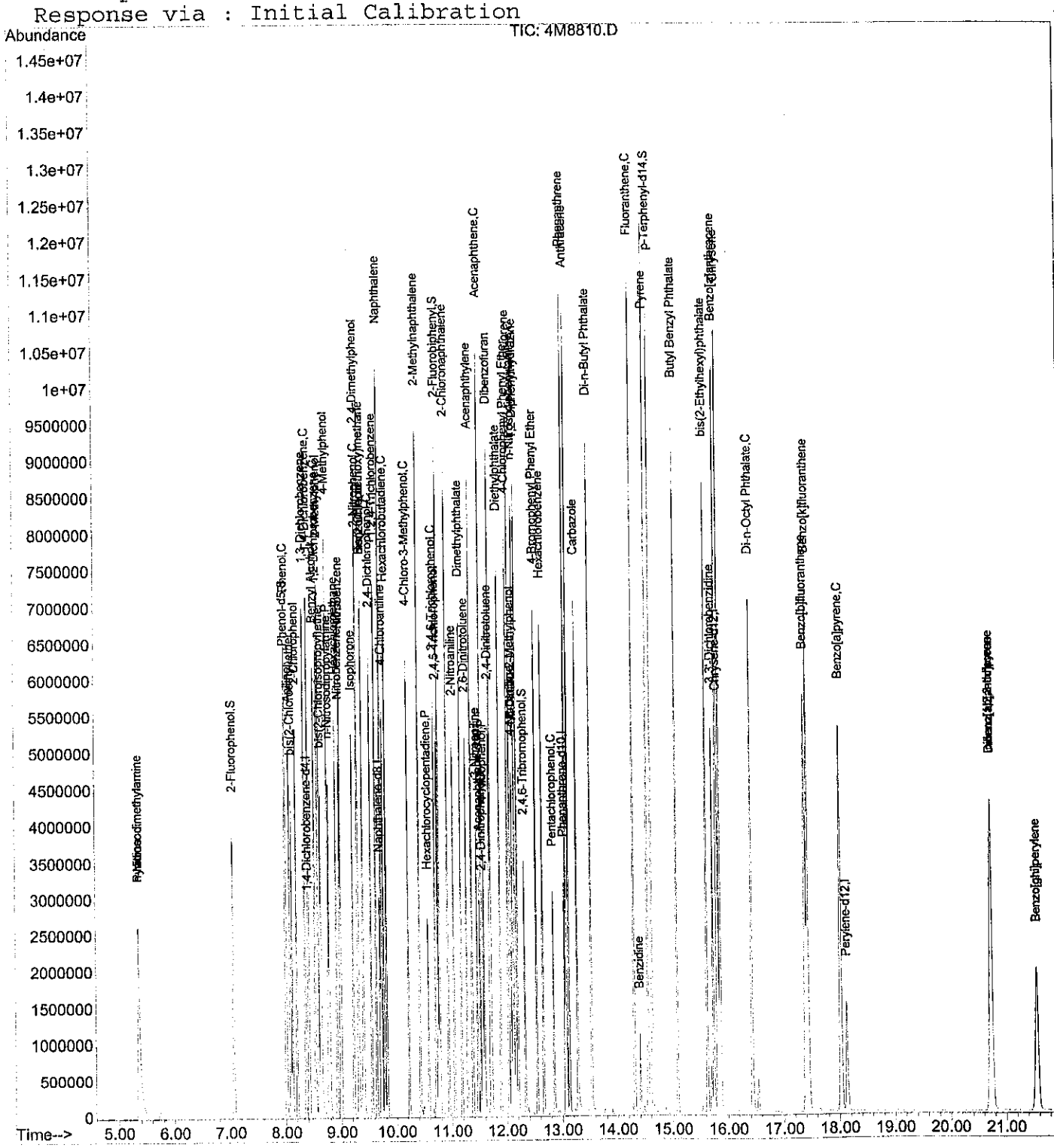
(#) = qualifier out of range (m) = manual integration
4M8810.D BNA.M Wed Jun 13 09:06:43 2001 HPMS4

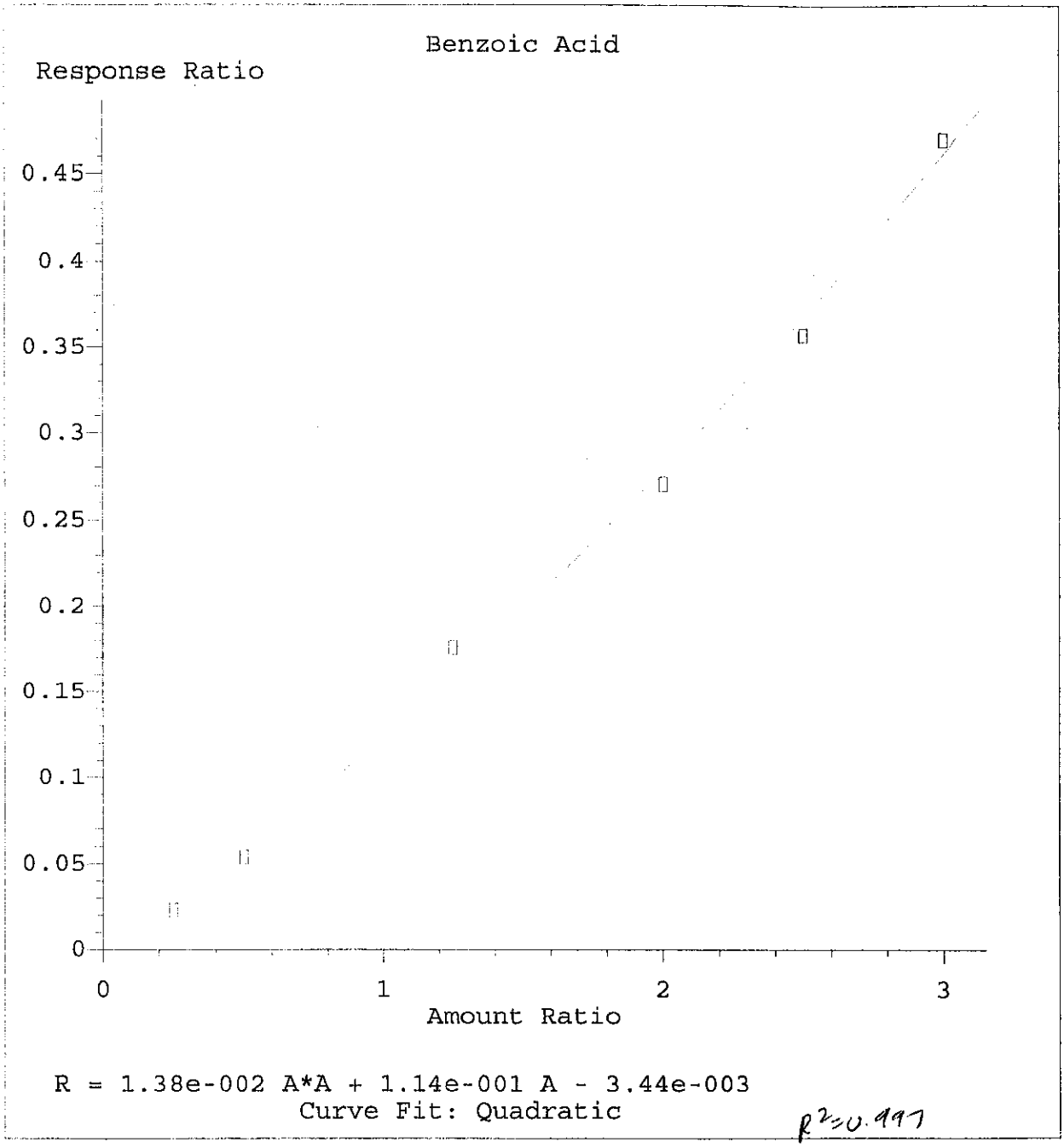
Data File : C:\HPCHEM\1\DATA\061201\4M8810.D
Acq On : 12 Jun 2001 19:45
Sample : 120PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 13 7:04 2001

Vial: 12
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Wed Jun 13 09:07:33 2001

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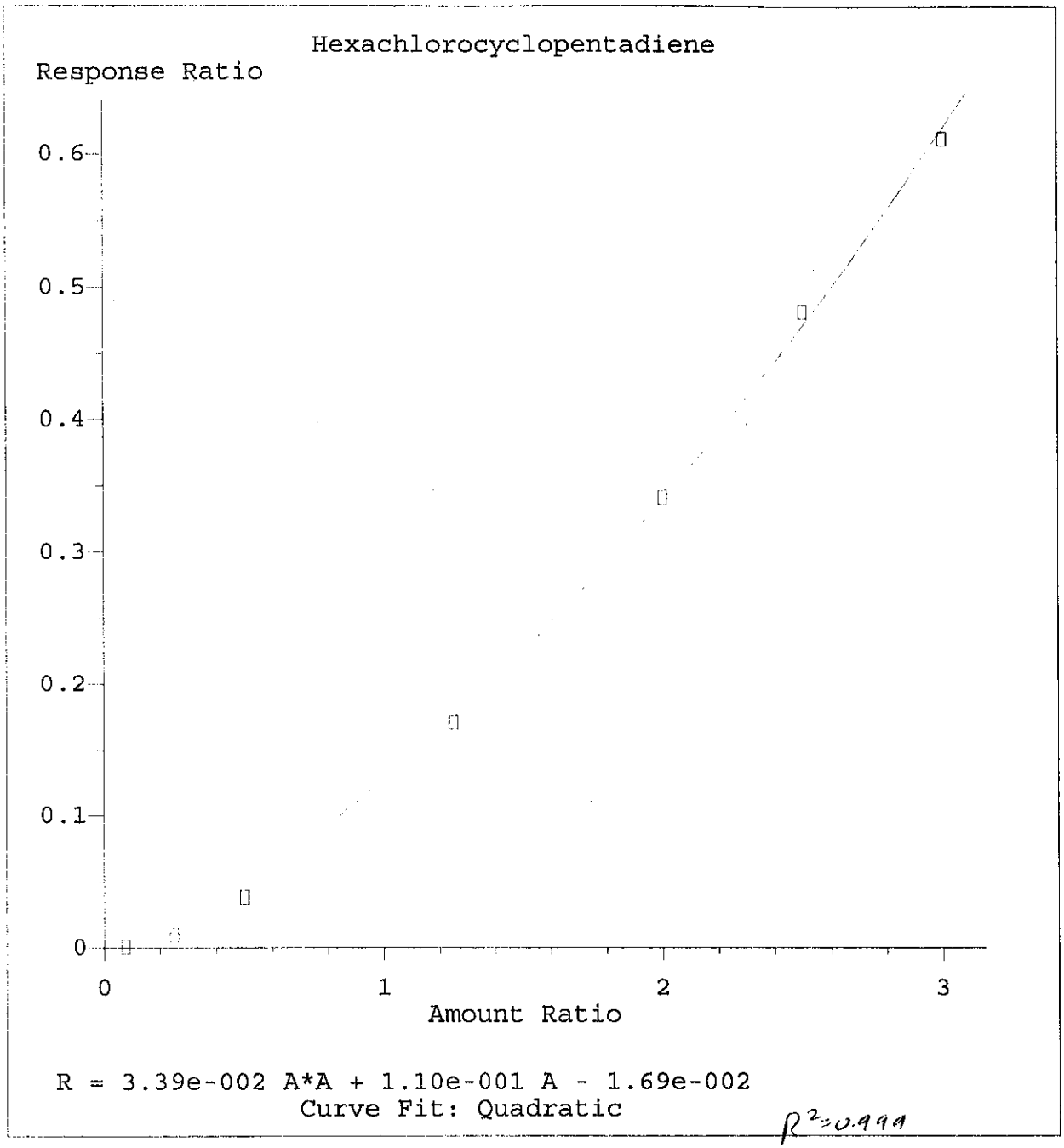
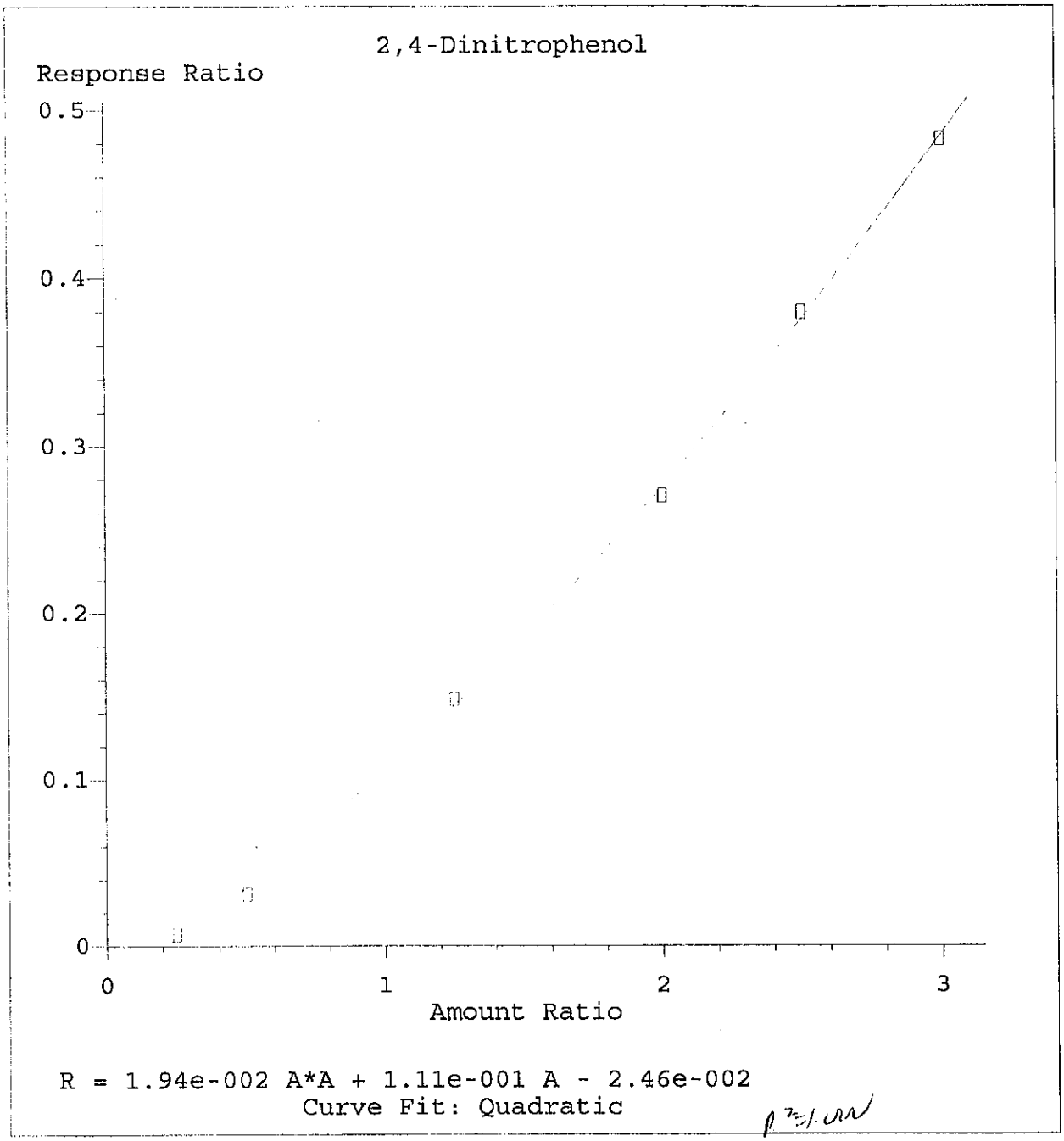
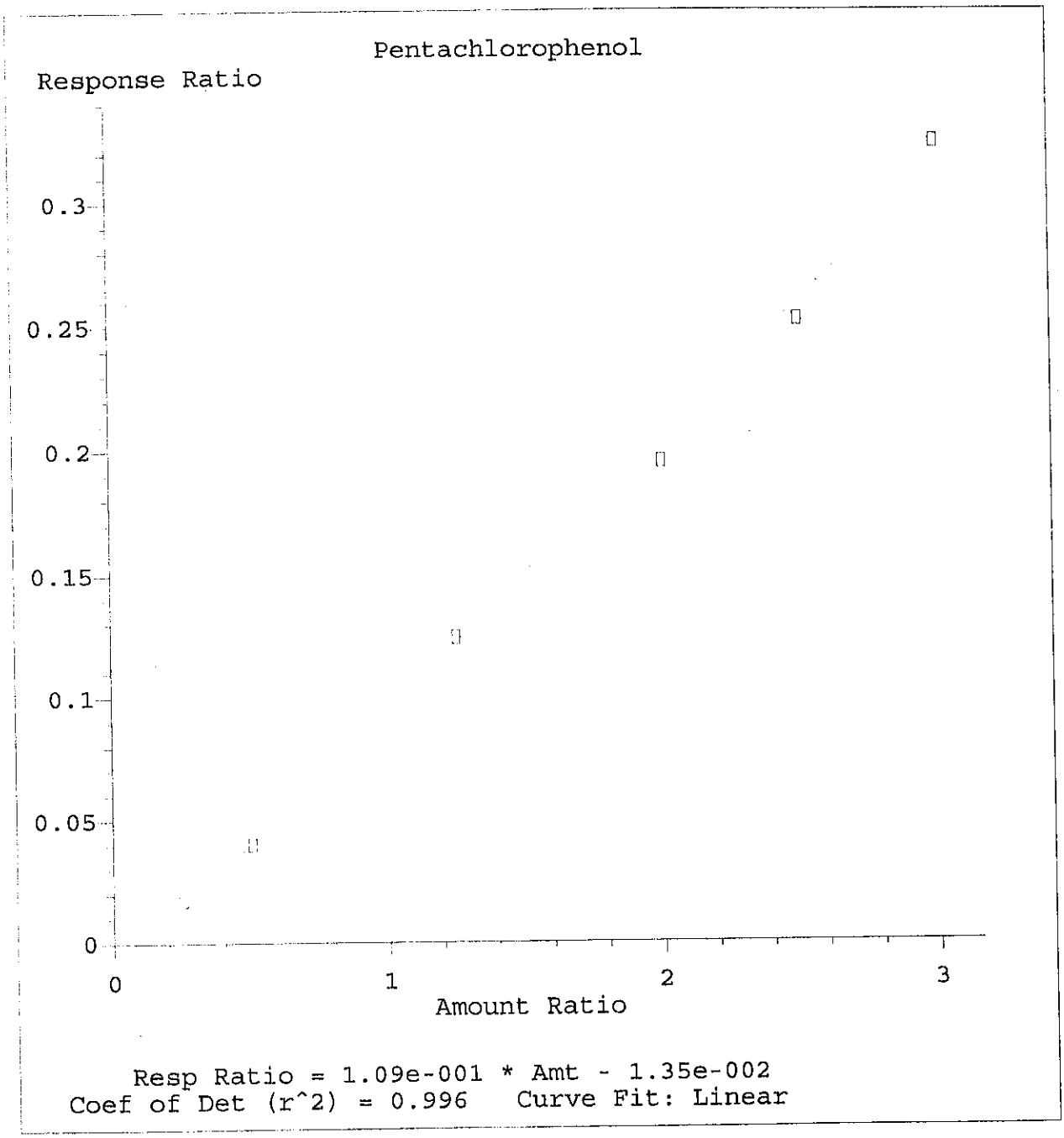


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Wed Jun 13 09:07:33 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Wed Jun 13 09:07:33 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Wed Jun 13 09:07:33 2001

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Data File : C:\HPCHEM\1\DATA\061301\4M8812.D
Acq On : 13 Jun 2001 8:02
Sample : 50ppm Alt source STD
Misc :
MS Integration Params: RTEINT.P

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	102	0.00
2		Pyridine	50.000	55.431	-10.9	105	-0.01
3		n-Nitrosodimethylamine	50.000	51.213	-2.4	104	-0.01
4	S	2-Fluorophenol	50.000	51.309	-2.6	104	0.00
5		Aniline	50.000	49.385	1.2	101	0.00
6	S	Phenol-d5	50.000	51.942	-3.9	104	0.00
7	C	Phenol	50.000	49.189	1.6	100	0.00
8		bis(2-Chloroethyl)ether	50.000	51.665	-3.3	106	0.00
9		2-Chlorophenol	50.000	49.986	0.0	102	0.00
10		1,3-Dichlorobenzene	50.000	50.496	-1.0	103	0.00
11	C	1,4-Dichlorobenzene	50.000	49.794	0.4	102	0.00
12		Benzyl Alcohol	50.000	51.108	-2.2	102	0.00
13	C	1,2-Dichlorobenzene	50.000	50.817	-1.6	104	0.00
14		2-Methylphenol	50.000	51.973	-3.9	106	0.00
15		bis(2-Chloroisopropyl)ether	50.000	43.979	12.0	90	0.00
16		4-Methylphenol	50.000	49.844	0.3	101	0.00
17	P	n-Nitrosodipropylamine	50.000	54.378	-8.8	110	0.00
18		Hexachloroethane	50.000	48.242	3.5	98	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	101	0.00
20	S	Nitrobenzene-d5	50.000	53.504	-7.0	107	0.00
21		Nitrobenzene	50.000	51.056	-2.1	103	0.00
22		Isophorone	50.000	59.074	-18.1	117	0.00
23	C	2-Nitrophenol	50.000	51.864	-3.7	102	0.00
24		2,4-Dimethylphenol	50.000	52.442	-4.9	106	0.00
25		bis(2-Chloroethoxy)methane	50.000	51.805	-3.6	105	0.00
26		Benzoic Acid	50.000	53.404	-6.8	100	0.00
27	C	2,4-Dichlorophenol	50.000	50.008	-0.0	101	0.00
28		1,2,4-Trichlorobenzene	50.000	49.187	1.6	101	0.00
29		Naphthalene	50.000	49.607	0.8	101	0.00
30		4-Chloroaniline	50.000	49.719	0.6	97	0.00
31	C	Hexachlorobutadiene	50.000	54.315	-8.6	113	0.00
32	C	4-Chloro-3-Methylphenol	50.000	51.561	-3.1	102	0.00
33		2-Methylnaphthalene	50.000	51.210	-2.4	104	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	101	0.00
35	P	Hexachlorocyclopentadiene	50.000	60.104	-20.2	134	0.00
36	C	2,4,6-Trichlorophenol	50.000	51.989	-4.0	102	0.00
37		2,4,5-Trichlorophenol	50.000	51.259	-2.5	101	0.00
38	S	2-Fluorobiphenyl	50.000	54.563	-9.1	110	0.00
39		2-Chloronaphthalene	50.000	51.642	-3.3	103	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D
Acq On : 13 Jun 2001 8:02
Sample : 50ppm Alt source STD
Misc :
MS Integration Params: RTEINT.P

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	50.017	-0.0	101	0.00
41		Dimethylphthalate	50.000	50.323	-0.6	100	0.00
42		Acenaphthylene	50.000	53.595	-7.2	108	0.00
43		2,6-Dinitrotoluene	50.000	52.917	-5.8	103	0.00
44		3-Nitroaniline	50.000	43.237	13.5	83	0.00
45	C	Acenaphthene	50.000	51.140	-2.3	103	0.00
46	P	2,4-Dinitrophenol	50.000	48.164	3.7	94	0.00
47	P	4-Nitrophenol	50.000	49.349	1.3	101	0.00
48		Dibenzofuran	50.000	50.886	-1.8	106	0.00
49		2,4-Dinitrotoluene	50.000	54.151	-8.3	105	0.00
50		Diethylphthalate	50.000	52.144	-4.3	105	0.00
51		Fluorene	50.000	50.209	-0.4	102	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	49.784	0.4	101	0.00
53		4-Nitroaniline	50.000	39.751	20.5	73	0.00
54		1,2-Diphenylhydrazine	50.000	50.801	-1.6	101	0.00
55	S	2,4,6-Tribromophenol	50.000	52.992	-6.0	104	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	101	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	50.682	-1.4	104	0.00
58	C	n-Nitrosodiphenylamine	50.000	50.422	-0.8	99	0.00
59		4-Bromophenyl Phenyl Ether	50.000	45.143	9.7	90	0.00
60		Hexachlorobenzene	50.000	50.948	-1.9	103	0.00
61	C	Pentachlorophenol	50.000	51.022	-2.0	101	0.00
62		Phenanthrene	50.000	49.657	0.7	100	0.00
63		Anthracene	50.000	51.073	-2.1	102	0.00
64		Carbazole	50.000	37.180	25.6	77	0.00
65		Di-n-Butyl Phthalate	50.000	49.878	0.2	99	0.00
66	C	Fluoranthene	50.000	48.288	3.4	97	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	100	0.00
68		Benzidine	50.000	37.929	24.1	78	0.00
69		Pyrene	50.000	49.193	1.6	99	0.00
70	S	p-Terphenyl-d14	50.000	52.948	-5.9	107	0.00
71		Butyl Benzyl Phthalate	50.000	51.044	-2.1	101	0.00
72		Benzo[a]anthracene	50.000	48.825	2.3	99	0.00
73		3,3'-Dichlorobenzidine	50.000	42.945	14.1	95	0.00
74		Chrysene	50.000	35.914	28.2	72	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	49.921	0.2	101	0.00
76	I	Perylene-d12	40.000	40.000	0.0	100	0.00
77	C	Di-n-Octyl Phthalate	50.000	51.136	-2.3	100	0.00

(#)=Out of Range
4M8812.D BNA.M Wed Jun 13 09:07:40 2001 HPMS4 255 Page 2

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D
Acq On : 13 Jun 2001 8:02
Sample : 50ppm Alt source STD
Misc :
MS Integration Params: RTEINT.P

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	49.116	1.8	100	0.00
79		Benzo[k]fluoranthene	50.000	50.873	-1.7	100	0.00
80	C	Benzo[a]pyrene	50.000	48.928	2.1	98	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	52.727	-5.5	101	-0.01
82		Dibenz[ah]anthracene	50.000	58.639	-17.3	113	-0.01
83		Benzo[ghi]perylene	50.000	53.073	-6.1	101	-0.01

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D Vial: 2
Acq On : 13 Jun 2001 8:02 Operator: mdc
Sample : 50ppm Alt source STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2		Pyridine	1.558	1.727	-10.8	105	-0.01
3		n-Nitrosodimethylamine	0.934	0.956	-2.4	104	-0.01
4	S	2-Fluorophenol	1.378	1.414	-2.6	104	0.00
5		Aniline	0.816	0.806	1.2	101	0.00
6	S	Phenol-d5	1.688	1.753	-3.9	104	0.00
7	C	Phenol	1.863	1.833	1.6	100	0.00
8		bis(2-Chloroethyl)ether	0.986	1.019	-3.3	106	0.00
9		2-Chlorophenol	1.392	1.392	0.0	102	0.00
10		1,3-Dichlorobenzene	1.581	1.597	-1.0	103	0.00
11	C	1,4-Dichlorobenzene	1.666	1.659	0.4	102	0.00
12		Benzyl Alcohol	0.958	0.980	-2.3	102	0.00
13	C	1,2-Dichlorobenzene	1.523	1.548	-1.6	104	0.00
14		2-Methylphenol	1.182	1.228	-3.9	106	0.00
15		bis(2-Chloroisopropyl)ether	1.903	1.674	12.0	90	0.00
16		4-Methylphenol	1.754	1.749	0.3	101	0.00
17	P	n-Nitrosodipropylamine	1.016	1.105	-8.8	110	0.00
18		Hexachloroethane	0.635	0.613	3.5	98	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
20	S	Nitrobenzene-d5	0.419	0.448	-6.9	107	0.00
21		Nitrobenzene	0.436	0.445	-2.1	103	0.00
22		Isophorone	0.670	0.791	-18.1	117	0.00
23	C	2-Nitrophenol	0.208	0.216	-3.8	102	0.00
24		2,4-Dimethylphenol	0.341	0.357	-4.7	106	0.00
25		bis(2-Chloroethoxy)methane	0.433	0.449	-3.7	105	0.00
26		Benzoic Acid	0.129	0.138	-7.0	100	0.00
27	C	2,4-Dichlorophenol	0.308	0.308	0.0	101	0.00
28		1,2,4-Trichlorobenzene	0.351	0.346	1.4	101	0.00
29		Naphthalene	1.116	1.107	0.8	101	0.00
30		4-Chloroaniline	0.438	0.435	0.7	97	0.00
31	C	Hexachlorobutadiene	0.199	0.216	-8.5	113	0.00
32	C	4-Chloro-3-Methylphenol	0.316	0.326	-3.2	102	0.00
33		2-Methylnaphthalene	0.728	0.746	-2.5	104	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
35	P	Hexachlorocyclopentadiene	0.118	0.180	-52.5#	134	0.00
36	C	2,4,6-Trichlorophenol	0.366	0.381	-4.1	102	0.00
37		2,4,5-Trichlorophenol	0.395	0.405	-2.5	101	0.00
38	S	2-Fluorobiphenyl	1.371	1.496	-9.1	110	0.00
39		2-Chloronaphthalene	1.227	1.267	-3.3	103	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D Vial: 2
Acq On : 13 Jun 2001 8:02 Operator: mdc
Sample : 50ppm Alt source STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.407	0.407	0.0	101	0.00
41		Dimethylphthalate	1.315	1.324	-0.7	100	0.00
42		Acenaphthylene	1.799	1.928	-7.2	108	0.00
43		2,6-Dinitrotoluene	0.302	0.320	-6.0	103	0.00
44		3-Nitroaniline	0.317	0.275	13.2	83	0.00
45	C	Acenaphthene	1.197	1.224	-2.3	103	0.00
46	P	2,4-Dinitrophenol	0.110	0.110	0.0	94	0.00
47	P	4-Nitrophenol	0.251	0.247	1.6	101	0.00
48		Dibenzofuran	1.698	1.729	-1.8	106	0.00
49		2,4-Dinitrotoluene	0.407	0.441	-8.4	105	0.00
50		Diethylphthalate	1.302	1.358	-4.3	105	0.00
51		Fluorene	1.349	1.355	-0.4	102	0.00
52		4-Chlorophenyl Phenyl Ether	0.677	0.674	0.4	101	0.00
53		4-Nitroaniline	0.298	0.237	20.5	73	0.00
54		1,2-Diphenylhydrazine	1.468	1.492	-1.6	101	0.00
55	S	2,4,6-Tribromophenol	0.157	0.167	-6.4	104	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
57		4,6-Dinitro-2-Methylphenol	0.148	0.150	-1.4	104	0.00
58	C	n-Nitrosodiphenylamine	0.622	0.627	-0.8	99	0.00
59		4-Bromophenyl Phenyl Ether	0.232	0.209	9.9	90	0.00
60		Hexachlorobenzene	0.240	0.245	-2.1	103	0.00
61	C	Pentachlorophenol	0.093	0.100	-7.5	101	0.00
62		Phenanthrene	1.262	1.254	0.6	100	0.00
63		Anthracene	1.268	1.295	-2.1	102	0.00
64		Carbazole	1.020	0.758	25.7	77	0.00
65		Di-n-Butyl Phthalate	1.426	1.423	0.2	99	0.00
66	C	Fluoranthene	1.446	1.396	3.5	97	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
68		Benzidine	0.147	0.112	23.8	78	0.00
69		Pyrene	1.394	1.372	1.6	99	0.00
70	S	p-Terphenyl-d14	0.969	1.027	-6.0	107	0.00
71		Butyl Benzyl Phthalate	0.625	0.638	-2.1	101	0.00
72		Benzo[a]anthracene	1.333	1.302	2.3	99	0.00
73		3,3'-Dichlorobenzidine	0.376	0.323	14.1	95	0.00
74		Chrysene	1.325	0.951	28.2	72	0.00
75		bis(2-Ethylhexyl)phthalate	0.837	0.835	0.2	101	0.00
76	I	Perylene-d12	1.000	1.000	0.0	100	0.00
77	C	Di-n-Octyl Phthalate	1.958	2.002	-2.2	100	0.00

(#)=Out of Range
4M8812.D BNA.M Wed Jun 13 09:07:47 2001 HPMS4 Page 528

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D Vial: 2
Acq On : 13 Jun 2001 8:02 Operator: mdc
Sample : 50ppm Alt source STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.680	1.650	1.8	100	0.00
79		Benzo[k]fluoranthene	1.715	1.745	-1.7	100	0.00
80	C	Benzo[a]pyrene	1.553	1.520	2.1	98	0.00
81		Indeno[1,2,3-cd]pyrene	1.557	1.642	-5.5	101	-0.01
82		Dibenz[ah]anthracene	0.965	1.132	-17.3	113	-0.01
83		Benzo[ghi]perylene	1.279	1.357	-6.1	101	-0.01

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D
Acq On : 13 Jun 2001 8:02
Sample : 50ppm Alt source STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:25 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	345909	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1302825	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	698294	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1128596	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1214425	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	868624	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	611452	51.31	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 51.31%			
6) Phenol-d5	8.00	99	758186	51.94	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 51.94%			
20) Nitrobenzene-d5	8.98	82	729349	53.50	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 107.00%			
38) 2-Fluorobiphenyl	10.78	172	1306010	54.56	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 109.12%			
55) 2,4,6-Tribromophenol	12.33	330	145512	52.99	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 52.99%			
70) p-Terphenyl-d14	14.63	244	1558443	52.95	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 105.90%			
Target Compounds						Qvalue
2) Pyridine	5.35	79	746783	55.43	ug/ml	99
3) n-Nitrosodimethylamine	5.34	74	413478	51.21	ug/ml	98
5) Aniline	8.08	66	348685	49.39	ug/ml	95
7) Phenol	8.01	94	792583	49.19	ug/ml	98
8) bis(2-Chloroethyl)ether	8.11	63	440425	51.67	ug/ml	97
9) 2-Chlorophenol	8.20	128	601706	49.99	ug/ml	100
10) 1,3-Dichlorobenzene	8.35	146	690327	50.50	ug/ml	99
11) 1,4-Dichlorobenzene	8.42	146	717400	49.79	ug/ml	99
12) Benzyl Alcohol	8.53	108	423580	51.11	ug/ml	99
13) 1,2-Dichlorobenzene	8.59	146	669180	50.82	ug/ml	100
14) 2-Methylphenol	8.62	107	531077	51.97	ug/ml	94
15) bis(2-Chloroisopropyl)ethe	8.64	45	723755	43.98	ug/ml	93
16) 4-Methylphenol	8.77	107	756083	49.84	ug/ml	100
17) n-Nitrosodipropylamine	8.79	70	477983	54.38	ug/ml	100
18) Hexachloroethane	8.92	117	265037	48.24	ug/ml	99
21) Nitrobenzene	9.00	77	724886	51.06	ug/ml	100
22) Isophorone	9.21	82	1288220	59.07	ug/ml	100
23) 2-Nitrophenol	9.32	139	351714	51.86	ug/ml	98
24) 2,4-Dimethylphenol	9.31	122	581771	52.44	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.40	93	731443	51.80	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 13 Jun 2001 8:02
Sample : 50ppm Alt source STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:25 2001

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.38	122	225282	53.40	ug/ml	95
27) 2,4-Dichlorophenol	9.55	162	501728	50.01	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.64	180	562760	49.19	ug/ml	99
29) Naphthalene	9.73	128	1802845	49.61	ug/ml	100
30) 4-Chloroaniline	9.78	127	708678	49.72	ug/ml	99
31) Hexachlorobutadiene	9.83	225	352344	54.31	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.22	107	530550	51.56	ug/ml	100
33) 2-Methylnaphthalene	10.43	142	1215085	51.21	ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	157269	60.10	ug/ml	99
36) 2,4,6-Trichlorophenol	10.71	196	332524	51.99	ug/ml	100
37) 2,4,5-Trichlorophenol	10.75	196	353410	51.26	ug/ml	100
39) 2-Chloronaphthalene	10.94	162	1105784	51.64	ug/ml	100
40) 2-Nitroaniline	11.04	65	355151	50.02	ug/ml	99
41) Dimethylphthalate	11.18	163	1155395	50.32	ug/ml	100
42) Acenaphthylene	11.37	152	1683130	53.59	ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	278963	52.92	ug/ml	98
44) 3-Nitroaniline	11.46	138	239615	43.24	ug/ml	99
45) Acenaphthene	11.55	154	1068247	51.14	ug/ml	98
46) 2,4-Dinitrophenol	11.57	184	96068	48.16	ug/ml#	85
47) 4-Nitrophenol	11.59	65	215854	49.35	ug/ml	97
48) Dibenzofuran	11.71	168	1508835	50.89	ug/ml	99
49) 2,4-Dinitrotoluene	11.69	165	384945	54.15	ug/ml	98
50) Diethylphthalate	11.88	149	1185315	52.14	ug/ml	99
51) Fluorene	12.07	166	1182637	50.21	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	588289	49.78	ug/ml	99
53) 4-Nitroaniline	12.10	138	206956	39.75	ug/ml	88
54) 1,2-Diphenylhydrazine	12.20	77	1302332	50.80	ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.12	198	211101	50.68	ug/ml	97
58) n-Nitrosodiphenylamine	12.16	169	884482	50.42	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	295011	45.14	ug/ml	99
60) Hexachlorobenzene	12.66	284	345014	50.95	ug/ml	99
61) Pentachlorophenol	12.85	266	141588	51.02	ug/ml	95
62) Phenanthrene	13.07	178	1768573	49.66	ug/ml	100
63) Anthracene	13.13	178	1827444	51.07	ug/ml	100
64) Carbazole	13.27	167	1069613	37.18	ug/ml	100
65) Di-n-Butyl Phthalate	13.53	149	2007117	49.88	ug/ml	100
66) Fluoranthene	14.31	202	1969970	48.29	ug/ml	100
68) Benzidine	14.40	184	169371	37.93	ug/ml	100
69) Pyrene	14.55	202	2082528	49.19	ug/ml	100
71) Butyl Benzyl Phthalate	15.08	149	968565	51.04	ug/ml	99
72) Benzo[a]anthracene	15.81	228	1976157	48.82	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D Vial: 2
Acq On : 13 Jun 2001 8:02 Operator: mdc
Sample : WG99368-02 50ppm Alt source STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:25 2001 Quant Results File: BNA.RES

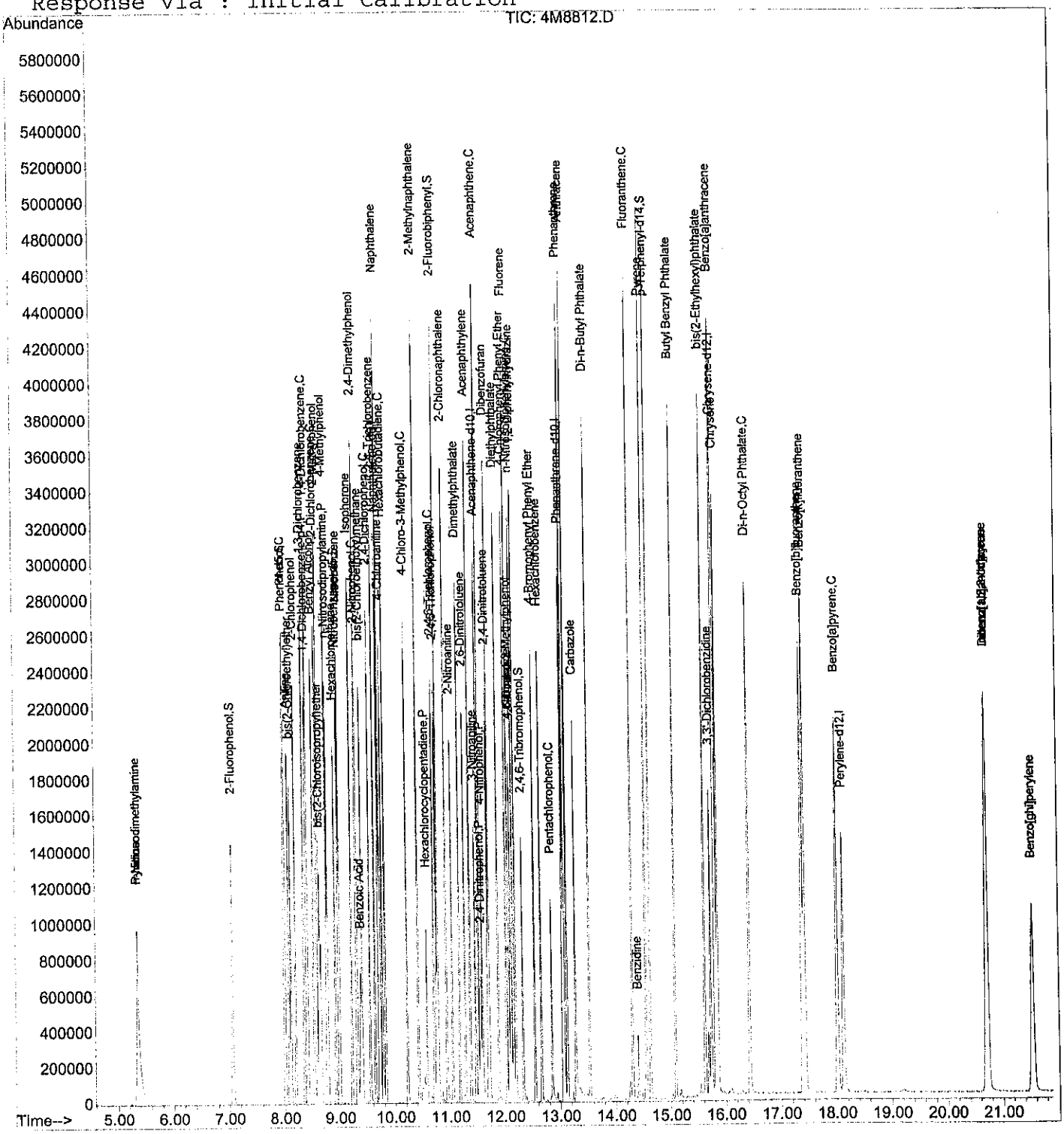
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	489782	42.94	ug/ml	98
74) Chrysene	15.86	228	1444341	35.91	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.63	149	1268254	49.92	ug/ml	100
77) Di-n-Octyl Phthalate	16.43	149	2173855	51.14	ug/ml	100
78) Benzo[b]fluoranthene	17.38	252	1791990	49.12	ug/ml	100
79) Benzo[k]fluoranthene	17.43	252	1894188	50.87	ug/ml	99
80) Benzo[a]pyrene	18.02	252	1650160	48.93	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.72	276	1782986	52.73	ug/ml#	99
82) Dibenz[ah]anthracene	20.72	278	1228863	58.64	ug/ml	99
83) Benzo[ghi]perylene	21.54	276	1473741	53.07	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8812.D Vial: 2
Acq On : 13 Jun 2001 8:02 Operator: mdc
Sample : 50ppm Alt source STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:25 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration



Continuing calibration Area and RT check

Instrument: HPMS4
Initial cal date: 12 Jun 2001 17:04
CCV date: 13 Jun 2001 8:02
CCV filename: 4M8812.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	338233	8.40	1284249	9.71	688309	11.52
CCV	345909	8.40	1302825	9.71	698294	11.52

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	1121394	13.05	1219653	15.83	868701	18.13
CCV	1128596	13.05	1214425	15.83	868624	18.13

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Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2		Pyridine	1.558	1.678	-7.7	105	-0.01
3		n-Nitrosodimethylamine	0.934	0.937	-0.3	105	0.00
4	S	2-Fluorophenol	1.378	1.368	0.7	104	0.00
5		Aniline	0.816	0.815	0.1	105	0.00
6	S	Phenol-d5	1.688	1.705	-1.0	105	0.00
7	C	Phenol	1.863	1.863	0.0	105	0.00
8		bis(2-Chloroethyl)ether	0.986	0.998	-1.2	107	0.00
9		2-Chlorophenol	1.392	1.383	0.6	104	0.00
10		1,3-Dichlorobenzene	1.581	1.559	1.4	104	0.00
11	C	1,4-Dichlorobenzene	1.666	1.646	1.2	104	0.00
12		Benzyl Alcohol	0.958	0.979	-2.2	105	0.00
13	C	1,2-Dichlorobenzene	1.523	1.514	0.6	105	0.00
14		2-Methylphenol	1.182	1.177	0.4	105	0.00
15		bis(2-Chloroisopropyl)ether	1.903	1.898	0.3	105	0.00
16		4-Methylphenol	1.754	1.766	-0.7	105	0.00
17	P	n-Nitrosodipropylamine	1.016	1.036	-2.0	106	0.00
18		Hexachloroethane	0.635	0.634	0.2	104	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
20	S	Nitrobenzene-d5	0.419	0.423	-1.0	104	0.00
21		Nitrobenzene	0.436	0.445	-2.1	106	0.00
22		Isophorone	0.670	0.693	-3.4	106	0.00
23	C	2-Nitrophenol	0.208	0.216	-3.8	105	0.00
24		2,4-Dimethylphenol	0.341	0.346	-1.5	106	0.00
25		bis(2-Chloroethoxy)methane	0.433	0.431	0.5	104	0.00
26		Benzoic Acid	0.129	0.126	2.3	94	0.00
27	C	2,4-Dichlorophenol	0.308	0.311	-1.0	105	0.00
28		1,2,4-Trichlorobenzene	0.351	0.350	0.3	105	0.00
29		Naphthalene	1.116	1.111	0.4	105	0.00
30		4-Chloroaniline	0.438	0.436	0.5	101	0.00
31	C	Hexachlorobutadiene	0.199	0.198	0.5	106	0.00
32	C	4-Chloro-3-Methylphenol	0.316	0.325	-2.8	105	0.00
33		2-Methylnaphthalene	0.728	0.734	-0.8	106	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
35	P	Hexachlorocyclopentadiene	0.118	0.146	-23.7	112	0.00
36	C	2,4,6-Trichlorophenol	0.366	0.381	-4.1	105	0.00
37		2,4,5-Trichlorophenol	0.395	0.401	-1.5	103	0.00
38	S	2-Fluorobiphenyl	1.371	1.400	-2.1	106	0.00
39		2-Chloronaphthalene	1.227	1.247	-1.6	105	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D Vial: 3
Acq On : 13 Jun 2001 8:33 Operator: mdc
Sample : 50ppm BNA STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.407	0.406	0.2	104	0.00
41		Dimethylphthalate	1.315	1.345	-2.3	104	0.00
42		Acenaphthylene	1.799	1.834	-1.9	106	0.00
43		2,6-Dinitrotoluene	0.302	0.317	-5.0	105	0.00
44		3-Nitroaniline	0.317	0.327	-3.2	102	0.00
45	C	Acenaphthene	1.197	1.201	-0.3	104	0.00
46	P	2,4-Dinitrophenol	0.110	0.104	5.5	92	0.00
47	P	4-Nitrophenol	0.251	0.243	3.2	102	0.00
48		Dibenzofuran	1.698	1.682	0.9	106	0.00
49		2,4-Dinitrotoluene	0.407	0.431	-5.9	105	0.00
50		Diethylphthalate	1.302	1.344	-3.2	107	0.00
51		Fluorene	1.349	1.369	-1.5	106	0.00
52		4-Chlorophenyl Phenyl Ether	0.677	0.681	-0.6	105	0.00
53		4-Nitroaniline	0.298	0.228	23.5	72	0.00
54		1,2-Diphenylhydrazine	1.468	1.509	-2.8	105	0.00
55	S	2,4,6-Tribromophenol	0.157	0.161	-2.5	103	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
57		4,6-Dinitro-2-Methylphenol	0.148	0.139	6.1	100	0.00
58	C	n-Nitrosodiphenylamine	0.622	0.633	-1.8	104	0.00
59		4-Bromophenyl Phenyl Ether	0.232	0.236	-1.7	106	0.00
60		Hexachlorobenzene	0.240	0.241	-0.4	105	0.00
61	C	Pentachlorophenol	0.093	0.093	0.0	97	0.00
62		Phenanthrene	1.262	1.266	-0.3	105	0.00
63		Anthracene	1.268	1.279	-0.9	105	0.00
64		Carbazole	1.020	0.894	12.4	94	0.00
65		Di-n-Butyl Phthalate	1.426	1.429	-0.2	103	0.00
66	C	Fluoranthene	1.446	1.450	-0.3	105	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
68		Benzidine	0.147	0.139	5.4	100	0.00
69		Pyrene	1.394	1.406	-0.9	104	0.00
70	S	p-Terphenyl-d14	0.969	0.980	-1.1	105	0.00
71		Butyl Benzyl Phthalate	0.625	0.632	-1.1	103	0.00
72		Benzo[a]anthracene	1.333	1.321	0.9	103	0.00
73		3,3'-Dichlorobenzidine	0.376	0.349	7.2	105	0.00
74		Chrysene	1.325	1.319	0.5	103	0.00
75		bis(2-Ethylhexyl)phthalate	0.837	0.832	0.6	103	0.00
76	I	Perylene-d12	1.000	1.000	0.0	102	0.00
77	C	Di-n-Octyl Phthalate	1.958	2.003	-2.3	102	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.680	1.757	-4.6	109	0.00
79		Benzo[k]fluoranthene	1.715	1.650	3.8	97	0.00
80	C	Benzo[a]pyrene	1.553	1.581	-1.8	104	0.00
81		Indeno[1,2,3-cd]pyrene	1.557	1.631	-4.8	102	-0.01
82		Dibenz[ah]anthracene	0.965	0.995	-3.1	102	-0.01
83		Benzo[ghi]perylene	1.279	1.341	-4.8	102	-0.01

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	105	0.00
2		Pyridine	50.000	53.848	-7.7	105	-0.01
3		n-Nitrosodimethylamine	50.000	50.168	-0.3	105	0.00
4	S	2-Fluorophenol	50.000	49.623	0.8	104	0.00
5		Aniline	50.000	49.894	0.2	105	0.00
6	S	Phenol-d5	50.000	50.496	-1.0	105	0.00
7	C	Phenol	50.000	50.004	-0.0	105	0.00
8		bis(2-Chloroethyl)ether	50.000	50.605	-1.2	107	0.00
9		2-Chlorophenol	50.000	49.667	0.7	104	0.00
10		1,3-Dichlorobenzene	50.000	49.321	1.4	104	0.00
11	C	1,4-Dichlorobenzene	50.000	49.400	1.2	104	0.00
12		Benzyl Alcohol	50.000	51.098	-2.2	105	0.00
13	C	1,2-Dichlorobenzene	50.000	49.717	0.6	105	0.00
14		2-Methylphenol	50.000	49.789	0.4	105	0.00
15		bis(2-Chloroisopropyl)ether	50.000	49.881	0.2	105	0.00
16		4-Methylphenol	50.000	50.342	-0.7	105	0.00
17	P	n-Nitrosodipropylamine	50.000	50.978	-2.0	106	0.00
18		Hexachloroethane	50.000	49.900	0.2	104	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	105	0.00
20	S	Nitrobenzene-d5	50.000	50.524	-1.0	104	0.00
21		Nitrobenzene	50.000	51.030	-2.1	106	0.00
22		Isophorone	50.000	51.788	-3.6	106	0.00
23	C	2-Nitrophenol	50.000	51.974	-3.9	105	0.00
24		2,4-Dimethylphenol	50.000	50.813	-1.6	106	0.00
25		bis(2-Chloroethoxy)methane	50.000	49.725	0.5	104	0.00
26		Benzoic Acid	50.000	49.376	1.2	94	0.00
27	C	2,4-Dichlorophenol	50.000	50.512	-1.0	105	0.00
28		1,2,4-Trichlorobenzene	50.000	49.792	0.4	105	0.00
29		Naphthalene	50.000	49.796	0.4	105	0.00
30		4-Chloroaniline	50.000	49.790	0.4	101	0.00
31	C	Hexachlorobutadiene	50.000	49.622	0.8	106	0.00
32	C	4-Chloro-3-Methylphenol	50.000	51.398	-2.8	105	0.00
33		2-Methylnaphthalene	50.000	50.353	-0.7	106	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	104	0.00
35	P	Hexachlorocyclopentadiene	50.000	51.829	-3.7	112	0.00
36	C	2,4,6-Trichlorophenol	50.000	51.980	-4.0	105	0.00
37		2,4,5-Trichlorophenol	50.000	50.742	-1.5	103	0.00
38	S	2-Fluorobiphenyl	50.000	51.055	-2.1	106	0.00
39		2-Chloronaphthalene	50.000	50.819	-1.6	105	0.00

(#)=Out of Range
4M8813.D BNA.M Thu Jun 14 07:38:50 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D Vial: 3
Acq On : 13 Jun 2001 8:33 Operator: mdc
Sample : 50ppm BNA STD Inst : HPMS4
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	49.956	0.1	104	0.00
41		Dimethylphthalate	50.000	51.139	-2.3	104	0.00
42		Acenaphthylene	50.000	50.965	-1.9	106	0.00
43		2,6-Dinitrotoluene	50.000	52.511	-5.0	105	0.00
44		3-Nitroaniline	50.000	51.452	-2.9	102	0.00
45	C	Acenaphthene	50.000	50.197	-0.4	104	0.00
46	P	2,4-Dinitrophenol	50.000	46.357	7.3	92	0.00
47	P	4-Nitrophenol	50.000	48.533	2.9	102	0.00
48		Dibenzofuran	50.000	49.515	1.0	106	0.00
49		2,4-Dinitrotoluene	50.000	52.902	-5.8	105	0.00
50		Diethylphthalate	50.000	51.607	-3.2	107	0.00
51		Fluorene	50.000	50.722	-1.4	106	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	50.310	-0.6	105	0.00
53		4-Nitroaniline	50.000	38.273	23.5	72	0.00
54		1,2-Diphenylhydrazine	50.000	51.392	-2.8	105	0.00
55	S	2,4,6-Tribromophenol	50.000	51.282	-2.6	103	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	47.188	5.6	100	0.00
58	C	n-Nitrosodiphenylamine	50.000	50.917	-1.8	104	0.00
59		4-Bromophenyl Phenyl Ether	50.000	51.045	-2.1	106	0.00
60		Hexachlorobenzene	50.000	50.128	-0.3	105	0.00
61	C	Pentachlorophenol	50.000	47.466	5.1	97	0.00
62		Phenanthrene	50.000	50.156	-0.3	105	0.00
63		Anthracene	50.000	50.423	-0.8	105	0.00
64		Carbazole	50.000	43.857	12.3	94	0.00
65		Di-n-Butyl Phthalate	50.000	50.094	-0.2	103	0.00
66	C	Fluoranthene	50.000	50.154	-0.3	105	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
68		Benzidine	50.000	47.276	5.4	100	0.00
69		Pyrene	50.000	50.419	-0.8	104	0.00
70	S	p-Terphenyl-d14	50.000	50.525	-1.0	105	0.00
71		Butyl Benzyl Phthalate	50.000	50.585	-1.2	103	0.00
72		Benzo[a]anthracene	50.000	49.556	0.9	103	0.00
73		3,3'-Dichlorobenzidine	50.000	46.447	7.1	105	0.00
74		Chrysene	50.000	49.771	0.5	103	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	49.730	0.5	103	0.00
76	I	Perylene-d12	40.000	40.000	0.0	102	0.00
77	C	Di-n-Octyl Phthalate	50.000	51.165	-2.3	102	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.291	-4.6	109	0.00
79		Benzo[k]fluoranthene	50.000	48.123	3.8	97	0.00
80	C	Benzo[a]pyrene	50.000	50.897	-1.8	104	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	52.364	-4.7	102	-0.01
82		Dibenz[ah]anthracene	50.000	51.548	-3.1	102	-0.01
83		Benzo[ghi]perylene	50.000	52.422	-4.8	102	-0.01

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:56 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	356453	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1345120	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	718073	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1168708	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1248870	40.00	ug/ml	0.00
76) Perylene-d12	18.13	264	886932	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	609393	49.62	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 49.62%			
6) Phenol-d5	8.00	99	759536	50.50	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 50.50%			
20) Nitrobenzene-d5	8.98	82	711087	50.52	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 101.04%			
38) 2-Fluorobiphenyl	10.78	172	1256656	51.05	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 102.10%			
55) 2,4,6-Tribromophenol	12.33	330	144804	51.28	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 51.28%			
70) p-Terphenyl-d14	14.63	244	1529306	50.53	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 101.06%			
Target Compounds						Qvalue
2) Pyridine	5.35	79	747563	53.85	ug/ml	98
3) n-Nitrosodimethylamine	5.35	74	417392	50.17	ug/ml	98
5) Aniline	8.08	66	363014	49.89	ug/ml	95
7) Phenol	8.01	94	830264	50.00	ug/ml	99
8) bis(2-Chloroethyl)ether	8.11	63	444534	50.60	ug/ml	97
9) 2-Chlorophenol	8.20	128	616093	49.67	ug/ml	99
10) 1,3-Dichlorobenzene	8.35	146	694808	49.32	ug/ml	100
11) 1,4-Dichlorobenzene	8.42	146	733414	49.40	ug/ml	100
12) Benzyl Alcohol	8.53	108	436408	51.10	ug/ml	99
13) 1,2-Dichlorobenzene	8.59	146	674648	49.72	ug/ml	100
14) 2-Methylphenol	8.62	107	524268	49.79	ug/ml	97
15) bis(2-Chloroisopropyl)ethe	8.64	45	845904	49.88	ug/ml	98
16) 4-Methylphenol	8.77	107	786916	50.34	ug/ml	99
17) n-Nitrosodipropylamine	8.79	70	461759	50.98	ug/ml	100
18) Hexachloroethane	8.92	117	282502	49.90	ug/ml	99
21) Nitrobenzene	9.00	77	748035	51.03	ug/ml	99
22) Isophorone	9.22	82	1165991	51.79	ug/ml	99
23) 2-Nitrophenol	9.32	139	363903	51.97	ug/ml	99
24) 2,4-Dimethylphenol	9.31	122	581994	50.81	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.40	93	724881	49.73	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:56 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.38	122	212399	49.38	ug/ml	95
27) 2,4-Dichlorophenol	9.55	162	523236	50.51	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.64	180	588175	49.79	ug/ml	100
29) Naphthalene	9.73	128	1868472	49.80	ug/ml	100
30) 4-Chloroaniline	9.78	127	732730	49.79	ug/ml	99
31) Hexachlorobutadiene	9.83	225	332354	49.62	ug/ml	98
32) 4-Chloro-3-Methylphenol	10.22	107	546035	51.40	ug/ml	99
33) 2-Methylnaphthalene	10.43	142	1233531	50.35	ug/ml	98
35) Hexachlorocyclopentadiene	10.58	237	131269	51.83	ug/ml	99
36) 2,4,6-Trichlorophenol	10.71	196	341889	51.98	ug/ml	99
37) 2,4,5-Trichlorophenol	10.75	196	359753	50.74	ug/ml	99
39) 2-Chloronaphthalene	10.94	162	1118986	50.82	ug/ml	99
40) 2-Nitroaniline	11.04	65	364764	49.96	ug/ml	98
41) Dimethylphthalate	11.18	163	1207373	51.14	ug/ml	100
42) Acenaphthylene	11.37	152	1645870	50.96	ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	284663	52.51	ug/ml	98
44) 3-Nitroaniline	11.46	138	293218	51.45	ug/ml	98
45) Acenaphthene	11.55	154	1078255	50.20	ug/ml	98
46) 2,4-Dinitrophenol	11.57	184	93689	46.36	ug/ml#	1
47) 4-Nitrophenol	11.59	65	218298	48.53	ug/ml	97
48) Dibenzofuran	11.72	168	1509749	49.51	ug/ml	100
49) 2,4-Dinitrotoluene	11.69	165	386715	52.90	ug/ml	98
50) Diethylphthalate	11.88	149	1206334	51.61	ug/ml	99
51) Fluorene	12.07	166	1228563	50.72	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	611352	50.31	ug/ml	99
53) 4-Nitroaniline	12.10	138	204904	38.27	ug/ml	90
54) 1,2-Diphenylhydrazine	12.20	77	1354779	51.39	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.12	198	203532	47.19	ug/ml	97
58) n-Nitrosodiphenylamine	12.16	169	924912	50.92	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	345432	51.04	ug/ml	99
60) Hexachlorobenzene	12.66	284	351521	50.13	ug/ml	99
61) Pentachlorophenol	12.85	266	135299	47.47	ug/ml	98
62) Phenanthrene	13.07	178	1849839	50.16	ug/ml	100
63) Anthracene	13.13	178	1868307	50.42	ug/ml	100
64) Carbazole	13.28	167	1306551	43.86	ug/ml	99
65) Di-n-Butyl Phthalate	13.53	149	2087436	50.09	ug/ml	100
66) Fluoranthene	14.31	202	2118824	50.15	ug/ml	100
68) Benzidine	14.40	184	217097	47.28	ug/ml	100
69) Pyrene	14.55	202	2194953	50.42	ug/ml	100
71) Butyl Benzyl Phthalate	15.08	149	987085	50.59	ug/ml	99
72) Benzo[a]anthracene	15.81	228	2062645	49.56	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:56 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/11/01
Last Update : Wed Jun 13 07:06:53 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	544751	46.45	ug/ml	99
74) Chrysene	15.86	228	2058379	49.77	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.63	149	1299228	49.73	ug/ml	100
77) Di-n-Octyl Phthalate	16.43	149	2220938	51.17	ug/ml	99
78) Benzo[b]fluoranthene	17.39	252	1948040	52.29	ug/ml	97
79) Benzo[k]fluoranthene	17.43	252	1829589	48.12	ug/ml	97
80) Benzo[a]pyrene	18.02	252	1752773	50.90	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.72	276	1808032	52.36	ug/ml#	100
82) Dibenz[ah]anthracene	20.72	278	1103016	51.55	ug/ml	100
83) Benzo[ghi]perylene	21.54	276	1486350	52.42	ug/ml	100

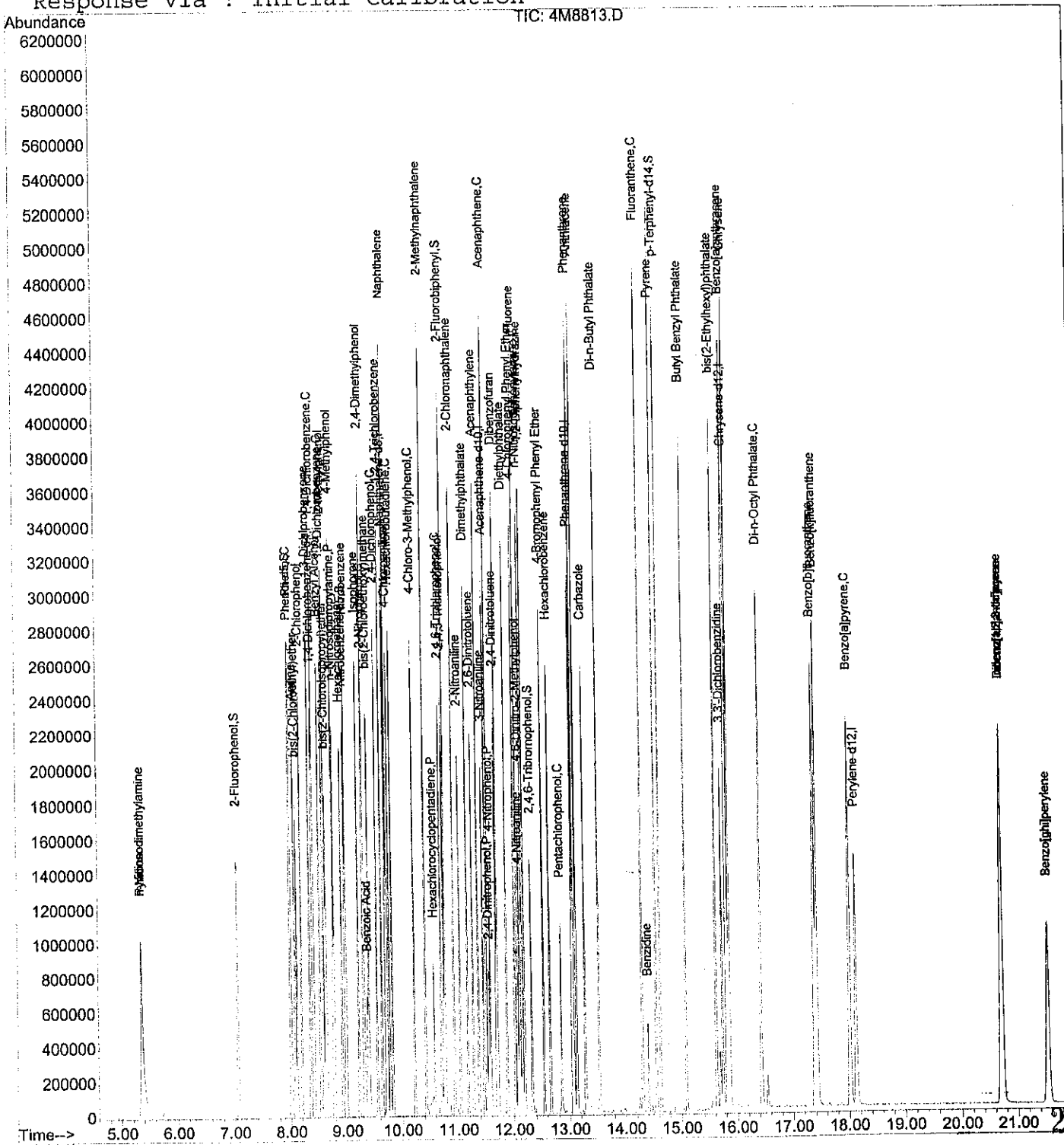
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8813.D
Acq On : 13 Jun 2001 8:33
Sample : 50ppm BNA STD
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 8:56 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration



Continuing calibration Area and RT check

Instrument: HPMS4
Initial cal date: 12 Jun 2001 17:04
CCV date: 15 Jun 2001 10:23
CCV filename: 4M8852.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	338233	8.40	1284249	9.71	688309	11.52
CCV	348312	8.40	1307248	9.71	703284	11.52

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	1121394	13.05	1219653	15.83	868701	18.13
CCV	1201654	13.05	1262815	15.84	897053	18.15

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Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	103	0.00
2		Pyridine	50.000	52.573	-5.1	100	-0.01
3		n-Nitrosodimethylamine	50.000	48.183	3.6	99	0.00
4	S	2-Fluorophenol	50.000	49.811	0.4	102	0.01
5		Aniline	50.000	48.798	2.4	100	0.00
6	S	Phenol-d5	50.000	49.464	1.1	100	0.02
7	C	Phenol	50.000	48.734	2.5	100	0.02
8		bis(2-Chloroethyl)ether	50.000	48.158	3.7	99	0.00
9		2-Chlorophenol	50.000	49.796	0.4	102	0.00
10		1,3-Dichlorobenzene	50.000	50.075	-0.2	103	0.00
11	C	1,4-Dichlorobenzene	50.000	49.649	0.7	103	0.00
12		Benzyl Alcohol	50.000	51.035	-2.1	102	0.00
13	C	1,2-Dichlorobenzene	50.000	50.009	-0.0	103	0.00
14		2-Methylphenol	50.000	50.404	-0.8	104	0.01
15		bis(2-Chloroisopropyl)ether	50.000	47.765	4.5	98	0.00
16		4-Methylphenol	50.000	50.173	-0.3	102	0.01
17	P	n-Nitrosodipropylamine	50.000	49.577	0.8	101	0.00
18		Hexachloroethane	50.000	50.302	-0.6	103	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	102	0.00
20	S	Nitrobenzene-d5	50.000	49.456	1.1	99	0.00
21		Nitrobenzene	50.000	49.242	1.5	100	0.00
22		Isophorone	50.000	50.683	-1.4	101	0.00
23	C	2-Nitrophenol	50.000	51.784	-3.6	102	0.00
24		2,4-Dimethylphenol	50.000	50.956	-1.9	103	0.00
25		bis(2-Chloroethoxy)methane	50.000	48.896	2.2	99	0.00
26		Benzoic Acid	50.000	52.634	-5.3	98	0.02
27	C	2,4-Dichlorophenol	50.000	50.883	-1.8	103	0.00
28		1,2,4-Trichlorobenzene	50.000	50.286	-0.6	103	0.00
29		Naphthalene	50.000	50.005	-0.0	103	0.00
30		4-Chloroaniline	50.000	51.109	-2.2	100	0.00
31	C	Hexachlorobutadiene	50.000	50.642	-1.3	105	0.00
32	C	4-Chloro-3-Methylphenol	50.000	50.649	-1.3	100	0.01
33		2-Methylnaphthalene	50.000	50.431	-0.9	103	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	102	0.00
35	P	Hexachlorocyclopentadiene	50.000	49.975	0.0	104	0.00
36	C	2,4,6-Trichlorophenol	50.000	50.815	-1.6	100	0.00
37		2,4,5-Trichlorophenol	50.000	50.765	-1.5	101	0.00
38	S	2-Fluorobiphenyl	50.000	51.299	-2.6	104	0.00
39		2-Chloronaphthalene	50.000	50.692	-1.4	102	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	49.173	1.7	100	0.00
41		Dimethylphthalate	50.000	51.989	-4.0	104	0.00
42		Acenaphthylene	50.000	50.525	-1.0	103	0.00
43		2,6-Dinitrotoluene	50.000	52.532	-5.1	103	0.00
44		3-Nitroaniline	50.000	49.747	0.5	96	0.00
45	C	Acenaphthene	50.000	49.965	0.1	101	0.00
46	P	2,4-Dinitrophenol	50.000	53.930	-7.9	111	0.00
47	P	4-Nitrophenol	50.000	47.859	4.3	99	0.02
48		Dibenzofuran	50.000	49.990	0.0	105	0.00
49		2,4-Dinitrotoluene	50.000	53.595	-7.2	105	0.00
50		Diethylphthalate	50.000	52.811	-5.6	107	0.00
51		Fluorene	50.000	51.763	-3.5	106	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	51.863	-3.7	106	0.00
53		4-Nitroaniline	50.000	44.639	10.7	82	0.00
54		1,2-Diphenylhydrazine	50.000	51.527	-3.1	103	0.00
55	S	2,4,6-Tribromophenol	50.000	53.212	-6.4	105	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	107	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	53.481	-7.0	117	0.00
58	C	n-Nitrosodiphenylamine	50.000	49.592	0.8	104	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.503	-1.0	108	0.00
60		Hexachlorobenzene	50.000	50.239	-0.5	108	0.00
61	C	Pentachlorophenol	50.000	48.361	3.3	102	0.00
62		Phenanthrene	50.000	50.153	-0.3	108	0.00
63		Anthracene	50.000	49.909	0.2	107	0.00
64		Carbazole	50.000	42.402	15.2	93	0.00
65		Di-n-Butyl Phthalate	50.000	51.277	-2.6	109	0.00
66	C	Fluoranthene	50.000	50.730	-1.5	109	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	104	0.00
68		Benzidine	50.000	24.465	51.1#	52	0.00
69		Pyrene	50.000	52.455	-4.9	110	0.00
70	S	p-Terphenyl-d14	50.000	51.381	-2.8	108	0.00
71		Butyl Benzyl Phthalate	50.000	50.665	-1.3	104	0.00
72		Benzo[a]anthracene	50.000	49.571	0.9	104	0.00
73		3,3'-Dichlorobenzidine	50.000	43.473	13.1	99	0.00
74		Chrysene	50.000	49.753	0.5	104	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	49.702	0.6	104	0.00
76	I	Perylene-d12	40.000	40.000	0.0	103	0.01
77	C	Di-n-Octyl Phthalate	50.000	50.974	-1.9	103	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D
Acq On : 15 Jun 2001 10:23
Sample : 50ppm BNA std
Misc : 1,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	49.493	1.0	104	0.00
79		Benzo[k]fluoranthene	50.000	51.946	-3.9	106	0.00
80	C	Benzo[a]pyrene	50.000	50.466	-0.9	104	0.01
81		Indeno[1,2,3-cd]pyrene	50.000	53.194	-6.4	105	0.03
82		Dibenz[ah]anthracene	50.000	52.907	-5.8	105	0.03
83		Benzo[ghi]perylene	50.000	53.268	-6.5	105	0.03

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2		Pyridine	1.558	1.638	-5.1	100	-0.01
3		n-Nitrosodimethylamine	0.934	0.900	3.6	99	0.00
4	S	2-Fluorophenol	1.378	1.373	0.4	102	0.01
5		Aniline	0.816	0.797	2.3	100	0.00
6	S	Phenol-d5	1.688	1.670	1.1	100	0.02
7	C	Phenol	1.863	1.816	2.5	100	0.02
8		bis(2-Chloroethyl)ether	0.986	0.949	3.8	99	0.00
9		2-Chlorophenol	1.392	1.386	0.4	102	0.00
10		1,3-Dichlorobenzene	1.581	1.583	-0.1	103	0.00
11	C	1,4-Dichlorobenzene	1.666	1.654	0.7	103	0.00
12		Benzyl Alcohol	0.958	0.978	-2.1	102	0.00
13	C	1,2-Dichlorobenzene	1.523	1.523	0.0	103	0.00
14		2-Methylphenol	1.182	1.191	-0.8	104	0.01
15		bis(2-Chloroisopropyl)ether	1.903	1.818	4.5	98	0.00
16		4-Methylphenol	1.754	1.760	-0.3	102	0.01
17	P	n-Nitrosodipropylamine	1.016	1.008	0.8	101	0.00
18		Hexachloroethane	0.635	0.639	-0.6	103	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
20	S	Nitrobenzene-d5	0.419	0.414	1.2	99	0.00
21		Nitrobenzene	0.436	0.429	1.6	100	0.00
22		Isophorone	0.670	0.679	-1.3	101	0.00
23	C	2-Nitrophenol	0.208	0.216	-3.8	102	0.00
24		2,4-Dimethylphenol	0.341	0.347	-1.8	103	0.00
25		bis(2-Chloroethoxy)methane	0.433	0.424	2.1	99	0.00
26		Benzoic Acid	0.129	0.136	-5.4	98	0.02
27	C	2,4-Dichlorophenol	0.308	0.313	-1.6	103	0.00
28		1,2,4-Trichlorobenzene	0.351	0.353	-0.6	103	0.00
29		Naphthalene	1.116	1.116	0.0	103	0.00
30		4-Chloroaniline	0.438	0.447	-2.1	100	0.00
31	C	Hexachlorobutadiene	0.199	0.202	-1.5	105	0.00
32	C	4-Chloro-3-Methylphenol	0.316	0.320	-1.3	100	0.01
33		2-Methylnaphthalene	0.728	0.735	-1.0	103	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
35	P	Hexachlorocyclopentadiene	0.118	0.139	-17.8	104	0.00
36	C	2,4,6-Trichlorophenol	0.366	0.372	-1.6	100	0.00
37		2,4,5-Trichlorophenol	0.395	0.401	-1.5	101	0.00
38	S	2-Fluorobiphenyl	1.371	1.407	-2.6	104	0.00
39		2-Chloronaphthalene	1.227	1.244	-1.4	102	0.00

(#)=Out of Range
4M8852.D BNA.M Mon Jun 18 08:45:46 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.407	0.400	1.7	100	0.00
41		Dimethylphthalate	1.315	1.368	-4.0	104	0.00
42		Acenaphthylene	1.799	1.818	-1.1	103	0.00
43		2,6-Dinitrotoluene	0.302	0.317	-5.0	103	0.00
44		3-Nitroaniline	0.317	0.316	0.3	96	0.00
45	C	Acenaphthene	1.197	1.196	0.1	101	0.00
46	P	2,4-Dinitrophenol	0.110	0.129	-17.3	111	0.00
47	P	4-Nitrophenol	0.251	0.240	4.4	99	0.02
48		Dibenzofuran	1.698	1.698	0.0	105	0.00
49		2,4-Dinitrotoluene	0.407	0.436	-7.1	105	0.00
50		Diethylphthalate	1.302	1.375	-5.6	107	0.00
51		Fluorene	1.349	1.397	-3.6	106	0.00
52		4-Chlorophenyl Phenyl Ether	0.677	0.702	-3.7	106	0.00
53		4-Nitroaniline	0.298	0.266	10.7	82	0.00
54		1,2-Diphenylhydrazine	1.468	1.513	-3.1	103	0.00
55	S	2,4,6-Tribromophenol	0.157	0.167	-6.4	105	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
57		4,6-Dinitro-2-Methylphenol	0.148	0.158	-6.8	117	0.00
58	C	n-Nitrosodiphenylamine	0.622	0.617	0.8	104	0.00
59		4-Bromophenyl Phenyl Ether	0.232	0.234	-0.9	108	0.00
60		Hexachlorobenzene	0.240	0.241	-0.4	108	0.00
61	C	Pentachlorophenol	0.093	0.095	-2.2	102	0.00
62		Phenanthrene	1.262	1.266	-0.3	108	0.00
63		Anthracene	1.268	1.266	0.2	107	0.00
64		Carbazole	1.020	0.865	15.2	93	0.00
65		Di-n-Butyl Phthalate	1.426	1.463	-2.6	109	0.00
66	C	Fluoranthene	1.446	1.467	-1.5	109	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	104	0.00
68		Benzidine	0.147	0.072	51.0#	52	0.00
69		Pyrene	1.394	1.463	-4.9	110	0.00
70	S	p-Terphenyl-d14	0.969	0.996	-2.8	108	0.00
71		Butyl Benzyl Phthalate	0.625	0.633	-1.3	104	0.00
72		Benzo[a]anthracene	1.333	1.322	0.8	104	0.00
73		3,3'-Dichlorobenzidine	0.376	0.327	13.0	99	0.00
74		Chrysene	1.325	1.318	0.5	104	0.00
75		bis(2-Ethylhexyl)phthalate	0.837	0.832	0.6	104	0.00
76	I	Perylene-d12	1.000	1.000	0.0	103	0.01
77	C	Di-n-Octyl Phthalate	1.958	1.996	-1.9	103	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.680	1.663	1.0	104	0.00
79		Benzo[k]fluoranthene	1.715	1.781	-3.8	106	0.00
80	C	Benzo[a]pyrene	1.553	1.568	-1.0	104	0.01
81		Indeno[1,2,3-cd]pyrene	1.557	1.657	-6.4	105	0.03
82		Dibenz[ah]anthracene	0.965	1.021	-5.8	105	0.03
83		Benzo[ghi]perylene	1.279	1.362	-6.5	105	0.03

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:45 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Fri Jun 15 07:17:34 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	348312	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1307248	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	703284	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1201654	40.00	ug/ml	0.00
67) Chrysene-d12	15.84	240	1262815	40.00	ug/ml	0.00
76) Perylene-d12	18.15	264	897053	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.07	112	597722	49.81	ug/ml	0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 49.81%			
6) Phenol-d5	8.02	99	727029	49.46	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 49.46%			
20) Nitrobenzene-d5	8.98	82	676456	49.46	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 98.92%			
38) 2-Fluorobiphenyl	10.78	172	1236658	51.30	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 102.60%			
55) 2,4,6-Tribromophenol	12.33	330	147161	53.21	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 53.21%			
70) p-Terphenyl-d14	14.64	244	1572571	51.38	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 102.76%			
Target Compounds						Qvalue
2) Pyridine	5.35	79	713190	52.57	ug/ml	99
3) n-Nitrosodimethylamine	5.35	74	391718	48.18	ug/ml	98
5) Aniline	8.08	66	346931	48.80	ug/ml	99
7) Phenol	8.03	94	790705	48.73	ug/ml	99
8) bis(2-Chloroethyl)ether	8.11	63	413380	48.16	ug/ml	99
9) 2-Chlorophenol	8.21	128	603587	49.80	ug/ml	100
10) 1,3-Dichlorobenzene	8.35	146	689316	50.07	ug/ml	100
11) 1,4-Dichlorobenzene	8.42	146	720273	49.65	ug/ml	99
12) Benzyl Alcohol	8.54	108	425911	51.03	ug/ml	99
13) 1,2-Dichlorobenzene	8.59	146	663110	50.01	ug/ml	100
14) 2-Methylphenol	8.64	107	518624	50.40	ug/ml#	87
15) bis(2-Chloroisopropyl)ethe	8.64	45	791529	47.77	ug/ml#	85
16) 4-Methylphenol	8.78	107	766365	50.17	ug/ml	99
17) n-Nitrosodipropylamine	8.79	70	438815	49.58	ug/ml	98
18) Hexachloroethane	8.93	117	278278	50.30	ug/ml	99
21) Nitrobenzene	9.00	77	701508	49.24	ug/ml	100
22) Isophorone	9.22	82	1108997	50.68	ug/ml	100
23) 2-Nitrophenol	9.32	139	352360	51.78	ug/ml	99
24) 2,4-Dimethylphenol	9.32	122	567201	50.96	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.41	93	692714	48.90	ug/ml	99

(#) = qualifier out of range (m) = manual integration
4M8852.D BNA.M Mon Jun 18 08:46:06 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\061501\4M8852.D Vial: 2
Acq On : 15 Jun 2001 10:23 Operator: mdc
Sample : 50ppm BNA std Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:45 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Fri Jun 15 07:17:34 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.40	122	222267	52.63	ug/ml	97
27) 2,4-Dichlorophenol	9.56	162	512231	50.88	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.64	180	577280	50.29	ug/ml	99
29) Naphthalene	9.74	128	1823479	50.00	ug/ml	100
30) 4-Chloroaniline	9.78	127	730968	51.11	ug/ml	100
31) Hexachlorobutadiene	9.83	225	329632	50.64	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.24	107	522933	50.65	ug/ml	99
33) 2-Methylnaphthalene	10.43	142	1200658	50.43	ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	122160	49.97	ug/ml	100
36) 2,4,6-Trichlorophenol	10.72	196	327339	50.81	ug/ml	99
37) 2,4,5-Trichlorophenol	10.76	196	352500	50.76	ug/ml	100
39) 2-Chloronaphthalene	10.94	162	1093203	50.69	ug/ml	99
40) 2-Nitroaniline	11.05	65	351654	49.17	ug/ml	97
41) Dimethylphthalate	11.18	163	1202177	51.99	ug/ml	100
42) Acenaphthylene	11.38	152	1598073	50.53	ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	278912	52.53	ug/ml	99
44) 3-Nitroaniline	11.47	138	277664	49.75	ug/ml	99
45) Acenaphthene	11.55	154	1051156	49.96	ug/ml	99
46) 2,4-Dinitrophenol	11.58	184	113068	53.93	ug/ml#	79
47) 4-Nitrophenol	11.61	65	210831	47.86	ug/ml	98
48) Dibenzofuran	11.72	168	1492845	49.99	ug/ml	99
49) 2,4-Dinitrotoluene	11.70	165	383717	53.60	ug/ml#	90
50) Diethylphthalate	11.89	149	1209044	52.81	ug/ml	100
51) Fluorene	12.08	166	1227955	51.76	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	617244	51.86	ug/ml	99
53) 4-Nitroaniline	12.11	138	234065	44.64	ug/ml	95
54) 1,2-Diphenylhydrazine	12.20	77	1330378	51.53	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.12	198	237175	53.48	ug/ml	96
58) n-Nitrosodiphenylamine	12.16	169	926238	49.59	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.54	248	351401	50.50	ug/ml	98
60) Hexachlorobenzene	12.66	284	362234	50.24	ug/ml	100
61) Pentachlorophenol	12.86	266	142043	48.36	ug/ml	97
62) Phenanthrene	13.08	178	1901887	50.15	ug/ml	100
63) Anthracene	13.13	178	1901367	49.91	ug/ml	100
64) Carbazole	13.28	167	1298806	42.40	ug/ml	99
65) Di-n-Butyl Phthalate	13.53	149	2196964	51.28	ug/ml	100
66) Fluoranthene	14.31	202	2203572	50.73	ug/ml	99
68) Benzidine	14.41	184	113598	24.46	ug/ml	100
69) Pyrene	14.56	202	2309102	52.46	ug/ml	100
71) Butyl Benzyl Phthalate	15.09	149	999669	50.66	ug/ml	99
72) Benzo[a]anthracene	15.82	228	2086284	49.57	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D
Acq On : 15 Jun 2001 10:23
Sample : 50ppm BNA std
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:45 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Fri Jun 15 07:17:34 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.75	252	515569	43.47	ug/ml	98
74) Chrysene	15.87	228	2080617	49.75	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.63	149	1312994	49.70	ug/ml	100
77) Di-n-Octyl Phthalate	16.44	149	2237892	50.97	ug/ml	99
78) Benzo[b]fluoranthene	17.40	252	1864842	49.49	ug/ml	99
79) Benzo[k]fluoranthene	17.45	252	1997448	51.95	ug/ml	99
80) Benzo[a]pyrene	18.04	252	1757756	50.47	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.75	276	1857666	53.19	ug/ml	98
82) Dibenz[ah]anthracene	20.75	278	1145010	52.91	ug/ml	99
83) Benzo[ghi]perylene	21.58	276	1527551	53.27	ug/ml	98

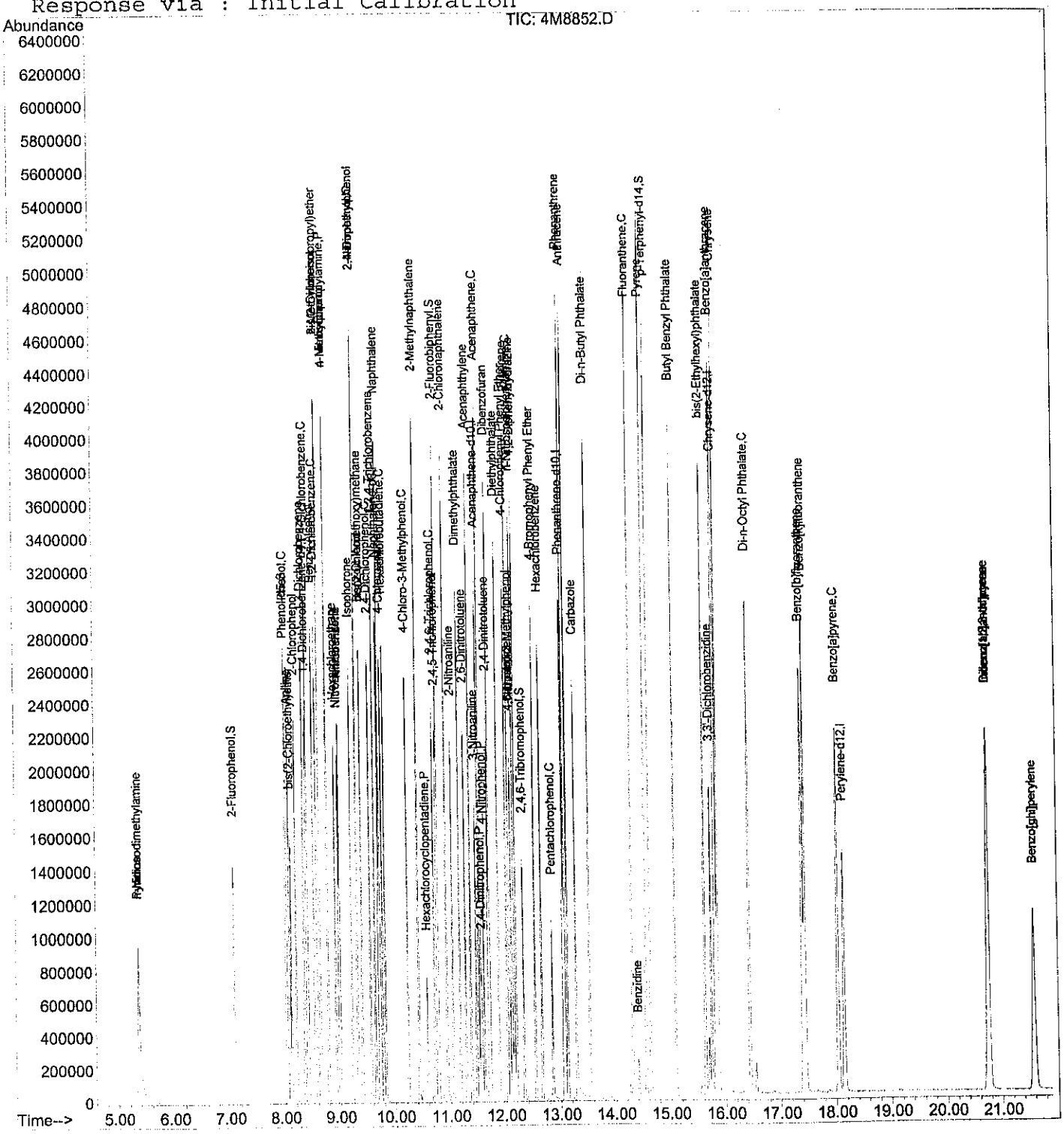
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061501\4M8852.D
Acq On : 15 Jun 2001 10:23
Sample : 50ppm BNA std
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 15 10:45 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

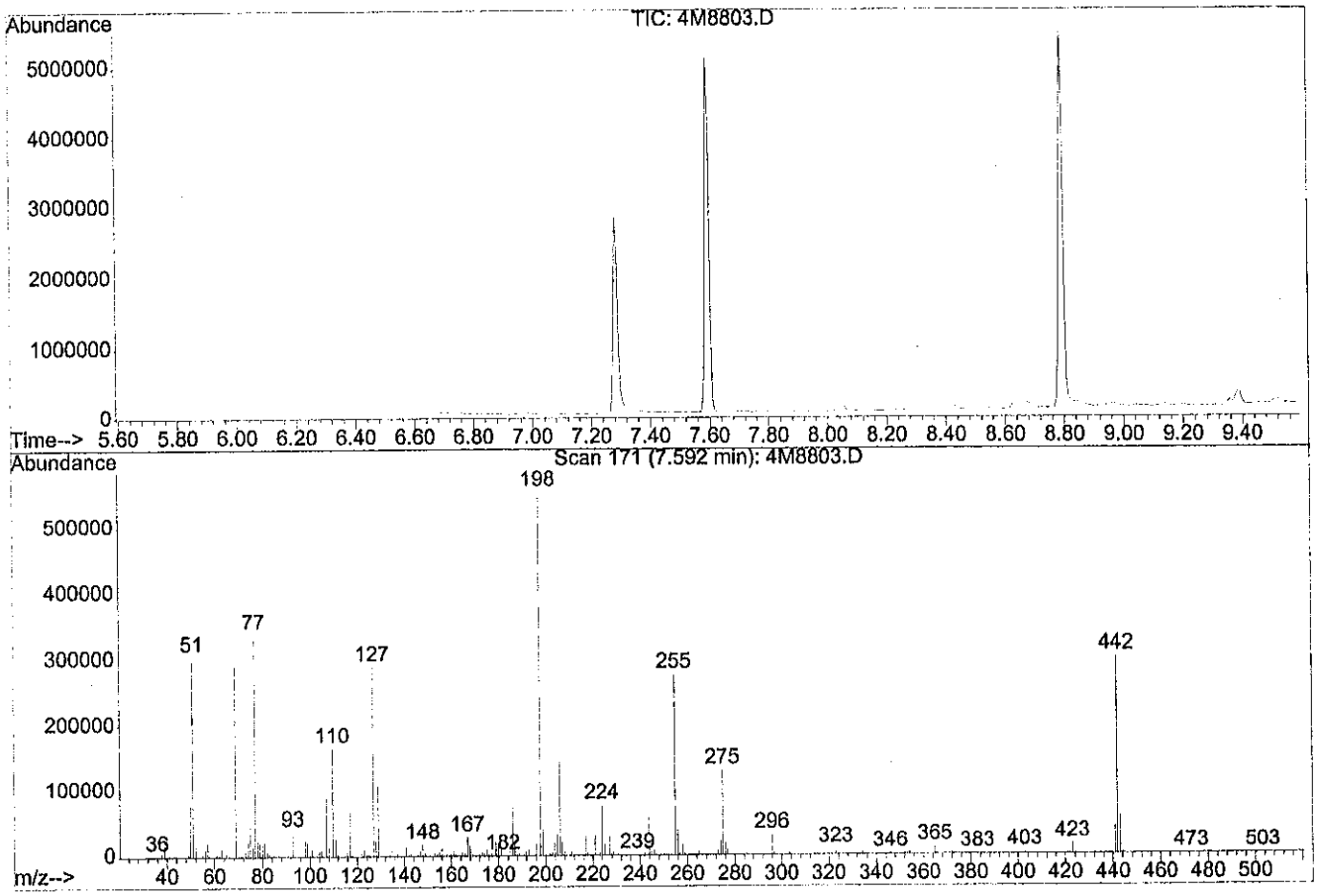
Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Mon Jun 18 08:45:21 2001
Response via : Initial Calibration



2.2.1.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\061201\4M8803.D
Acq On : 12 Jun 2001 16:12
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Scan 171

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.7	305088	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.7	299456	PASS
70	69	0.00	2	1.0	2864	PASS
127	198	40	60	51.7	288640	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	557952	PASS
199	198	5	9	7.3	40880	PASS
275	198	10	30	23.1	128968	PASS
365	198	1	100	2.2	12196	PASS
441	443	0.01	100	73.9	43544	PASS
442	198	40	100	53.9	300800	PASS
443	442	17	23	19.6	58936	PASS

4M8803.D DFTPP.M Wed Jun 13 08:52:44 2001 HPMS4

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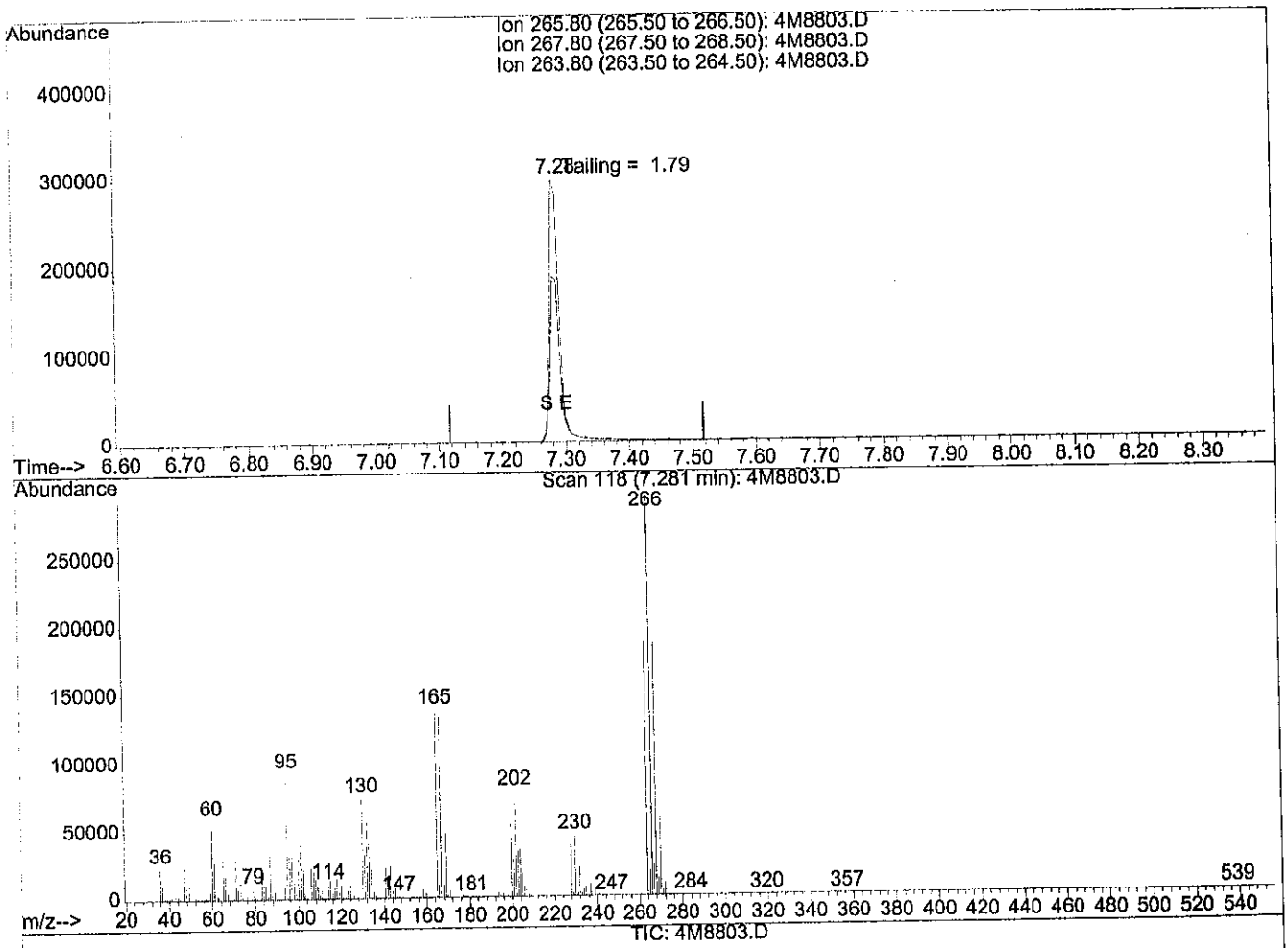
Data File : C:\HPCHEM\1\DATA\061201\4M8803.D
Acq On : 12 Jun 2001 16:12
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: Jun 13 8:52 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.28min 0.00

response 341568

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	64.88
263.80	63.20	63.98
0.00	0.00	0.00

4M8803.D DFTPP.M Wed Jun 13 08:52:54 2001 HPMS4

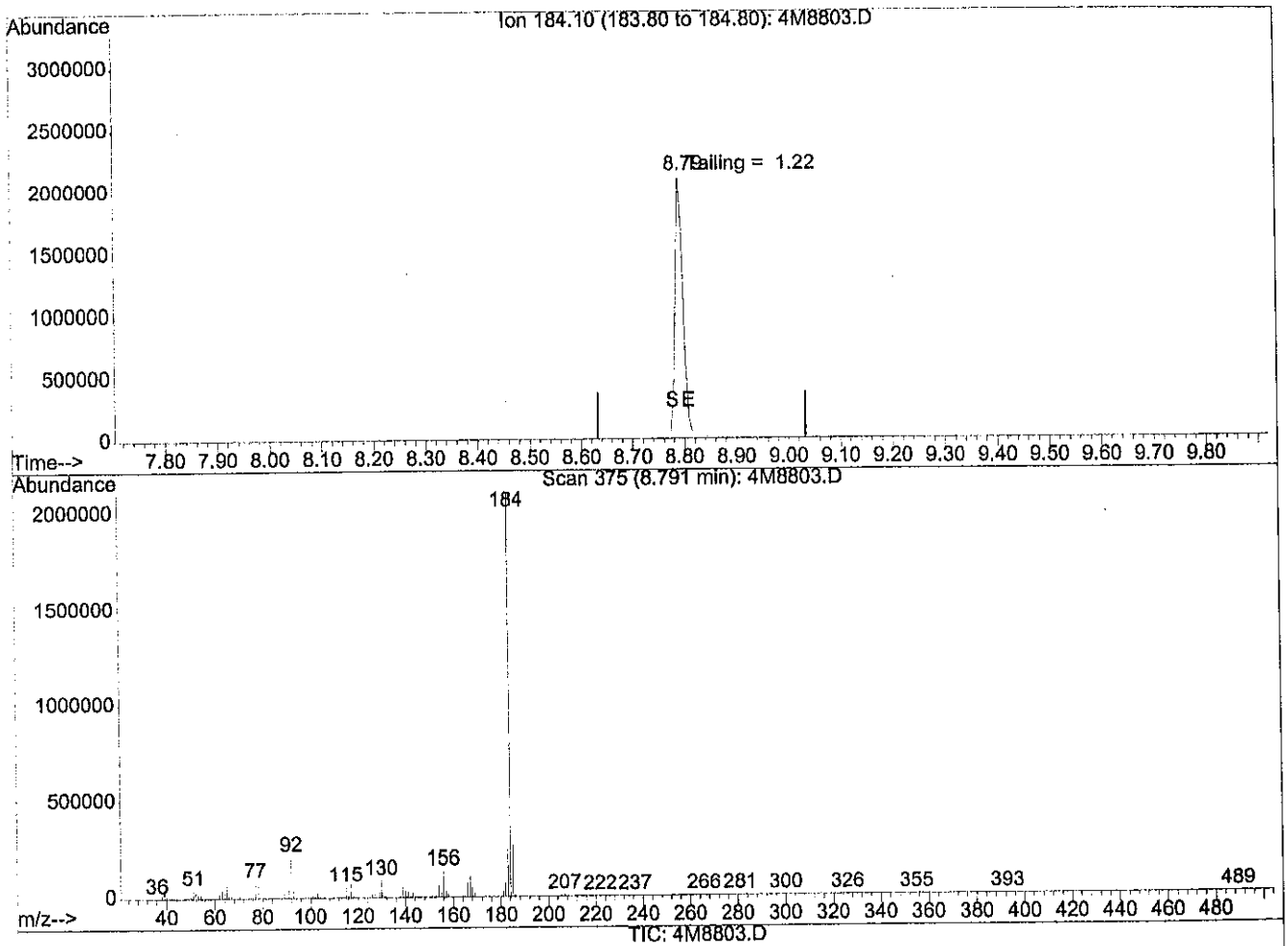
288

Data File : C:\HPCHEM\1\DATA\061201\4M8803.D
Acq On : 12 Jun 2001 16:12
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: Jun 13 8:52 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

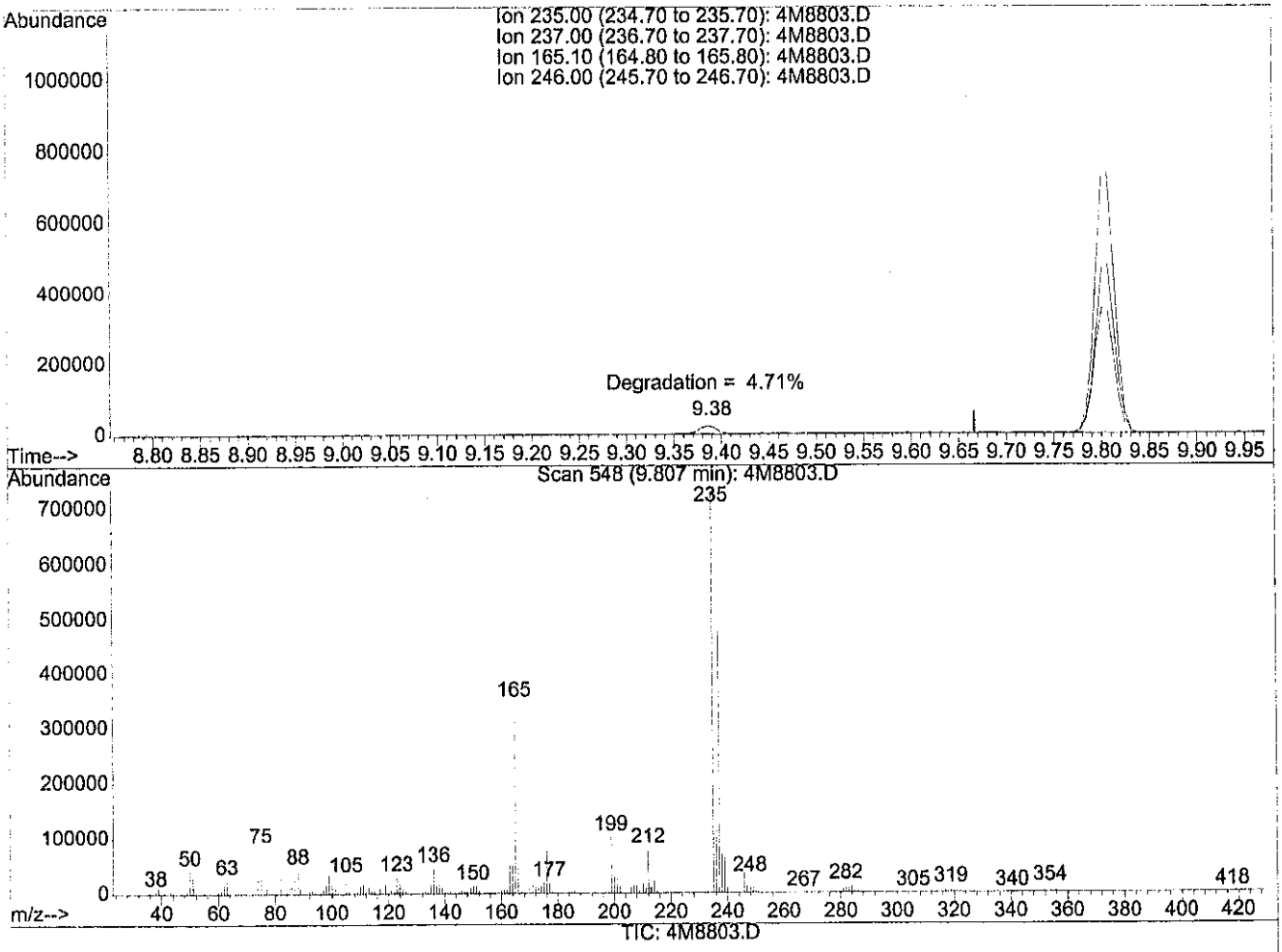
8.79min 0.00

response 2287349

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\061201\4M8803.D Vial: 5
Acq On : 12 Jun 2001 16:12 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 8:52 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.81min 0.00

response 1059321

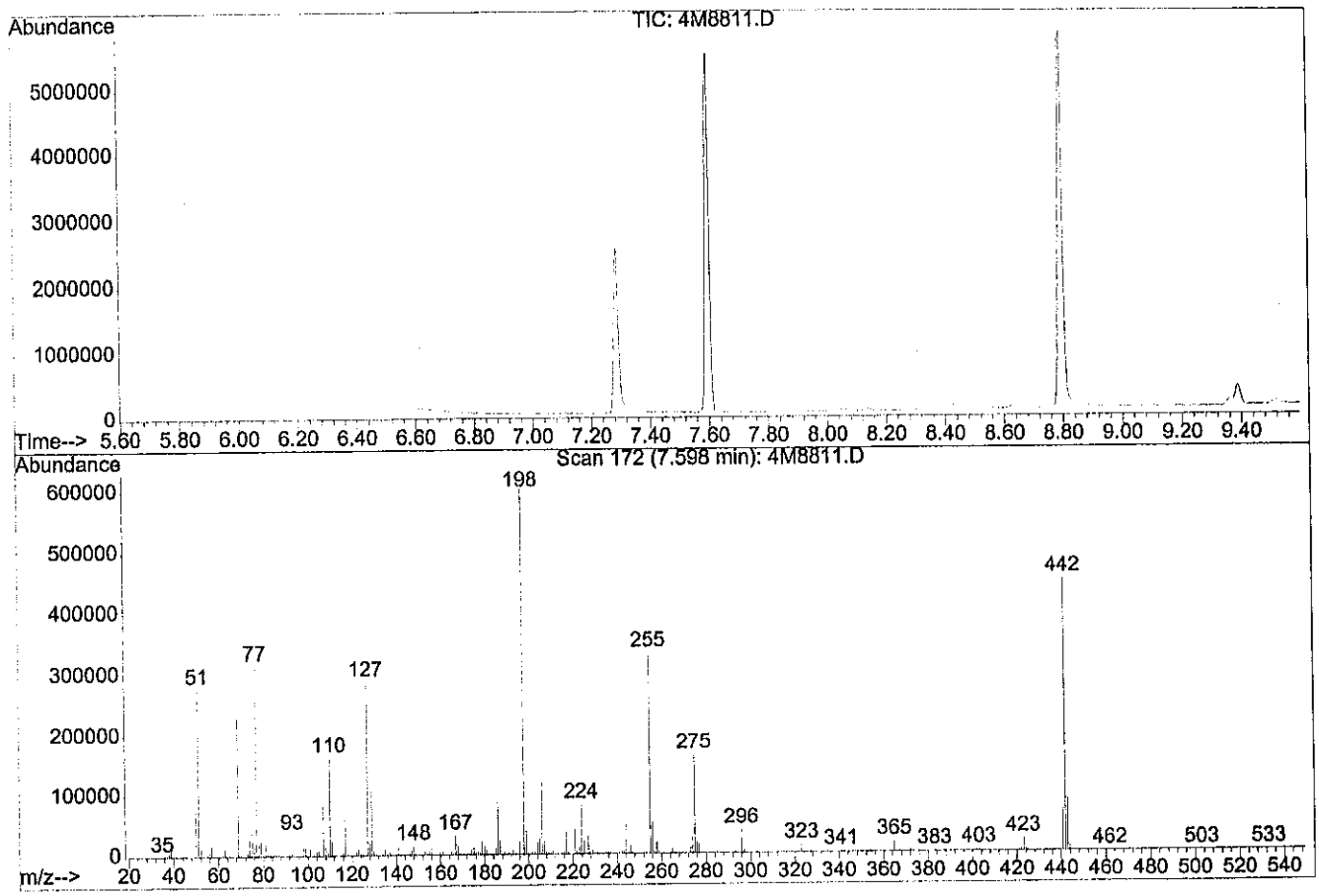
Ion	Exp%	Act%
235.00	100	100
237.00	64.40	65.00
165.10	45.40	49.24
246.00	6.10	5.89

4M8803.D DFTPP.M Wed Jun 13 08:53:08 2001 HPMS4

290

Data File : C:\HPCHEM\1\DATA\061301\4M8811.D
Acq On : 13 Jun 2001 7:43
Sample : 50ppm DFTPP
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	277568	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.5	273920	PASS
70	69	0.00	2	0.6	1613	PASS
127	198	40	60	47.9	288192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	601792	PASS
199	198	5	9	6.8	40736	PASS
275	198	10	30	27.4	164736	PASS
365	198	1	100	3.0	18056	PASS
441	443	0.01	100	78.6	70952	PASS
442	198	40	100	74.7	449536	PASS
443	442	17	23	20.1	90240	PASS

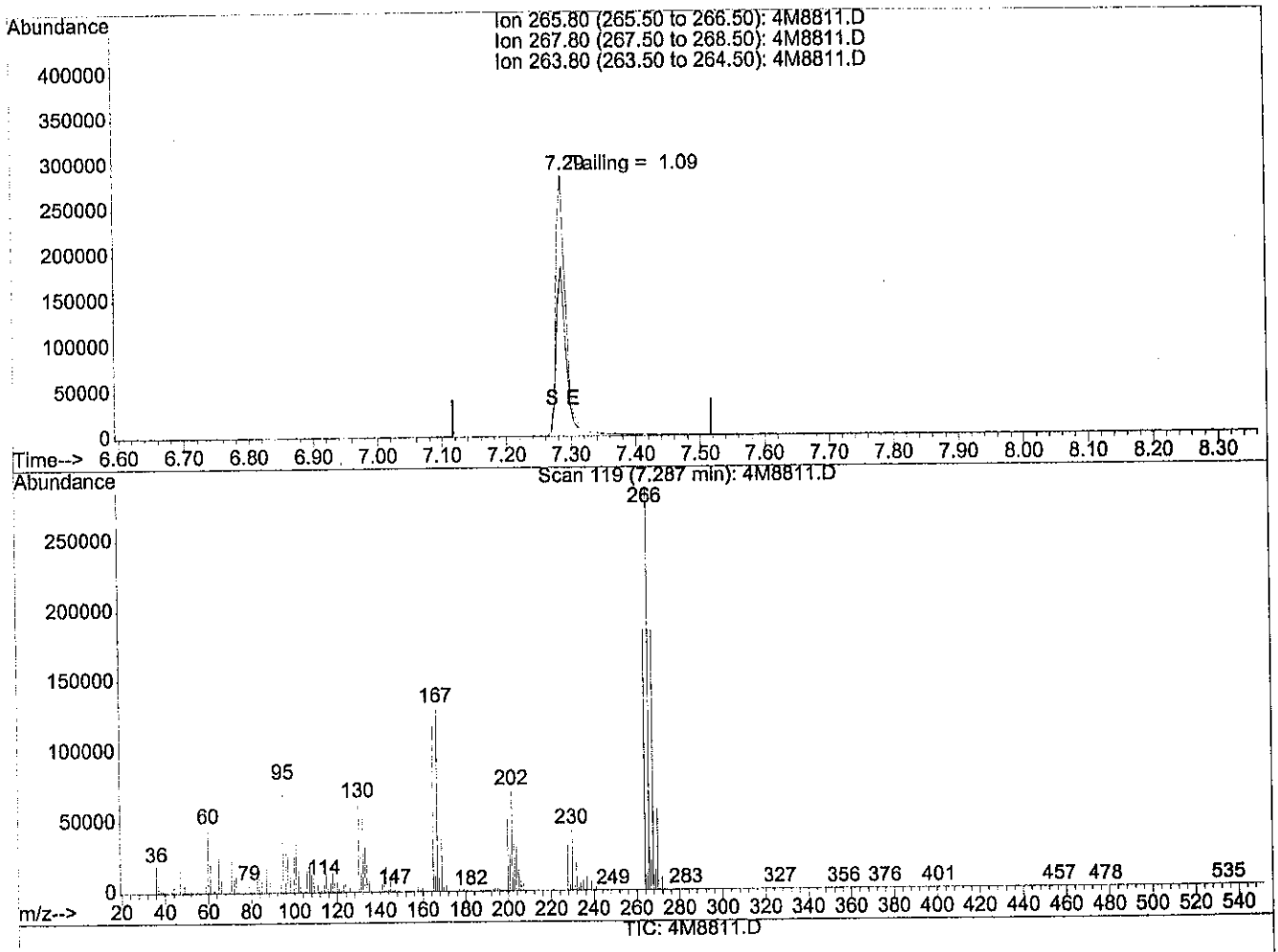
4M8811.D DFTPP.M Wed Jun 13 09:06:56 2001 HPMS4

291

Data File : C:\HPCHEM\1\DATA\061301\4M8811.D
Acq On : 13 Jun 2001 7:43
Sample : 50ppm DFTPP
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 9:06 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.29min 0.00

response 313873

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	63.59
263.80	63.20	64.73
0.00	0.00	0.00

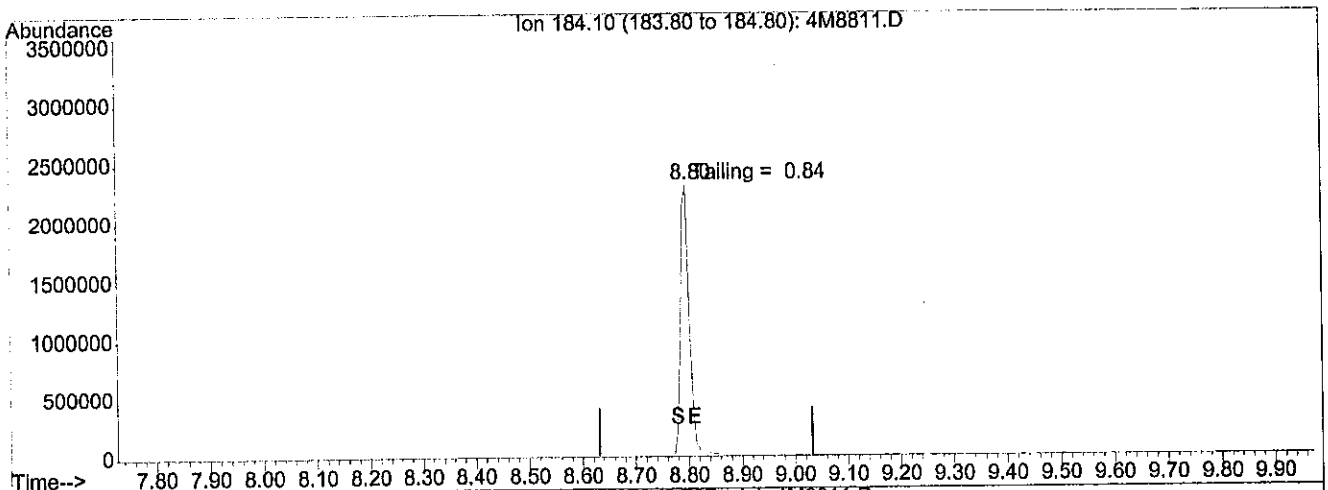
4M8811.D DFTPP.M Wed Jun 13 09:07:05 2001 HPMS4

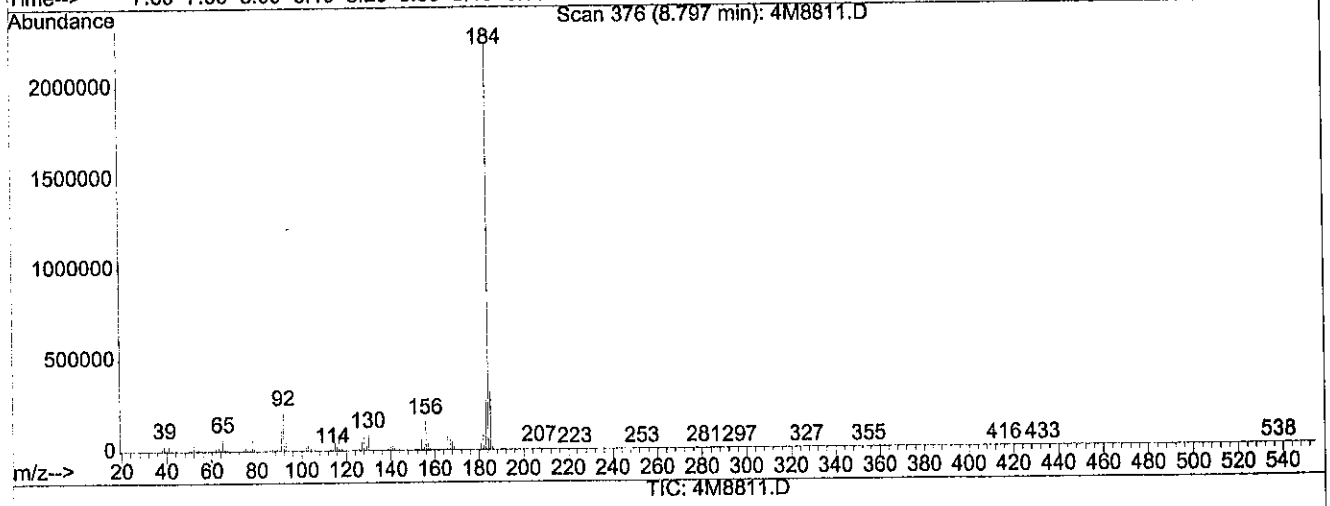
292

Data File : C:\HPCHEM\1\DATA\061301\4M8811.D
Acq On : 13 Jun 2001 7:43
Sample : 50ppm DFTPP
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 9:06 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration





(2) BENZIDINE

8.80min 0.00

response 2704536

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

4M8811.D DFTPP.M Wed Jun 13 09:07:11 2001 HPMS4

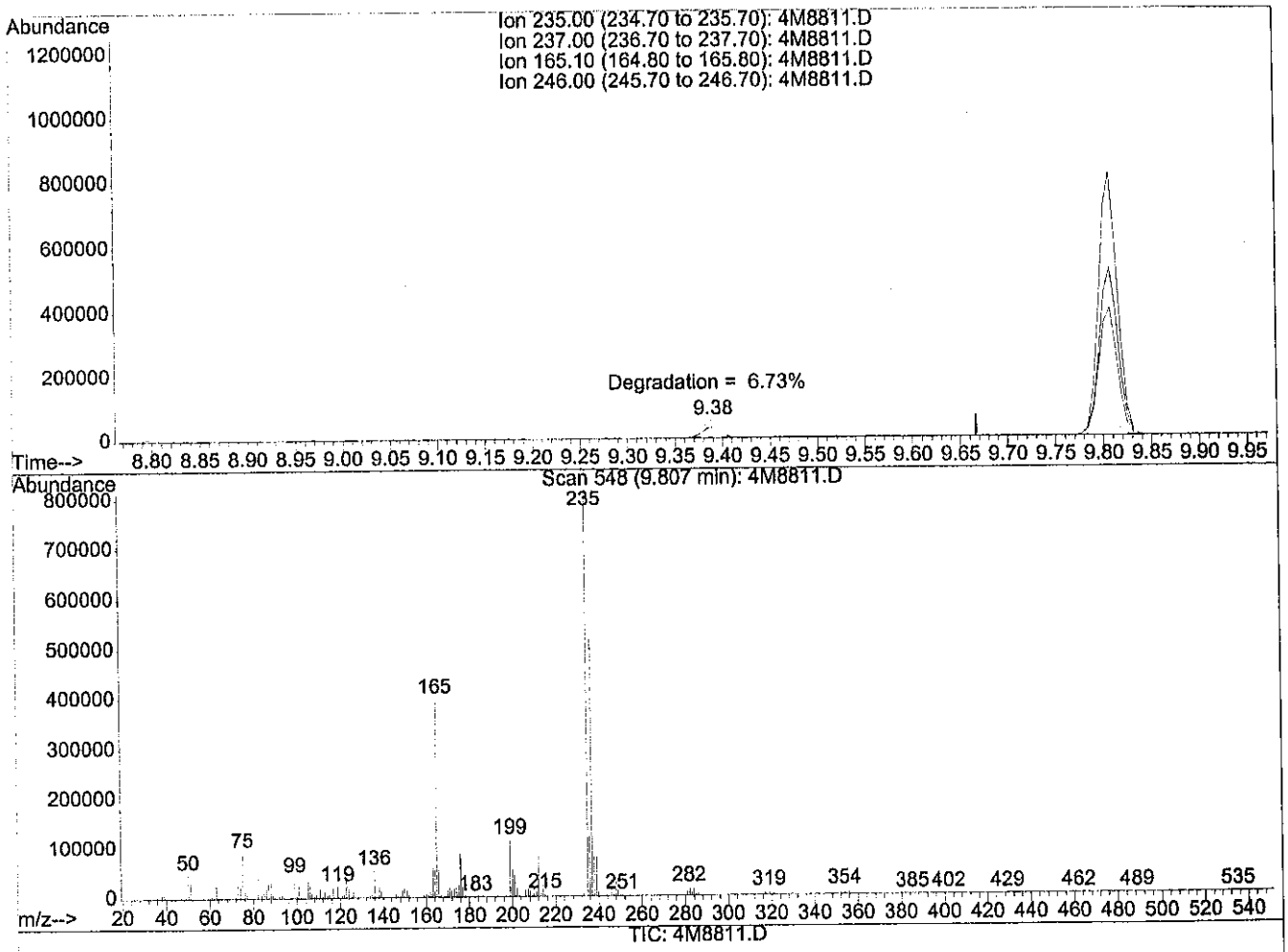
293

Data File : C:\HPCHEM\1\DATA\061301\4M8811.D
Acq On : 13 Jun 2001 7:43
Sample : 50ppm DFTPP
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 13 9:06 2001

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.81min 0.00

response 1101973

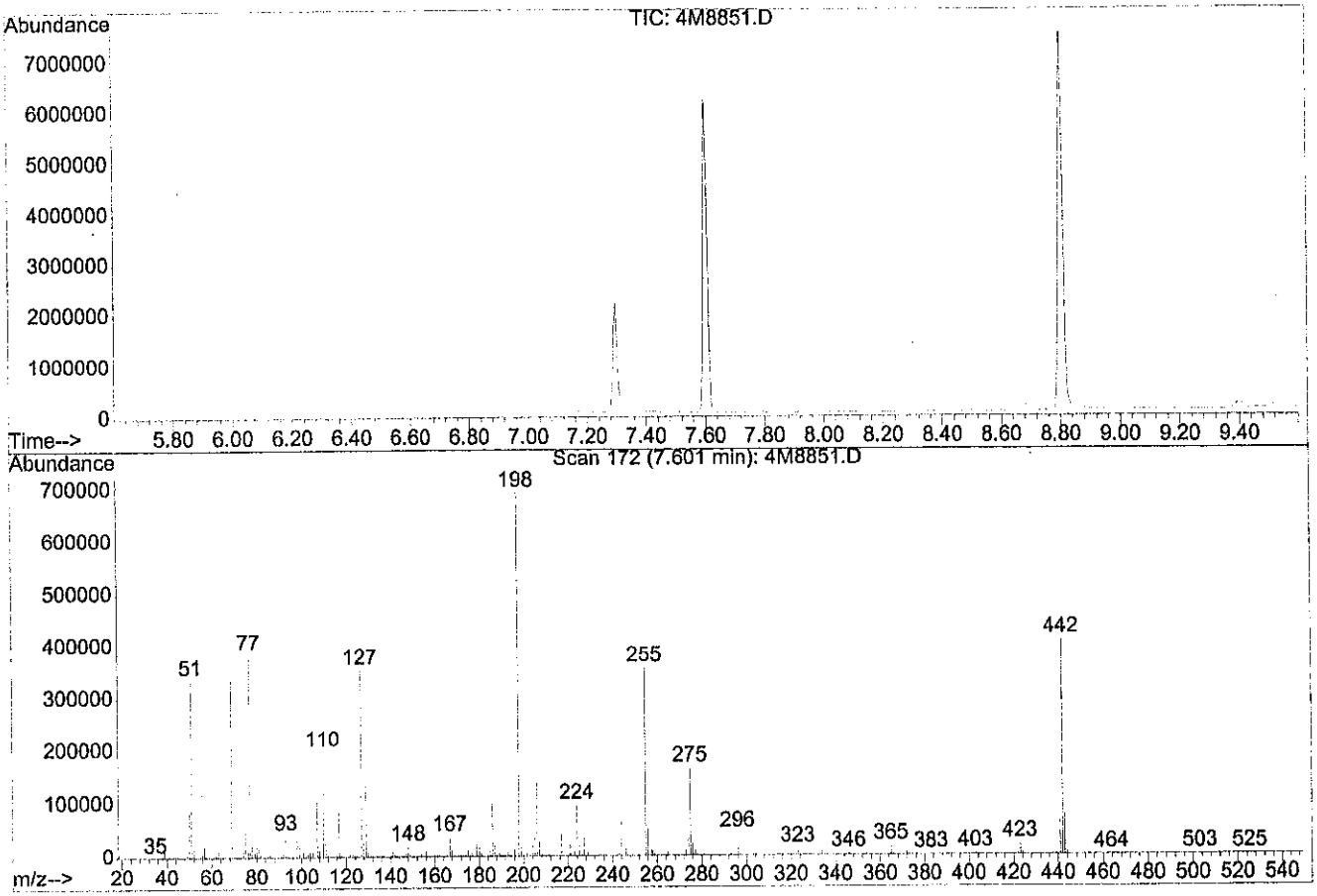
Ion	Exp%	Act%
235.00	100	100
237.00	64.40	64.55
165.10	45.40	49.29
246.00	6.10	5.87

4M8811.D DFTPP.M Wed Jun 13 09:07:17 2001 HPMS4

294

Data File : C:\HPCHEM\1\DATA\061501\4M8851.D
Acq On : 15 Jun 2001 10:05
Sample : 50ppm DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.2	336768	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.2	336768	PASS
70	69	0.00	2	0.7	2224	PASS
127	198	40	60	50.9	355328	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	697984	PASS
199	198	5	9	7.0	48800	PASS
275	198	10	30	23.6	164672	PASS
365	198	1	100	2.4	16920	PASS
441	443	0.01	100	84.1	63840	PASS
442	198	40	100	58.4	407616	PASS
443	442	17	23	18.6	75928	PASS

4M8851.D DFTPP.M Mon Jun 18 08:44:16 2001 HPMS4

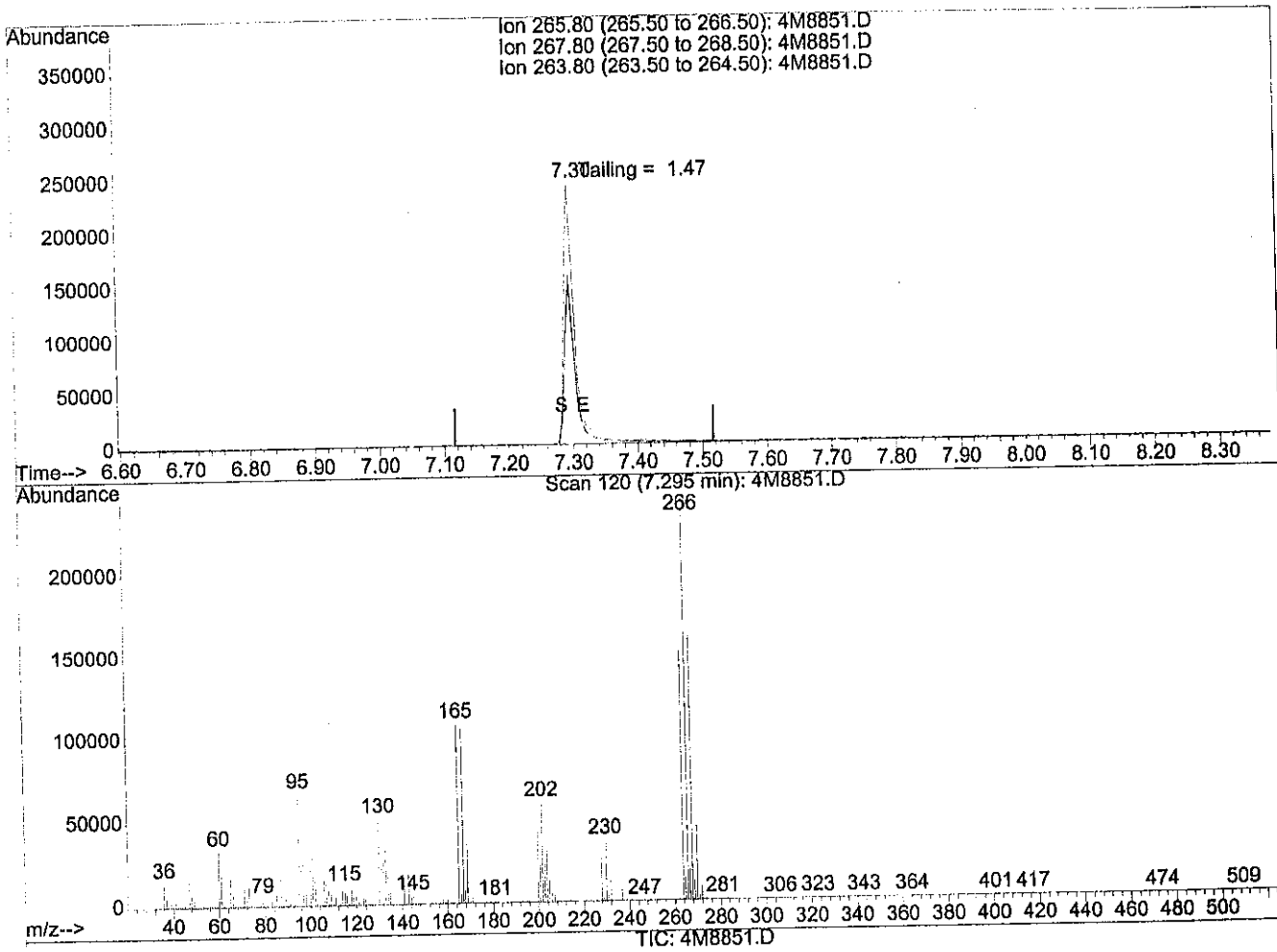
295

Data File : C:\HPCHEM\1\DATA\061501\4M8851.D
Acq On : 15 Jun 2001 10:05
Sample : 50ppm DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: Jun 15 10:20 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.30min 0.00

response 276872

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	63.43
263.80	63.20	62.21
0.00	0.00	0.00

4M8851.D DFTPP.M Mon Jun 18 08:44:24 2001 HPMS4

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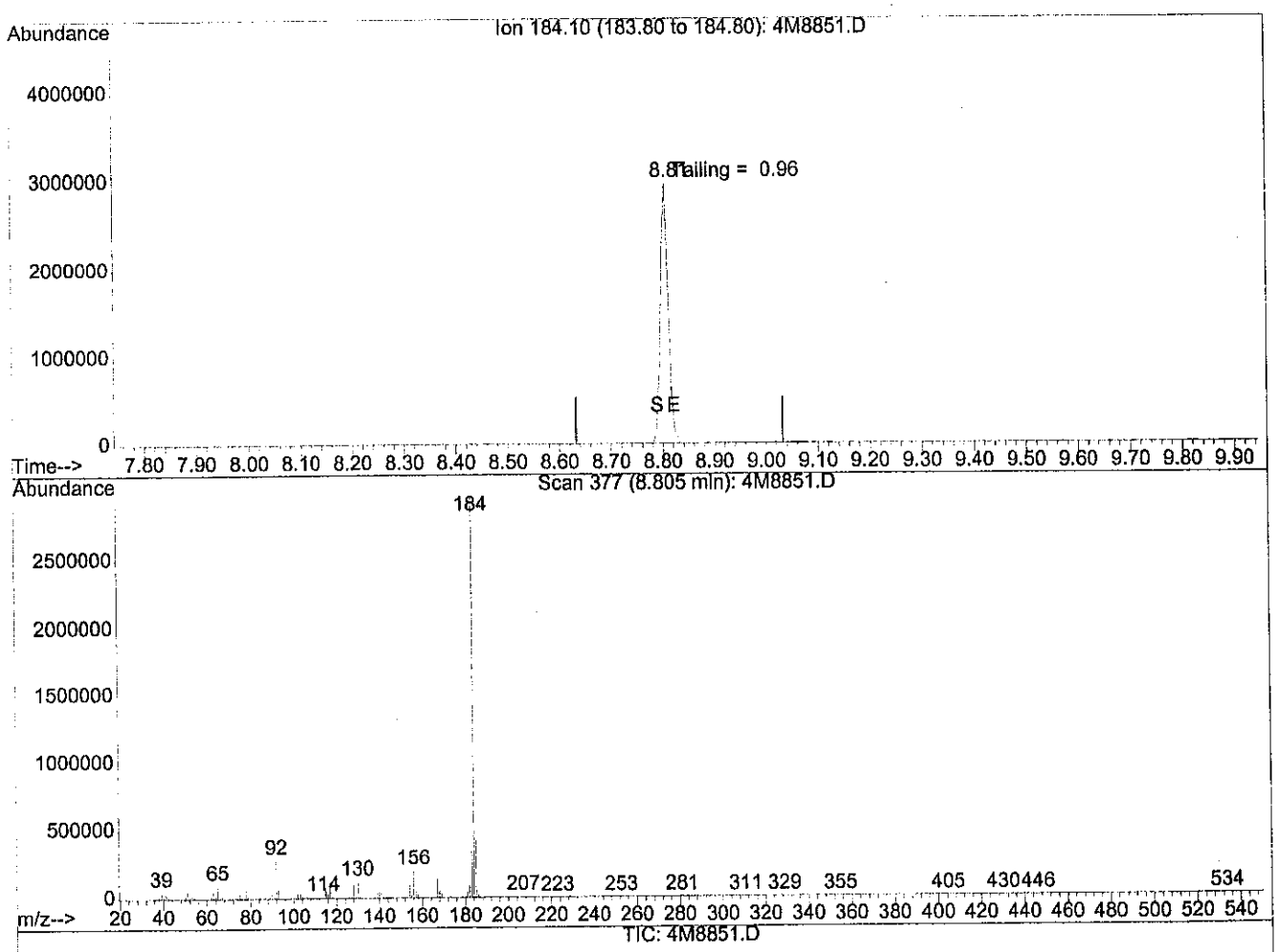
Data File : C:\HPCHEM\1\DATA\061501\4M8851.D
Acq On : 15 Jun 2001 10:05
Sample : 50ppm DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: Jun 15 10:20 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

8.81min 0.00

response 3241444

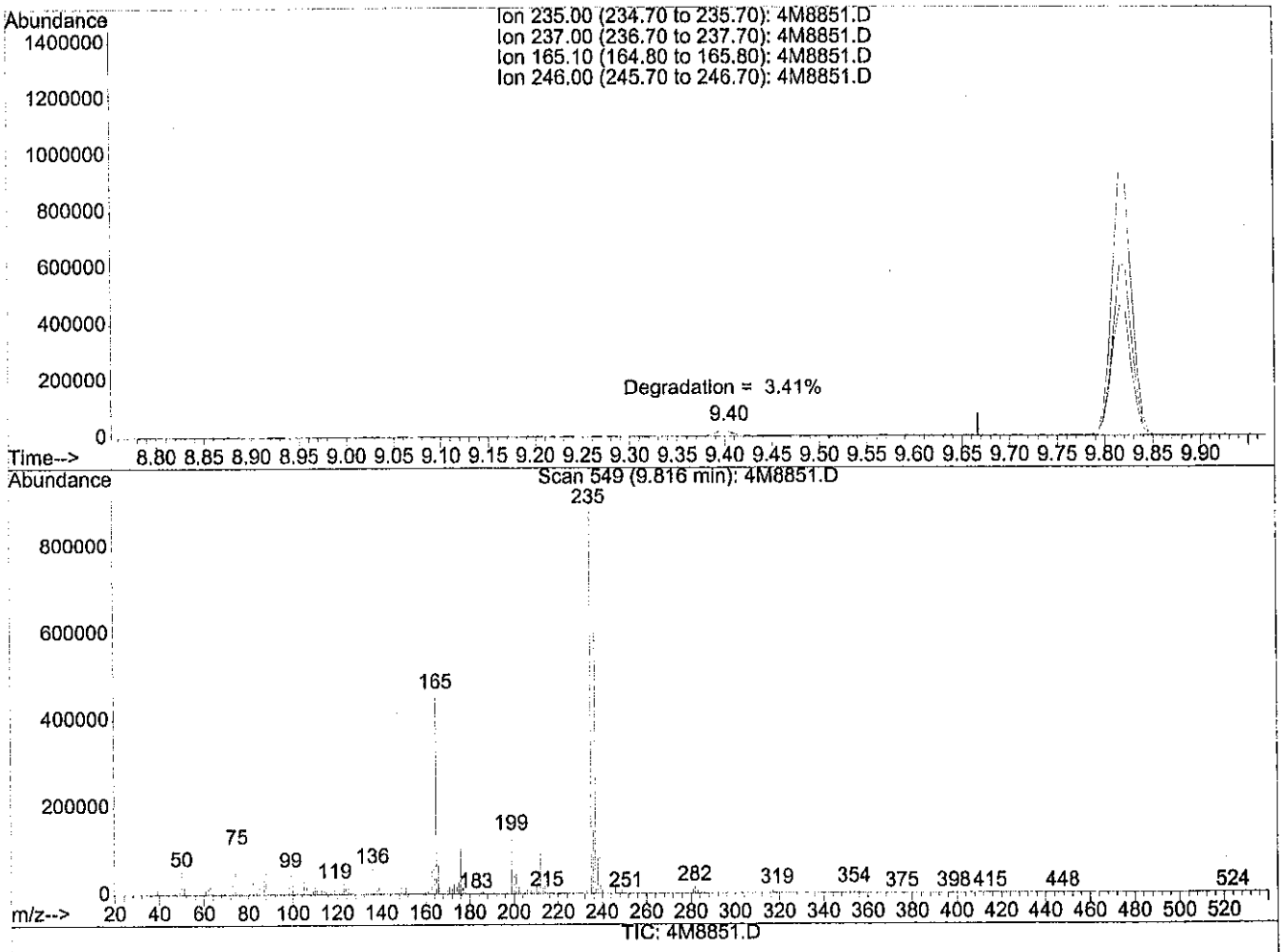
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

4M8851.D DFTPP.M Mon Jun 18 08:44:30 2001 HPMS4

297

Data File : C:\HPCHEM\1\DATA\061501\4M8851.D Vial: 1
Acq On : 15 Jun 2001 10:05 Operator: mdc
Sample : 50ppm DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 15 10:20 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.82min 0.00

response 1333626

Ion	Exp%	Act%
235.00	100	100
237.00	64.40	64.29
165.10	45.40	49.24
246.00	6.10	5.73

4M8851.D DFTPP.M Mon Jun 18 08:44:36 2001 HPMS4

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Data File : C:\HPCHEM\1\DATA\061301\4M8823.D Vial: 13
Acq On : 13 Jun 2001 13:51 Operator: mdc
Sample : WG99181-02 BLK 6/12 V165P53 Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	347058	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1312454	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	722048	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1100210	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1186700	40.00	ug/ml	0.00
76) Perylene-d12	18.12	264	911334	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	301341	25.20	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 25.20%			
6) Phenol-d5	8.00	99	274770	18.76	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 18.76%			
20) Nitrobenzene-d5	8.98	82	320528	23.34	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 46.68%			
38) 2-Fluorobiphenyl	10.78	172	564168	22.79	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 45.58%			
55) 2,4,6-Tribromophenol	12.33	330	139284	49.06	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 49.06%			
70) p-Terphenyl-d14	14.63	244	1179061	40.99	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 81.98%			

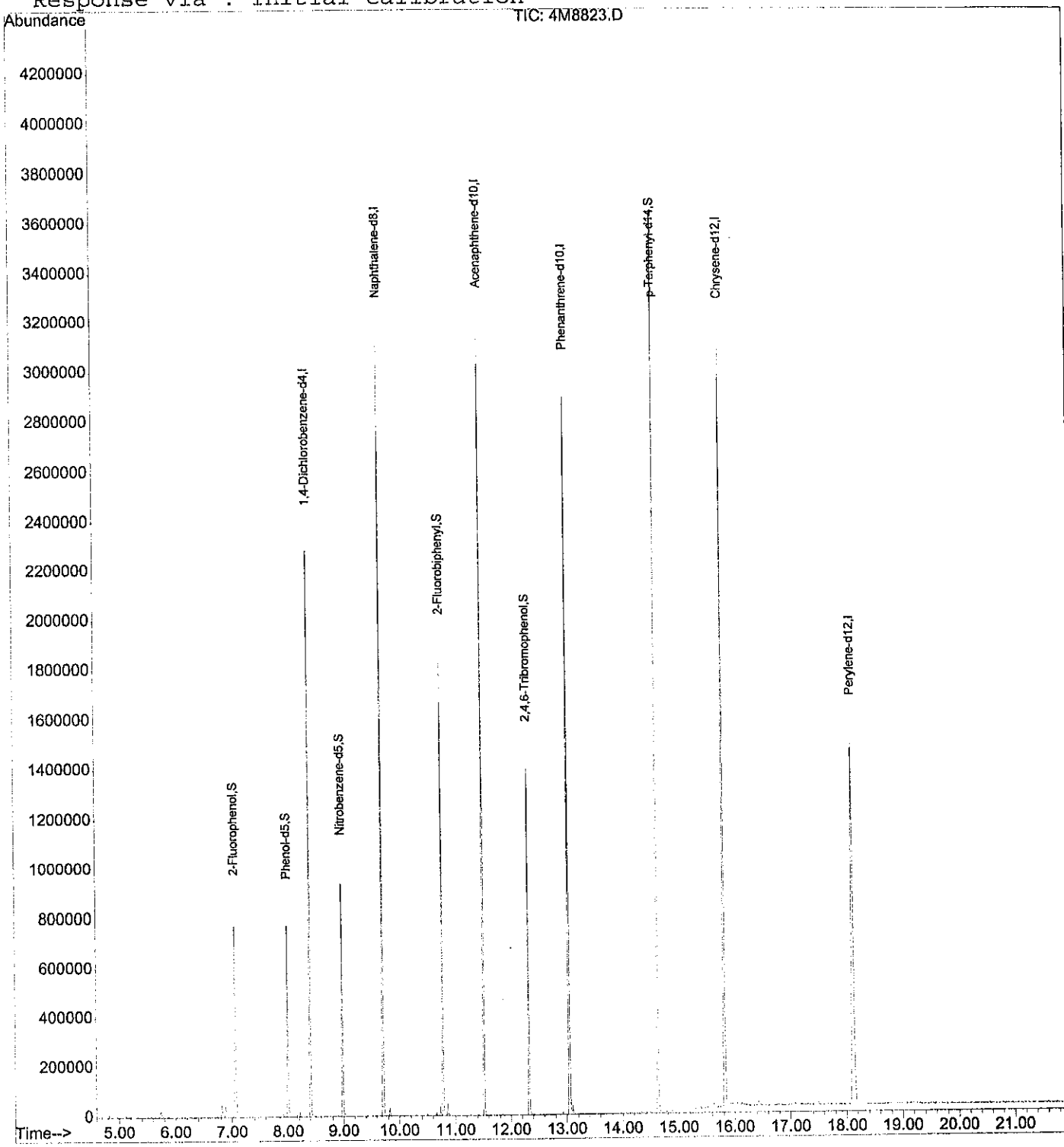
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
4M8823.D BNA.M Thu Jun 14 07:48:18 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\061301\4M8823.D
Acq On : 13 Jun 2001 13:51
Sample : WG99181-02 BLK 6/12 V165P53
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001

Vial: 13
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\061301\4M8824.D
Acq On : 13 Jun 2001 14:23
Sample : WG99181-03 LCS 6/12 V165P53
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001

Vial: 14
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	344711	40.00	ug/ml	0.00
19) Naphthalene-d8	9.71	136	1314317	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.52	164	727402	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.05	188	1173592	40.00	ug/ml	0.00
67) Chrysene-d12	15.83	240	1263393	40.00	ug/ml	0.00
76) Perylene-d12	18.12	264	898096	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.06	112	346709	29.19	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 29.19%			
6) Phenol-d5	8.00	99	320564	22.04	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 22.04%			
20) Nitrobenzene-d5	8.98	82	358396	26.06	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 52.12%			
38) 2-Fluorobiphenyl	10.78	172	706891	28.35	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 56.70%			
55) 2,4,6-Tribromophenol	12.33	330	243582	85.16	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 85.16%			
70) p-Terphenyl-d14	14.63	244	1394660	45.55	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 91.10%			
Target Compounds						Qvalue
2) Pyridine	5.38	79	154534	11.51	ug/ml	93
3) n-Nitrosodimethylamine	5.35	74	135635	16.86	ug/ml	91
5) Aniline	8.08	66	152196	21.63	ug/ml	95
7) Phenol	8.01	94	177109	11.03	ug/ml#	89
8) bis(2-Chloroethyl)ether	8.11	63	212689	25.04	ug/ml	99
9) 2-Chlorophenol	8.20	128	277449	23.13	ug/ml	98
10) 1,3-Dichlorobenzene	8.35	146	224183	16.46	ug/ml	98
11) 1,4-Dichlorobenzene	8.42	146	242118	16.86	ug/ml	99
12) Benzyl Alcohol	8.53	108	204017	24.70	ug/ml	96
13) 1,2-Dichlorobenzene	8.59	146	231241	17.62	ug/ml	99
14) 2-Methylphenol	8.62	107	244014	23.96	ug/ml	96
15) bis(2-Chloroisopropyl)ethe	8.64	45	425278	25.93	ug/ml	99
16) 4-Methylphenol	8.76	107	346952	22.95	ug/ml	98
17) n-Nitrosodipropylamine	8.79	70	268398	30.64	ug/ml	98
18) Hexachloroethane	8.93	117	75772	13.84	ug/ml	98
21) Nitrobenzene	9.00	77	368210	25.71	ug/ml	97
22) Isophorone	9.22	82	746520	33.93	ug/ml	99
23) 2-Nitrophenol	9.32	139	173222	25.32	ug/ml	88
24) 2,4-Dimethylphenol	9.30	122	334513	29.89	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.41	93	401194	28.17	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8824.D Vial: 14
Acq On : 13 Jun 2001 14:23 Operator: mdc
Sample : WG99181-03 LCS 6/12 V165P53 Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.37	122	19387	6.28	ug/ml	97
27) 2,4-Dichlorophenol	9.55	162	280478	27.71	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.64	180	210745	18.26	ug/ml	98
29) Naphthalene	9.73	128	836079	22.80	ug/ml	99
30) 4-Chloroaniline	9.77	127	422555	29.39	ug/ml	98
31) Hexachlorobutadiene	9.83	225	113205	17.30	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.22	107	357172	34.41	ug/ml	98
33) 2-Methylnaphthalene	10.43	142	585949	24.48	ug/ml	99
35) Hexachlorocyclopentadiene	10.58	237	29813	18.40	ug/ml	97
36) 2,4,6-Trichlorophenol	10.71	196	205548	30.85	ug/ml	100
37) 2,4,5-Trichlorophenol	10.75	196	236811	32.97	ug/ml	100
39) 2-Chloronaphthalene	10.94	162	573225	25.70	ug/ml	98
40) 2-Nitroaniline	11.05	65	246151	33.28	ug/ml	98
41) Dimethylphthalate	11.18	163	887280	37.10	ug/ml	100
42) Acenaphthylene	11.38	152	1018075	31.12	ug/ml	100
43) 2,6-Dinitrotoluene	11.28	165	200707	36.55	ug/ml	95
44) 3-Nitroaniline	11.46	138	243262	42.14	ug/ml	96
45) Acenaphthene	11.55	154	650657	29.90	ug/ml	99
46) 2,4-Dinitrophenol	11.57	184	54239	31.36	ug/ml#	78
47) 4-Nitrophenol	11.59	65	74616	16.38	ug/ml	96
48) Dibenzofuran	11.72	168	934974	30.27	ug/ml	98
49) 2,4-Dinitrotoluene	11.69	165	322563	43.56	ug/ml	99
50) Diethylphthalate	11.88	149	1017446	42.97	ug/ml	100
51) Fluorene	12.07	166	794863	32.40	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.03	204	396729	32.23	ug/ml	97
53) 4-Nitroaniline	12.10	138	286696	52.86	ug/ml	90
54) 1,2-Diphenylhydrazine	12.19	77	943712	35.34	ug/ml	98
57) 4,6-Dinitro-2-Methylphenol	12.11	198	181501	41.91	ug/ml	95
58) n-Nitrosodiphenylamine	12.16	169	744834	40.83	ug/ml	98
59) 4-Bromophenyl Phenyl Ether	12.54	248	221464	32.59	ug/ml	97
60) Hexachlorobenzene	12.66	284	272530	38.70	ug/ml	96
61) Pentachlorophenol	12.85	266	112270	40.08	ug/ml	96
62) Phenanthrene	13.08	178	1504731	40.63	ug/ml	100
63) Anthracene	13.12	178	1591720	42.78	ug/ml	100
64) Carbazole	13.28	167	1492701	49.90	ug/ml	100
65) Di-n-Butyl Phthalate	13.52	149	1941458	46.40	ug/ml	99
66) Fluoranthene	14.30	202	1836409	43.29	ug/ml	100
68) Benzidine	14.40	184	105899	22.80	ug/ml	100
69) Pyrene	14.55	202	1944184	44.15	ug/ml	100
71) Butyl Benzyl Phthalate	15.08	149	933658	47.30	ug/ml	98
72) Benzo[a]anthracene	15.81	228	1904847	45.24	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8824.D BNA.M Thu Jun 14 07:48:38 2001 HPMS4 Page 2

Data File : C:\HPCHEM\1\DATA\061301\4M8824.D
Acq On : 13 Jun 2001 14:23
Sample : WG99181-03 LCS 6/12 V165P53
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001

Vial: 14
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

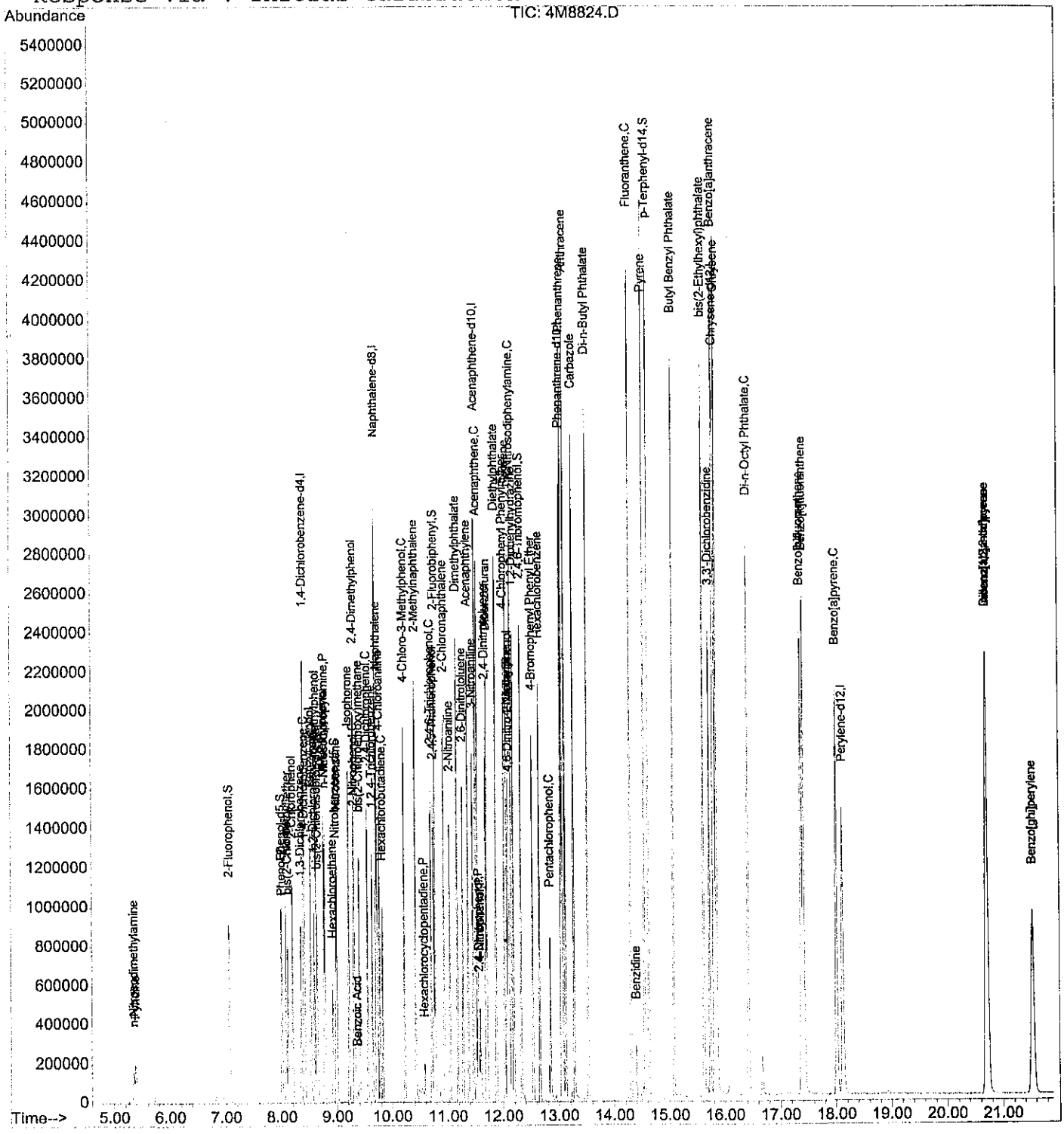
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.74	252	602005	50.74	ug/ml	98
74) Chrysene	15.86	228	1950202	46.61	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.62	149	1224115	46.32	ug/ml	99
77) Di-n-Octyl Phthalate	16.43	149	2091324	47.58	ug/ml	99
78) Benzo[b]fluoranthene	17.38	252	1678076	44.48	ug/ml	98
79) Benzo[k]fluoranthene	17.43	252	1780197	46.24	ug/ml	98
80) Benzo[a]pyrene	18.02	252	1585579	45.47	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.72	276	1723278	49.29	ug/ml#	97
82) Dibenz[ah]anthracene	20.72	278	1378077	63.60	ug/ml	99
83) Benzo[ghi]perylene	21.54	276	1319359	45.95	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\061301\4M8824.D Vial: 14
Acq On : 13 Jun 2001 14:23 Operator: mdc
Sample : WG99181-03 LCS 6/12 V165P53 Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 14 7:48 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.06/12/01
Last Update : Wed Jun 13 09:07:33 2001
Response via : Initial Calibration



4M8824.D BNA.M Thu Jun 14 07:48:41 2001 HPMS4 Page 4

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 6/12/01 Instrument ID HP#5 Column ID RTX 5 Silms SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials mdc Data Subdirectory 061201 SOP # MSS02 Rev. # 1 _____ 625
ISTD # BW50319 SOP # MSS03 Rev. # 0 _____ PAH 8

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
YM8793	50 PPM BNA STD	1	50554-34-4		NA
794	↓ ↓ All sources		50554-14		
795	BNA spike		ES537-31		
796	LW06161-22				
797	50PPM DFTPP		553-17		✓
798	50PPM BNA STD		50554-34-4		✓
799	3PPM BNA STD		50554-34-1		✗
800	↓ ↓		↓ -1		NA
801	50PPM DFTPP		553-17		✓
802	~~3PPM~~ BNA STD 50PPM mdc 6/14/01		50554-34-4		✗*
803	50PPM DFTPP		553-17		✓
804	3PPM BNA STD		50554-34-4		
805	50PPM		-3		
806	10PPM		-2		
807	20PPM		-4		
808	80PPM		-5		
809	100PPM		-6		
810	120PPM		-7		

mdc 6/14/01

Status: Reviewed By: CAK 6/14/01

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 6/12/01 Instrument ID HPMS4 Column ID RTX-5 Sil-MS Data Subdirectory 061201

Daily Check

- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☑ Clip column (115 cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ✓ No ____

Additional Maintenance

Problem: No hexachlorocyclopentadiene in 3ppm std 4ME799.

Action Taken: Cut 1.15 meters off column.

Comments

* no hexachlorocyclopentadiene

** filament burned out, switched filaments and returned MS.

Reviewed By: CLK 6/14/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 6/13/01 Instrument ID HPMS4 Column ID RTX-5Sil-MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials mdc Data Subdirectory 061301 SOP # MSS02 Rev. # 1 ____ 625
ISTD # BN80719 SOP # MSS03 Rev. # 0 ____ PAH 8720C

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
4MS611	W6-99368-01 50ppm DFTPP	1	55317		✓
12	-02 50ppm Alk source std.		50554-14		
13	-03 50ppm BN std		50554-34-4		
14	W6-99107-02 BLK 6/11 W165P31 RR				
15	-03 LCS				
16	W6-99052-02 BLK 6/8 W165P19				
17	-03 LCS				210
18	L0106161-25 RR			3M23079	✓
19	-26			80	✓
20	-22			76	✓
21	-03			87	✓
22	-18			3M23107	✓
23	W6-99142-02 BLK 6/12 W165P33				
24	-03 LCS				
25	L0106231-01				
26	L0106234-01				RE
27	-02				
28	-03				
29	L0106235-01				
30	W6-99156-01 TIBLK 6/11				✓
31	L0106167-01 TCLP				RE
32	W6-99159-01 TIBLK 6/11				✓
33	L0106164-02 TCLP				✓

mdc 6/13/01

Status: Reviewed By: CVK 6/14/01

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 061301 Instrument ID 14MS4 Column ID RTX5 Silms Data Subdirectory 061301

Daily Check

- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

14MS32 changed 22.5% in alt source

L0106181-25,26 = SS1,3,4/low, QNS for RE

1-22 = SS6/low

L0106231-01 SS4/low

L0106234-01,02,03 - SS1,3,4,6/low - need RE

L0106235-01 -

L0106164-01 - SS1,4,5/low, need RE

Reviewed By: CLF 6/14/01

Parameter: BNA-H2O SOP #: EXB08 Revision #: 8
Extraction Analyst(s): DP, SAM TV/KD Analyst(s): SAM
Date/Time Extracted: 06/12/01 @ 0930 Date TV/KD: 06/12/01
Spike/Surrogate Analyst: DP Witness: SAM
Surrogate #: ESS0037-21 #26 #3*** Earliest Hold Date: 06/13/01
Spike #: A = ESS0037-20 #2 Spike #: B = —

Extraction Work Group WG 99181
Analytical Work Group WG 99366

Extract Relinquished By: DP
Extract Received By & Date: mdc 6/12/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓		✓	1L	500 µL		1mL	T				WG 99181-02
2	LCS		✓		✓	1		500 µL		C				WG 1 -03
3	06-230-01	827-PAH	✓		✓	920mL				C				
4	-02		✓		✓	980mL				C				
5	-03		✓		✓	970mL				O				
6	-04		✓		✓	1L				C				
7	06-231-01		✓		✓					C				
8	06-234-01		✓		✓					C				
9	-02		✓		✓					C				
10	-03		✓		✓					C				
11	06-235-01		✓		✓					C				
12	06-236-01	8270	✓		✓					O				***
13	06-237-02	827-TCL	✓		✓	870mL				T				WG 99181-01
14	-03MS		✓		✓	840mL		500 µL		C				-04 T
15	-04MSD		✓		✓	900mL		1		C				-05 *
16	-05		✓		✓	1				C				
17	-08		✓		✓	1				C				
18	TFBLK 6/11	827-TC	✓		✓	100mL				T				WG 99156-01
19	06-164-01		✓		✓	1				C				***
20	TBLK 6/11		✓		✓	1				T				WG 99159-01
21	06-164-02		✓		✓	1	1		1	T				
22														
23							DP							
24							06/12/01							

Methylene Chloride Lot #: 4/01 6
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Fortified Lot #: ER1744
Reagent: 10N NaOH Lot #: ER1752
Reagent: — Lot #: —
Acid: 1:1 H2SO4 Lot #: ER1757
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1738

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Cheryl Flowers Date: 6-12-01

Extraction Notes For Volume # 165 Page # 053

General Comments: * MS, MSD of 06-237-02
** CSS0037-21 #2 was used for BLK up to and including 06-237-05.
ESS0037-21 #3 was used for 06-237-08 through 06-164-02

Extraction Anomalies: None

Concentration Anomalies: *** Extract very slow to concentrate

Clean-Up Anomalies: Not applicable.

Supervisor Review: _____ Date: _____

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Example 8270 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax)(Cis)] / [(Ais)(Cx)]

Where:

	Example:
Ax = Area of the characteristic ion for the compound being measured	10000
Cis = Concentration of the specific internal standard (ng/ml).	100
Ais = Area of the characteristic ion for the specific internal standard.	5000
Cx = Concentration of the compound being measured (ng/ml).	100
RF	**2**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Vi)]

Where:

	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Vi = Initial volume of sample (mL). (prep log)	1000
	4

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Wi)]

Where:

	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL).	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Wi = Initial weight of sample (g).	30
C (ug/kg)	**133.3333**

2.2.2 Pesticide GC Data (8081)

REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS yielded % recoveries for aldrin, gamma-chlordane, alpha-chlordane, 4,4'-DDE and 4,4'-DDT that were below the advisory limits. All other acceptance criteria were met.
Matrix Spikes: All acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.
Endrin/ DDT Breakdown : All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL REVIEWED Stephanie L Stepe DATE: 6/22/01

Rev. 7/14/00

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SV - GC

Date: 6/15/01
Analyst: ECL/JNW
Method: 8081
Instrument: HP9
Work Group:

WG 99249
99305
99214

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	✓
Initial Calibration	NA
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	✓
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	NA
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 6/19/01

Secondary Reviewer Initials & Date Checked DK 6/19/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked DK 6/19/01

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

Date: 6/18/01
Analyst: ECL
Method: 8081
Instrument: HP9
Work Group:

WG 99424
99305
99393 99548
99542

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	✓
Initial Calibration	NA
Average RF	|
Linear Reg or Higher Order Curve	|
Second Source Standard % Difference	|
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	✓
Check Sample Histories	✓
Ending Check Standards	✓
	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	NA
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 6/20/01

Secondary Reviewer Initials & Date Checked DR 6/21/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked DR 6/21/01

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

315

PESTICIDE-GC DATA (8081)

Login Number: L0106236

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Endrin/DDT Breakdown chromatogram and external standard report

✓ Method blank chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

NA Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: EC Date: 6/20/01

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2.2.2.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8081 WATERS , REAR

EXT'N DATE : 6/12/01
EXT'N BENCH SHT : V165 P81
EXT'N WORK GRP : WG99229

INSTRUMENT : HP9
ANALYST : ECL
RUN DATE : 6/15/01
ANAL WORK GRP : WG99305

BLK FLNM : 9G16273
LCS FLNM : 9G16274

SAMPLE ID : NA
SMPL FLNM : NA
MS FLNM : NA
MSD FLNM : NA

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY						PERCENT				Blank	LCS	Sample	MS	MSD
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits					
ALPHA-BHC	0.05	ND	0.192	ND	NA	NA	NA	38.4	31	144	NA	NA	NA	31	144	NA	0-42					
GAMMA-BHC	0.05	ND	0.224	ND	NA	NA	NA	44.8	40	144	NA	NA	NA	40	144	NA	0-39					
BETA-BHC	0.05	ND	0.280	ND	NA	NA	NA	56.0	56	125	NA	NA	NA	56	125	NA	0-35					
HEPTACHLOR	0.05	ND	0.195	ND	NA	NA	NA	39.0	27	139	NA	NA	NA	27	139	NA	0-41					
DELTA-BHC	0.05	ND	0.308	ND	NA	NA	NA	61.6	61	148	NA	NA	NA	61	148	NA	0-40					
ALDRIN	0.05	ND	0.145	ND	NA	NA	NA	29.0	32	139	NA	NA	NA	32	139	NA	0-38		L			
HEPTACHLOR EPOXIDE	0.05	ND	0.280	ND	NA	NA	NA	56.0	50	140	NA	NA	NA	50	140	NA	0-42					
GAMMA-CHLORDANE	0.05	ND	0.286	ND	NA	NA	NA	57.2	70	130	NA	NA	NA	70	130	NA	0-40		L			
ALPHA-CHLORDANE	0.05	ND	0.286	ND	NA	NA	NA	57.2	70	130	NA	NA	NA	70	130	NA	0-40		L			
ENDOSULFAN I	0.05	ND	0.284	ND	NA	NA	NA	56.8	37	115	NA	NA	NA	37	115	NA	0-38					
4,4-DDE	0.10	ND	0.284	ND	NA	NA	NA	56.8	58	137	NA	NA	NA	58	137	NA	0-36		L			
DIELDRIN	0.10	ND	0.307	ND	NA	NA	NA	61.4	59	147	NA	NA	NA	59	147	NA	0-39					
ENDRIN	0.10	ND	0.318	ND	NA	NA	NA	63.6	60	153	NA	NA	NA	60	153	NA	0-40					
4,4-DDD	0.10	ND	0.329	ND	NA	NA	NA	65.8	62	145	NA	NA	NA	62	145	NA	0-38					
ENDOSULFAN II	0.10	ND	0.290	ND	NA	NA	NA	58.0	42	112	NA	NA	NA	42	112	NA	0-30					
4,4-DDT	0.10	ND	0.303	ND	NA	NA	NA	60.6	64	151	NA	NA	NA	64	151	NA	0-31		L			
ENDRIN ALDEHYDE	0.10	ND	0.191	ND	NA	NA	NA	38.2	21	131	NA	NA	NA	21	131	NA	0-49					
ENDOSULFAN SULFATE	0.10	ND	0.256	ND	NA	NA	NA	51.2	15	154	NA	NA	NA	15	154	NA	0-60					
METHOXYCHLOR	0.5	ND	0.385	ND	NA	NA	NA	77.0	66	152	NA	NA	NA	66	152	NA	0-35					
ENDRIN KETONE	0.50	ND	0.283	ND	NA	NA	NA	56.6	37	165	NA	NA	NA	37	165	NA	0-49					
Tech-CHLORDANE	1.0	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-40					
TOXAPHENE	1.0	ND	NA	ND	NA	NA	NA	NA	39	128	NA	NA	NA	39	128	NA	0-39					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		4.13	4.56	NA	NA	NA	20.6	22.8	13	154	NA	NA	NA	13	154							
DECACHLOROBIPHENYL		8.71	8.26	NA	NA	NA	43.5	41.3	25	140	NA	NA	NA	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 0.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

2.2.2.2 Sample Data

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH Vial: 22
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH Vial: 22
Acq On : 15 Jun 2001 23:26 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:37 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1781.3E6	1700.0E6	25.112	16.271 #
	Spiked Amount 20.000	Range 13 - 154		Recovery =		125.56%	81.36%
22)	S Decachlorobiphen	15.13	14.78	1528.7E6	971.6E6	37.330	19.541 #
	Spiked Amount 20.000	Range 25 - 140		Recovery =		186.65%#	97.70%
	Target Compounds						
2)	alpha-BHC	8.57f	0.00	106.7E6	0	0.012	N.D. #
3)	gamma-BHC	9.15f	0.00	2536.5E6	0	0.324	N.D. #
4)	beta-BHC	9.31	0.00	692.8E6	0	0.201	N.D. #
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	9.58f	0	73752399	N.D.	0.008 #
8)	Heptachlor Epoxi	11.30f	0.00	521.5E6	0	0.087	N.D. # ✓
9)	gamma-Chlordane	11.48f	10.73	11131.7E6	17796.0E6	1.854	2.276 ✓
10)	alpha-Chlordane	11.66f	10.94f	15705.2E6	10695.8E6	2.964	1.451 ✓ #
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	11.80f	11.22	1741.0E6	2500.9E6	0.324	0.348 ✓
13)	Dieldrin	12.22f	0.00	211.5E6	0	0.038	N.D. #
14)	Endrin	0.00	11.90f	0	363.0E6	N.D.	0.063 #
15)	4,4'-DDD	12.64	12.06	624.4E6	1487.6E6	0.143	0.267 # ✓ P
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.00	12.49	507.8E6	1307.1E6	0.109	0.243 # ✓ P
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	13.85	0.00	125.7E6	0	0.037	N.D. #
20)	Methoxychlor	0.00	13.34f	0	797.9E6	N.D.	0.328 #
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

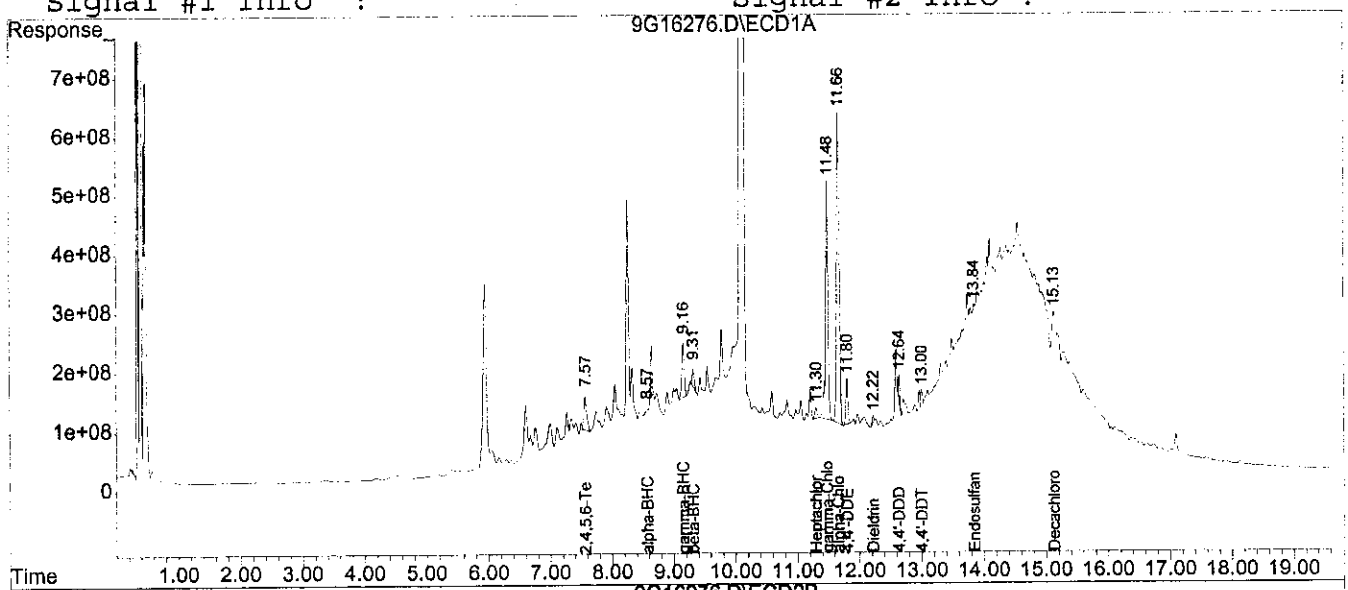
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

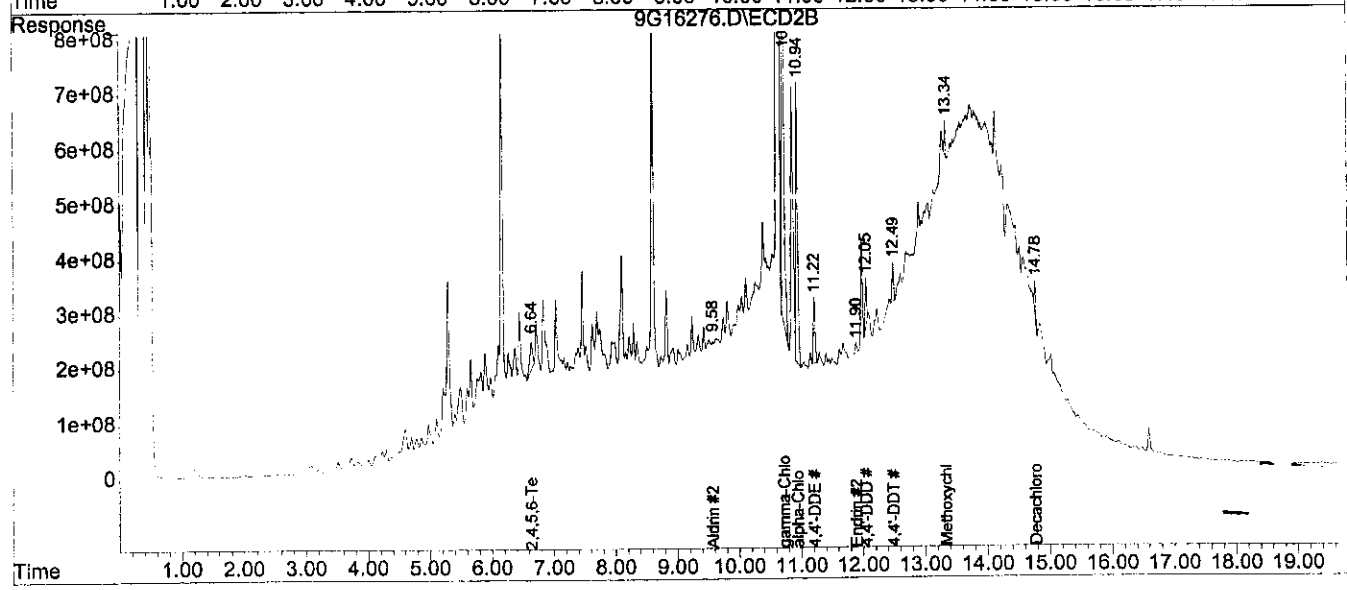
Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH Vial: 22
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH Vial: 22
Acq On : 15 Jun 2001 23:26 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:37 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



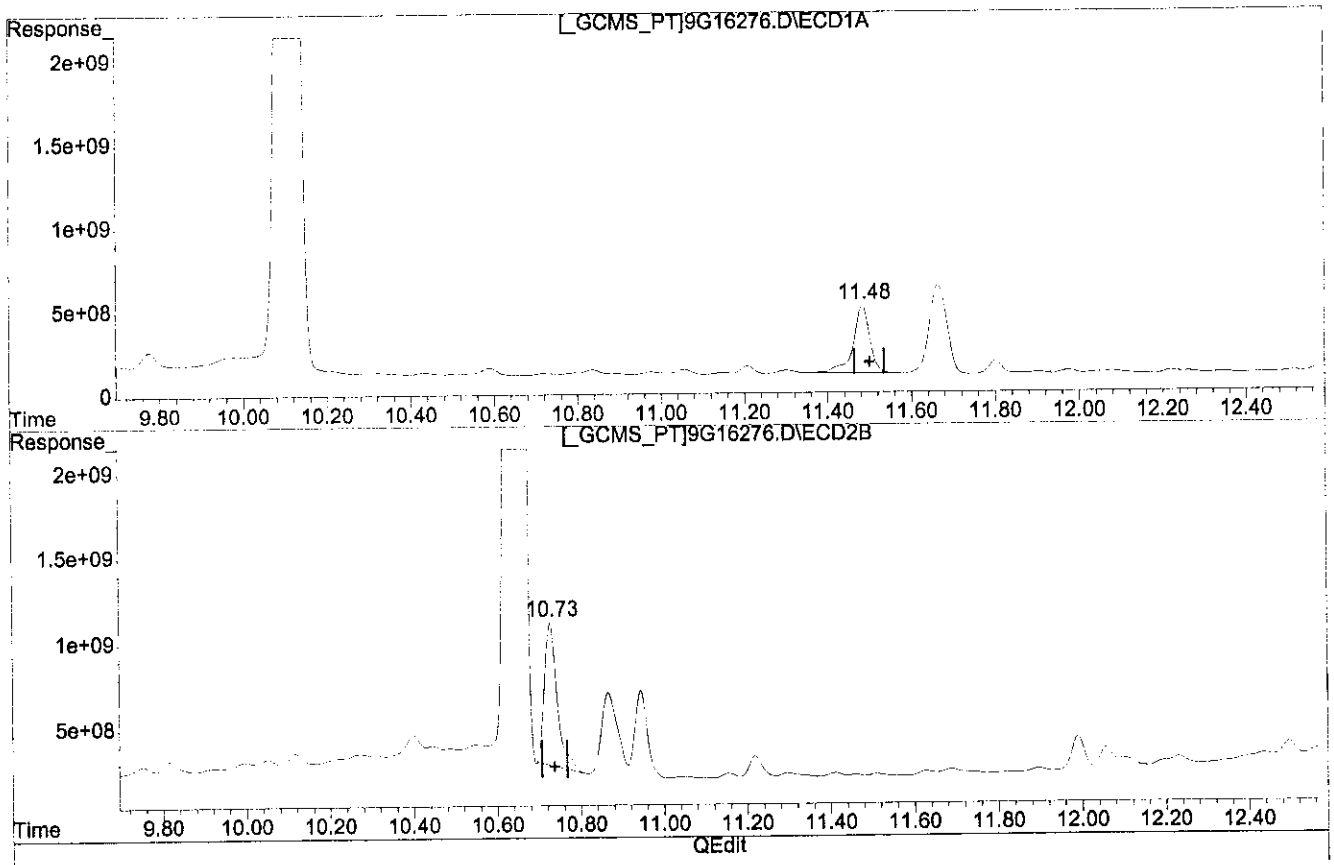


321

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH Vial: 22
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH Vial: 22
Acq On : 15 Jun 2001 23:26 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:37 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration



(9) gamma-Chlordane
11.48min 1.854UG/L
response 11131696095

✓ 10X

(9) gamma-Chlordane #2
10.73min 2.276UG/L
response 17796036674

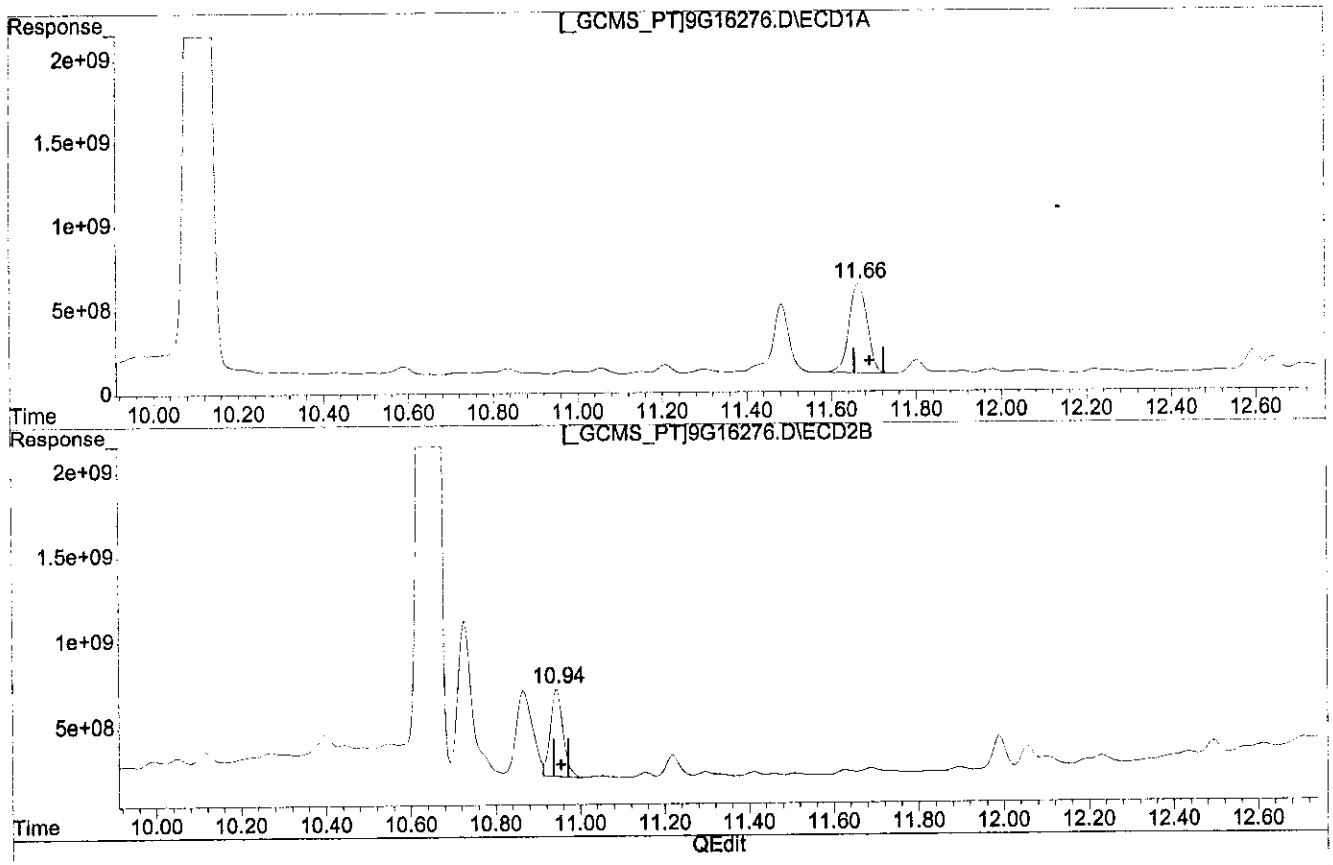
(+) = Expected Retention Time
9G16276.D 8081.M Mon Jun 18 11:38:05 2001

322

```
Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH   Vial: 22
Acq On    : 15 Jun 2001  23:02                          Operator: SMW
Sample    : L0106236-01                                 Inst    : HP9
Misc      : 1,1                                         Multiplr: 0.01
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH   Vial: 22
Acq On    : 15 Jun 2001  23:26                          Operator: SMW
Sample    : L0106236-01                                 Inst    : HP9
Misc      : 1,1                                         Multiplr: 0.01
IntFile   : autoint2.e
Quant Time: Jun 18 11:37 2001  Quant Results File: 8081.RES

Method        : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title         : CALIBRATION May 24, 2001
Last Update   : Wed Jun 06 09:27:53 2001
Response via  : Multiple Level Calibration
```



(10) alpha-Chlordane
11.66min 2.964UG/L
response 15705165021

✓ 10X

(10) alpha-Chlordane #2
10.94min 1.451UG/L
response 10695753266

(+) = Expected Retention Time

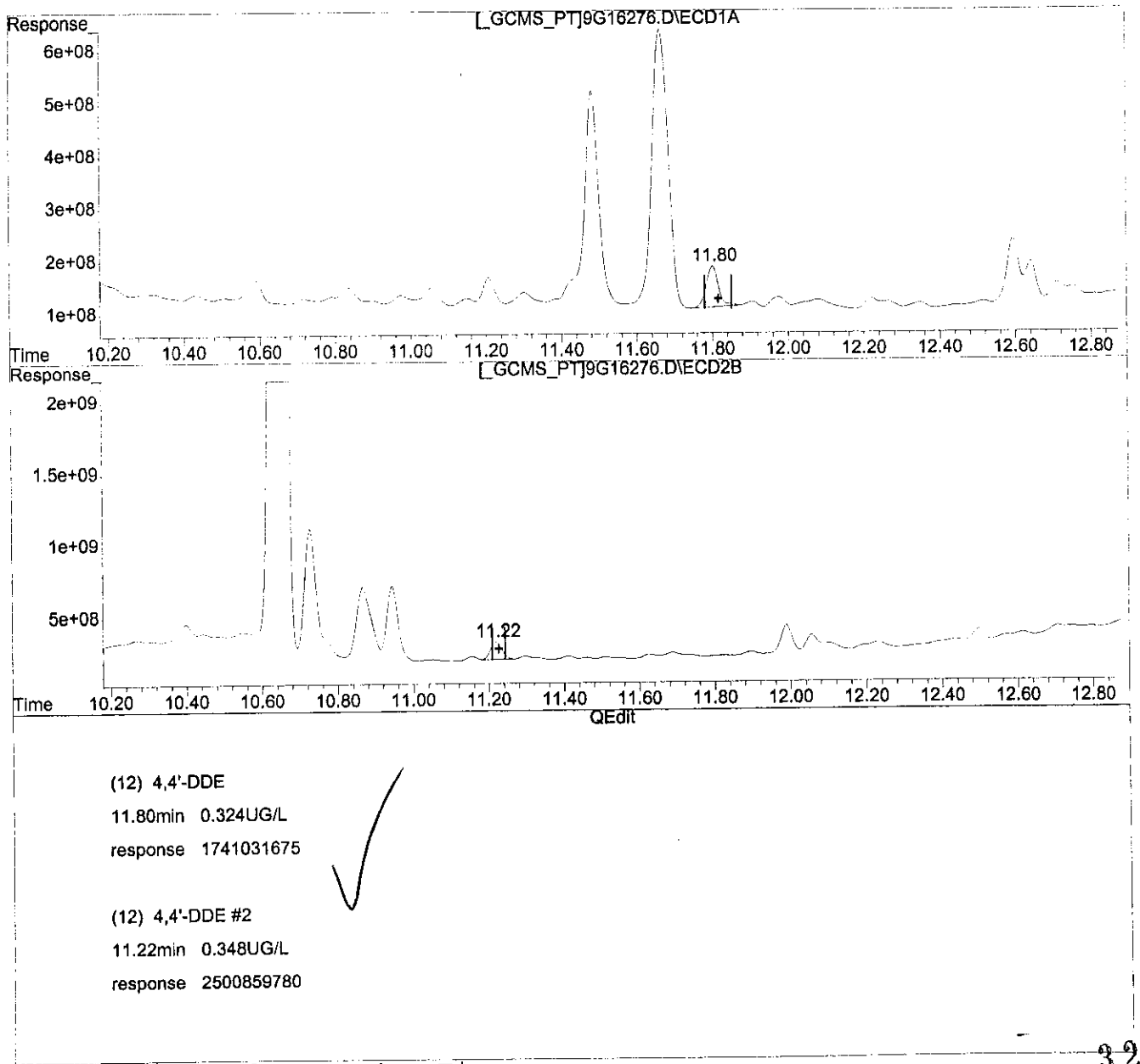
323

9G16276.D 8081.M Mon Jun 18 11:38:12 2001

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH Vial: 22
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH Vial: 22
Acq On : 15 Jun 2001 23:26 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:37 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration



(12) 4,4'-DDE
11.80min 0.324UG/L
response 1741031675

(12) 4,4'-DDE #2
11.22min 0.348UG/L
response 2500859780

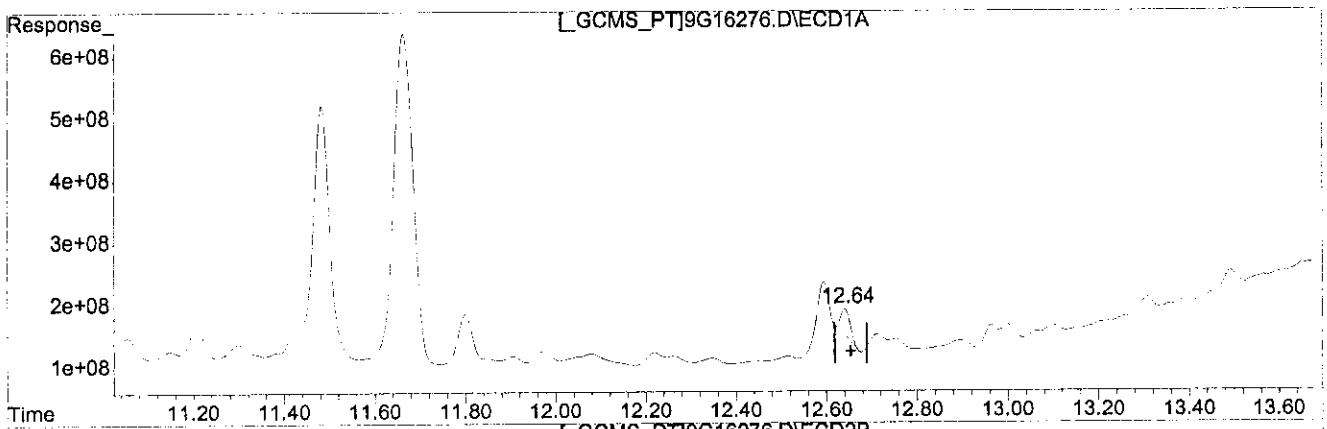
324

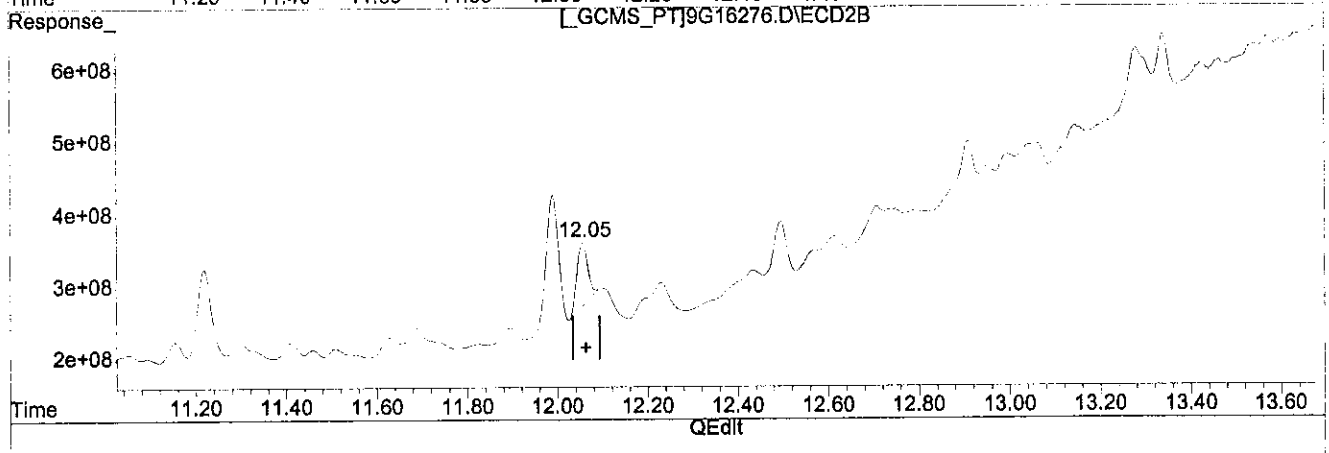
(+) = Expected Retention Time
9G16276.D 8081.M Mon Jun 18 11:38:21 2001

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH Vial: 22
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH Vial: 22
Acq On : 15 Jun 2001 23:26 Operator: SMW
Sample : L0106236-01 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:37 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration





QEdit

(15) 4,4'-DDD
12.64min 0.143UG/L
response 624370446

(15) 4,4'-DDD #2
12.06min 0.267UG/L
response 1487553280

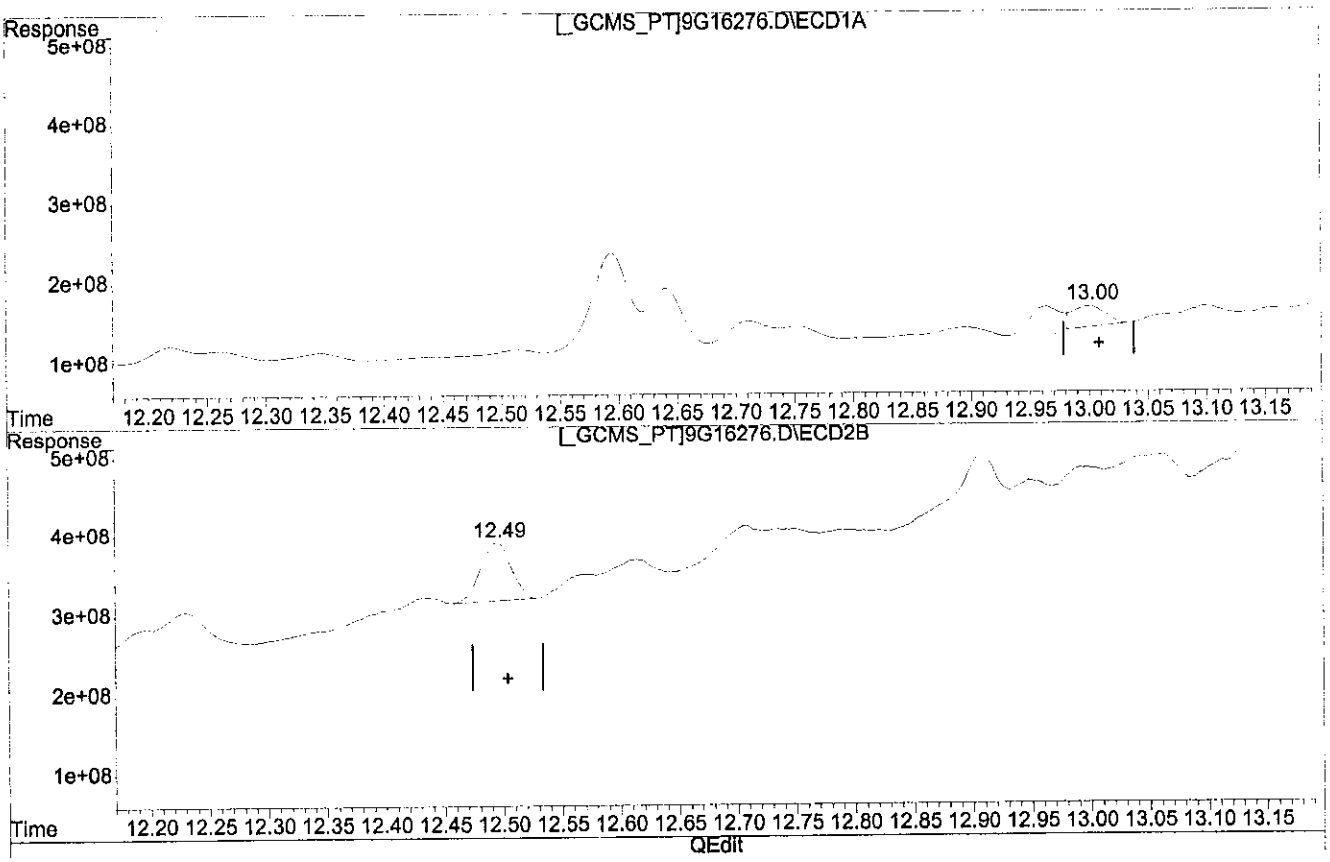
(+) = Expected Retention Time
9G16276.D 8081.M Mon Jun 18 11:38:45 2001

325

```
Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD1A.CH   Vial: 22
Acq On    : 15 Jun 2001  23:02                          Operator: SMW
Sample    : L0106236-01                                 Inst    : HP9
Misc      : 1,1                                         Multiplr: 0.01
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16276.D\ECD2B.CH   Vial: 22
Acq On    : 15 Jun 2001  23:26                          Operator: SMW
Sample    : L0106236-01                                 Inst    : HP9
Misc      : 1,1                                         Multiplr: 0.01
IntFile   : autoint2.e
Quant Time: Jun 18 11:37 2001  Quant Results File: 8081.RES

Method        : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title         : CALIBRATION May 24, 2001
Last Update   : Wed Jun 06 09:27:53 2001
Response via  : Multiple Level Calibration
```



(17) 4,4'-DDT
13.00min 0.109UG/L
response 507785923

(17) 4,4'-DDT #2
12.49min 0.243UG/L
response 1307050383

√ P

326

(+) = Expected Retention Time
9G16276.D 8081.M Mon Jun 18 11:39:02 2001

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH Vial: 7
Acq On : 18 Jun 2001 17:54 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH Vial: 7
Acq On : 18 Jun 2001 18:18 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint2.e
Quant Time: Jun 19 12:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 12:02:47 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.54f	6.63	171.2E6	204.8E6	2.413	1.960
	Spiked Amount 20.000	Range 13 - 154		Recovery =		12.07%#	9.80%#
22)	S Decachlorobiphen	15.13	0.00	504.1E6	0	12.310	N.D. #
	Spiked Amount 20.000	Range 25 - 140		Recovery =		61.55%	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	8.34f	0	78076946	N.D.	0.069 #
4)	beta-BHC	9.26f	8.50f	18305829	34422261	0.053	0.070 #
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	9.55f	0.00	54649811	0	0.073	N.D. #
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	11.29f	0.00	56943968	0	0.095	N.D. #
9)	gamma-Chlordane	11.47	10.72	1080.6E6	1862.1E6	1.800	2.381 #
10)	alpha-Chlordane	11.65	10.94f	1669.5E6	1077.7E6	3.151	1.462 #
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	11.79	11.22	162.7E6	241.7E6	0.303	0.336
13)	Dieldrin	12.21	0.00	75370264	0	0.134	N.D. #
14)	Endrin	0.00	11.89f	0	27233267	N.D.	0.047 #
15)	4,4'-DDD	12.63	12.05	60117206	133.2E6	0.138	0.239 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	12.49	0	262.0E6	N.D.	0.487 #
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	13.00	0	32747820	N.D.	0.074 #
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

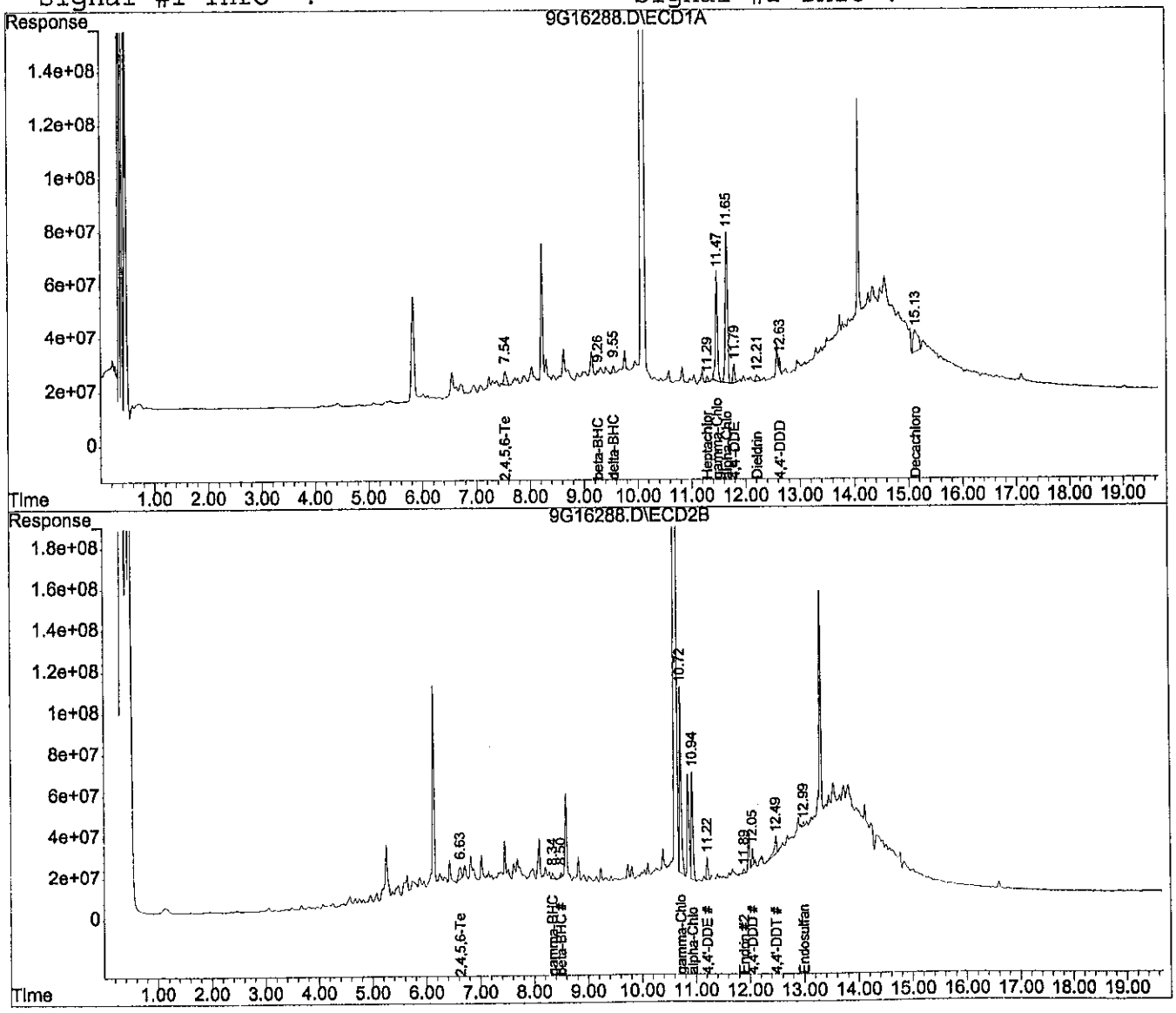
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16288.D 8081.M Tue Jun 19 15:57:40 2001 Page 327

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH Vial: 7
Acq On : 18 Jun 2001 17:54 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH Vial: 7
Acq On : 18 Jun 2001 18:18 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint2.e
Quant Time: Jun 19 12:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 12:02:47 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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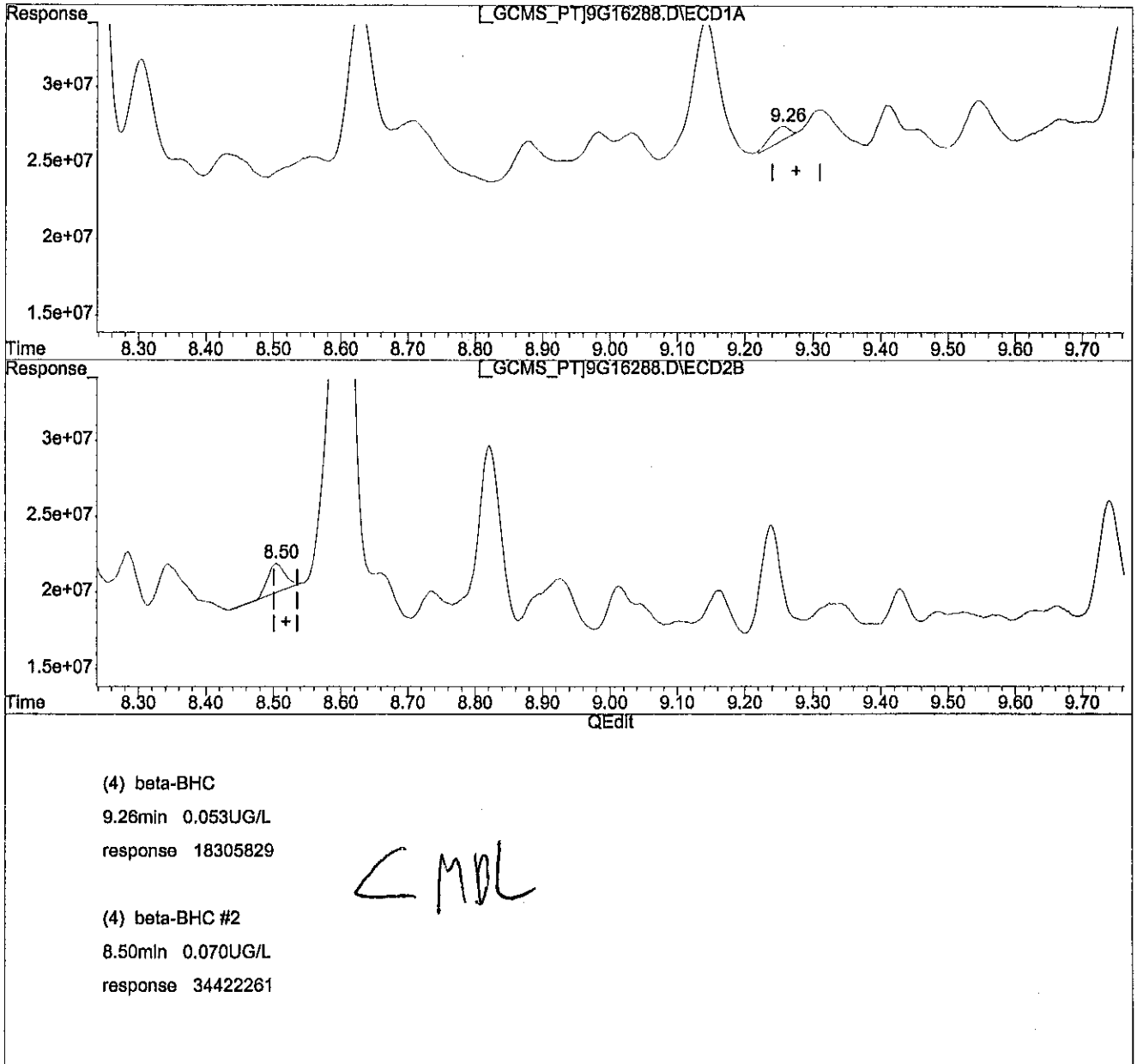
Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH   Vial: 7
Acq On    : 18 Jun 2001  17:54                          Operator: ECL
Sample    : L0106236-01 10x                             Inst    : HP9
Misc      : 1,10                                        Multiplr: 0.11
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH   Vial: 7
Acq On    : 18 Jun 2001  18:18                          Operator: ECL
Sample    : L0106236-01 10x                             Inst    : HP9
Misc      : 1,10                                        Multiplr: 0.11
IntFile   : autoint2.e
Quant Time: Jun 19 12:06 2001  Quant Results File: 8081.RES

Method        : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title         : CALIBRATION May 24, 2001
Last Update   : Wed Jun 06 09:27:53 2001
Response via  : Multiple Level Calibration
```



< MDL

(+) = Expected Retention Time

9G16288.D 8081.M Tue Jun 19 15:58:01 2001

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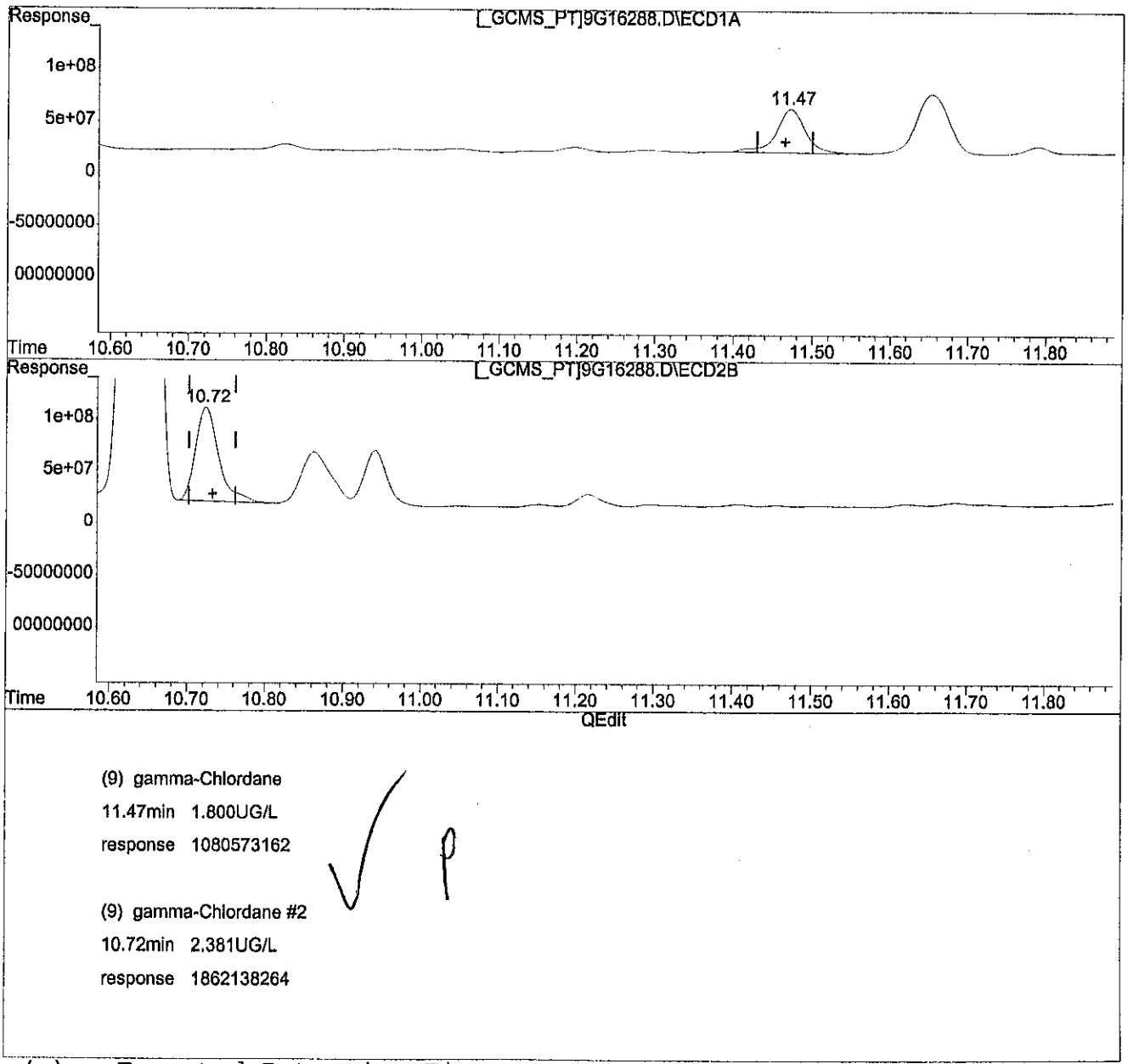
```
Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH   Vial: 7
Acq On    : 18 Jun 2001  17:54                          Operator: ECL
Sample    : L0106236-01 10x                             Inst    : HP9
Misc      : 1,10                                        Multiplr: 0.11
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH   Vial: 7
Acq On    : 18 Jun 2001  18:18                          Operator: ECL
Sample    : L0106236-01 10x                             Inst    : HP9
Misc      : 1,10                                        Multiplr: 0.11
IntFile   : autoint2.e
Quant Time: Jun 19 12:06 2001  Quant Results File: 8081.RES

Method        : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title         : CALIBRATION May 24, 2001
Last Update   : Wed Jun 06 09:27:53 2001
Response via  : Multiple Level Calibration
```



(+) = Expected Retention Time

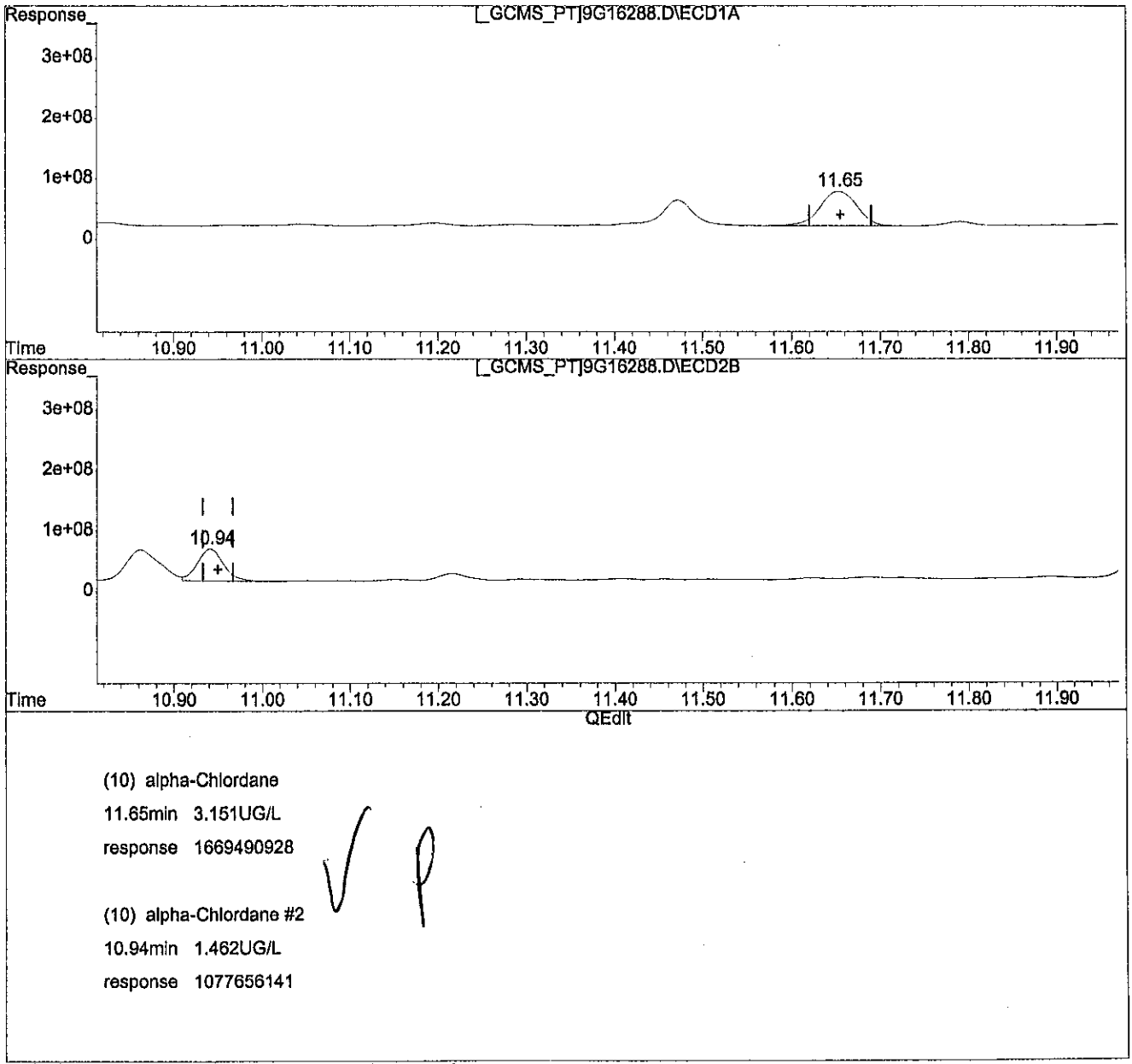
9G16288.D 8081.M Tue Jun 19 15:58:12 2001

330

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH Vial: 7
Acq On : 18 Jun 2001 17:54 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH Vial: 7
Acq On : 18 Jun 2001 18:18 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint2.e
Quant Time: Jun 19 12:06 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration



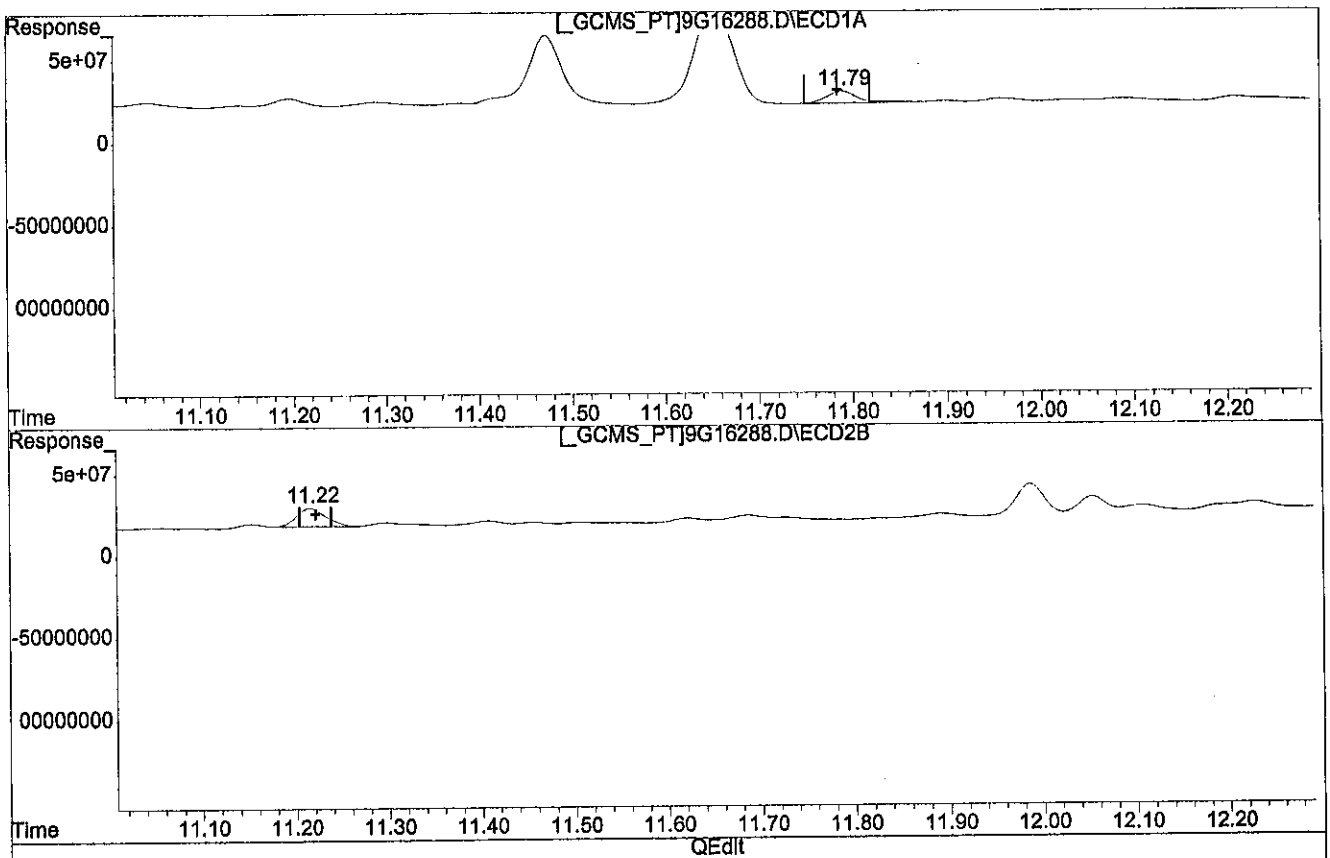
(+) = Expected Retention Time
9G16288.D 8081.M Tue Jun 19 15:58:24 2001

331

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH Vial: 7
Acq On : 18 Jun 2001 17:54 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH Vial: 7
Acq On : 18 Jun 2001 18:18 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint2.e
Quant Time: Jun 19 12:06 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration



(12) 4,4'-DDE
11.79min 0.303UG/L
response 162678064

(12) 4,4'-DDE #2
11.22min 0.336UG/L
response 241728508

VJ

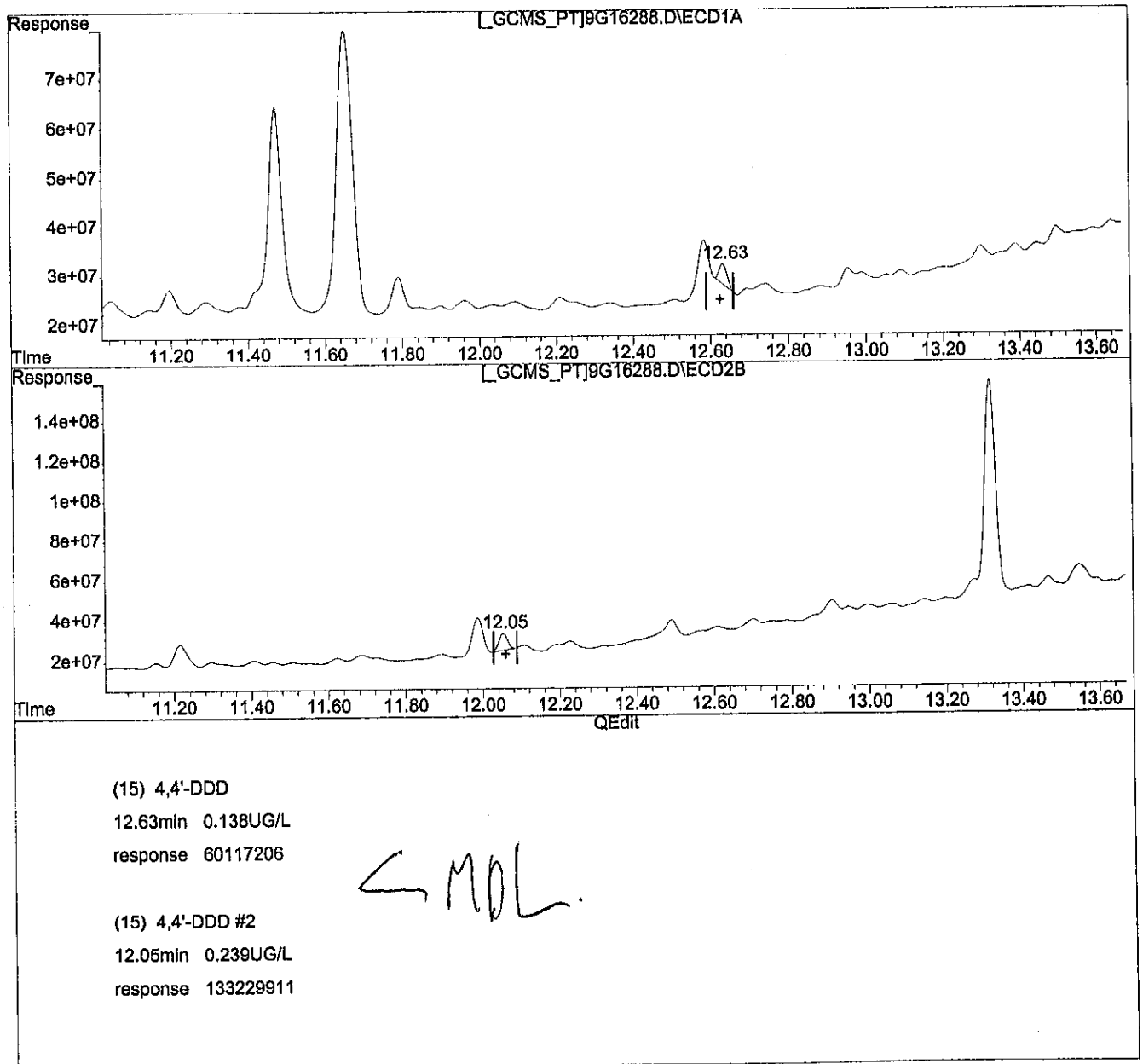
(+) = Expected Retention Time
9G16288.D 8081.M Tue Jun 19 15:58:34 2001

332

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD1A.CH Vial: 7
Acq On : 18 Jun 2001 17:54 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16288.D\ECD2B.CH Vial: 7
Acq On : 18 Jun 2001 18:18 Operator: ECL
Sample : L0106236-01 10x Inst : HP9
Misc : 1,10 Multiplr: 0.11
IntFile : autoint2.e
Quant Time: Jun 19 12:06 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration



< MDL.

(+) = Expected Retention Time
9G16288.D 8081.M Tue Jun 19 15:58:41 2001

333

2.2.2.3 Standards Data

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001

Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1) L1	TOXAPHENE-1	4.695	4.287	4.432	4.549	4.478	4.488	E5	3.34
2) L1	TOXAPHENE-2	4.333	4.764	5.096	5.303	5.293	4.958	E5	8.31
3) L1	TOXAPHENE-3	1.072	1.049	1.082	1.110	1.097	1.082	E6	2.16
4) L1	TOXAPHENE-4	4.751	4.793	5.028	5.376	5.323	5.054	E5	5.74
5) L1	TOXAPHENE-5	1.032	1.012	1.044	1.088	1.057	1.047	E6	2.70

Signal #2 Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1) L1	TOXAPHENE-1	1.795	2.173	2.204	2.297	2.268	2.147	E6	9.45
2) L1	TOXAPHENE-2	1.388	1.429	1.492	1.596	1.594	1.500	E6	6.31
3) L1	TOXAPHENE-3	1.352	1.365	1.430	1.512	1.532	1.438	E6	5.71
4) L1	TOXAPHENE-4	0.841	0.867	0.925	0.991	1.005	0.926	E6	7.84
5) L1	TOXAPHENE-5	6.033	6.135	6.294	6.635	6.666	6.353	E5	4.53

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	895.5E6	4536.6E6	1995.371	2112.548
2)	L1 TOXAPHENE-2	13.27	12.68	1058.7E6	3188.9E6	2135.231	2126.043
3)	L1 TOXAPHENE-3	13.76	13.30	2194.9E6	3063.4E6	2028.056	2130.110
4)	L1 TOXAPHENE-4	13.95	13.36	1064.5E6	2010.3E6	2106.243	2171.370
5)	L1 TOXAPHENE-5	14.15	13.73	2114.5E6	1333.2E6	2020.310	2098.668
	Sum TOXAPHENE-1			7328.2E6	14132.3E6	10285.211	10638.739
Average	TOXAPHENE-1					2057.042	2127.748

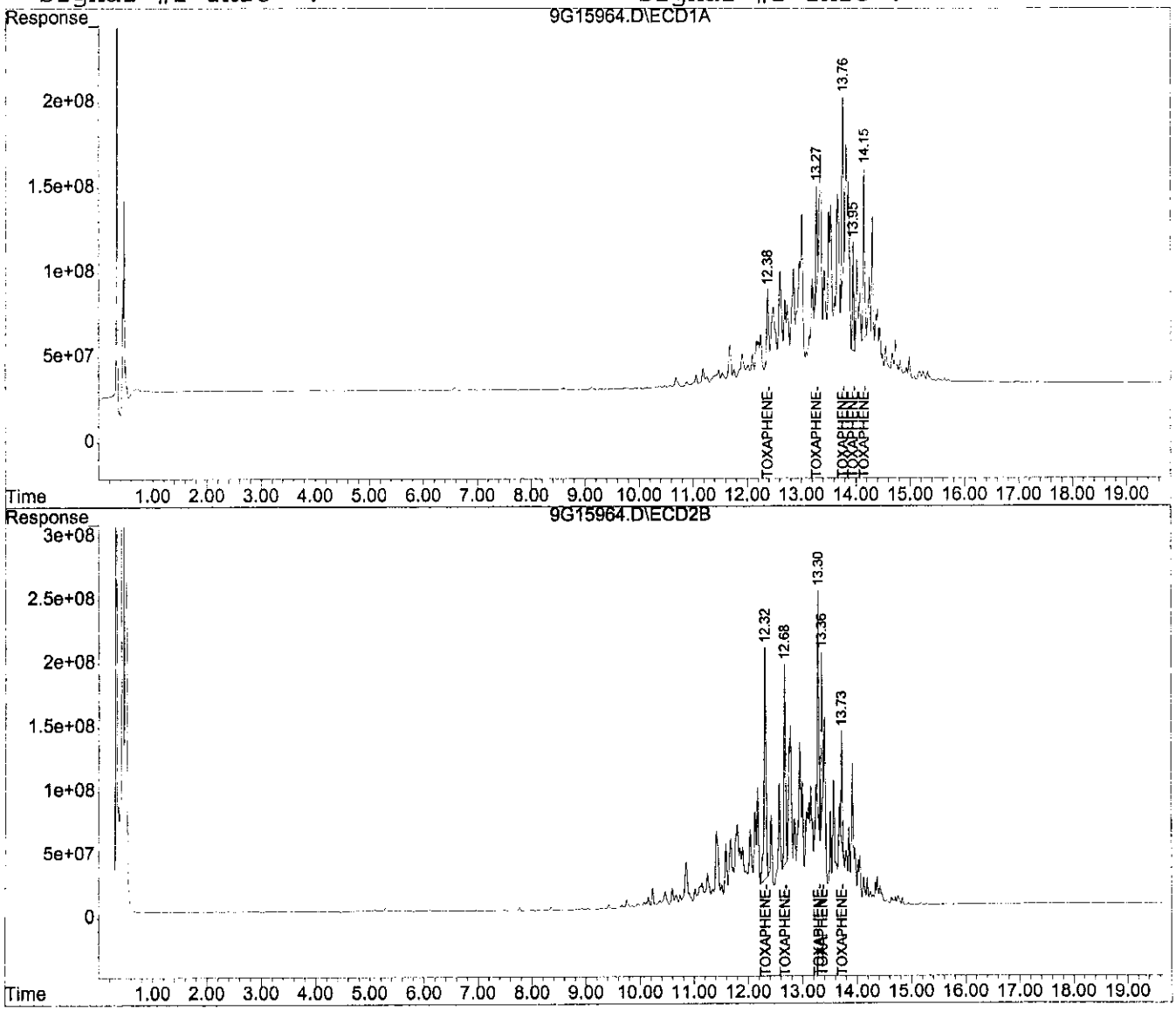
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.31	454.9E6	2296.7E6	1013.519	1069.486
2) L1 TOXAPHENE-2	13.28	12.67	530.3E6	1596.1E6	1069.649	1064.160
3) L1 TOXAPHENE-3	13.77	13.29	1110.3E6	1511.7E6	1025.850	1051.144
4) L1 TOXAPHENE-4	13.95	13.36	537.6E6	990.6E6	1063.680	1070.027
5) L1 TOXAPHENE-5	14.15	13.72	1087.7E6	663.5E6	1039.218	1044.413
Sum TOXAPHENE-1			3720.8E6	7058.6E6	5211.915	5299.231
Average TOXAPHENE-1					1042.383	1059.846

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15965.D TOX.M Thu May 24 11:43:40 2001 Page 4

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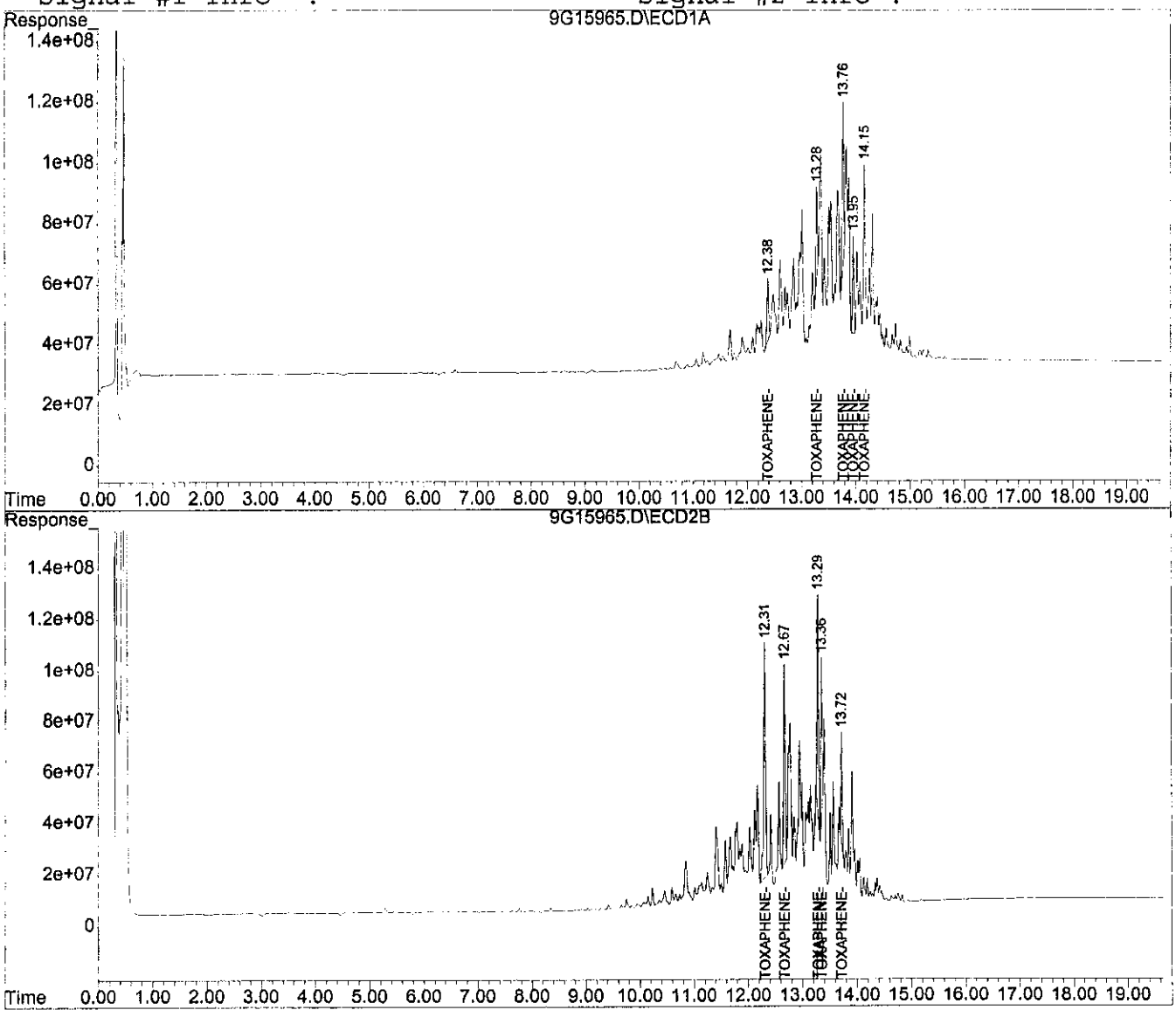
Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.37	12.31	221.6E6	1102.2E6	493.741	513.266
2)	L1 TOXAPHENE-2	13.27	12.67	254.8E6	746.1E6	513.939	497.410
3)	L1 TOXAPHENE-3	13.76	13.29	541.1E6	715.1E6	499.957	497.241
4)	L1 TOXAPHENE-4	13.94	13.36	251.4E6	462.5E6	497.460	499.548
5)	L1 TOXAPHENE-5	14.15	13.72	521.9E6	314.7E6	498.660	495.400
	Sum TOXAPHENE-1			1790.8E6	3340.6E6	2503.757	2502.865
Average	TOXAPHENE-1					500.751	500.573

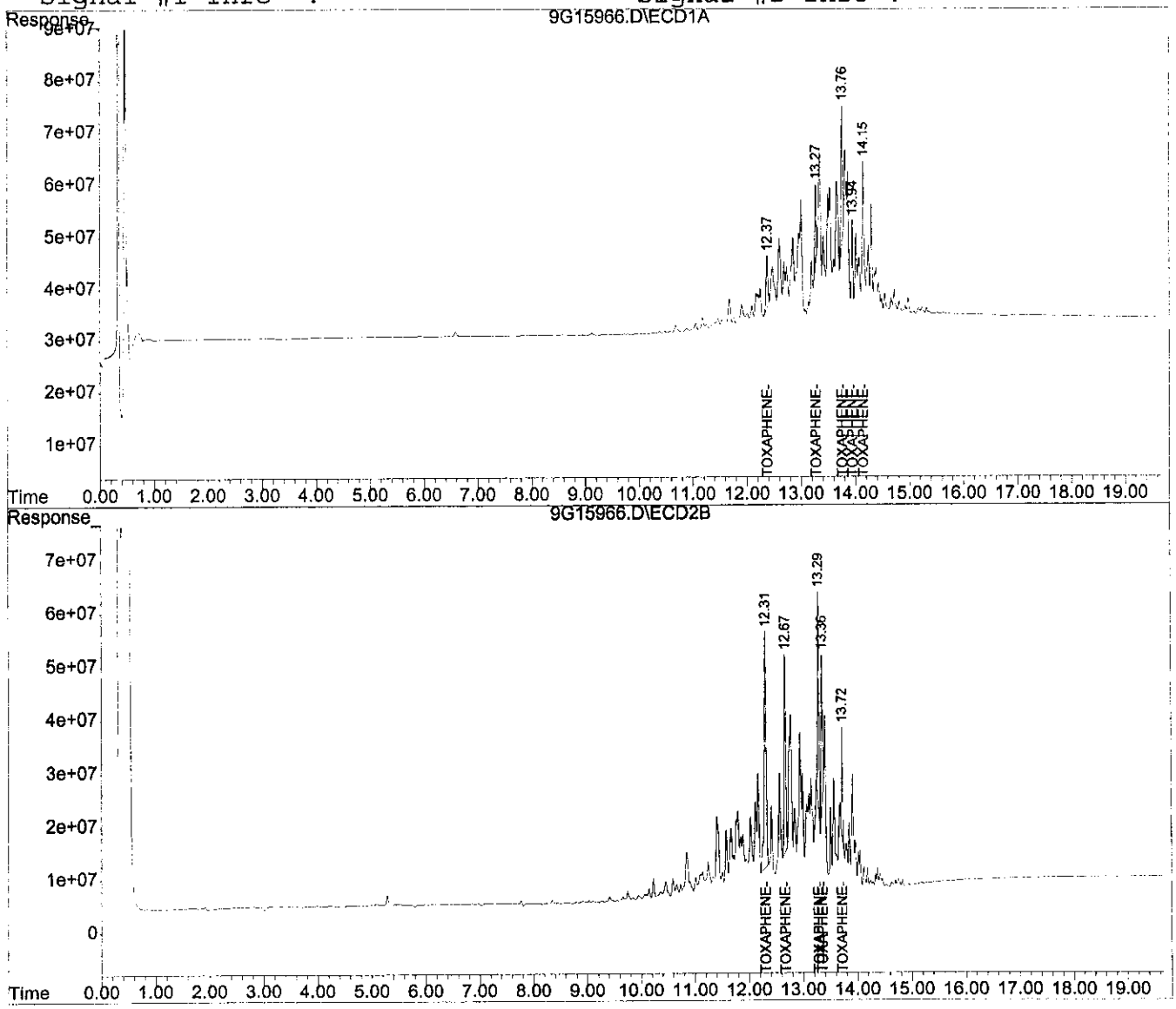
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH Vial: 5
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH Vial: 5
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.31	107.2E6	543.2E6	238.821	252.929
2)	L1 TOXAPHENE-2	13.27	12.67	119.1E6	357.2E6	240.213	238.156
3)	L1 TOXAPHENE-3	13.76	13.29	262.4E6	341.2E6	242.415	237.247
4)	L1 TOXAPHENE-4	13.95	13.36	119.8E6	216.7E6	237.061	234.099
5)	L1 TOXAPHENE-5	14.15	13.72	253.0E6	153.4E6	241.738	241.452
	Sum TOXAPHENE-1			861.5E6	1611.7E6	1200.249	1203.883
Average	TOXAPHENE-1					240.050	240.777

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15967.D TOX.M Thu May 24 11:44:06 2001 Page 2

```
Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH   Vial: 5
Acq On    : 24 May 2001  10:22                          Operator: ECL
Sample    : TOX ICAL 0.25 PPM                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH   Vial: 5
Acq On    : 24 May 2001  10:47                          Operator: ECL
Sample    : TOX ICAL 0.25 PPM                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May 24 11:44 2001  Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.      :
Signal #1 Phase  :                    Signal #2 Phase:
Signal #1 Info   :                    Signal #2 Info :
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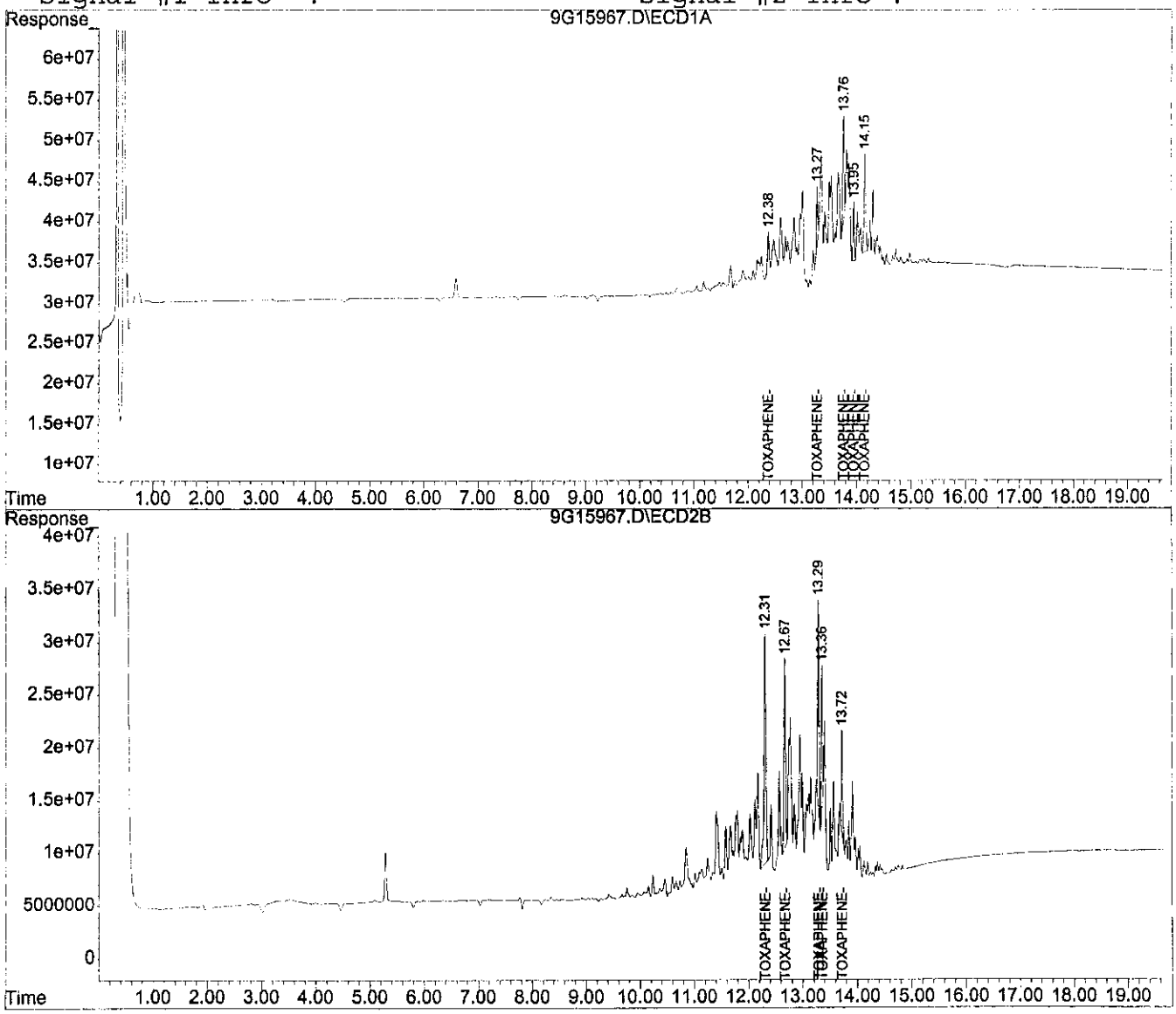


Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	46946000	179.5E6	104.603	83.599
2)	L1 TOXAPHENE-2	13.28	12.68	43334629	138.8E6	87.401	92.538
3)	L1 TOXAPHENE-3	13.76	13.30	107.2E6	135.2E6	99.055	94.033
4)	L1 TOXAPHENE-4	13.95	13.36	47510811	84136865	94.003	90.879
5)	L1 TOXAPHENE-5	14.15	13.72	103.2E6	60327541	98.635	94.965
	Sum TOXAPHENE-1			348.2E6	598.0E6	483.697	456.014
	Average TOXAPHENE-1					96.739	91.203

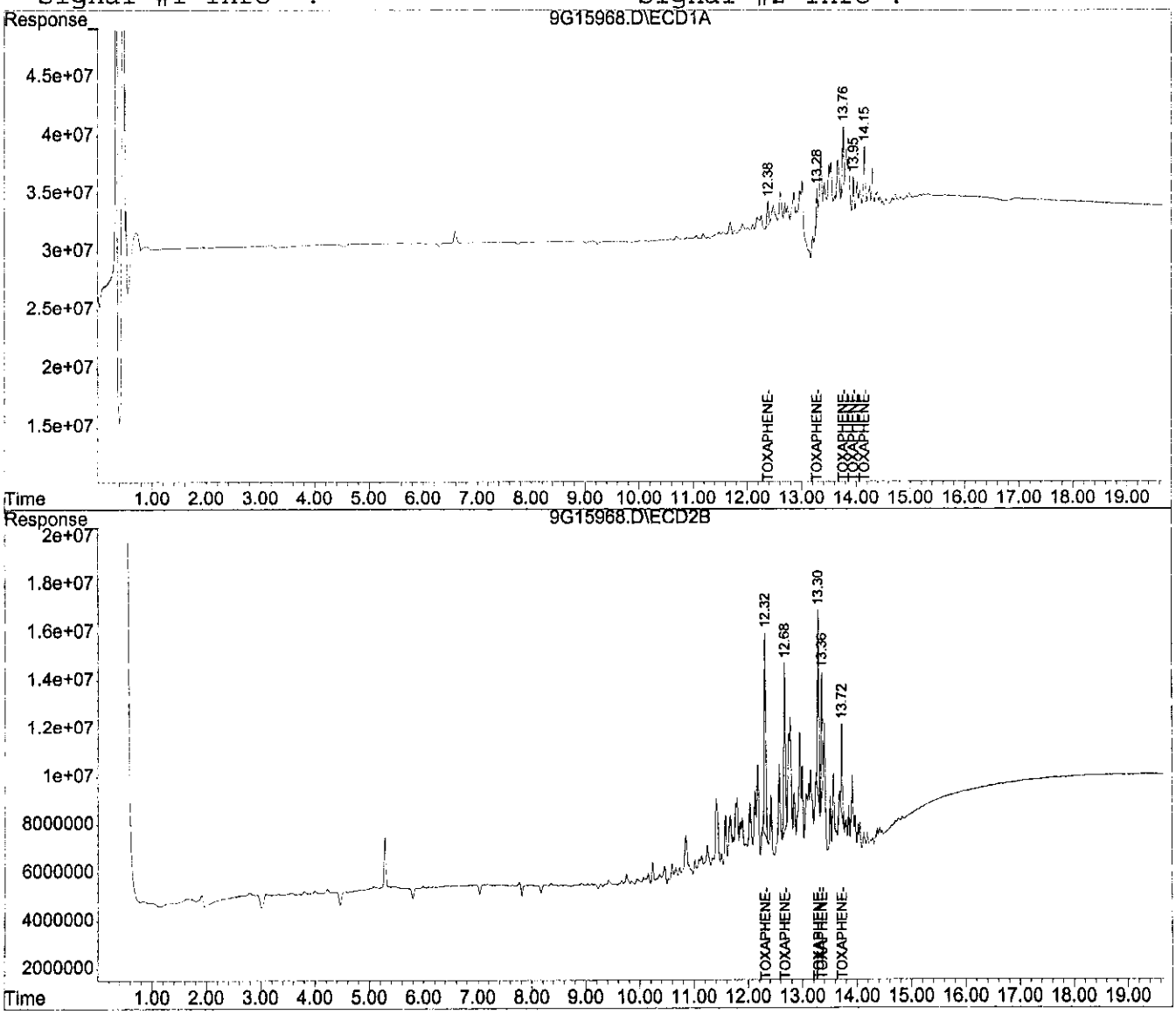
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	432.312	13.5	88	0.00
2	L1	TOXAPHENE-2	500.000	486.131	2.8	95	0.00
3	L1	TOXAPHENE-3	500.000	466.891	6.6	93	0.00
4	L1	TOXAPHENE-4	500.000	459.907	8.0	92	0.00
5	L1	TOXAPHENE-5	500.000	461.160	7.8	92	0.00
		Signal #2					
1	L1	TOXAPHENE-1	500.000	474.335	5.1	92	0.00
2	L1	TOXAPHENE-2	500.000	493.052	1.4	99	0.00
3	L1	TOXAPHENE-3	500.000	470.569	5.9	95	0.00
4	L1	TOXAPHENE-4	500.000	470.005	6.0	94	0.00
5	L1	TOXAPHENE-5	500.000	456.811	8.6	92	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.32	194.0E6	1018.6E6	432.312	474.335
2) L1 TOXAPHENE-2	13.28	12.68	241.0E6	739.5E6	486.131	493.052
3) L1 TOXAPHENE-3	13.77	13.29	505.3E6	676.8E6	466.891	470.569
4) L1 TOXAPHENE-4	13.95	13.36	232.4E6	435.1E6	459.907	470.005
5) L1 TOXAPHENE-5	14.15	13.72	482.7E6	290.2E6	461.160	456.811
Sum TOXAPHENE-1			1655.5E6	3160.2E6	2306.401	2364.773
Average TOXAPHENE-1					461.280	472.955

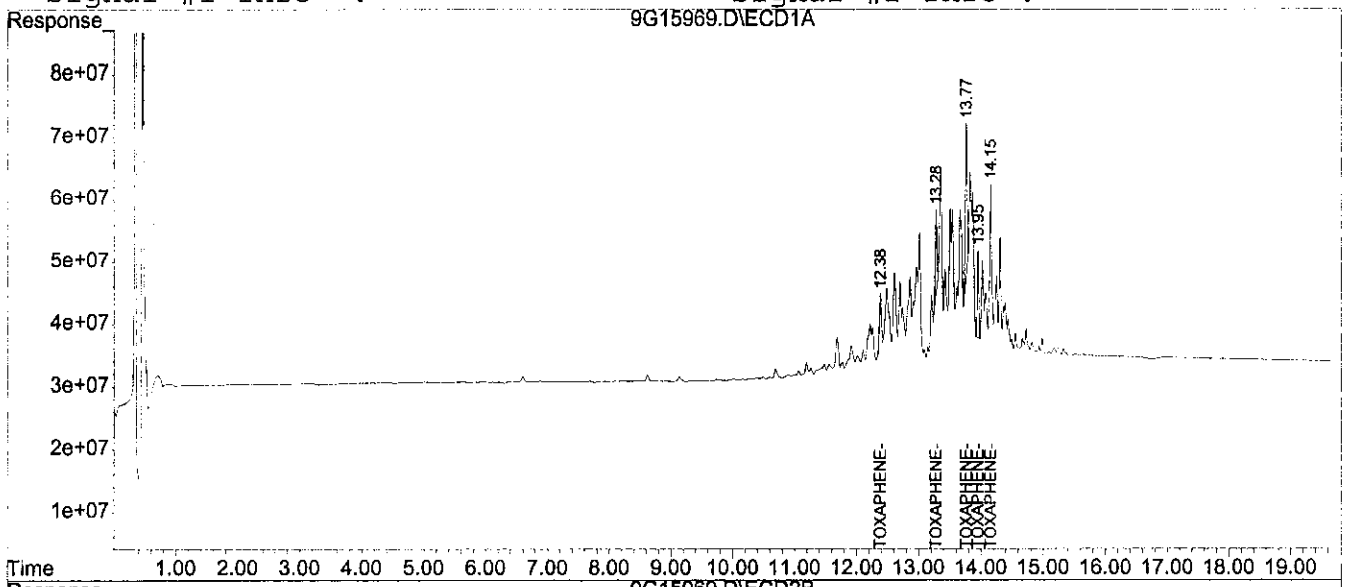
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

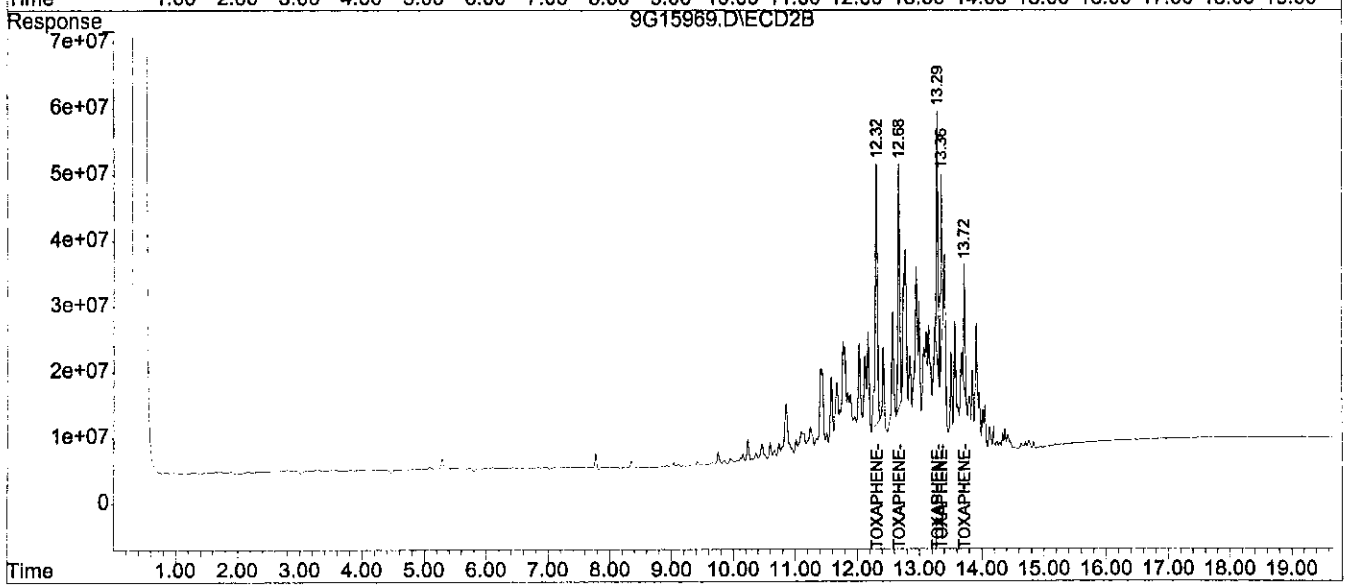
Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	7.213	7.458	7.095	6.973	6.907	6.915	7.094	E7	3.02
2)		alpha-BHC	8.716	9.743	9.467	9.668	9.785	9.914	9.549	E7	4.54
3)		gamma-BHC	8.705	8.660	8.429	8.566	8.564	8.733	8.610	E7	1.31
4)		beta-BHC	4.413	3.958	3.637	3.650	3.484	3.613	3.793	E7	9.02
5)		Heptachlor	7.951	8.169	7.831	7.736	7.613	7.495	7.799	E7	3.10
6)		delta-BHC	7.305	8.442	8.200	8.384	8.517	8.733	8.263	E7	6.06
7)		Aldrin	7.193	7.407	7.334	7.295	7.207	7.136	7.262	E7	1.39
8)		Heptachlor Epoxide	6.882	6.974	6.637	6.482	6.368	6.296	6.606	E7	4.18
9)		gamma-Chlordane	6.666	6.783	6.553	6.507	6.513	6.601	6.604	E7	1.60
10)		alpha-Chlordane	5.229	6.146	6.061	5.788	5.812	5.929	5.828	E7	5.57
11)		Endosulfan I	6.286	6.270	6.120	5.961	5.839	5.789	6.044	E7	3.54
12)		4,4'-DDE	5.708	6.027	5.765	5.923	5.968	6.063	5.909	E7	2.42
13)		Dieldrin	6.016	6.315	6.215	6.198	6.176	6.168	6.181	E7	1.57
14)		Endrin	5.578	5.642	5.527	5.645	5.582	5.612	5.598	E7	0.80
15)		4,4'-DDD	4.498	4.642	4.582	5.090	4.965	4.988	4.794	E7	5.19
16)		Endosulfan II	6.132	5.427	5.292	5.310	5.146	5.121	5.405	E7	6.91
17)		4,4'-DDT	4.660	5.284	5.427	5.258	5.099	5.149	5.146	E7	5.13
18)		Endrin Aldehyde	4.416	5.095	4.586	4.224	4.124	4.036	4.413	E7	8.81
19)		Endosulfan Sulfate	3.581	3.616	3.769	3.785	3.848	4.000	3.767	E7	4.09
20)		Methoxychlor	2.150	2.259	2.180	2.191	2.299	2.342	2.237	E7	3.37
21)		Endrin Ketone	4.839	4.812	4.858	4.804	4.787	4.903	4.834	E7	0.87
22)	S	Decachlorobiphenyl	4.626	4.357	4.177	3.903	3.745	3.762	4.095	E7	8.65

Signal #2 Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	1.099	1.091	1.057	1.035	0.991	0.996	1.045	E8	4.40
2)		alpha-BHC	1.395	1.443	1.439	1.446	1.408	1.447	1.430	E8	1.57
3)		gamma-BHC	1.205	1.260	1.252	1.254	1.221	1.251	1.241	E8	1.79
4)		beta-BHC	5.797	5.655	5.417	5.267	5.067	5.213	5.403	E7	5.14
5)		Heptachlor	1.082	1.096	1.077	1.060	1.023	1.017	1.059	E8	3.06
6)		delta-BHC	1.091	1.170	1.173	1.188	1.167	1.205	1.166	E8	3.37
7)		Aldrin	0.962	1.007	1.002	1.002	0.972	0.976	0.987	E8	1.95
8)		Heptachlor Epoxide	8.383	8.702	8.511	8.428	8.210	8.308	8.424	E7	2.03
9)		gamma-Chlordane	8.604	8.729	8.570	8.607	8.442	8.656	8.601	E7	1.11
10)		alpha-Chlordane	8.282	8.289	8.068	8.052	7.897	8.074	8.110	E7	1.86
11)		Endosulfan I	7.997	7.967	7.767	7.702	7.493	7.524	7.742	E7	2.76
12)		4,4'-DDE	7.541	7.916	7.892	8.041	7.950	8.129	7.911	E7	2.55
13)		Dieldrin	7.822	8.138	8.106	8.233	8.112	8.301	8.119	E7	2.02
14)		Endrin	6.373	6.236	6.271	6.390	6.399	6.532	6.367	E7	1.65
15)		4,4'-DDD	5.711	6.122	6.120	6.220	6.227	6.430	6.138	E7	3.88
16)		Endosulfan II	6.617	6.725	6.607	6.623	6.547	6.719	6.640	E7	1.04

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
17)		4,4'-DDT	5.358	5.680	5.748	6.154	6.123	6.457	5.920	E7	6.70
18)		Endrin Aldehyde	4.891	4.962	4.843	5.011	4.888	5.082	4.946	E7	1.81
19)		Endosulfan Sulfate	4.519	4.687	4.746	4.935	5.035	5.339	4.877	E7	5.97
20)		Methoxychlor	2.586	2.621	2.606	2.667	2.704	2.878	2.677	E7	4.02
21)		Endrin Ketone	5.645	5.886	5.840	5.987	6.005	6.266	5.938	E7	3.47
22)	S	Decachlorobiphenyl	5.401	5.227	4.861	4.791	4.713	4.839	4.972	E7	5.54

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH Vial: 8
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH Vial: 8
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	13829.5E6	19915.6E6	194.959	190.613
	Spiked Amount 20.000	Range 13 - 154		Recovery =		974.79%#	953.06%#
22)	S Decachlorobiphen	15.16	14.80	7524.4E6	9678.4E6	183.745	194.656
	Spiked Amount 20.000	Range 25 - 140		Recovery =		918.73%#	973.28%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	19827.3E6	28948.9E6	207.647	202.481
3)	gamma-BHC	9.16	8.38	17466.2E6	25023.6E6	202.868	201.717
4)	beta-BHC	9.32	8.54	7225.8E6	10425.7E6	190.527	192.978
5)	Heptachlor	9.94	9.08	14989.5E6	20337.4E6	192.196	192.005
6)	delta-BHC	9.61	9.01	17465.3E6	24102.0E6	211.357	206.739
7)	Aldrin	10.41	9.58	14272.7E6	19516.8E6	196.539	197.758
8)	Heptachlor Epoxi	11.33	10.47	12591.4E6	16615.8E6	190.594	197.249
9)	gamma-Chlordane	11.52	10.75	13202.4E6	17312.4E6	199.918	201.274
10)	alpha-Chlordane	11.71	10.97	11858.2E6	16148.7E6	203.485	199.110
11)	Endosulfan I	11.91	11.05	11577.9E6	15048.8E6	191.559	194.385
12)	4,4'-DDE	11.83	11.24	12126.7E6	16257.9E6	205.217	205.500
13)	Dieldrin	12.25	11.45	12336.7E6	16601.7E6	199.583	204.489
14)	Endrin	12.58	11.89	11224.0E6	13063.8E6	200.512	205.193
15)	4,4'-DDD	12.67	12.08	9975.2E6	12860.2E6	208.070	209.511
16)	Endosulfan II	12.87	12.20	10241.9E6	13437.1E6	189.501	202.374
17)	4,4'-DDT	13.03	12.52	10297.0E6	12913.2E6	200.092	218.125
18)	Endrin Aldehyde	13.39	12.67	8072.6E6	10163.2E6	182.909	205.486
19)	Endosulfan Sulfa	13.88	13.02	8000.1E6	10678.1E6	212.397	218.960
20)	Methoxychlor	13.61	13.37	4684.9E6	5756.7E6	209.442	215.032
21)	Endrin Ketone	14.18	13.62	9805.4E6	12531.2E6	202.859	211.034

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15970.D 8081.M Fri May 25 08:03:20 2001 Page 351

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Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH   Vial: 8
Acq On    : 24 May 2001  11:35                          Operator: ECL
Sample    : PEST ICAL 200 PPB                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH   Vial: 8
Acq On    : 24 May 2001  11:59                          Operator: ECL
Sample    : PEST ICAL 200 PPB                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 25  8:03 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
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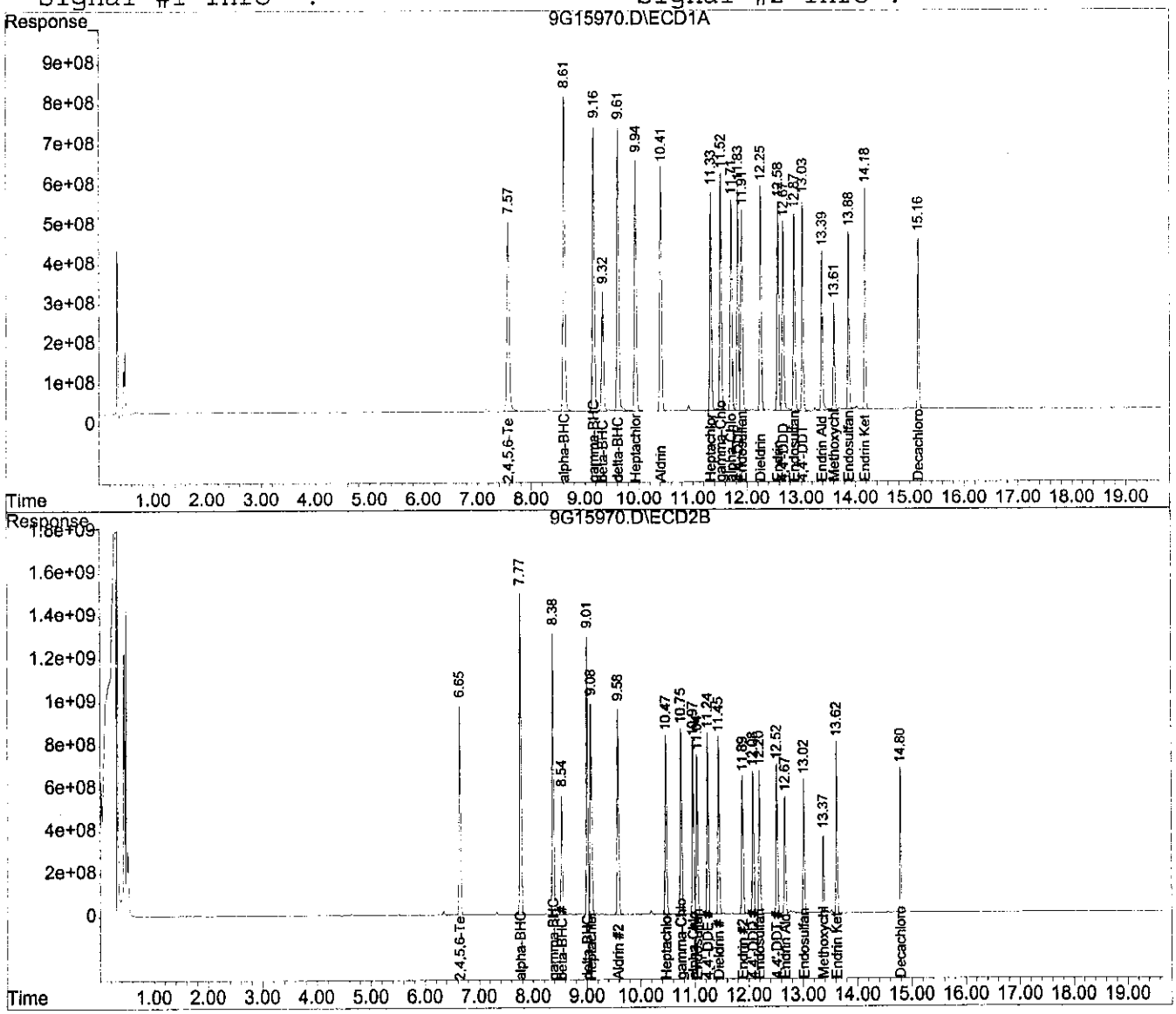


Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH Vial: 9
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH Vial: 9
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	6906.8E6	9913.0E6	97.367	94.877
	Spiked Amount 20.000	Range 13 - 154			Recovery =	486.84%#	474.38%#
22)	S Decachlorobiphen	15.16f	14.80	3744.8E6	4713.2E6	91.447	94.794
	Spiked Amount 20.000	Range 25 - 140			Recovery =	457.24%#	473.97%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	9784.5E6	14075.7E6	102.471	98.452
3)	gamma-BHC	9.16	8.38	8564.1E6	12211.1E6	99.471	98.435
4)	beta-BHC	9.32	8.54	3484.1E6	5066.9E6	91.868	93.786
5)	Heptachlor	9.94	9.08	7612.8E6	10233.4E6	97.612	96.613
6)	delta-BHC	9.61	9.01	8517.1E6	11671.5E6	103.070	100.115
7)	Aldrin	10.41	9.58	7206.9E6	9715.7E6	99.241	98.446
8)	Heptachlor Epoxi	11.33	10.47	6367.7E6	8210.3E6	96.388	97.466
9)	gamma-Chlordane	11.52	10.75	6513.3E6	8442.3E6	98.628	98.151
10)	alpha-Chlordane	11.71	10.97	5812.0E6	7897.3E6	99.733	97.372
11)	Endosulfan I	11.91	11.05	5838.9E6	7492.7E6	96.606	96.784
12)	4,4'-DDE	11.84	11.24	5968.2E6	7949.9E6	100.998	100.486
13)	Dieldrin	12.25	11.45	6175.6E6	8112.2E6	99.908	99.921
14)	Endrin	12.58	11.89	5582.4E6	6398.7E6	99.728	100.505
15)	4,4'-DDD	12.68	12.08	4965.2E6	6226.7E6	103.567	101.442
16)	Endosulfan II	12.88	12.20	5145.8E6	6546.9E6	95.211	98.602
17)	4,4'-DDT	13.03	12.52	5099.4E6	6123.4E6	99.091	103.434
18)	Endrin Aldehyde	13.39	12.67	4123.7E6	4887.8E6	93.435	98.824
19)	Endosulfan Sulfa	13.88	13.02	3848.0E6	5035.0E6	102.162	103.245
20)	Methoxychlor	13.61	13.38	2299.0E6	2704.3E6	102.778	101.013
21)	Endrin Ketone	14.18	13.62	4787.4E6	6004.6E6	99.043	101.122

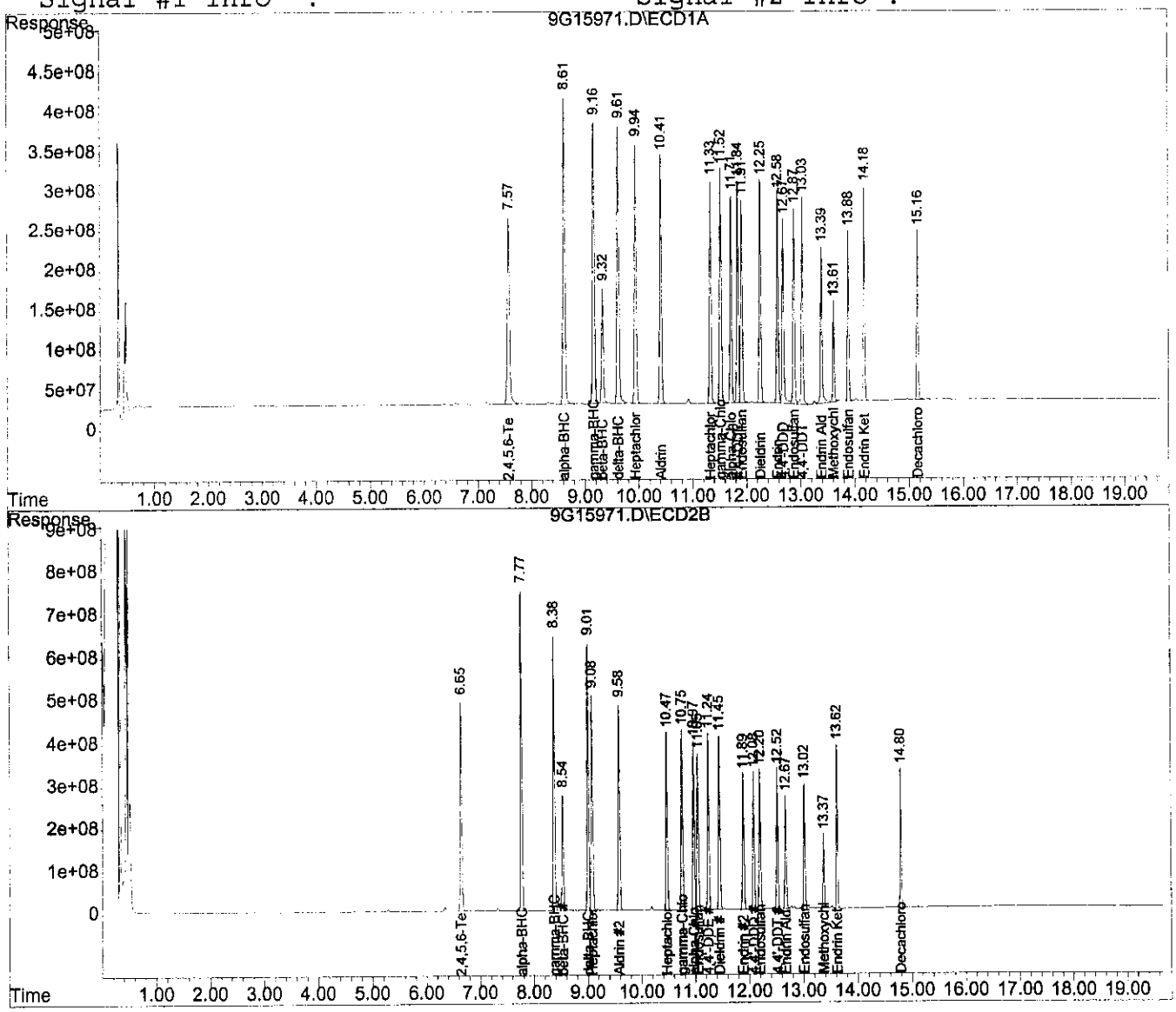
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15971.D 8081.M Fri May 25 08:03:41 2001 Page 353

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH Vial: 9
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH Vial: 9
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	3486.5E6	5173.6E6	49.151	49.517
	Spiked Amount 20.000	Range 13 - 154		Recovery =		245.76%#	247.59%#
22)	S Decachlorobiphen	15.16f	14.79	1951.4E6	2395.4E6	47.653	48.178
	Spiked Amount 20.000	Range 25 - 140		Recovery =		238.26%#	240.89%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4833.9E6	7229.7E6	50.624	50.568
3)	gamma-BHC	9.16	8.38	4282.8E6	6269.9E6	49.744	50.542
4)	beta-BHC	9.33	8.54	1824.9E6	2633.7E6	48.119	48.749
5)	Heptachlor	9.94	9.08	3867.8E6	5300.1E6	49.593	50.038
6)	delta-BHC	9.62	9.01	4192.2E6	5940.9E6	50.732	50.960
7)	Aldrin	10.41	9.58	3647.3E6	5010.3E6	50.224	50.767
8)	Heptachlor Epoxi	11.33	10.47	3240.8E6	4214.2E6	49.056	50.027
9)	gamma-Chlordane	11.52	10.75	3253.7E6	4303.3E6	49.269	50.031
10)	alpha-Chlordane	11.71	10.97	2894.1E6	4025.8E6	49.663	49.638
11)	Endosulfan I	11.91	11.04	2980.4E6	3851.0E6	49.312	49.743
12)	4,4'-DDE	11.84	11.24	2961.6E6	4020.4E6	50.119	50.818
13)	Dieldrin	12.26	11.45	3098.8E6	4116.4E6	50.132	50.703
14)	Endrin	12.58	11.88	2822.3E6	3195.0E6	50.420	50.183
15)	4,4'-DDD	12.68	12.08	2545.0E6	3109.8E6	53.086	50.663
16)	Endosulfan II	12.88	12.20	2655.1E6	3311.7E6	49.125	49.877
17)	4,4'-DDT	13.03	12.52	2629.0E6	3077.2E6	51.086	51.979
18)	Endrin Aldehyde	13.39	12.67	2111.8E6	2505.3E6	47.850	50.654
19)	Endosulfan Sulfa	13.88	13.02	1892.4E6	2467.5E6	50.243	50.597
20)	Methoxychlor	13.61	13.37	1095.6E6	1333.6E6	48.981	49.813
21)	Endrin Ketone	14.18	13.62	2401.8E6	2993.6E6	49.689	50.414

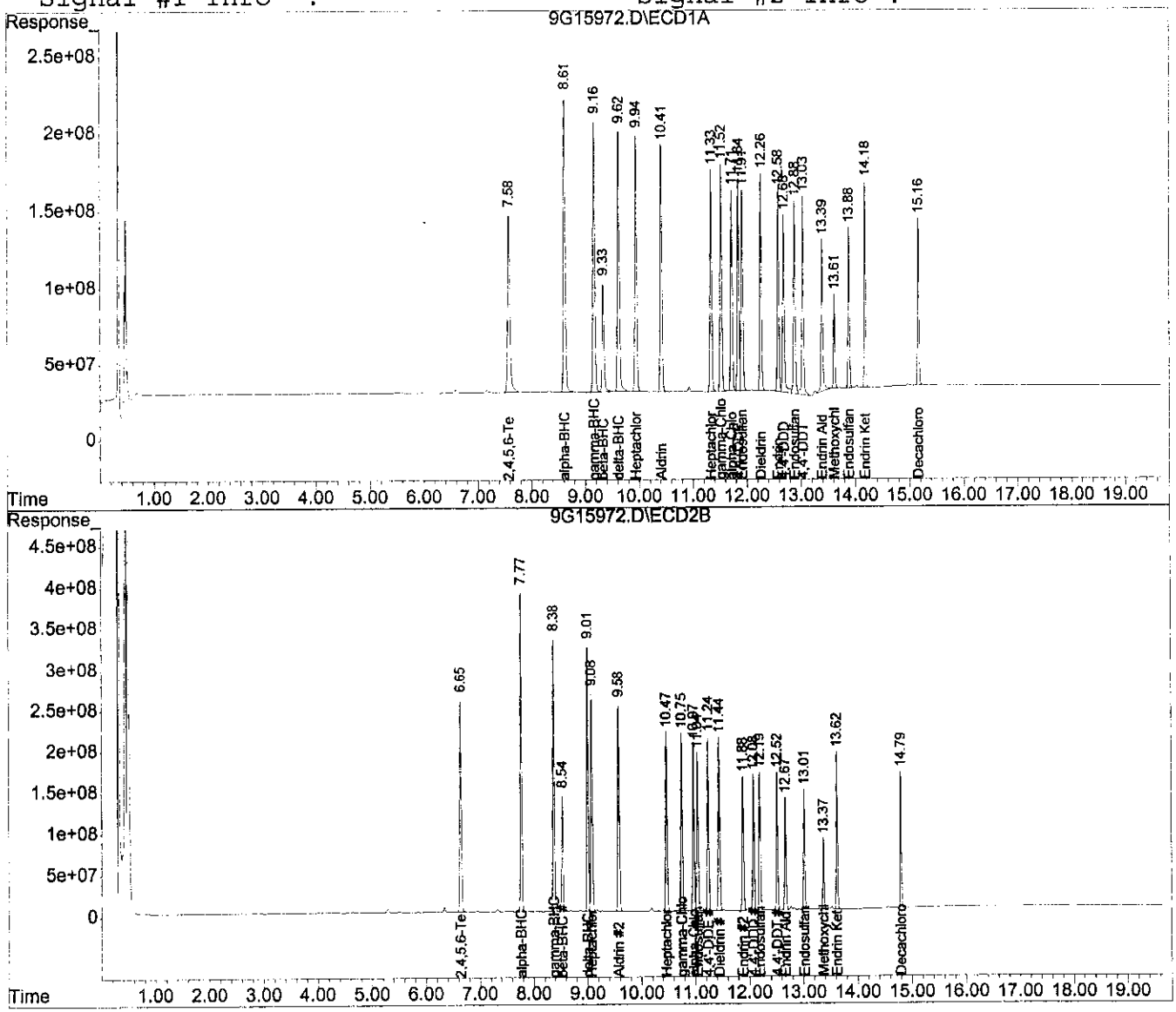
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH Vial: 11
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH Vial: 11
Acq On : 24 May 2001 13:12 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.64	1419.0E6	2114.2E6	20.004	20.235
	Spiked Amount 20.000	Range 13 - 154		Recovery =		100.02%	101.18%
22)	S Decachlorobiphen	15.16	14.79	835.4E6	972.2E6	20.400	19.554
	Spiked Amount 20.000	Range 25 - 140		Recovery =		102.00%	97.77%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1893.4E6	2877.4E6	19.829	20.125
3)	gamma-BHC	9.16	8.38	1685.9E6	2503.4E6	19.581	20.180
4)	beta-BHC	9.32	8.53	727.4E6	1083.4E6	19.181	20.053
5)	Heptachlor	9.93	9.08	1566.3E6	2154.2E6	20.083	20.338
6)	delta-BHC	9.61	9.00	1639.9E6	2346.7E6	19.845	20.129
7)	Aldrin	10.40	9.58	1466.9E6	2004.6E6	20.199	20.312
8)	Heptachlor Epoxi	11.33	10.47	1327.3E6	1702.2E6	20.091	20.207
9)	gamma-Chlordane	11.51	10.75	1310.5E6	1714.0E6	19.844	19.927
10)	alpha-Chlordane	11.71	10.97	1212.3E6	1613.6E6	20.802	19.896
11)	Endosulfan I	11.90	11.04	1223.9E6	1553.4E6	20.250	20.065
12)	4,4'-DDE	11.83	11.24	1152.9E6	1578.5E6	19.511	19.952
13)	Dieldrin	12.25	11.44	1243.1E6	1621.3E6	20.110	19.970
14)	Endrin	12.57	11.88	1105.5E6	1254.1E6	19.749	19.699
15)	4,4'-DDD	12.67	12.08	916.3E6	1224.0E6	19.113	19.941
16)	Endosulfan II	12.87	12.19	1058.4E6	1321.5E6	19.584	19.903
17)	4,4'-DDT	13.03	12.52	1085.4E6	1149.7E6	21.091	19.420
18)	Endrin Aldehyde	13.38	12.67	917.2E6	968.5E6	20.782	19.582
19)	Endosulfan Sulfa	13.87	13.01	753.9E6	949.1E6	20.015	19.462
20)	Methoxychlor	13.61	13.37	435.9E6	521.1E6	19.488	19.467
21)	Endrin Ketone	14.17	13.62	971.5E6	1168.0E6	20.100	19.670

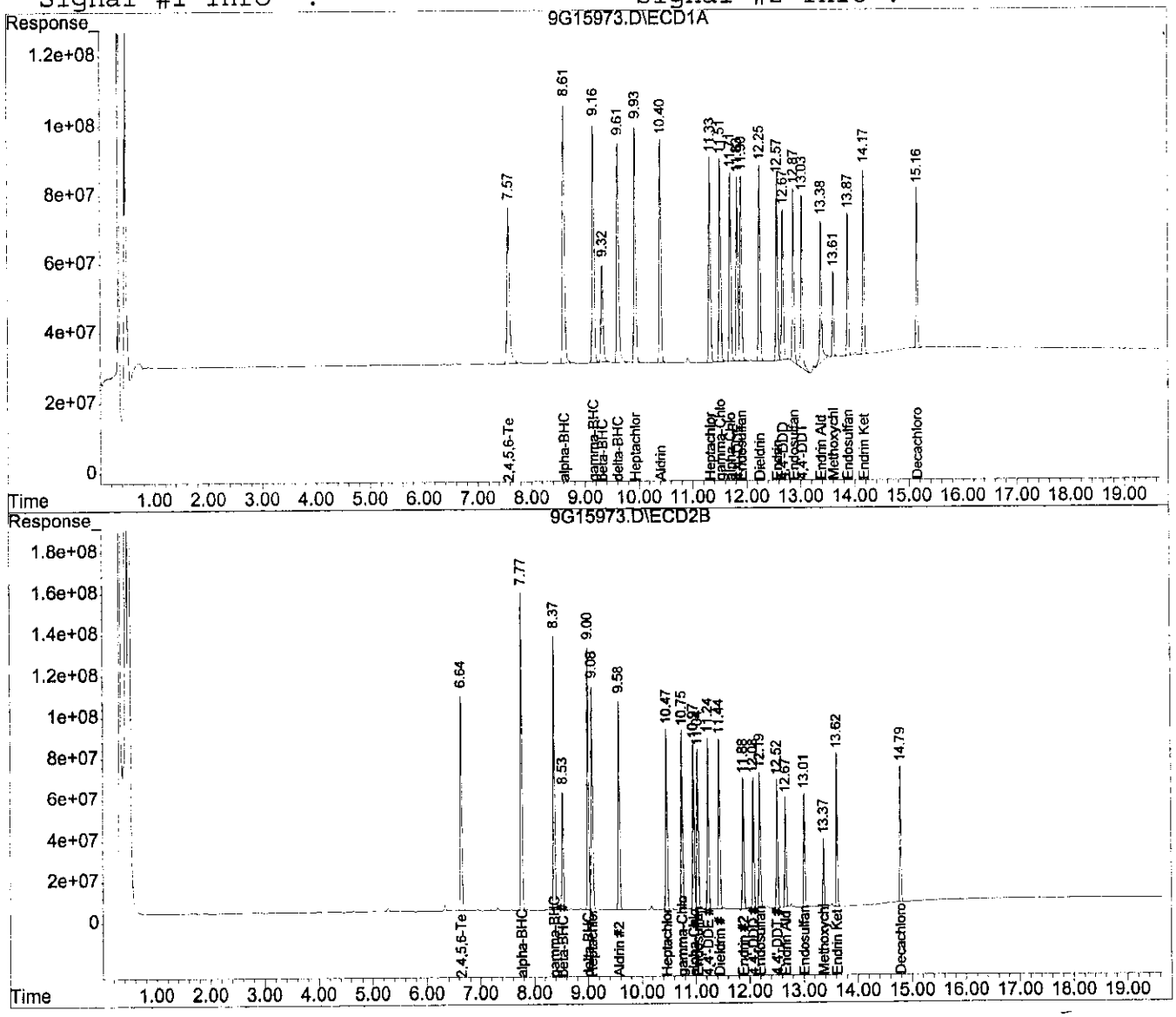
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH Vial: 11
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH Vial: 11
Acq On : 24 May 2001 13:12 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	745.8E6	1091.4E6	10.514	10.446
	Spiked Amount 20.000	Range 13 - 154		Recovery =		52.57%	52.23%
22)	S Decachlorobiphen	15.15	14.79	435.7E6	522.7E6	10.640	10.513
	Spiked Amount 20.000	Range 25 - 140		Recovery =		53.20%	52.56%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	974.3E6	1443.2E6	10.203	10.094
3)	gamma-BHC	9.16	8.38	866.0E6	1260.3E6	10.059	10.159
4)	beta-BHC	9.32	8.54	395.8E6	565.5E6	10.435	10.467
5)	Heptachlor	9.94	9.08	816.9E6	1095.7E6	10.474	10.345
6)	delta-BHC	9.61	9.01	844.2E6	1170.0E6	10.216	10.036
7)	Aldrin	10.41	9.58	740.7E6	1007.3E6	10.199	10.207
8)	Heptachlor Epoxi	11.33	10.47	697.4E6	870.2E6	10.557	10.330
9)	gamma-Chlordane	11.51	10.75	678.3E6	872.9E6	10.271	10.148
10)	alpha-Chlordane	11.71	10.97	614.6E6	828.9E6	10.546	10.220
11)	Endosulfan I	11.90	11.04	627.0E6	796.7E6	10.373	10.292
12)	4,4'-DDE	11.83	11.24	602.7E6	791.6E6	10.200	10.005
13)	Dieldrin	12.25	11.44	631.5E6	813.8E6	10.217	10.024
14)	Endrin	12.57	11.88	564.2E6	623.6E6	10.079	9.794
15)	4,4'-DDD	12.67	12.07	464.2E6	612.2E6	9.683	9.974
16)	Endosulfan II	12.87	12.19	542.7E6	672.5E6	10.042	10.129
17)	4,4'-DDT	13.02	12.51	528.4E6	568.0E6	10.267	9.594
18)	Endrin Aldehyde	13.38	12.66	509.5E6	496.2E6	11.544	10.032
19)	Endosulfan Sulfa	13.87	13.01	361.6E6	468.7E6	9.602	9.611
20)	Methoxychlor	13.60	13.37	225.9E6	262.1E6	10.098	9.791
21)	Endrin Ketone	14.17	13.62	481.2E6	588.6E6	9.955	9.912

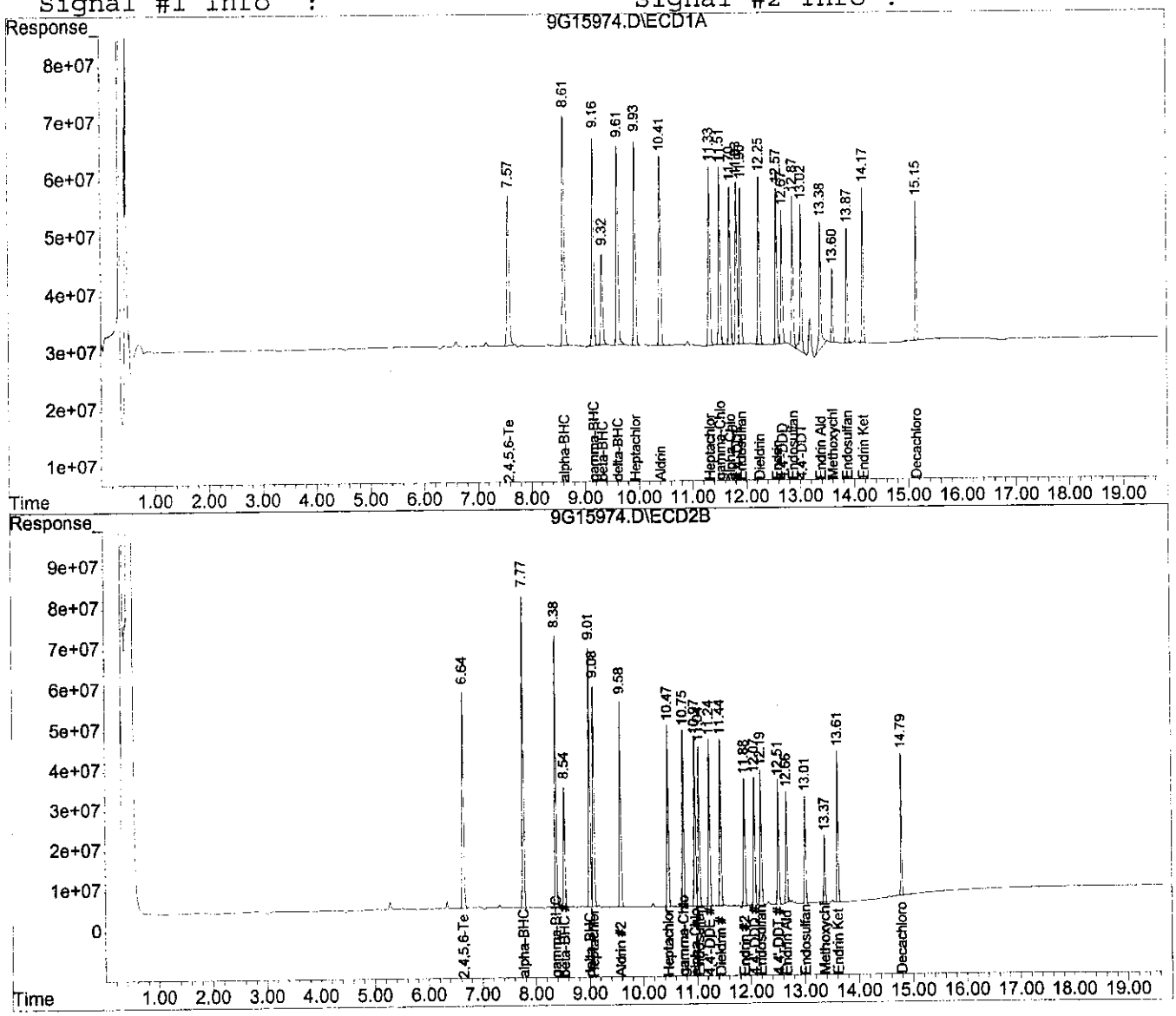
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	288.5E6	439.5E6	4.105	4.250
	Spiked Amount 20.000	Range 13 - 154		Recovery =		20.53%	21.25%
22)	S Decachlorobiphen	15.15	14.79	185.0E6	216.0E6	4.550	4.367
	Spiked Amount 20.000	Range 25 - 140		Recovery =		22.75%#	21.83%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	348.6E6	558.2E6	3.678	3.946
3)	gamma-BHC	9.16	8.38	348.2E6	482.0E6	4.097	3.925
4)	beta-BHC	9.32	8.54	176.5E6	231.9E6	4.754	4.345
5)	Heptachlor	9.94	9.08	318.0E6	432.9E6	4.149	4.114
6)	delta-BHC	9.61	9.01	292.2E6	436.4E6	3.576	3.802
7)	Aldrin	10.41	9.58	287.7E6	384.9E6	4.003	3.929
8)	Heptachlor Epoxi	11.33	10.47	275.3E6	335.3E6	4.204	4.013
9)	gamma-Chlordane	11.51	10.75	266.7E6	344.2E6	4.089	4.028
10)	alpha-Chlordane	11.70	10.97	209.2E6	331.3E6	3.647	4.123
11)	Endosulfan I	11.90	11.05	251.5E6	319.9E6	4.218	4.174
12)	4,4'-DDE	11.83	11.24	228.3E6	301.6E6	3.905	3.829
13)	Dieldrin	12.25	11.45	240.6E6	312.9E6	3.935	3.888
14)	Endrin	12.57	11.89	223.1E6	254.9E6	4.085	4.020
15)	4,4'-DDD	12.67	12.08	179.9E6	228.4E6	3.800	3.758
16)	Endosulfan II	12.87	12.20	245.3E6	264.7E6	4.588	4.034
17)	4,4'-DDT	13.02	12.52	186.4E6	214.3E6	3.590	3.642
18)	Endrin Aldehyde	13.38	12.67	176.6E6	195.6E6	4.102	3.984
19)	Endosulfan Sulfa	13.87	13.02	143.2E6	180.7E6	4.107	3.939
20)	Methoxychlor	13.60	13.37	85998587	103.4E6	4.017	3.936
21)	Endrin Ketone	14.17	13.62	193.5E6	225.8E6	4.037	3.859

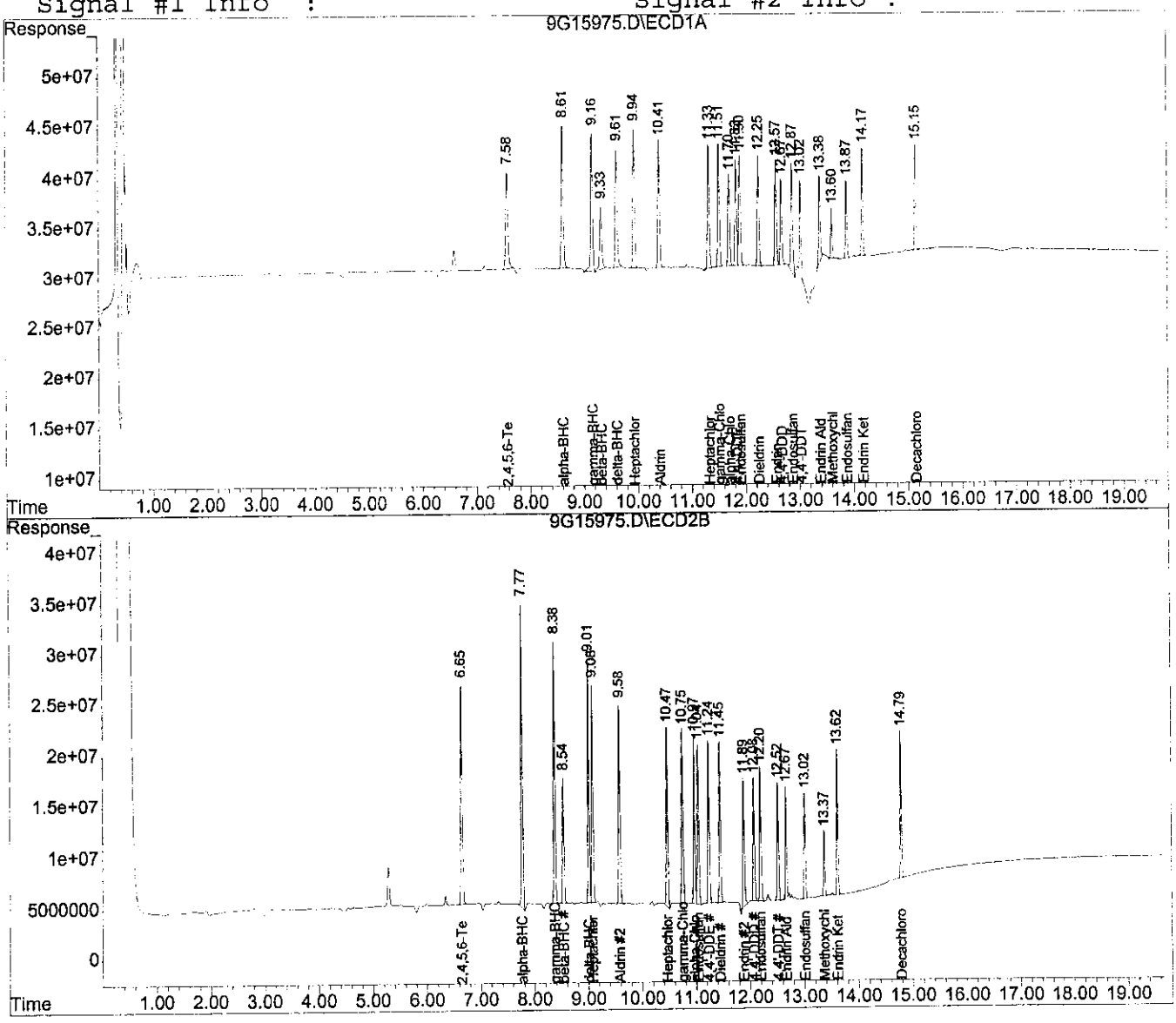
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	alpha-BHC	20.000	19.686	1.6	99	0.00
3	gamma-BHC	20.000	19.885	0.6	102	0.00
4	beta-BHC	20.000	19.710	1.4	103	0.00
5	Heptachlor	20.000	19.975	0.1	99	0.00
6	delta-BHC	20.000	19.639	1.8	99	0.00
7	Aldrin	20.000	20.072	-0.4	99	0.00
8	Heptachlor Epoxide	20.000	19.788	1.1	98	0.00
9	gamma-Chlordane	20.000	19.744	1.3	99	0.00
10	alpha-Chlordane	20.000	19.695	1.5	95	0.00
11	Endosulfan I	20.000	19.677	1.6	97	0.00
12	4,4'-DDE	20.000	19.699	1.5	101	0.00
13	Dieldrin	20.000	19.830	0.9	99	0.00
14	Endrin	20.000	18.901	5.5	96	0.00
15	4,4'-DDD	20.000	19.068	4.7	100	0.00
16	Endosulfan II	20.000	19.349	3.3	99	0.00
17	4,4'-DDT	20.000	21.513	-7.6	102	0.00
18	Endrin Aldehyde	20.000	19.676	1.6	95	0.00
19	Endosulfan Sulfate	20.000	18.415	7.9	92	0.00
20	Methoxychlor	20.000	19.600	2.0	101	0.00
21	Endrin Ketone	20.000	19.546	2.3	97	0.00
	Signal #2					
2	alpha-BHC	20.000	19.799	1.0	98	0.00
3	gamma-BHC	20.000	19.907	0.5	99	0.00
4	beta-BHC	20.000	19.766	1.2	99	0.00
5	Heptachlor	20.000	19.885	0.6	98	0.00
6	delta-BHC	20.000	19.765	1.2	98	0.00
7	Aldrin	20.000	20.131	-0.7	99	0.00
8	Heptachlor Epoxide	20.000	19.569	2.2	97	0.00
9	gamma-Chlordane	20.000	19.791	1.0	99	0.00
10	alpha-Chlordane	20.000	19.758	1.2	99	0.00
11	Endosulfan I	20.000	19.754	1.2	98	0.00
12	4,4'-DDE	20.000	19.779	1.1	99	0.00
13	Dieldrin	20.000	19.886	0.6	100	0.00

(#) = Out of Range
9G15976.D 8081.M Fri May 25 08:07:18 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
14	Endrin	20.000	18.799	6.0	95	0.00
15	4,4'-DDD	20.000	20.133	-0.7	101	0.00
16	Endosulfan II	20.000	19.832	0.8	100	0.00
17	4,4'-DDT	20.000	20.017	-0.1	103	0.00
18	Endrin Aldehyde	20.000	19.404	3.0	99	0.00
19	Endosulfan Sulfate	20.000	19.016	4.9	98	0.00
20	Methoxychlor	20.000	19.513	2.4	100	0.00
21	Endrin Ketone	20.000	19.588	2.1	100	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1879.7E6	2830.7E6	19.686	19.799
3)	gamma-BHC	9.16	8.38	1712.0E6	2469.5E6	19.885	19.907
4)	beta-BHC	9.33	8.54	747.5E6	1067.9E6	19.710	19.766
5)	Heptachlor	9.94	9.08	1557.9E6	2106.3E6	19.975	19.885
6)	delta-BHC	9.62	9.01	1622.9E6	2304.3E6	19.639	19.765
7)	Aldrin	10.41	9.58	1457.6E6	1986.7E6	20.072	20.131
8)	Heptachlor Epoxi	11.33	10.47	1307.3E6	1648.4E6	19.788	19.569
9)	gamma-Chlordane	11.52	10.75	1303.9E6	1702.3E6	19.744	19.791
10)	alpha-Chlordane	11.71	10.97	1147.8E6	1602.4E6	19.695	19.758
11)	Endosulfan I	11.91	11.04	1189.3E6	1529.3E6	19.677	19.754
12)	4,4'-DDE	11.83	11.24	1164.0E6	1564.8E6	19.699	19.779
13)	Dieldrin	12.25	11.45	1225.8E6	1614.4E6	19.830	19.886
14)	Endrin	12.57	11.89	1058.0E6	1196.8E6	18.901	18.799
15)	4,4'-DDD	12.67	12.08	914.1E6	1235.8E6	19.068	20.133
16)	Endosulfan II	12.87	12.20	1045.8E6	1316.8E6	19.349	19.832
17)	4,4'-DDT	13.03	12.52	1107.1E6	1185.0E6	21.513	20.017
18)	Endrin Aldehyde	13.38	12.67	868.4E6	959.7E6	19.676	19.404
19)	Endosulfan Sulfa	13.88	13.01	693.6E6	927.3E6	18.415	19.016
20)	Methoxychlor	13.61	13.37	438.4E6	522.4E6	19.600	19.513
21)	Endrin Ketone	14.17	13.62	944.8E6	1163.1E6	19.546	19.588

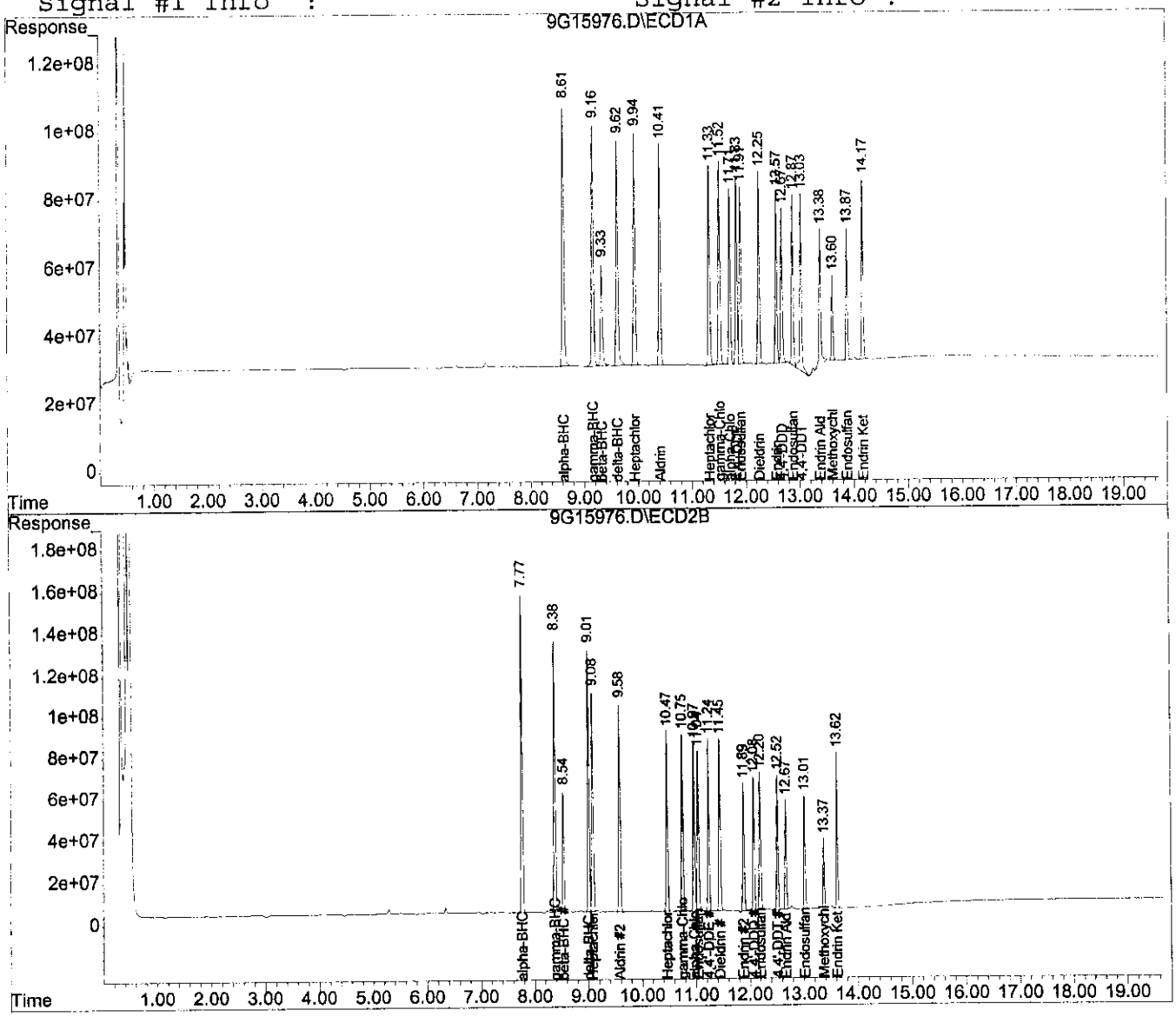
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15976.D 8081.M Fri May 25 08:07:25 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD1A.CH Vial: 15
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD2B.CH Vial: 15
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	50.000	50.631	-1.3	103	0.00
2		alpha-BHC	50.000	51.786	-3.6	102	-0.01#
3		gamma-BHC	50.000	51.094	-2.2	103	-0.01#
4		beta-BHC	50.000	48.966	2.1	102	-0.01#
5		Heptachlor	50.000	50.796	-1.6	102	0.00
6		delta-BHC	50.000	51.960	-3.9	102	-0.01#
7		Aldrin	50.000	50.848	-1.7	101	-0.01#
8		Heptachlor Epoxide	50.000	49.441	1.1	101	-0.01#
9		gamma-Chlordane	50.000	49.960	0.1	101	-0.01#
10		alpha-Chlordane	50.000	52.360	-4.7	105	0.00
11		Endosulfan I	50.000	49.490	1.0	100	-0.01#
12		4,4'-DDE	50.000	51.250	-2.5	102	-0.01#
13		Dieldrin	50.000	50.807	-1.6	101	-0.01#
14		Endrin	50.000	50.290	-0.6	100	0.00
15		4,4'-DDD	50.000	50.354	-0.7	95	0.00
16		Endosulfan II	50.000	47.043	5.9	96	0.00
17		4,4'-DDT	50.000	46.228	7.5	90	0.00
18		Endrin Aldehyde	50.000	44.200	11.6	92	0.00
19		Endosulfan Sulfate	50.000	54.106	-8.2	108	0.00
20		Methoxychlor	50.000	49.229	1.5	101	0.00
21		Endrin Ketone	50.000	50.495	-1.0	102	0.00
22	S	Decachlorobiphenyl	50.000	47.290	5.4	99	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	50.000	48.153	3.7	97	0.00
2		alpha-BHC	50.000	48.234	3.5	95	0.00
3		gamma-BHC	50.000	47.403	5.2	94	0.00
4		beta-BHC	50.000	45.681	8.6	94	0.00
5		Heptachlor	50.000	47.432	5.1	95	0.00
6		delta-BHC	50.000	47.549	4.9	93	0.00
7		Aldrin	50.000	47.693	4.6	94	0.00
8		Heptachlor Epoxide	50.000	47.152	5.7	94	0.00
9		gamma-Chlordane	50.000	46.828	6.3	94	0.00
10		alpha-Chlordane	50.000	46.409	7.2	93	0.00

(#) = Out of Range
9G16269.D 8081.M Mon Jun 18 11:05:36 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD1A.CH Vial: 15
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD2B.CH Vial: 15
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	50.000	46.530	6.9	94	0.00
12		4,4'-DDE	50.000	47.443	5.1	93	0.00
13		Dieldrin	50.000	47.370	5.3	93	0.00
14		Endrin	50.000	46.309	7.4	92	-0.01#
15		4,4'-DDD	50.000	48.843	2.3	96	0.00
16		Endosulfan II	50.000	46.879	6.2	94	0.00
17		4,4'-DDT	50.000	46.123	7.8	89	0.00
18		Endrin Aldehyde	50.000	47.737	4.5	94	0.00
19		Endosulfan Sulfate	50.000	49.899	0.2	99	0.00
20		Methoxychlor	50.000	49.109	1.8	99	0.00
21		Endrin Ketone	50.000	48.356	3.3	96	0.00
22	S	Decachlorobiphenyl	50.000	45.278	9.4	94	0.00

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD1A.CH Vial: 15
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD2B.CH Vial: 15
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.55f	6.63	3591.5E6	5031.1E6	50.631	48.153
	Spiked Amount 20.000	Range 13 - 154		Recovery =		253.16%#	240.76%#
22)	S Decachlorobiphen	15.13	14.78	1936.5E6	2251.2E6	47.290	45.278
	Spiked Amount 20.000	Range 25 - 140		Recovery =		236.45%#	226.39%#
	Target Compounds						
2)	alpha-BHC	8.59f	7.75	4944.9E6	6896.1E6	51.786	48.234
3)	gamma-BHC	9.13f	8.36	4399.0E6	5880.5E6	51.094	47.403
4)	beta-BHC	9.30f	8.52	1857.0E6	2467.9E6	48.966	45.681
5)	Heptachlor	9.91f	9.06	3961.6E6	5024.1E6	50.796	47.432
6)	delta-BHC	9.59f	8.99	4293.6E6	5543.4E6	51.960	47.549
7)	Aldrin	10.38f	9.56	3692.6E6	4706.9E6	50.848	47.693
8)	Heptachlor Epoxi	11.30f	10.45	3266.3E6	3972.0E6	49.441	47.152
9)	gamma-Chlordane	11.49	10.73	3299.3E6	4027.8E6	49.960	46.828
10)	alpha-Chlordane	11.68f	10.95f	3051.3E6	3764.0E6	52.360	46.409
11)	Endosulfan I	11.88	11.02	2991.2E6	3602.3E6	49.490	46.530
12)	4,4'-DDE	11.81f	11.22	3028.5E6	3753.4E6	51.250	47.443
13)	Dieldrin	12.22f	11.42f	3140.5E6	3845.8E6	50.807	47.370
14)	Endrin	12.55	11.86	2815.1E6	2948.3E6	50.290	46.309
15)	4,4'-DDD	12.65	12.05	2414.1E6	2998.0E6	50.354	48.843
16)	Endosulfan II	12.85	12.17f	2542.5E6	3112.7E6	47.043	46.879
17)	4,4'-DDT	13.00	12.50	2378.9E6	2730.5E6	46.228	46.123
18)	Endrin Aldehyde	13.36	12.65	1950.8E6	2361.0E6	44.200	47.737
19)	Endosulfan Sulfa	13.85	12.99	2037.9E6	2433.5E6	54.106	49.899
20)	Methoxychlor	13.58	13.35	1101.2E6	1314.7E6	49.229	49.109
21)	Endrin Ketone	14.15	13.60	2440.7E6	2871.4E6	50.495	48.356

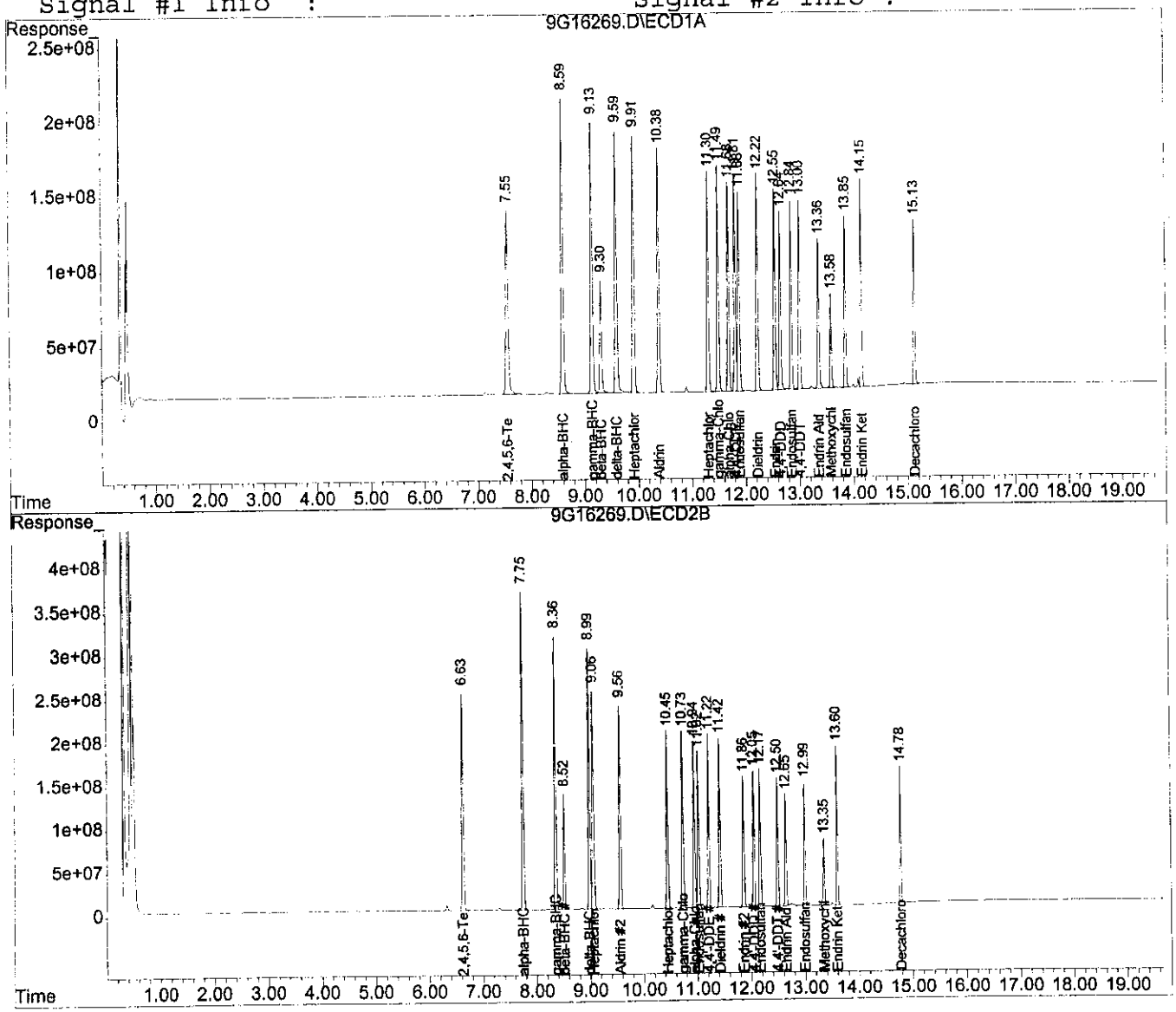
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD1A.CH Vial: 15
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16269.D\ECD2B.CH Vial: 15
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD1A.CH Vial: 16
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD2B.CH Vial: 16
Acq On : 15 Jun 2001 21:01 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	250.000	240.404	3.8	101	-0.01
2	L1	TOXAPHENE-2	250.000	251.329	-0.5	105	-0.01
3	L1	TOXAPHENE-3	250.000	242.765	2.9	100	0.00
4	L1	TOXAPHENE-4	250.000	237.382	5.0	100	0.00
5	L1	TOXAPHENE-5	250.000	217.437	13.0	90	0.00
		Signal #2					
1	L1	TOXAPHENE-1	250.000	230.109	8.0	91	-0.01
2	L1	TOXAPHENE-2	250.000	218.685	12.5	92	-0.01
3	L1	TOXAPHENE-3	250.000	208.476	16.6#	88	0.00
4	L1	TOXAPHENE-4	250.000	224.672	10.1	96	0.00
5	L1	TOXAPHENE-5	250.000	218.442	12.6	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G16270.D TOX.M Mon Jun 18 10:29:36 2001 Page 1
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Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD1A.CH Vial: 16
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD2B.CH Vial: 16
Acq On : 15 Jun 2001 21:01 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 10:29 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.35	12.29	107.9E6	494.1E6	240.404	230.109
2)	L1 TOXAPHENE-2	13.25	12.65	124.6E6	328.0E6	251.329	218.685
3)	L1 TOXAPHENE-3	13.74	13.27	262.7E6	299.8E6	242.765	208.476
4)	L1 TOXAPHENE-4	13.93	13.34	120.0E6	208.0E6	237.382	224.672
5)	L1 TOXAPHENE-5	14.13	13.70	227.6E6	138.8E6	217.437	218.442
	Sum TOXAPHENE-1			842.8E6	1468.7E6	1189.317	1100.384
Average	TOXAPHENE-1					237.863	220.077

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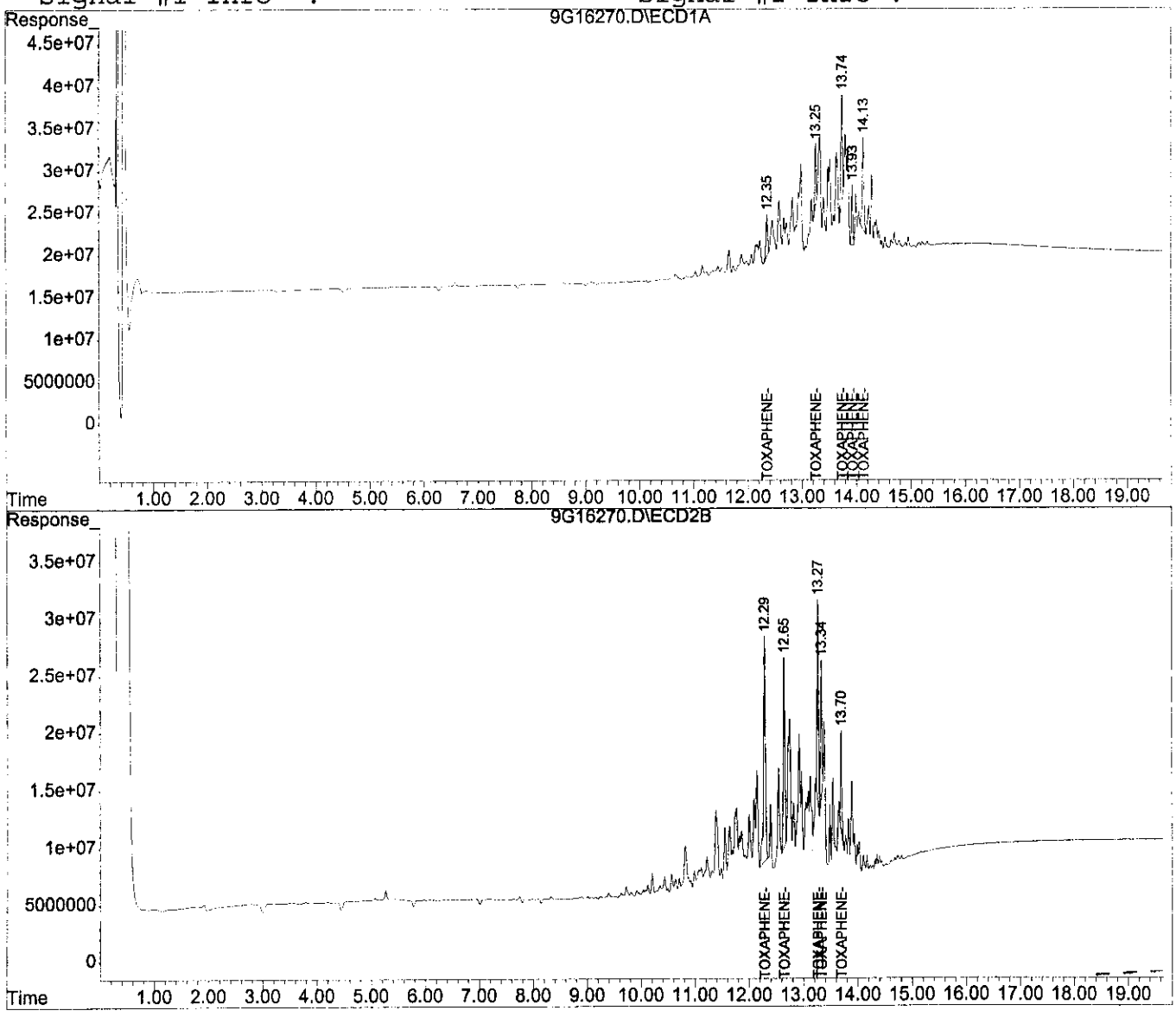
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16270.D TOX.M Mon Jun 18 10:29:40 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD1A.CH Vial: 16
Acq On : 15 Jun 2001 20:37 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16270.D\ECD2B.CH Vial: 16
Acq On : 15 Jun 2001 21:01 Operator: SMW
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 10:29 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD1A.CH Vial: 26
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD2B.CH Vial: 26
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	20.000	20.914	-4.6	105	-0.01#
2		alpha-BHC	20.000	20.487	-2.4	103	-0.01#
3		gamma-BHC	20.000	20.241	-1.2	103	-0.01#
4		beta-BHC	20.000	19.678	1.6	103	-0.01#
5		Heptachlor	20.000	20.468	-2.3	102	0.00
6		delta-BHC	20.000	20.637	-3.2	104	-0.01#
7		Aldrin	20.000	20.522	-2.6	102	-0.01#
8		Heptachlor Epoxide	20.000	20.372	-1.9	101	0.00
9		gamma-Chlordane	20.000	20.089	-0.4	101	0.00
10		alpha-Chlordane	20.000	20.667	-3.3	99	0.00
11		Endosulfan I	20.000	20.255	-1.3	100	0.00
12		4,4'-DDE	20.000	20.379	-1.9	104	0.00
13		Dieldrin	20.000	20.379	-1.9	101	0.00
14		Endrin	20.000	20.355	-1.8	103	0.00
15		4,4'-DDD	20.000	19.846	0.8	104	0.00
16		Endosulfan II	20.000	19.508	2.5	100	0.00
17		4,4'-DDT	20.000	18.684	6.6	89	0.00
18		Endrin Aldehyde	20.000	18.398	8.0	89	0.00
19		Endosulfan Sulfate	20.000	22.696	-13.5	113	0.00
20		Methoxychlor	20.000	20.381	-1.9	105	0.00
21		Endrin Ketone	20.000	20.718	-3.6	103	0.00
22	S	Decachlorobiphenyl	20.000	20.158	-0.8	99	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	20.000	20.840	-4.2	103	0.00
2		alpha-BHC	20.000	20.309	-1.5	101	0.00
3		gamma-BHC	20.000	20.044	-0.2	99	0.00
4		beta-BHC	20.000	19.795	1.0	99	0.00
5		Heptachlor	20.000	19.930	0.4	98	-0.01#
6		delta-BHC	20.000	20.115	-0.6	100	0.00
7		Aldrin	20.000	20.047	-0.2	99	-0.01#
8		Heptachlor Epoxide	20.000	19.709	1.5	98	-0.01#
9		gamma-Chlordane	20.000	19.722	1.4	99	-0.01#
10		alpha-Chlordane	20.000	19.701	1.5	99	-0.01#

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(#) = Out of Range
9G16280.D 8081.M Mon Jun 18 11:07:40 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD1A.CH Vial: 26
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD2B.CH Vial: 26
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	20.000	19.824	0.9	99	-0.01#
12		4,4'-DDE	20.000	19.697	1.5	99	-0.01#
13		Dieldrin	20.000	19.744	1.3	99	-0.01#
14		Endrin	20.000	19.696	1.5	100	-0.01#
15		4,4'-DDD	20.000	20.343	-1.7	102	-0.01#
16		Endosulfan II	20.000	19.732	1.3	99	-0.01#
17		4,4'-DDT	20.000	18.457	7.7	95	-0.01#
18		Endrin Aldehyde	20.000	19.586	2.1	100	-0.01#
19		Endosulfan Sulfate	20.000	21.651	-8.3	111	0.00
20		Methoxychlor	20.000	19.555	2.2	100	0.00
21		Endrin Ketone	20.000	19.994	0.0	102	0.00
22	S	Decachlorobiphenyl	20.000	19.232	3.8	98	0.00

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD1A.CH Vial: 26
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD2B.CH Vial: 26
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:07 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.55f	6.62	1483.6E6	2177.4E6	20.914	20.840
	Spiked Amount 20.000	Range 13 - 154		Recovery =		104.57%	104.20%
22)	S Decachlorobiphen	15.13	14.77	825.5E6	956.2E6	20.158	19.232
	Spiked Amount 20.000	Range 25 - 140		Recovery =		100.79%	96.16%
	Target Compounds						
2)	alpha-BHC	8.58f	7.75f	1956.2E6	2903.7E6	20.487	20.309
3)	gamma-BHC	9.13f	8.36f	1742.7E6	2486.5E6	20.241	20.044
4)	beta-BHC	9.30f	8.52	746.3E6	1069.4E6	19.678	19.795
5)	Heptachlor	9.91f	9.06f	1596.3E6	2111.0E6	20.468	19.930
6)	delta-BHC	9.59f	8.99f	1705.3E6	2345.1E6	20.637	20.115
7)	Aldrin	10.38f	9.56f	1490.3E6	1978.5E6	20.522	20.047
8)	Heptachlor Epoxi	11.30f	10.44f	1345.8E6	1660.2E6	20.372	19.709
9)	gamma-Chlordane	11.49	10.73	1326.6E6	1696.3E6	20.089	19.722
10)	alpha-Chlordane	11.68	10.94f	1204.4E6	1597.8E6	20.667	19.701
11)	Endosulfan I	11.88	11.02	1224.2E6	1534.7E6	20.255	19.824
12)	4,4'-DDE	11.81f	11.22f	1204.2E6	1558.3E6	20.379	19.697
13)	Dieldrin	12.22f	11.42f	1259.7E6	1603.0E6	20.379	19.744
14)	Endrin	12.55	11.86	1139.4E6	1254.0E6	20.355	19.696
15)	4,4'-DDD	12.65	12.05	951.5E6	1248.7E6	19.846	20.343
16)	Endosulfan II	12.85	12.17f	1054.3E6	1310.2E6	19.508	19.732
17)	4,4'-DDT	13.00	12.49	961.5E6	1092.7E6	18.684	18.457
18)	Endrin Aldehyde	13.36	12.64	812.0E6	968.7E6	18.398	19.586
19)	Endosulfan Sulfa	13.85	12.99	854.8E6	1055.9E6	22.696	21.651
20)	Methoxychlor	13.58	13.35	455.9E6	523.5E6	20.381	19.555
21)	Endrin Ketone	14.15	13.60	1001.4E6	1187.2E6	20.718	19.994

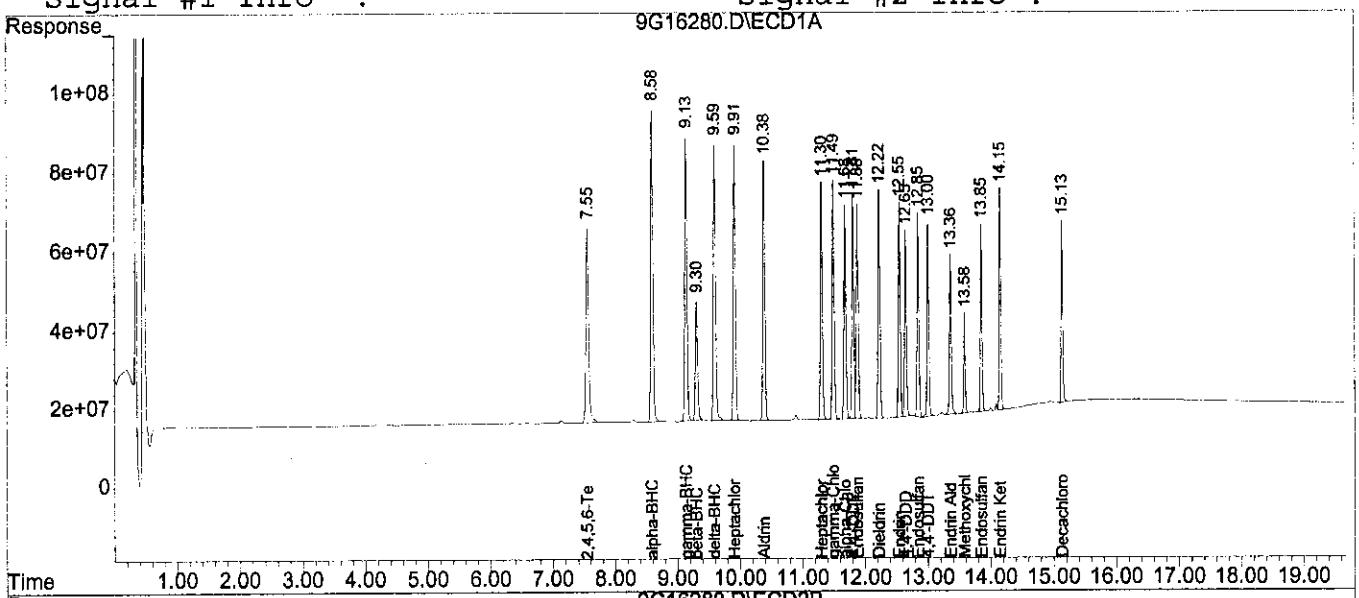
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

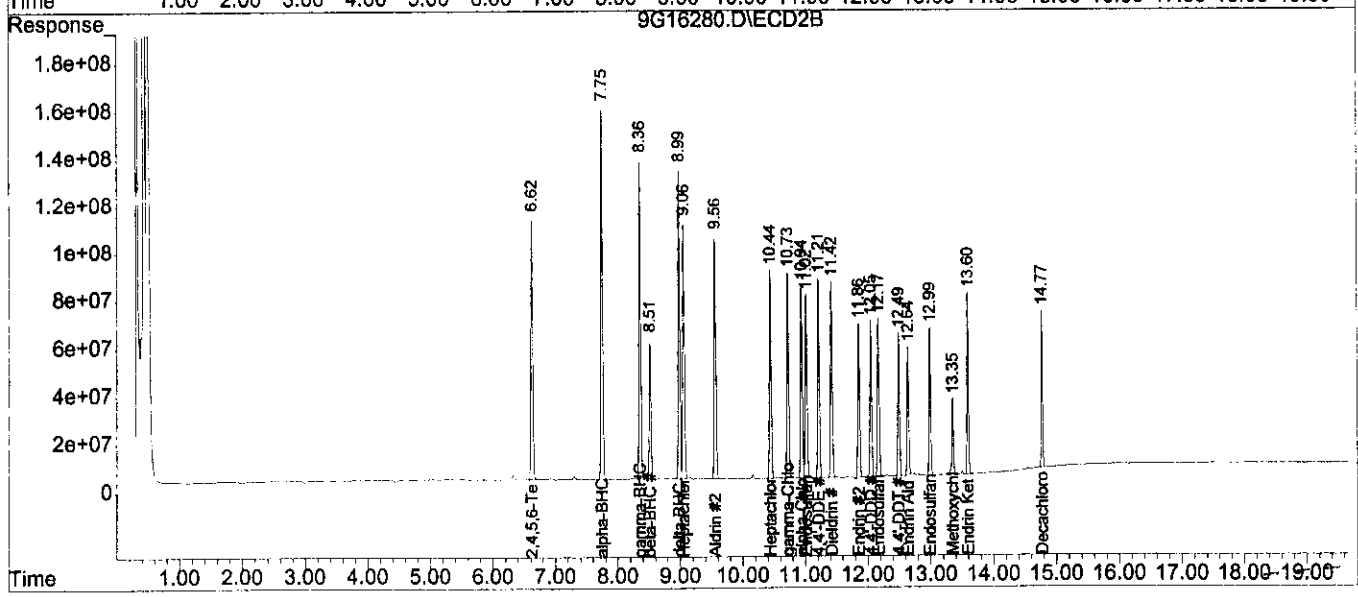
Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD1A.CH Vial: 26
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16280.D\ECD2B.CH Vial: 26
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:07 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD1A.CH Vial: 27
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD2B.CH Vial: 27
Acq On : 16 Jun 2001 1:27 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	483.953	3.2	98	-0.02
2	L1	TOXAPHENE-2	500.000	506.542	-1.3	99	-0.02
3	L1	TOXAPHENE-3	500.000	494.008	1.2	99	-0.01
4	L1	TOXAPHENE-4	500.000	492.065	1.6	99	-0.01
5	L1	TOXAPHENE-5	500.000	475.691	4.9	95	-0.01
		Signal #2					
1	L1	TOXAPHENE-1	500.000	487.361	2.5	95	-0.02
2	L1	TOXAPHENE-2	500.000	479.814	4.0	96	-0.01
3	L1	TOXAPHENE-3	500.000	470.601	5.9	95	0.00
4	L1	TOXAPHENE-4	500.000	463.161	7.4	93	0.00
5	L1	TOXAPHENE-5	500.000	448.744	10.3	91	0.00

Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD1A.CH Vial: 27
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD2B.CH Vial: 27
Acq On : 16 Jun 2001 1:27 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 11:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.35	12.29	217.2E6	1046.6E6	483.953	487.361
2)	L1 TOXAPHENE-2	13.25	12.65	251.2E6	719.7E6	506.542	479.814
3)	L1 TOXAPHENE-3	13.73	13.27	534.7E6	676.8E6	494.008	470.601
4)	L1 TOXAPHENE-4	13.92	13.34	248.7E6	428.8E6	492.065	463.161
5)	L1 TOXAPHENE-5	14.12	13.70	497.9E6	285.1E6	475.691	448.744
	Sum TOXAPHENE-1			1749.6E6	3156.9E6	2452.259	2349.681
Average	TOXAPHENE-1					490.452	469.936

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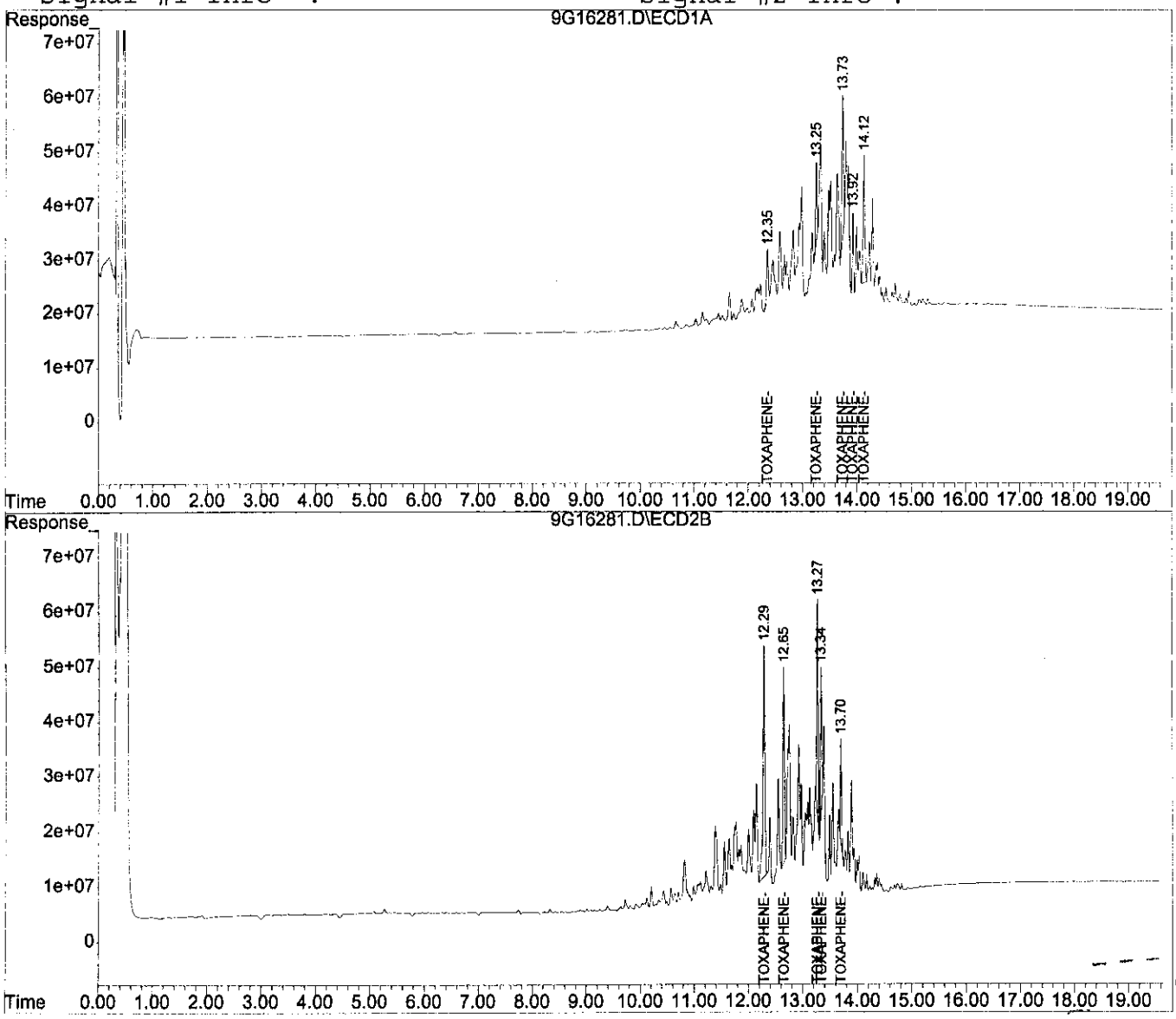
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16281.D TOX.M Mon Jun 18 11:08:44 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD1A.CH Vial: 27
Acq On : 16 Jun 2001 1:03 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16281.D\ECD2B.CH Vial: 27
Acq On : 16 Jun 2001 1:27 Operator: SMW
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 11:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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Acq On : 18 Jun 2001 13:15 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16283.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 18 16:00:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	20.000	20.261	-1.3	101	0.00
2		alpha-BHC	20.000	19.817	0.9	100	0.00
3		gamma-BHC	20.000	20.008	-0.0	102	0.00
4		beta-BHC	20.000	19.423	2.9	101	0.00
5		Heptachlor	20.000	19.982	0.1	99	0.00
6		delta-BHC	20.000	19.780	1.1	100	0.00
7		Aldrin	20.000	20.285	-1.4	100	0.00
8		Heptachlor Epoxide	20.000	20.270	-1.3	101	0.00
9		gamma-Chlordane	20.000	20.096	-0.5	101	0.00
10		alpha-Chlordane	20.000	21.189	-5.9	102	0.00
11		Endosulfan I	20.000	20.494	-2.5	101	0.00
12		4,4'-DDE	20.000	19.687	1.6	101	0.00
13		Dieldrin	20.000	20.013	-0.1	100	0.00
14		Endrin	20.000	19.966	0.2	101	0.00
15		4,4'-DDD	20.000	19.486	2.6	102	0.00
16		Endosulfan II	20.000	19.141	4.3	98	0.00
17		4,4'-DDT	20.000	17.935	10.3	85	0.00
18		Endrin Aldehyde	20.000	17.957	10.2	86	0.00
19		Endosulfan Sulfate	20.000	21.930	-9.6	110	0.00
20		Methoxychlor	20.000	19.472	2.6	100	0.00
21		Endrin Ketone	20.000	20.570	-2.9	102	0.00
22	S	Decachlorobiphenyl	20.000	20.521	-2.6	101	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	20.000	20.705	-3.5	102	0.00
2		alpha-BHC	20.000	20.197	-1.0	100	0.00
3		gamma-BHC	20.000	19.961	0.2	99	0.00
4		beta-BHC	20.000	19.857	0.7	99	0.00
5		Heptachlor	20.000	20.002	-0.0	98	0.00
6		delta-BHC	20.000	19.749	1.3	98	0.00
7		Aldrin	20.000	20.112	-0.6	99	0.00
8		Heptachlor Epoxide	20.000	20.100	-0.5	99	0.00
9		gamma-Chlordane	20.000	19.864	0.7	100	0.00
10		alpha-Chlordane	20.000	19.789	1.1	99	0.00

(#) = Out of Range
9G16283.D 8081.M Mon Jun 18 16:01:03 2001 -- Page 1
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Data File : C:\HPCHEM\1\DATA\061801\9G16283.D\ECD1A.CH Vial: 2
Acq On : 18 Jun 2001 13:15 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16283.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 18 16:00:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	20.000	19.930	0.4	99	0.00
12		4,4'-DDE	20.000	19.844	0.8	99	0.00
13		Dieldrin	20.000	19.874	0.6	100	0.00
14		Endrin	20.000	18.991	5.0	96	0.00
15		4,4'-DDD	20.000	20.545	-2.7	103	0.00
16		Endosulfan II	20.000	19.832	0.8	100	0.00
17		4,4'-DDT	20.000	18.325	8.4	94	0.00
18		Endrin Aldehyde	20.000	20.013	-0.1	102	0.00
19		Endosulfan Sulfate	20.000	20.452	-2.3	105	0.00
20		Methoxychlor	20.000	18.350	8.2	94	0.00
21		Endrin Ketone	20.000	20.150	-0.7	102	0.00
22	S	Decachlorobiphenyl	20.000	19.846	0.8	101	0.00

Data Path : C:\HPCHEM\1\DATA\061801\

Acq On : 18 Jun 2001 13:15 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16283.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 16:00 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 18 16:00:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.55	6.62	1437.2E6	2163.3E6	20.261	20.705
	Spiked Amount 20.000	Range 13 - 154		Recovery =		101.31%	103.53%
22)	S Decachlorobiphen	15.12	14.77	840.3E6	986.7E6	20.521	19.846
	Spiked Amount 20.000	Range 25 - 140		Recovery =		102.61%	99.23%
	Target Compounds						
2)	alpha-BHC	8.58	7.74	1892.2E6	2887.5E6	19.817	20.197
3)	gamma-BHC	9.12	8.35	1722.6E6	2476.3E6	20.008	19.961
4)	beta-BHC	9.29	8.51	736.6E6	1072.8E6	19.423	19.857
5)	Heptachlor	9.90	9.05	1558.4E6	2118.7E6	19.982	20.002
6)	delta-BHC	9.58	8.98	1634.5E6	2302.3E6	19.780	19.749
7)	Aldrin	10.37	9.55	1473.1E6	1984.9E6	20.285	20.112
8)	Heptachlor Epoxi	11.29f	10.44	1339.1E6	1693.2E6	20.270	20.100
9)	gamma-Chlordane	11.48	10.72	1327.1E6	1708.6E6	20.096	19.864
10)	alpha-Chlordane	11.67	10.94	1234.8E6	1605.0E6	21.189	19.789
11)	Endosulfan I	11.87	11.01	1238.7E6	1543.0E6	20.494	19.930
12)	4,4'-DDE	11.80	11.21	1163.3E6	1570.0E6	19.687	19.844
13)	Dieldrin	12.21f	11.42	1237.1E6	1613.5E6	20.013	19.874
14)	Endrin	12.54	11.85	1117.6E6	1209.1E6	19.966	18.991
15)	4,4'-DDD	12.64	12.05	934.2E6	1261.1E6	19.486	20.545
16)	Endosulfan II	12.84	12.17	1034.5E6	1316.8E6	19.141	19.832
17)	4,4'-DDT	12.99	12.49	923.0E6	1084.8E6	17.935	18.325
18)	Endrin Aldehyde	13.35	12.64	792.5E6	989.8E6	17.957	20.013
19)	Endosulfan Sulfa	13.84	12.99	826.0E6	997.4E6	21.930	20.452
20)	Methoxychlor	13.58	13.35	435.6E6	491.2E6	19.472	18.350
21)	Endrin Ketone	14.14	13.59	994.3E6	1196.5E6	20.570	20.150

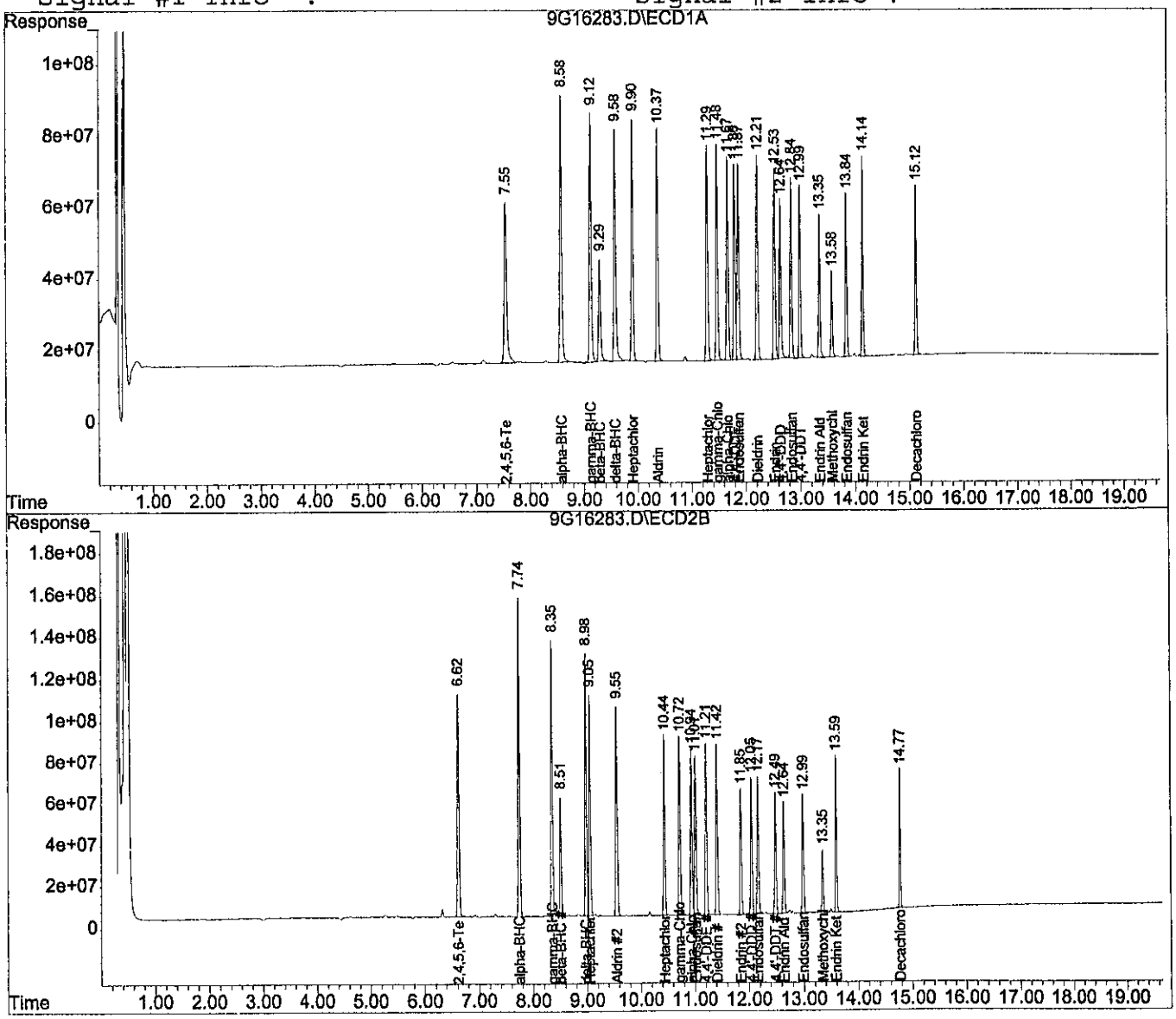
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16283.D 8081.M Mon Jun 18 16:01:09 2001 Page 3

Acq On : 18 Jun 2001 13:15 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16283.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 16:00 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 18 16:00:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061801\9G16284.D\ECD1B.CH Vial: 3
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16284.D\ECD2B.CH Vial: 3
Acq On : 18 Jun 2001 14:04 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	486.021	2.8	98	-0.02
2	L1	TOXAPHENE-2	500.000	532.677	-6.5	104	-0.02
3	L1	TOXAPHENE-3	500.000	499.440	0.1	100	-0.02
4	L1	TOXAPHENE-4	500.000	491.796	1.6	99	-0.02
5	L1	TOXAPHENE-5	500.000	489.521	2.1	98	-0.01
		Signal #2					
1	L1	TOXAPHENE-1	500.000	499.810	0.0	97	-0.02
2	L1	TOXAPHENE-2	500.000	491.651	1.7	99	-0.02
3	L1	TOXAPHENE-3	500.000	487.943	2.4	98	-0.01
4	L1	TOXAPHENE-4	500.000	474.127	5.2	95	-0.01
5	L1	TOXAPHENE-5	500.000	469.541	6.1	95	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G16284.D TOX.M Mon Jun 18 16:19:56 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\061801\9G16284.D\ECD1B.CH Vial: 3
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16284.D\ECD2B.CH Vial: 3
Acq On : 18 Jun 2001 14:04 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 16:19 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.34	12.28	218.1E6	1073.3E6	486.021	499.810
2) L1 TOXAPHENE-2	13.24	12.65	264.1E6	737.4E6	532.677	491.651
3) L1 TOXAPHENE-3	13.73	13.27	540.5E6	701.7E6	499.440	487.943
4) L1 TOXAPHENE-4	13.92	13.33	248.6E6	439.0E6	491.796	474.127
5) L1 TOXAPHENE-5	14.12	13.70	512.4E6	298.3E6	489.521	469.541
Sum TOXAPHENE-1			1783.7E6	3249.7E6	2499.455	2423.073
Average TOXAPHENE-1					499.891	484.615

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16284.D TOX.M Mon Jun 18 16:20:00 2001 - - Page 1

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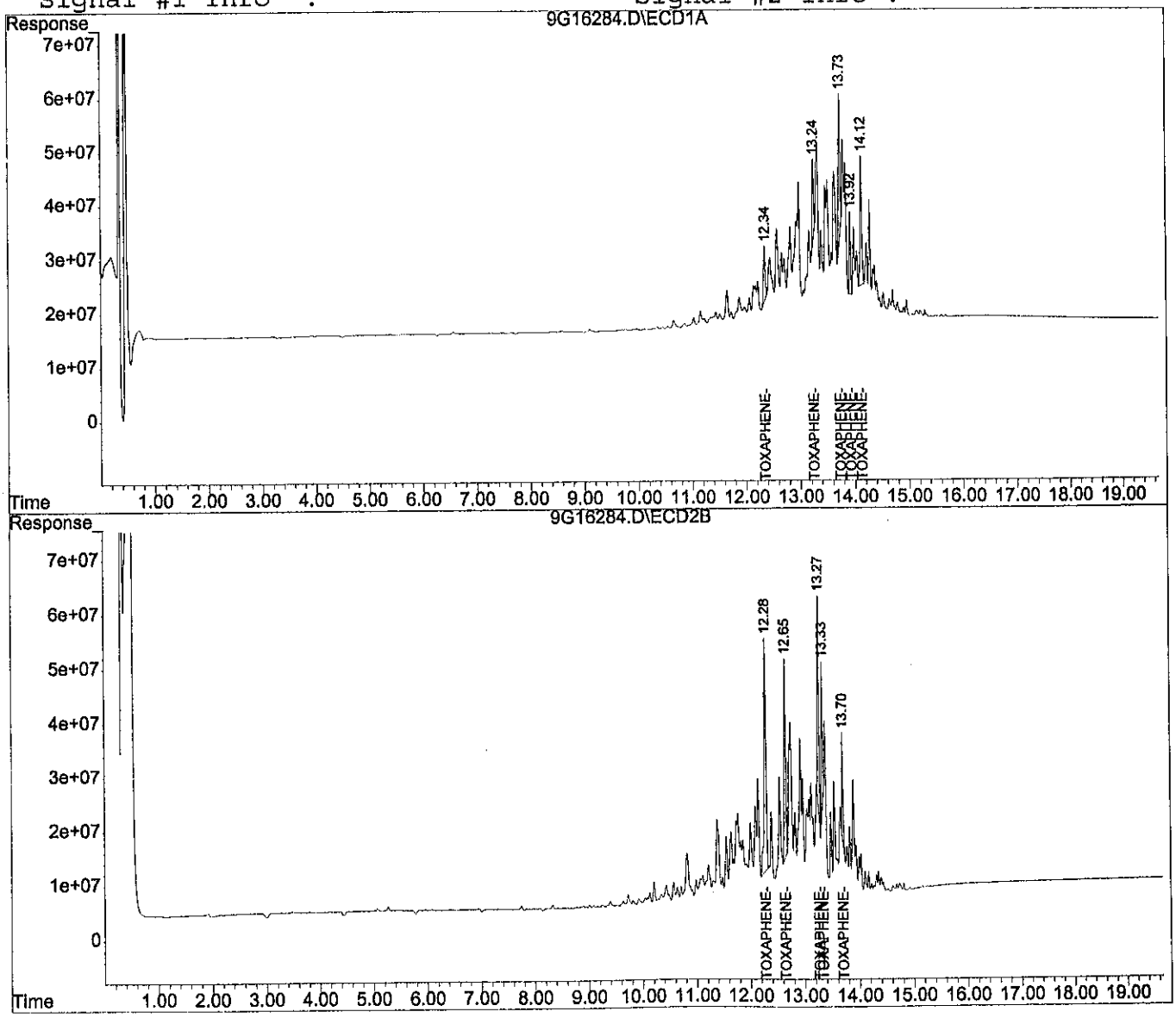
Acq On : 18 Jun 2001 13:39 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16284.D\ECD2B.CH Vial: 3
Acq On : 18 Jun 2001 14:04 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 18 16:19 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Acq On : 18 Jun 2001 21:07 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16296.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 10:03:16 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	50.000	50.415	-0.8	103	0.00
2		alpha-BHC	50.000	51.978	-4.0	103	0.00
3		gamma-BHC	50.000	51.355	-2.7	103	0.00
4		beta-BHC	50.000	49.256	1.5	102	0.00
5		Heptachlor	50.000	49.570	0.9	100	0.00
6		delta-BHC	50.000	52.310	-4.6	103	0.00
7		Aldrin	50.000	51.045	-2.1	102	0.00
8		Heptachlor Epoxide	50.000	49.929	0.1	102	0.00
9		gamma-Chlordane	50.000	50.360	-0.7	102	0.00
10		alpha-Chlordane	50.000	52.974	-5.9	107	0.00
11		Endosulfan I	50.000	50.289	-0.6	102	0.00
12		4,4'-DDE	50.000	51.414	-2.8	103	0.00
13		Dieldrin	50.000	51.228	-2.5	102	0.00
14		Endrin	50.000	51.152	-2.3	101	0.00
15		4,4'-DDD	50.000	50.721	-1.4	96	0.00
16		Endosulfan II	50.000	47.627	4.7	97	0.00
17		4,4'-DDT	50.000	46.944	6.1	92	0.00
18		Endrin Aldehyde	50.000	44.825	10.3	94	0.00
19		Endosulfan Sulfate	50.000	55.960	-11.9	111	0.00
20		Methoxychlor	50.000	49.831	0.3	102	0.00
21		Endrin Ketone	50.000	51.600	-3.2	104	0.00
22	S	Decachlorobiphenyl	50.000	48.793	2.4	102	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	50.000	52.615	-5.2	106	0.00
2		alpha-BHC	50.000	52.963	-5.9	105	0.00
3		gamma-BHC	50.000	52.244	-4.5	103	0.00
4		beta-BHC	50.000	50.207	-0.4	103	0.00
5		Heptachlor	50.000	51.544	-3.1	103	0.00
6		delta-BHC	50.000	52.645	-5.3	103	0.00
7		Aldrin	50.000	52.171	-4.3	103	0.00
8		Heptachlor Epoxide	50.000	51.912	-3.8	104	0.00
9		gamma-Chlordane	50.000	51.337	-2.7	103	0.00
10		alpha-Chlordane	50.000	50.827	-1.7	102	0.00

(#) = Out of Range
9G16296.D 8081.M Tue Jun 19 10:04:08 2001 Page 1

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Acq On : 18 Jun 2001 21:07 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16296.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 10:03:16 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	50.000	50.967	-1.9	102	0.00
12		4,4'-DDE	50.000	52.012	-4.0	102	0.00
13		Dieldrin	50.000	52.015	-4.0	103	0.00
14		Endrin	50.000	52.291	-4.6	104	0.00
15		4,4'-DDD	50.000	52.995	-6.0	105	0.00
16		Endosulfan II	50.000	51.335	-2.7	103	0.00
17		4,4'-DDT	50.000	51.881	-3.8	100	0.00
18		Endrin Aldehyde	50.000	51.699	-3.4	102	0.00
19		Endosulfan Sulfate	50.000	56.481	-13.0	112	0.00
20		Methoxychlor	50.000	52.472	-4.9	105	0.00
21		Endrin Ketone	50.000	52.961	-5.9	105	0.00
22	S	Decachlorobiphenyl	50.000	49.460	1.1	103	0.00

Acq On : 18 Jun 2001 21:07 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16296.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 19 10:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 10:03:16 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.54	6.62	3576.2E6	5497.3E6	50.415	52.615
	Spiked Amount 20.000	Range 13 - 154		Recovery =		252.08%#	263.07%#
22)	S Decachlorobiphen	15.13	14.77	1998.1E6	2459.2E6	48.793	49.460
	Spiked Amount 20.000	Range 25 - 140		Recovery =		243.96%#	247.30%#
	Target Compounds						
2)	alpha-BHC	8.58	7.74	4963.2E6	7572.2E6	51.978	52.963
3)	gamma-BHC	9.12	8.35	4421.5E6	6481.0E6	51.355	52.244
4)	beta-BHC	9.29	8.51	1868.0E6	2712.5E6	49.256	50.207
5)	Heptachlor	9.90	9.05	3866.0E6	5459.6E6	49.570	51.544
6)	delta-BHC	9.58	8.98	4322.6E6	6137.4E6	52.310	52.645
7)	Aldrin	10.37	9.55	3706.9E6	5148.8E6	51.045	52.171
8)	Heptachlor Epoxi	11.29	10.44	3298.5E6	4372.9E6	49.929	51.912
9)	gamma-Chlordane	11.48	10.72	3325.8E6	4415.7E6	50.360	51.337
10)	alpha-Chlordane	11.67	10.94	3087.1E6	4122.3E6	52.974	50.827
11)	Endosulfan I	11.87	11.01	3039.5E6	3945.7E6	50.289	50.967
12)	4,4'-DDE	11.80	11.21	3038.2E6	4114.9E6	51.414	52.012
13)	Dieldrin	12.21	11.42	3166.5E6	4222.9E6	51.228	52.015
14)	Endrin	12.54	11.85	2863.3E6	3329.2E6	51.152	52.291
15)	4,4'-DDD	12.64	12.05	2431.6E6	3252.9E6	50.721	52.995
16)	Endosulfan II	12.84	12.17	2574.1E6	3408.5E6	47.627	51.335
17)	4,4'-DDT	13.00	12.49	2415.8E6	3071.4E6	46.944	51.881
18)	Endrin Aldehyde	13.35	12.64	1978.3E6	2557.0E6	44.825	51.699
19)	Endosulfan Sulfa	13.84	12.99	2107.8E6	2754.4E6	55.960	56.481
20)	Methoxychlor	13.58	13.35	1114.6E6	1404.7E6	49.831	52.472
21)	Endrin Ketone	14.14	13.59	2494.1E6	3144.8E6	51.600	52.961

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16296.D 8081.M Tue Jun 19 10:04:14 2001 Page 1
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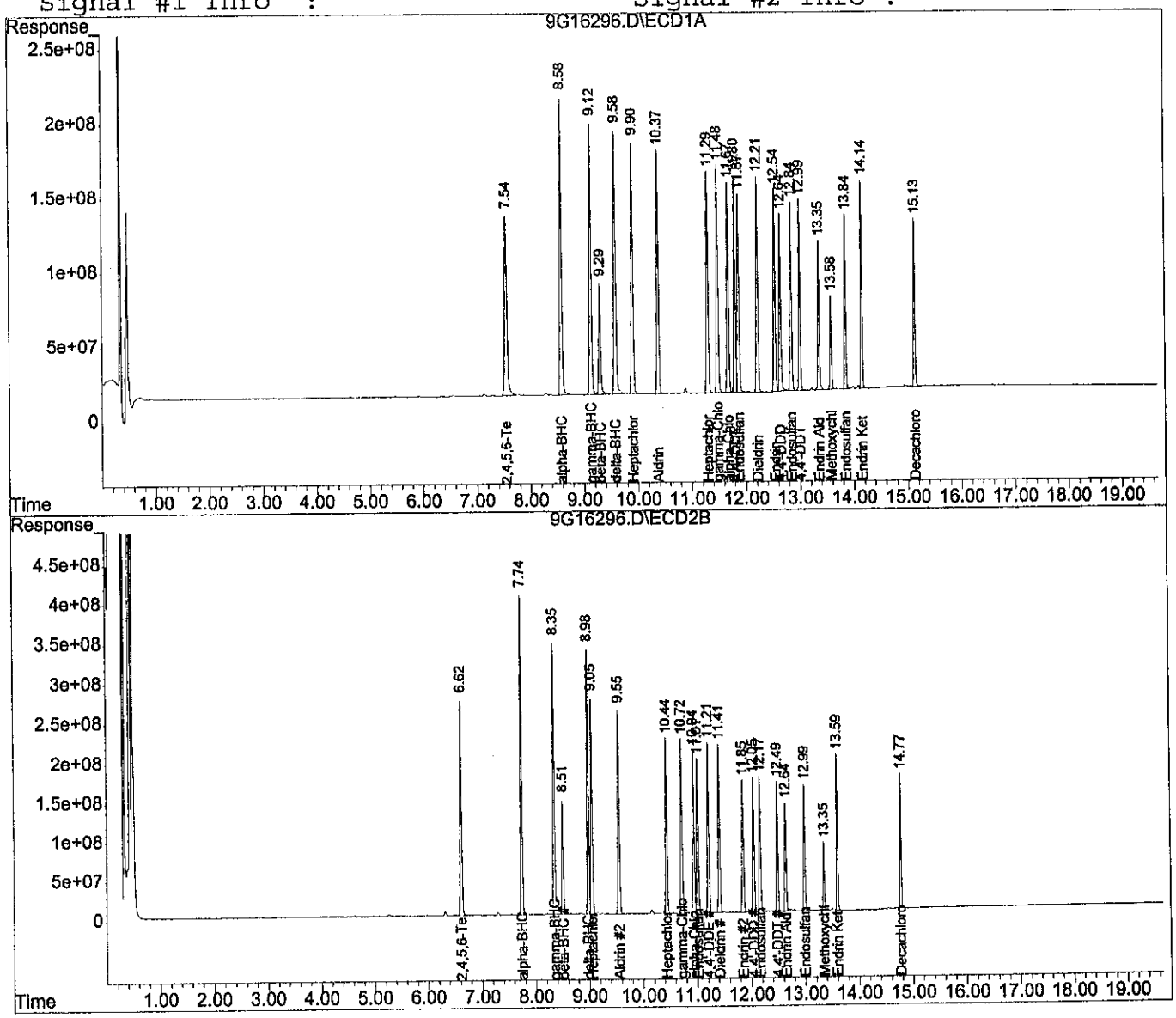
Acq On : 18 Jun 2001 21:07 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16296.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 19 10:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Tue Jun 19 10:03:16 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16297.D\ECD2B.CH Vial: 16
Acq On : 18 Jun 2001 21:55 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	250.000	248.208	0.7	104	0.00
2	L1	TOXAPHENE-2	250.000	253.828	-1.5	106	0.00
3	L1	TOXAPHENE-3	250.000	240.851	3.7	99	0.00
4	L1	TOXAPHENE-4	250.000	237.218	5.1	100	0.00
5	L1	TOXAPHENE-5	250.000	224.676	10.1	93	0.00
		Signal #2					
1	L1	TOXAPHENE-1	250.000	249.817	0.1	99	0.00
2	L1	TOXAPHENE-2	250.000	234.825	6.1	99	0.00
3	L1	TOXAPHENE-3	250.000	226.176	9.5	95	0.00
4	L1	TOXAPHENE-4	250.000	248.567	0.6	106	0.00
5	L1	TOXAPHENE-5	250.000	229.453	8.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G16297.D TOX.M Tue Jun 19 10:13:57 2001 Page 1

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Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16297.D\ECD2B.CH Vial: 16
Acq On : 18 Jun 2001 21:55 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 19 10:13 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.35	12.28	111.4E6	536.5E6	248.208	249.817
2) L1 TOXAPHENE-2	13.25	12.64	125.9E6	352.2E6	253.828	234.825
3) L1 TOXAPHENE-3	13.74	13.26	260.7E6	325.3E6	240.851	226.176
4) L1 TOXAPHENE-4	13.92	13.33	119.9E6	230.1E6	237.218	248.567
5) L1 TOXAPHENE-5	14.13	13.70	235.2E6	145.8E6	224.676	229.453
Sum TOXAPHENE-1			853.0E6	1589.8E6	1204.780	1188.838
Average TOXAPHENE-1					240.956	237.768

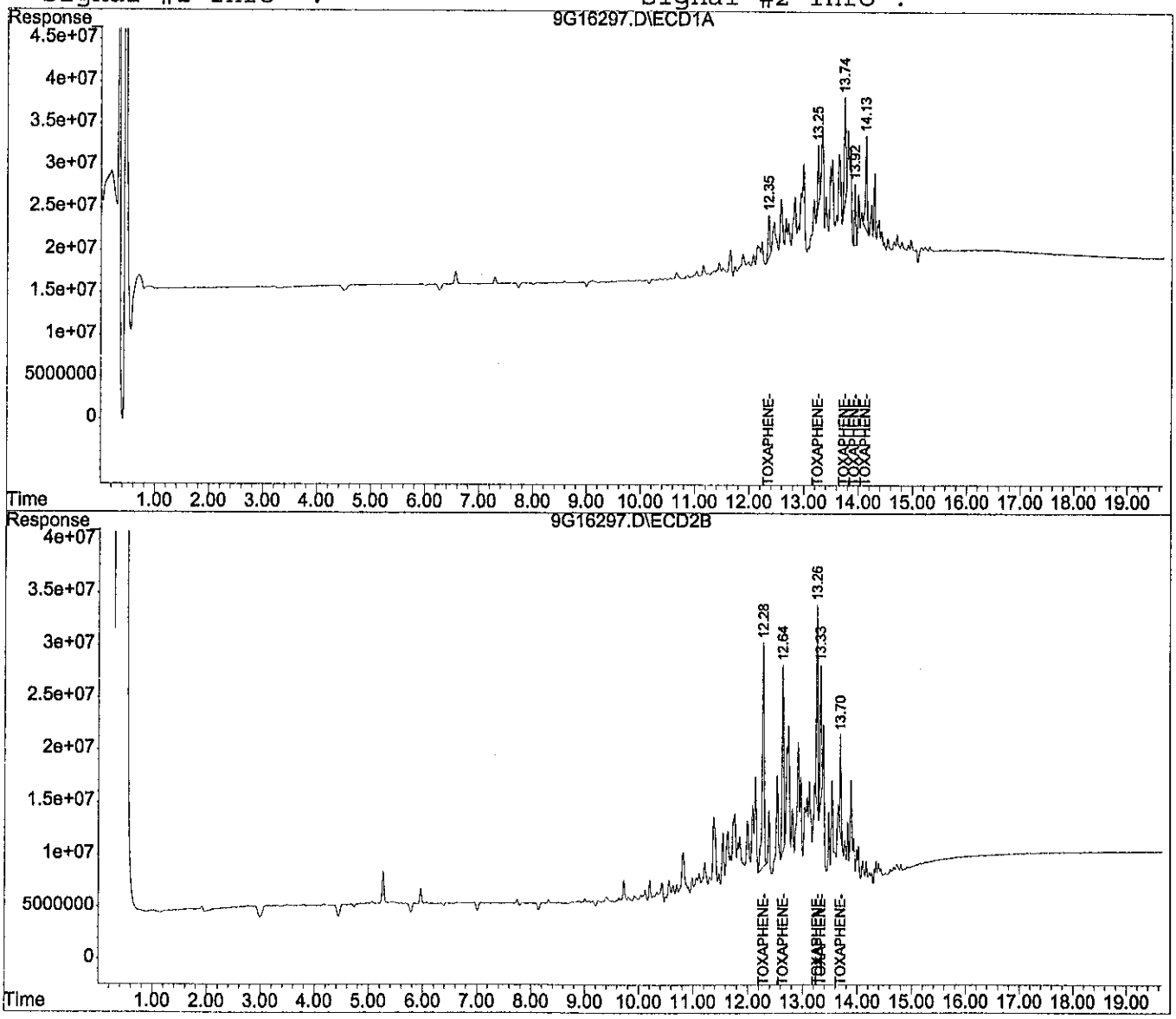
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Acq On : 18 Jun 2001 21:31 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061801\9G16297.D\ECD2B.CH Vial: 16
Acq On : 18 Jun 2001 21:55 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 19 10:13 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-9

GC Column: RTx-CLP

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	04/02/01	04/04/01	04/05/01
File #	9G14975	9G15000	9G15010

	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
COMPOUND				
ALPHA-BHC	8.90	8.90	8.90	0.000
GAMMA-BHC	9.45	9.45	9.44	0.017
BETA-BHC	9.61	9.61	9.61	0.000
HEPTACHLOR	10.23	10.23	10.23	0.000
DELTA-BHC	9.90	9.90	9.90	0.000
ALDRIN	10.70	10.70	10.70	0.000
HEPTACHLOR EPOXIDE	11.62	11.62	11.62	0.000
GAMMA-CHLORDANE	11.81	11.81	11.80	0.017
ALPHA-CHLORDANE	12.00	12.00	12.00	0.000
ENDOSULFAN I	12.20	12.20	12.20	0.000
4,4-DDE	12.12	12.12	12.11	0.017
DIELDRIN	12.54	12.54	12.54	0.000
ENDRIN	12.85	12.85	12.84	0.017
4,4-DDD	12.93	12.93	12.93	0.000
ENDOSULFAN II	13.14	13.14	13.13	0.017
4,4-DDT	13.28	13.28	13.27	0.017
ENDRIN ALDEHYDE	13.63	13.63	13.63	0.000
ENDOSULFAN SULFATE	14.11	14.11	14.11	0.000
METHOXYCHLOR	13.83	13.83	13.82	0.017
ENDRIN KETONE	14.4	14.4	14.4	0.000

REAR

RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-9

GC Column: RTx-CLP II

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	04/02/01	04/04/01	04/05/01
File #	9G14975	9G15000	9G15010

	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
COMPOUND				
ALPHA-BHC	8.01	8.00	8.00	0.017
GAMMA-BHC	8.62	8.62	8.61	0.017
BETA-BHC	8.77	8.77	8.76	0.017
HEPTACHLOR	9.33	9.33	9.32	0.017
DELTA-BHC	9.24	9.24	9.24	0.000
ALDRIN	9.83	9.83	9.83	0.000
HEPTACHLOR EPOXIDE	10.72	10.72	10.71	0.017
GAMMA-CHLORDANE	11.00	11.00	10.99	0.017
ALPHA-CHLORDANE	11.22	11.22	11.21	0.017
ENDOSULFAN I	11.30	11.30	11.29	0.017
4,4-DDE	11.48	11.48	11.48	0.000
DIELDRIN	11.70	11.70	11.69	0.017
ENDRIN	12.14	12.15	12.13	0.030
4,4-DDD	12.32	12.32	12.31	0.017
ENDOSULFAN II	12.45	12.45	12.44	0.017
4,4-DDT	12.74	12.75	12.74	0.017
ENDRIN ALDEHYDE	12.89	12.9	12.89	0.017
ENDOSULFAN SULFATE	13.22	13.23	13.22	0.017
METHOXYCHLOR	13.55	13.56	13.55	0.017
ENDRIN KETONE	13.81	13.81	13.81	0.000

2.2.2.4 Raw QC Data

ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G15963.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2585294072	77869714	63717816	5.19 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2300440563	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G15963.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3210508651	42204375	89737368	3.95 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2810999852	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.57	11.89	2585.3E6	3210.5E6	51.368	51.587
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.02	12.52	2300.4E6	2811.0E6	51.355	47.906
18)	Endrin Aldehyde	13.38	12.67	77869714	42204375	2.054	0.856 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.17	13.62	63717816	89737368	1.370	1.597

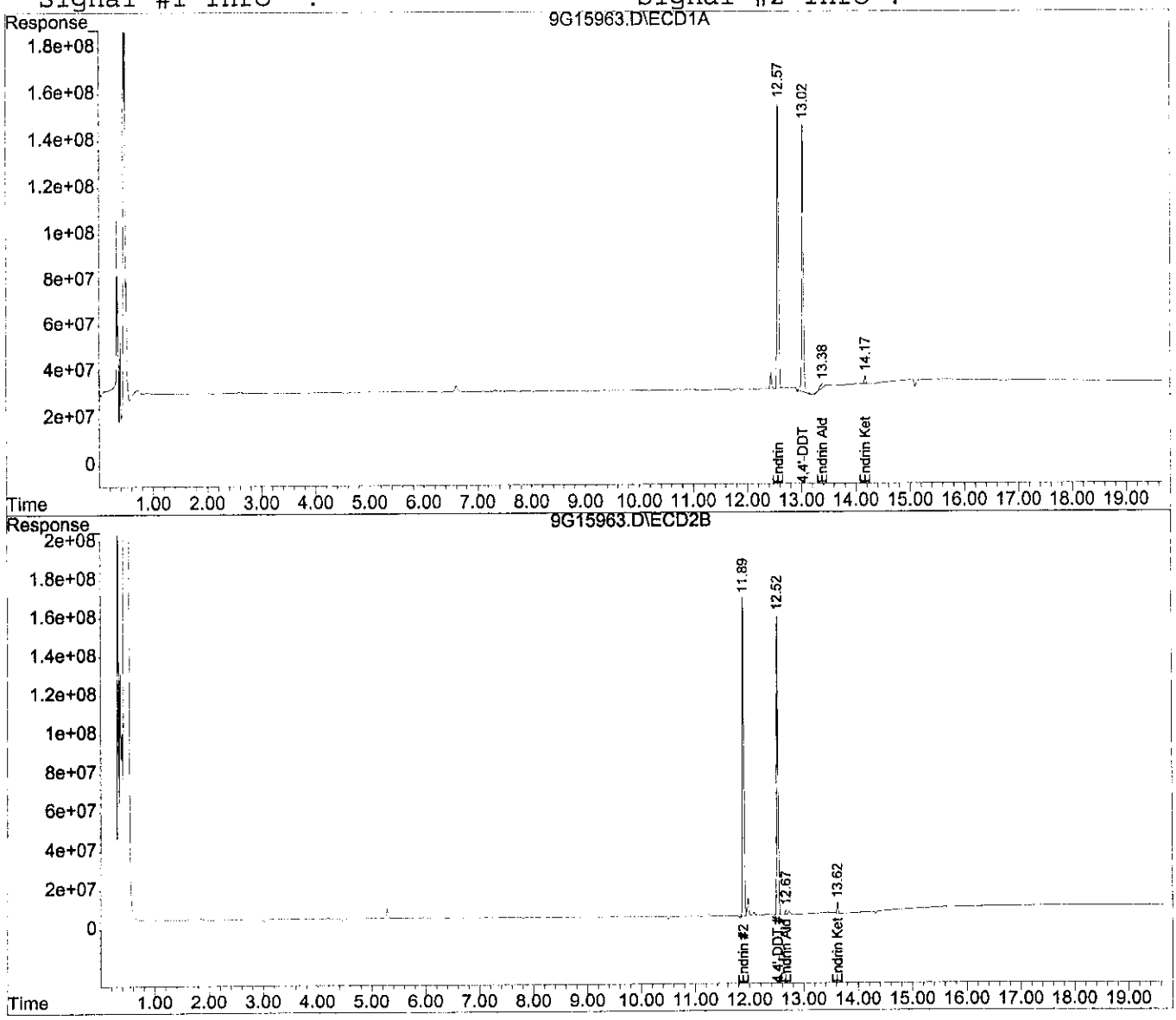
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16268.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2743589161	38139785.14	82774728	4.22 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2162606523	0	42858115	1.94 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16268.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
2980320958	86709186	148297405	7.31 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2505872952	0	110622048	4.23 %

Data File : C:\HPCHEM\1\DATA\061501\9G16268.D\ECD1A.CH Vial: 14
Acq On : 15 Jun 2001 19:48 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16268.D\ECD2B.CH Vial: 14
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 10:30 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.55	11.86	2743.6E6	2980.3E6	49.013	46.812
15)	4,4'-DDD	12.65	12.05	42858115	110.6E6	0.894	1.802 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.01	12.49	2162.6E6	2505.9E6	42.024	42.328
18)	Endrin Aldehyde	13.36	12.64	38139785	86709186	0.864	1.753 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.15	13.60	82774728	148.3E6	1.712	2.497 #

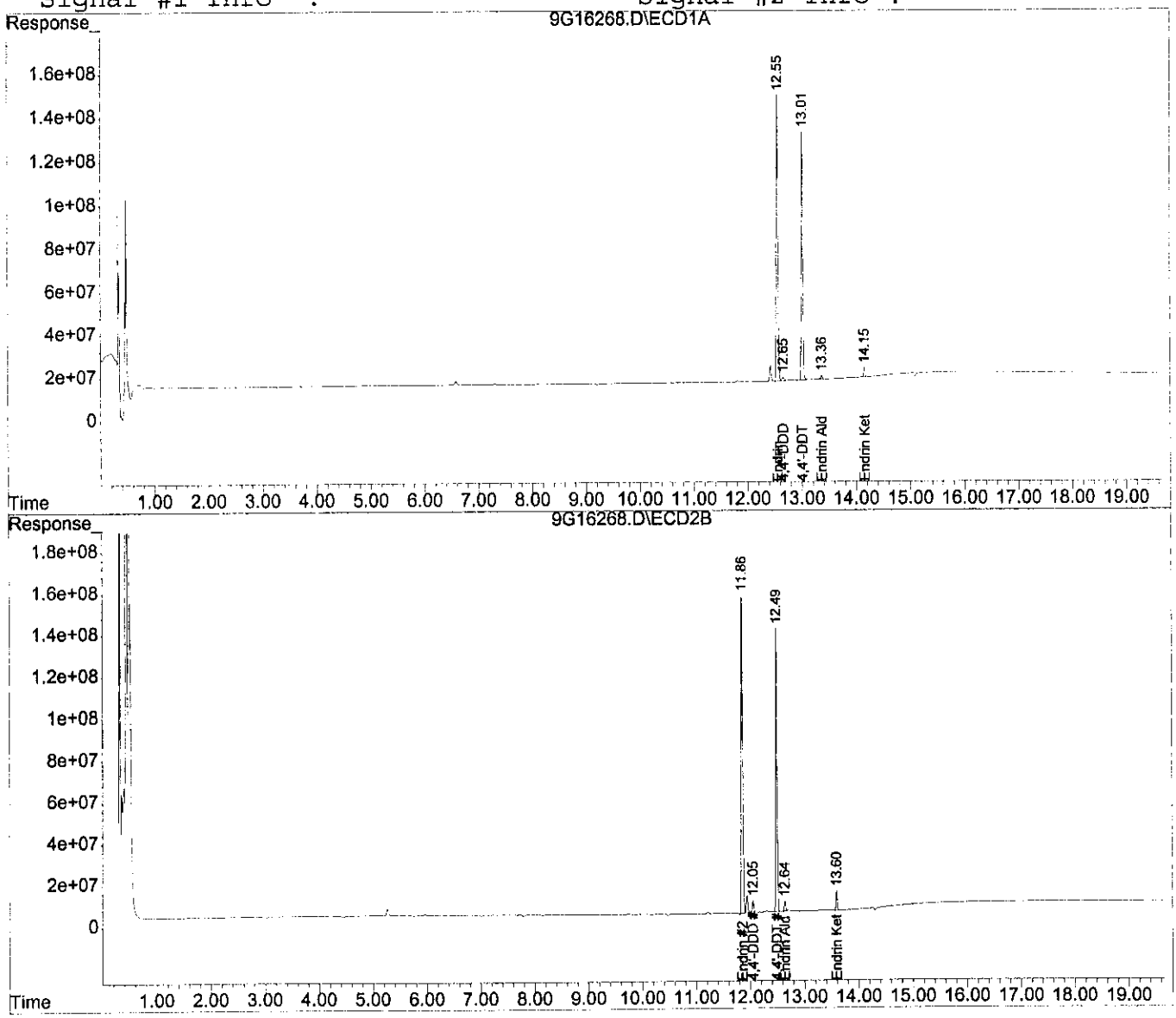
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16268.D 8081.M Mon Jun 18 11:04:40 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061501\9G16268.D\ECD1A.CH Vial: 14
Acq On : 15 Jun 2001 19:48 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16268.D\ECD2B.CH Vial: 14
Acq On : 15 Jun 2001 20:12 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 10:30 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16279.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2776520769	0	79160456	2.77 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2164947892	0	35616698.55	1.62 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16279.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3092409680	59954095	147290854	6.28 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2548539744	0	110116208	4.14 %

Data File : C:\HPCHEM\1\DATA\061501\9G16279.D\ECD1A.CH Vial: 25
Acq On : 16 Jun 2001 00:14 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16279.D\ECD2B.CH Vial: 25
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#	
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	12.55	11.86	2776.5E6	3092.4E6	49.602	48.572	
15)	4,4'-DDD	12.65	12.06	35616699	110.1E6	0.743	1.794	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	13.01	12.50	2164.9E6	2548.5E6	42.069	43.049	
18)	Endrin Aldehyde	0.00	12.65	0	59954095	N.D.	1.212	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	14.15	13.60	79160456	147.3E6	1.638	2.480	#

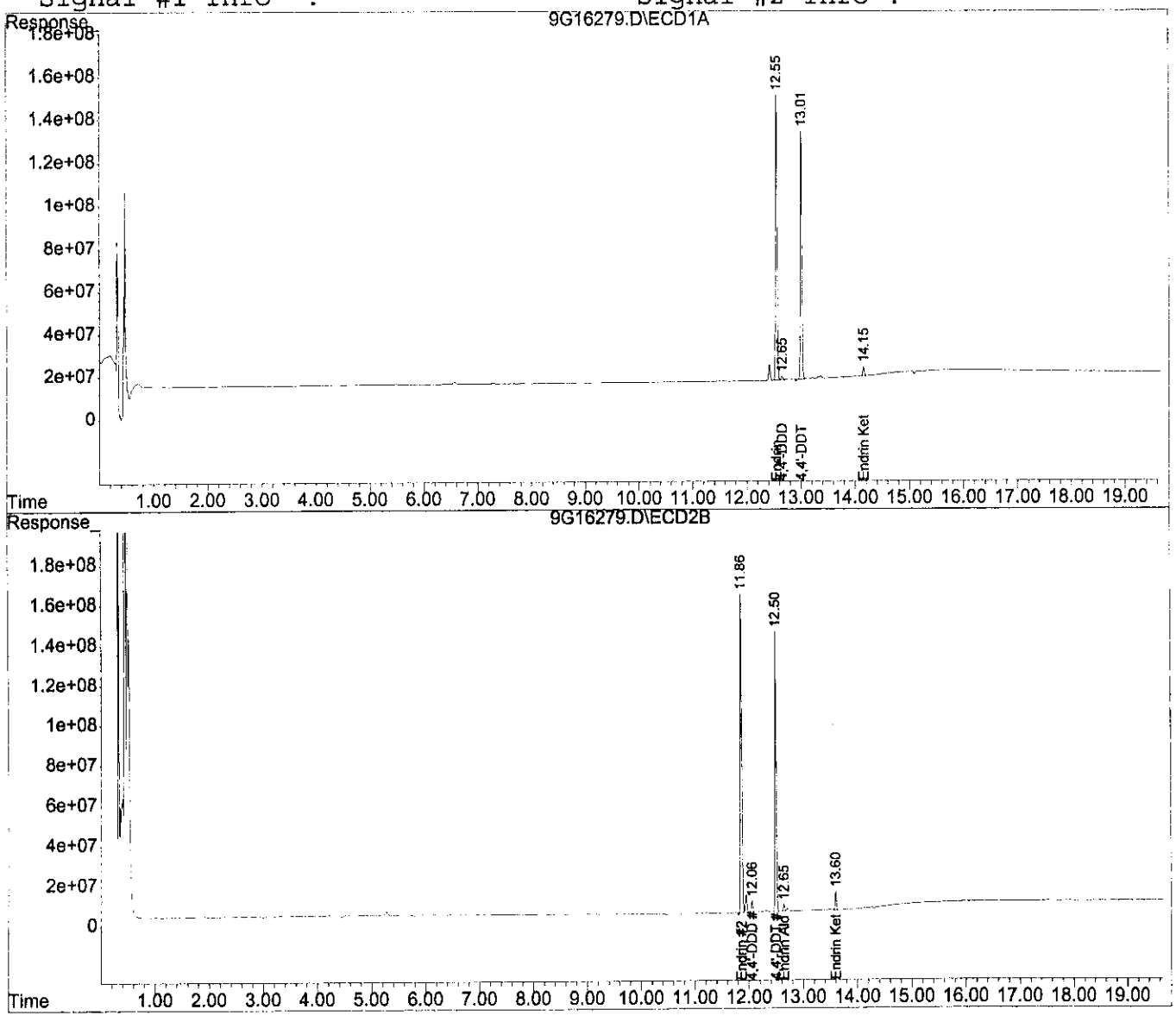
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16279.D 8081.M Mon Jun 18 11:06:51 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061501\9G16279.D\ECD1A.CH Vial: 25
Acq On : 16 Jun 2001 00:14 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16279.D\ECD2B.CH Vial: 25
Acq On : 16 Jun 2001 00:38 Operator: SMW
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 11:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16282.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2910209980	41876912	95377558	4.50 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2286892592	0	42938611.94	1.84 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16282.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
2984603101	111446499	194471160	9.30 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2522261010	0	142964632	5.36 %

Data File : C:\HPCHEM\1\DATA\061801\9G16282.D\ECD1A.CH Vial: 1
Acq On : 18 Jun 2001 12:51 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16282.D\ECD2B.CH Vial: 1
Acq On : 18 Jun 2001 13:15 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 18 16:01 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 18 16:00:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.53	11.85	2910.2E6	2984.6E6	51.990	46.879
15)	4,4'-DDD	12.64	12.05	42938612	143.0E6	0.896	2.329 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	12.99	12.49	2286.9E6	2522.3E6	44.439	42.605
18)	Endrin Aldehyde	13.34	12.64	41876912	111.4E6	0.949	2.253 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.14	13.59	95377558	194.5E6	1.973	3.275 #

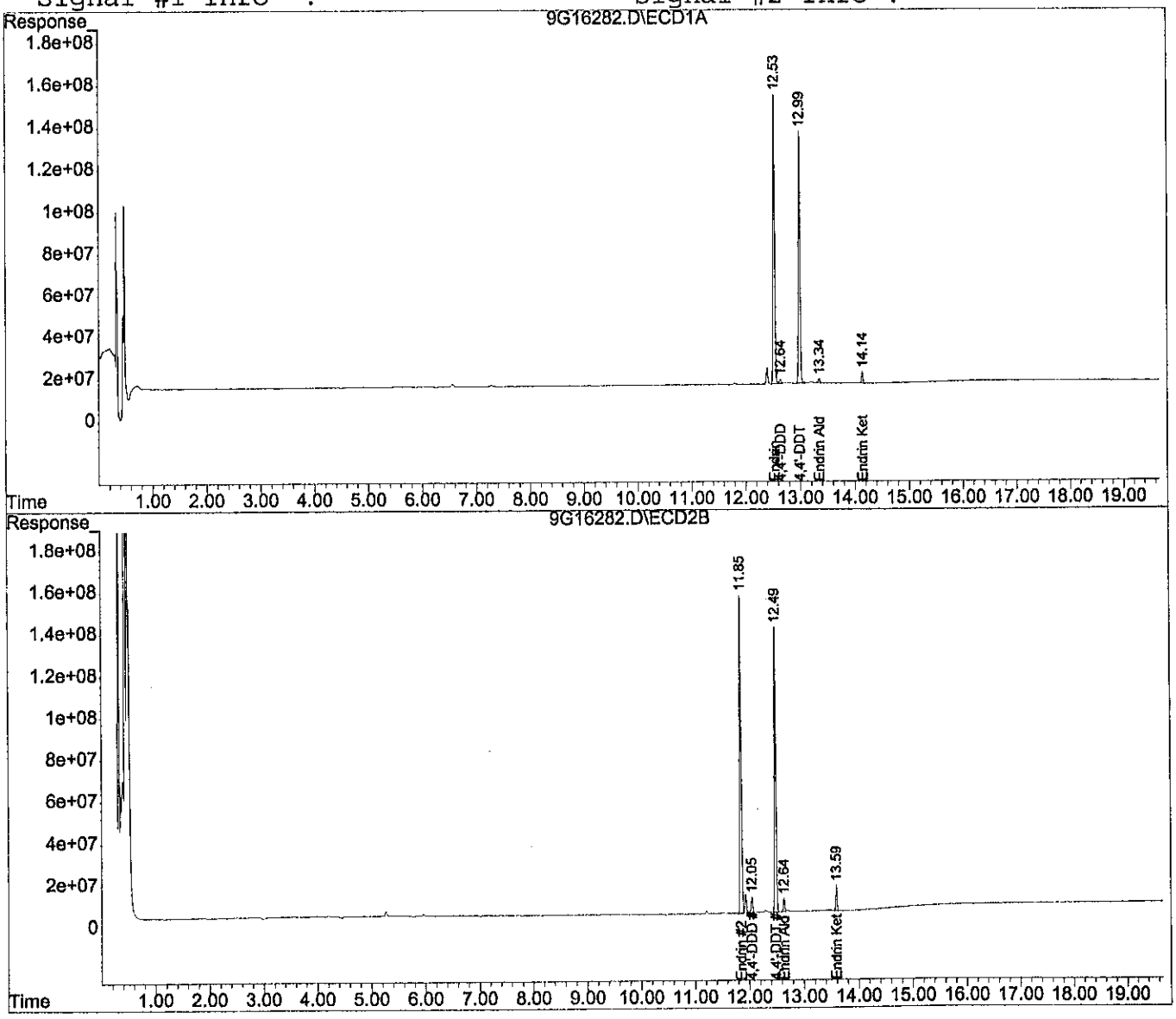
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16282.D 8081.M Mon Jun 18 16:04:04 2001 Page 1

```
Acq On      : 18 Jun 2001  12:51                          Operator: ECL
Sample      : ENDRIN/DDT                                  Inst    : HP9
Misc        :                                             Multiplr: 1.00
IntFile     : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16282.D\ECD2B.CH   Vial: 1
Acq On      : 18 Jun 2001  13:15                          Operator: ECL
Sample      : ENDRIN/DDT                                  Inst    : HP9
Misc        :                                             Multiplr: 1.00
IntFile     : autoint2.e
Quant Time: Jun 18 16:01 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Mon Jun 18 16:00:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.      :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16295.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2680715808	0	80529010	2.92 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2109313610	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16295.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3154887102	66755270	132598674	5.94 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2661582494	0	90678928	3.29 %

Acq On : 18 Jun 2001 20:43 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061801\9G16295.D\ECD2B.CH Vial: 14
Acq On : 18 Jun 2001 21:07 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 19 9:57 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.54	11.85f	2680.7E6	3154.9E6	47.890	49.554
15)	4,4'-DDD	0.00	12.05f	0	90678928	N.D.	1.477 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.00	12.49f	2109.3E6	2661.6E6	40.988	44.958
18)	Endrin Aldehyde	0.00	12.64f	0	66755270	N.D.	1.350 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.15	13.59	80529010	132.6E6	1.666	2.233 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16295.D 8081.M Tue Jun 19 10:01:26 2001 Page 1

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Acq On : 18 Jun 2001 20:43
Sample : ENDRIN/DDT
Misc :
IntFile : autoint1.e

Operator: ECL
Inst : HP9
Multiplr: 1.00

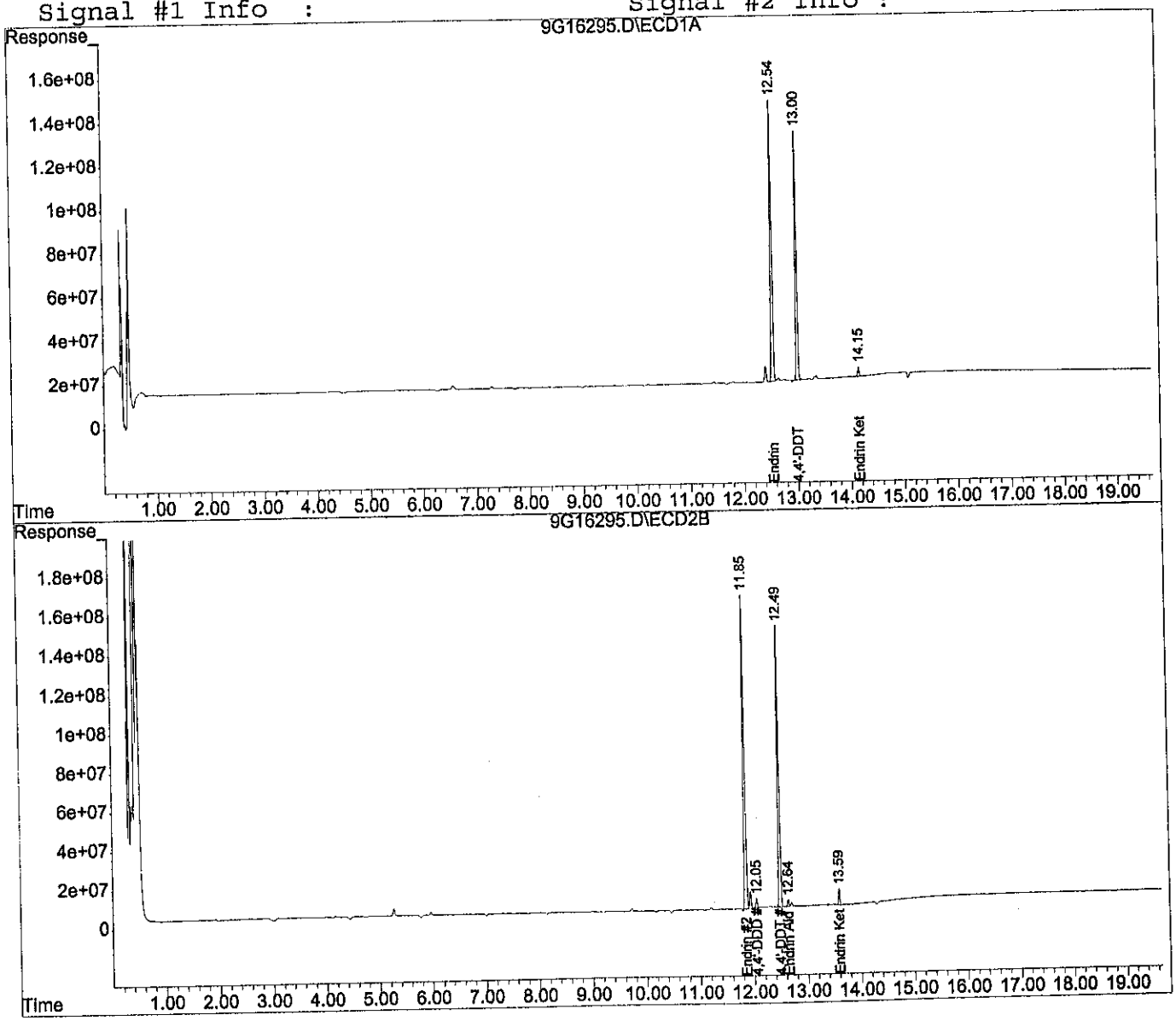
Data File : C:\HPCHEM\1\DATA\061801\9G16295.D\ECD2B.CH Vial: 14
Acq On : 18 Jun 2001 21:07
Sample : ENDRIN/DDT
Misc :
IntFile : autoint2.e
Quant Time: Jun 19 9:57 2001 Quant Results File: 8081.RES

Operator: ECL
Inst : HP9
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16273.D\ECD1A.CH Vial: 19
Acq On : 15 Jun 2001 21:49 Operator: SMW
Sample : WG99229-01 BLANK V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16273.D\ECD2B.CH Vial: 19
Acq On : 15 Jun 2001 22:13 Operator: SMW
Sample : WG99229-01 BLANK V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:21 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.54f	6.63	323.0E6	431.2E6	4.554	4.127
	Spiked Amount 20.000	Range 13 - 154		Recovery =		22.77%	20.63%
22)	S Decachlorobiphen	15.13f	14.78	363.3E6	432.8E6	8.873	8.705
	Spiked Amount 20.000	Range 25 - 140		Recovery =		44.37%	43.53%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

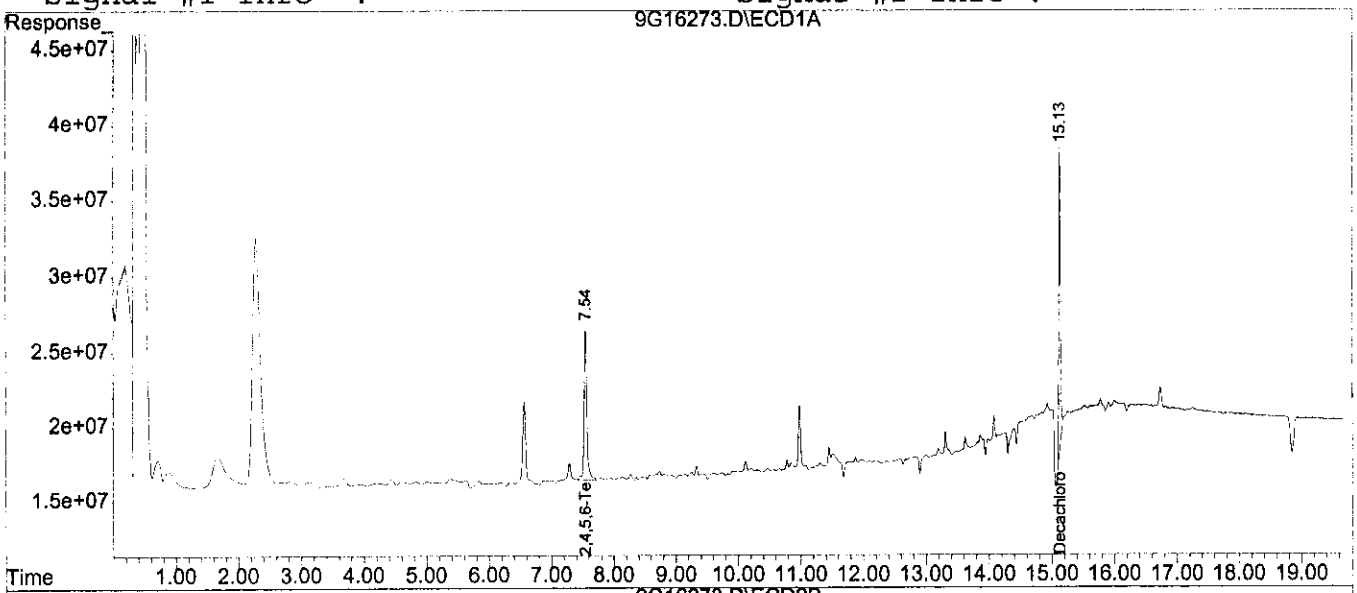
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

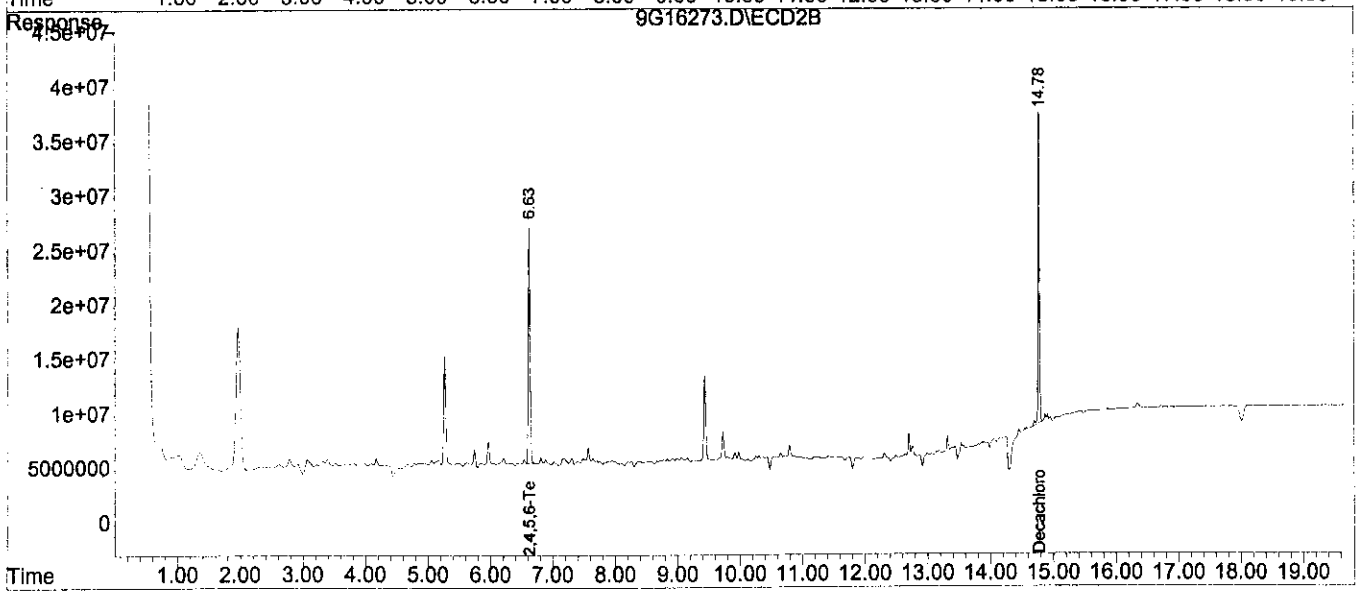
Data File : C:\HPCHEM\1\DATA\061501\9G16273.D\ECD1A.CH Vial: 19
Acq On : 15 Jun 2001 21:49 Operator: SMW
Sample : WG99229-01 BLANK V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16273.D\ECD2B.CH Vial: 19
Acq On : 15 Jun 2001 22:13 Operator: SMW
Sample : WG99229-01 BLANK V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:21 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\061501\9G16274.D\ECD1A.CH Vial: 20
Acq On : 15 Jun 2001 22:13 Operator: SMW
Sample : WG99229-02 LCS V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16274.D\ECD2B.CH Vial: 20
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-02 LCS V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:22 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.55f	6.62f	322.9E6	475.9E6	4.553	4.555
	Spiked Amount 20.000	Range 13 - 154		Recovery =		22.77%	22.77%
22)	S Decachlorobiphen	15.13	14.78	352.0E6	410.6E6	8.597	8.259
	Spiked Amount 20.000	Range 25 - 140		Recovery =		42.98%	41.30%
	Target Compounds						
2)	alpha-BHC	8.58f	7.75f	1855.9E6	2749.1E6	0.194	0.192
3)	gamma-BHC	9.13f	8.36f	2005.9E6	2779.9E6	0.233	0.224
4)	beta-BHC	9.29f	8.52	1104.9E6	1568.1E6	0.291	0.290
5)	Heptachlor	9.91f	9.06f	1539.6E6	2063.6E6	0.197	0.195
6)	delta-BHC	9.58f	8.99	2578.2E6	3589.5E6	0.312	0.308
7)	Aldrin	10.38f	9.56f	1068.6E6	1427.7E6	0.147	0.145
8)	Heptachlor Epoxi	11.30f	10.44f	1931.7E6	2356.5E6	0.292	0.280
9)	gamma-Chlordane	11.48f	10.73	1955.7E6	2461.6E6	0.296	0.286
10)	alpha-Chlordane	11.67f	10.94f	1670.5E6	2316.0E6	0.287	0.286
11)	Endosulfan I	11.87f	11.02	1764.9E6	2199.2E6	0.292	0.284
12)	4,4'-DDE	11.80f	11.22f	1755.6E6	2244.9E6	0.297	0.284
13)	Dieldrin	12.22f	11.42f	1963.2E6	2491.0E6	0.318	0.307
14)	Endrin	12.54f	11.86	1802.6E6	2025.0E6	0.322	0.318
15)	4,4'-DDD	12.64	12.05	1533.7E6	2021.4E6	0.320	0.329
16)	Endosulfan II	12.84f	12.17f	1561.4E6	1925.4E6	0.289	0.290
17)	4,4'-DDT	13.00	12.50	1581.0E6	1792.6E6	0.307	0.303
18)	Endrin Aldehyde	13.35	12.65	816.2E6	946.4E6	0.185	0.191
19)	Endosulfan Sulfa	13.85	12.99	1117.8E6	1249.6E6	0.297	0.256
20)	Methoxychlor	13.58	13.35	776.1E6	1030.4E6	0.347	0.385
21)	Endrin Ketone	14.15	13.60	1358.8E6	1678.4E6	0.281	0.283

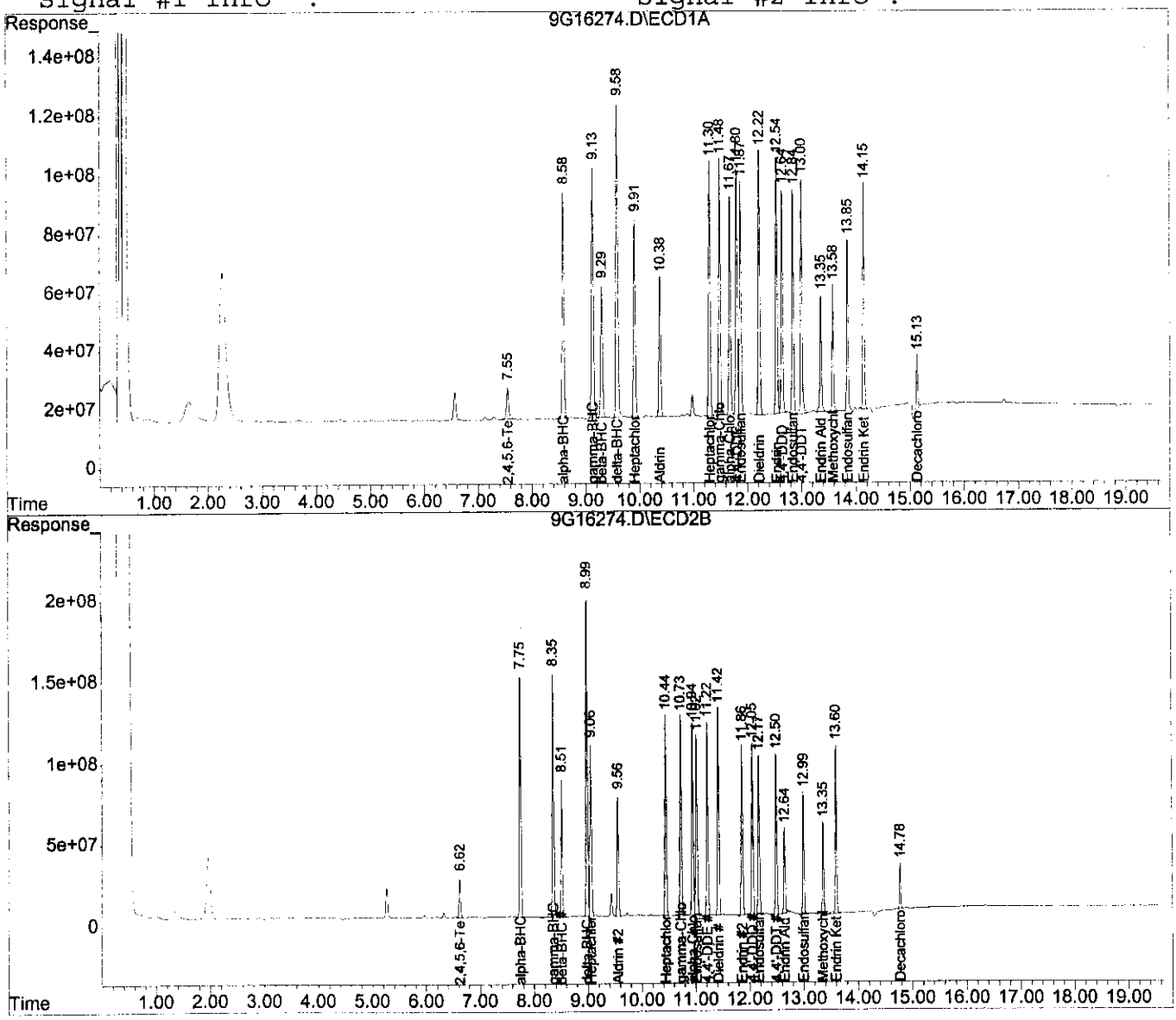
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061501\9G16274.D\ECD1A.CH Vial: 20
Acq On : 15 Jun 2001 22:13 Operator: SMW
Sample : WG99229-02 LCS V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16274.D\ECD2B.CH Vial: 20
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-02 LCS V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:22 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD1A.CH Vial: 21
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD2B.CH Vial: 21
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Jun 18 11:10 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	Target Compounds							
1)	L1 TOXAPHENE-1	12.35	12.28	39029543	138.6E6	0.870	0.645	#
2)	L1 TOXAPHENE-2	13.25	12.65	63935983	146.2E6	1.290	0.975	
3)	L1 TOXAPHENE-3	13.73	13.27	149.2E6	160.3E6	1.378	1.115	
4)	L1 TOXAPHENE-4	13.92	13.33	83570541	73428025	1.653	0.793	#
5)	L1 TOXAPHENE-5	14.13	13.70	110.1E6	126.2E6	1.052	1.987	#
	Sum TOXAPHENE-1			445.8E6	644.8E6	6.243	5.516	
Average	TOXAPHENE-1					1.249	1.103	

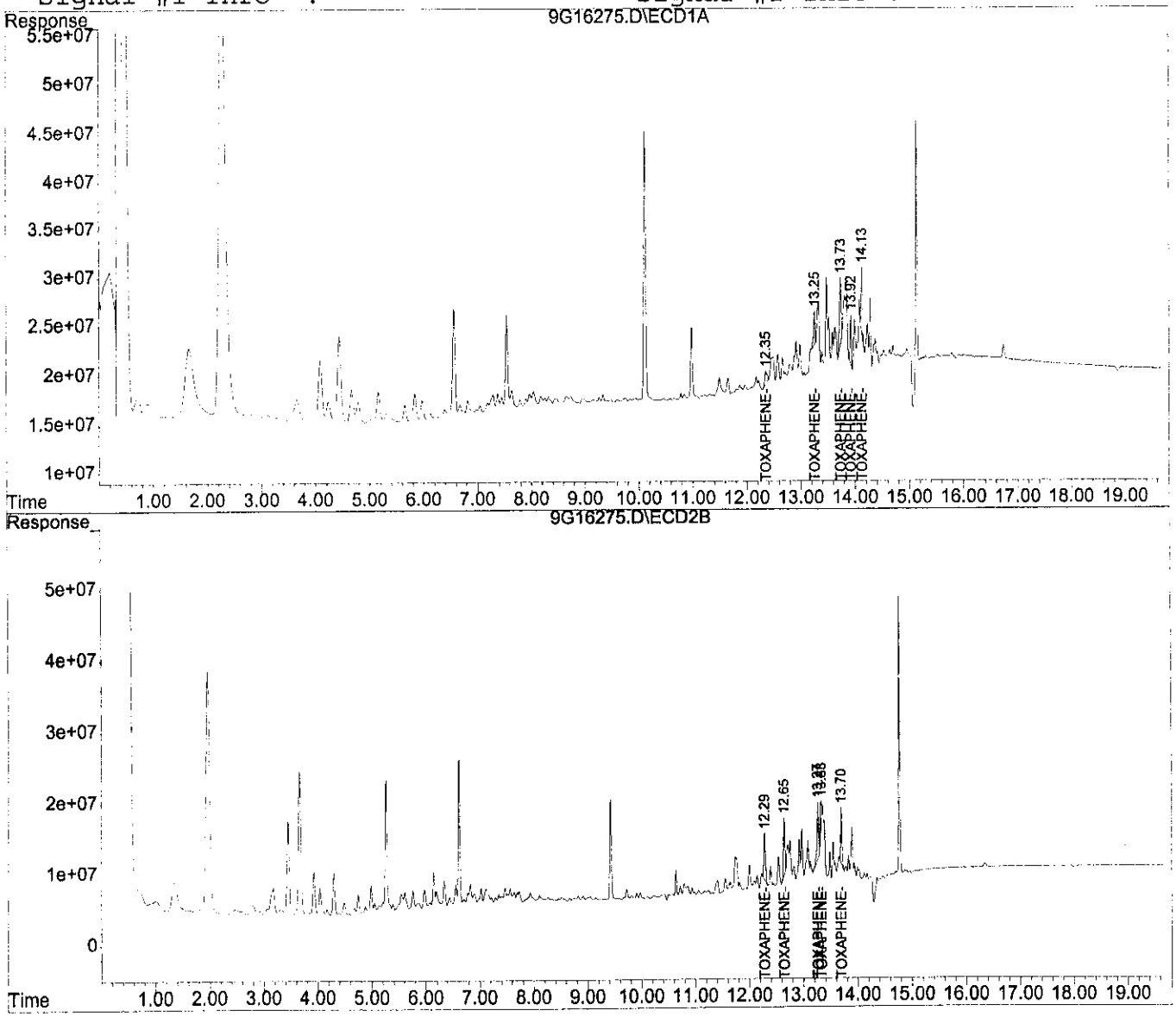
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD1A.CH Vial: 21
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : .E

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD2B.CH Vial: 21
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Jun 18 11:10 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Mon Jun 11 09:45:27 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD1A.CH Vial: 21
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD2B.CH Vial: 21
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:23 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.54f	6.62f	228.8E6	418.3E6	3.225	4.004	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		16.13%	20.02%	
22)	S Decachlorobiphen	15.13	14.77	505.8E6	600.6E6	12.352	12.079	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		61.76%	60.39%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.49	10.72f	78141313	22344854	0.012	0.003	#
10)	alpha-Chlordane	11.66f	0.00	50883199	0	0.009	N.D.	#
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	12.58f	0.00	104.4E6	0	0.019	N.D.	#
15)	4,4'-DDD	12.66	0.00	105.6E6	0	0.022	N.D.	#
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	12.98f	0.00	107.2E6	0	0.021	N.D.	#
18)	Endrin Aldehyde	0.00	12.65	0	201.9E6	N.D.	0.041	#
19)	Endosulfan Sulfa	13.83f	12.97f	458.2E6	153.9E6	0.122	0.032	#
20)	Methoxychlor	13.59	13.33f	99854921	584.5E6	0.045	0.218	#
21)	Endrin Ketone	14.13f	13.59f	248.9E6	33063710	0.051	0.006	#

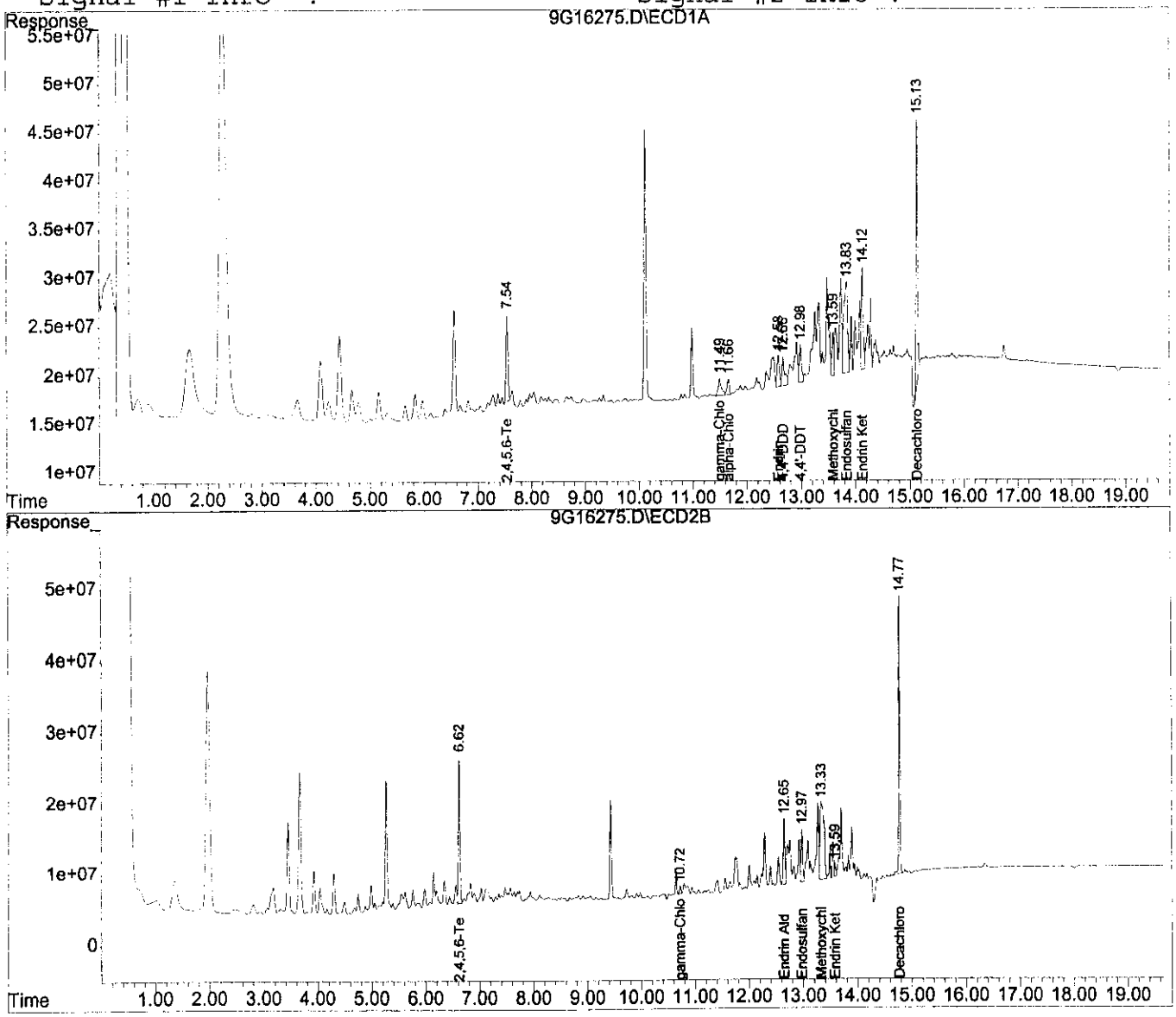
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD1A.CH Vial: 21
Acq On : 15 Jun 2001 22:38 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\061501\9G16275.D\ECD2B.CH Vial: 21
Acq On : 15 Jun 2001 23:02 Operator: SMW
Sample : WG99229-03 LCS TOX V165P61 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: Jun 18 11:23 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Wed Jun 06 09:27:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP Front **Data Subdirectory** 052401

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G159603	ENDRIN/DDT	NA	SV52-34		✓
04	TOX ICAL 20 PPM		SV51-06		
05	10 PPM				
06	0.5 PPM				
07	0.25 PPM				
08	0.1 PPM				✓
09	TOX ALT ICV 0.5 PPM		SV51-07		✓
70	WG98218-01 PEST ICAL 200 PPB		SV53-16		
71	-02 100 PPB				
72	-03 50 PPB				
73	-04 20 PPB				
74	-05 10 PPB				
75	-06 4 PPB				
76	-07 PEST ALT ICV 20 PPB		SQS54-11		✓
77	WG97754-02 BLANK V1b3 P145				
78	-03 LCS V1b3 P145				
79	L0105404-01				
80	WG97754-01 L0105404-02				
81	-04 -03 MS				
82	-05 -04 MSD				
83	L0105404-05				
84	-06				
85	-07				
86	-08				
87	ENDRIN/DDT		SV52-34		
88	WG98218-08 PEST CCV 20 PPB		SV53-16		
89	TOX CCV 0.5 PPM		SV51-06		
90	L0105404-09				
91	-10				
92	WG97756-02 BLANK V1b3 P139				
93	-03 LCS V1b3 P139				
94	L0105404-11				
95	L0105373-01				
96	WG97756-04 L0105373-01 MS				✓

Reviewed By: EC2 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP II **Data Subdirectory** c52401

Analyst Initials EC

Rear

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G159603	ENDRIN/DDT	NA	SV52-34		✓
04	TOX ICAL 2.0 PPM		SV51-06		
05	1.0 PPM				
06	0.5 PPM				
07	0.25 PPM				
08	0.1 PPM				✓
09	TOX ALT ICV 0.5 PPM		SV51-07		✓
10	WG98218-01 PEST ICAL 200 PPB		SV53-16		
11	-02 PEST ICAL 100 PPB				
12	-03 50 PPB				
13	-04 20 PPB				
14	-05 10 PPB				
15	-06 4 PPB				✓
16	-07 PEST ALT ICV 20 PPB		SQS 5411		✓
17	WG97754-02 BLANK V1G3 P145				
18	-03 LCS V1G3 P145				
19	L0105404-01				
80	WG97754-01 L0105404-02				
81	-04 L0105404-03 MS				
82	-05 -04 MSD				
83	L0105404-05				
84	-06				
85	-07				
86	-08				
87	ENDRIN/DDT		SV52-34		✓
88	WG98218-08 PEST CCV 20 PPB		SV53-16		✓
89	TOX CCV 0.5 PPM		SV51-06		✓
90	L0105404-09				
91	~~WG~~ -10				
92	WG97758-02 BLANK V1G3 P139				
93	-03 LCS V1G3 P139				
94	L0105404-11				
95	L0105373-01				
96	WG97758-04 L0105373-01 MS				✓

Reviewed By: EC 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLPII **Data Subdirectory** 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/15/01 Instrument ID HP 9 Column ID RTx-CLP Front Data Subdirectory 061501

Analyst Initials EdL/SAW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G16255	Endrin / DDT	NA	SV52-34		✓
56	Pest. CCV 20 PPB		SV53-16		✓
57	Tox CCV 0.25 PPM		SOS54-17		✓
58	Blank V165 P55 WG 99175-02				
59	LCS -03				
60	LCS Tox -04				
61	L0106226-01 -01				
62	02MS -05				
63	03MSD -06				
64	04				
65	05				
66	06				
67	07				
68	Endrin / DDT		SV52-34		
69	Pest. CCV 50 PPB		SV53-16		
70	Tox CCV 0.25 PPM		SOS54-17		
71	L0106226-08				
72	09				
73	Blank V165 P61 WG 99229-01				
74	LCS 02				
75	Tox LCS 03				
76	L0106236-01				RR10
77	L0106106-07-RE			9G16179	✓
78	L0106034-37	1000			✓
79	Endrin / DDT	NA	SV52-34		✓
80	Pest CCV 20 PPB		SV53-16		✓
81	Tox CCV 0.5 PPM		SOS54-17		✓

EC 6/18/01

Reviewed By: mdl 6/19/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/15/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 061501

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: rdl 6/14/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/15/01 Instrument ID HP9 Column ID RTX-CLPII Rear Data Subdirectory 061501

Analyst Initials ECL/SNW

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
96 16255	Endrin / DDT	NA	SV 52-34		✓
56	Pest CCV 20 PPB		SV 53-16		✓
57	Tox CCV 0.5 PPM		SOS 54-17		✓
58	Blank V165 P55 WG 99175-02				
59	LCS	-03			
60	Tox LCS	-04			
61	L0106 226-01	01			
62	02 MS	05			
63	03 MSD	06			
64	04				
65	05				
66	06				
67	07				
68	Endrin / DDT		SV 52-34		
69	Pest CCV 50 PPB		SV 53-16		
70	Tox CCV 0.25 PPM		SOS 54-17		
71	L0106 226-08				
72	09				
73	Blank V165 P61 WG 99229-01				
74	LCS	02			
75	Tox LCS	03			
76	L0106 236-01				RR10
77	L0106 106-07-RE			96 16179	✓
78	L0106 034-37	1000			✓
79	Endrin / DDT	NA	SV 52-34		✓
80	Pest CCV 20 PPB		SV 53-16		✓
81	Tox CCV 0.5 PPM		SOS 54-17		✓

CCS 6/18/01

Reviewed By: mlc 6/18/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/15/01 Instrument ID HP 9 Column ID RTX-CLP II Data Subdirectory 061501

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: ale 6/19/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP9 Column ID RTx-CLP Front Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G16282	Endrin / DDT	NA	SV52-34		✓
83	Pest CCV 20 PPB		SV53-16		✓
84	Tox CCV 0.5 PPM		SOS 54-17		✓
85	L0106034-38 WG99123-01				
86	39MS 05				
87	40MSD 06				
88	L0106236-01	10			
89	Blank V165 P85 WG99279-02	NA			
90	LCS 03				
91	Tox LCS 04				
92	L0106254-01 -01				
93	01MS 05				
94	01MSD 06				
95	Endrin / DDT		SV52-34		✓
96	Pest CCV 50 PPB		SV53-16		✓
97	Tox CCV 0.25 PPM		SOS 54-17		✓
98	L0106254-02				
99	03				
9G16300	04				
01	05				
02	06				
03	Blank V165 P143 WG99501-01				RE
04	LCS 02				
05	Tox LCS 03				
06	L0106308-21				
07	L0106331-06				✓
08	Endrin / DDT		SV52-34		✓
09	Pest CCV 20 PPB		SV53-16		✓
10	Tox CCV 0.5 PPM		SOS 54-17		✓
11	L0106332-05				RE
12	06				RE
13	Blank V165 P131 WG99439-02				✓
14	LCS 03				✓
15	L0106324-01				✓

Reviewed By: 6/20/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP9 Column ID RTx-CLP Data Subdirectory 061801

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE- T-M-X surrogate failed on all samples. LCS failed 8 compounds.

Reviewed By: _____ 6/20/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/19/01 Instrument ID HP9 Column ID RTX-CLP Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082 (Florisil)
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
96 16316	L0106324-02	NA			✓
17	03				
18	04 WG99439-01				
19	04MS	04			
20	04MSD	05			
21	Pest CCV 50 PPB		SV53-16		*
22	Tox CCV 0.25 PPM		SOS 54-17		
23	L0106278-01				RE
24	Endrin/DPT		SV52-34		✓
25	Pest CCV 20 PPB		SV53-16		✓
26	Tox CCV 0.5 PPM		SOS 54-17		✓

ECL 6/20/01

Reviewed By: _____ 6/20/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/19/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 061801

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE - sample was spiked. QNS for reextraction. ~~dup~~
need to resample.

* - Endosulfan sulfate failed high.

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP 9 Column ID RTx-CLP II Rear Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G16282	Endrin / pDT	NA	SV52-34		✓
83	Pest. CCV 20 PPB		SV53-16		✓
84	Tox CCV 0.5 PPM		SOS54-17		✓
85	L0106034-38 WG99123-01				
86	39 MS 05				
87	40 MSD 06				
88	L0106236-01	10			
89	Blank V165 P85 WG99279-02	NA			
90	LCS -03				
91	Tox LCS -04				
92	L0106254-01 -01				
93	01MS -05				
94	01MSD -06				
95	Endrin / pDT		SV52-34		✓
96	Pest CCV 50 PPB		SV53-16		✓
97	Tox CCV 0.25 PPM		SOS54-17		✓
98	L0106254-02				
99	03				
9G16300	04				
01	05				
02	06				
03	Blank V165 P143 WG99501-01				RE
04	LCS 02				
05	Tox LCS 03				
06	L0106308-21				
07	L0106331-06				✓
08	Endrin / pDT		SV52-34		✓
09	Pest CCV 20 PPB		SV53-16		✓
10	Tox CCV 0.5 PPM		SOS54-17		✓
11	L0106332-05				RE
12	06				RE
13	Blank V165 P131 WG99439-02				✓
14	LCS -03				✓
15	L0106324-01				✓

Reviewed By: mdc 6/20/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP 9 Column ID RTx-CLP II Data Subdirectory 061801

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE- T-M-X surrogate failed in all samples & LCS failed 8 compounds

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/19/01 Instrument ID HP9 Column ID RTx-CLP II Rear Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
96 16316	L0106324-02	NA			✓
17	03				
18	04 WG99439-01				
19	04MS 04				
20	04MD 05				
21	Pest CCV 50 PPB		SV53-16		
22	Tox CCV 0.25 PPM		SOS 54-17		
23	L0106278-01				RE
24	Endrin/DPT		SV 52-34		✓
25	Pest CCV 20 PPB		SV 53-16		✓
26	Tox CCV 0.5 PPM		SOS 54-17		✓

6/20/01

Reviewed By: [illegible] 6/20/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP 9 Column ID RTX-CLP II Data Subdirectory 061801

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE - sample was spilled. QNS for reextraction. needs to be resampled.

Reviewed By: _____

Volume 165
Page 61

Parameter: Pest-H_2O SOP #: CXP01 Revision #: 9
Extraction Analyst(s): TM TV/KD Analyst(s): JAQ
Date/Time Extracted: 06/12/01 @ 1500 Date TV/KD: 06/12/01
Spike/Surrogate Analyst: TM Witness: JEA
Surrogate #: ES50037-22 Earliest Hold Date: 06/15/01
Spike #: A = ES50037-26 Spike #: B = ES50036-48

Extraction Work Group WG 99229
Analytical Work Group WG 99305
Extract Relinquished By: DD
Extract Received By & Date: [illegible] 6/12/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	200µl		10ml	T				WG 99229-01
2	LCS			✓		1	1	A 250µl	1	1				WG 1 -02
3	LCS TOX			✓		1	1	B 100µl	1	1				WG 1 -03
4	06-236-01	8081		✓		920ml	1	1	1	C				
5	06-106-07	8081P-1PCB		✓		1L	1	1	1	T				Re-extract, 1g
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

6/12/01 JAQ

Methylene Chloride Lot #: 41016
Hexane Lot #: 40336
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 94:6 Lot #: ER1761
Reagent: 50:50 Lot #: ER1711
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: T49556
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1738

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 6/13/01

Extraction Notes For Volume # 165 Page # 061

General Comments: None.

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

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Example 8081 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
Where:	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
Where:	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.3 PCB GC Data (8082)

REPORT NARRATIVE
GC PCB

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: There were no MS/MSD results associated with this batch.

SAMPLES

Surrogates: All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie L Tepe DATE: 6/22/01

Rev. 7/14/00

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Date: 6-6-01
Analyst: SMW
Method: 8082
Instrument: HP7R
Work Group: _____

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	✓
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	
Project / Client Specific Requirements	
Special Standards	
Blanks	
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	
Recoveries	
Surrogates	
MS / MSD / Duplicates	
Samples	
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	
Case Narrative	
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked SMW 6-11-01

Secondary Reviewer Initials & Date Checked RDC 6/11/01

✓ • Check for compliance with Method and project-specific requirements
NA • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked RDC 6/11/01

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

Date: 6-27-01
Analyst: SMW
Method: 8082
Instrument: HP7R
Work Group: 99310, 99336, 99390, 98874

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	NA
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	—
Check Standards	✓
Project / Client Specific Requirements	
Special Standards	
Blanks	
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	
Recoveries	
Surrogates	
MS / MSD / Duplicates	
Samples	
TCL Hits	
Surrogates	
Calculations & Correct Factors	—
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

06-200
06-236
06-071
06-269

Primary Reviewer Initials & Date Checked SMW 6-15-01

Secondary Reviewer Initials & Date Checked HV 6/15/01

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked [illegible] 6/15/01

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

PCB-GC DATA (8082)

Login Number: L0006230

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: SMW Date: 06-20-01

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , REAR

EXT'N DATE : 06/12/2001
EXT'N BENCH SHT : V165P83
EXT'N WORK GRP : WG99230

INSTRUMENT : HP7
ANALYST : SMW
RUN DATE : 06/14/2001
ANAL WORK GRP : WG99306

BLK FLNM : 7G13144R
LCS FLNM : 7G13145R

SMPL ID : NA
SMPL FLNM : NA
MS FLNM : NA
MSD FLNM : NA

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY								PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	1.66	ND	NA	NA	NA	66.4	39	113	NA	NA	NA	39	113	NA	0-46					
AROCLOR 1221	0.5	ND	NS	ND	NS	NS	NA	NS	15	175	NA	NS	NS	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NS	ND	NS	NS	NA	NS	15	210	NA	NS	NS	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NS	ND	NS	NS	NA	NS	35	154	NA	NS	NS	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	NS	ND	NS	NS	NA	NS	34	116	NA	NS	NS	34	116	NA	0-31					
AROCLOR 1254	0.5	ND	NS	ND	NS	NS	NA	NS	25	135	NA	NS	NS	25	135	NA	0-38					
AROCLOR 1260	0.5	ND	1.81	ND	NA	NA	NA	72.3	44	129	NA	NA	NA	44	129	NA	0-41					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		4.54	6.16	NA	NA	NA	22.7	30.8	13	154	NA	NA	NA	13	154							
DECACHLOROBIPHENYL		12.8	13.9	NA	NA	NA	63.9	69.5	25	140	NA	NA	NA	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

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2.2.3.2 Sample Data

Acq On : 14 Jun 2001 16:59 Operator: SMW
Sample : L0106236-01 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Jun 15 11:01 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	77008	18.158 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	90.79%
12) S DECACHLOROBIPHENYL	9.44	33170	6.638 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	33.19%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.73	26584	2.498 UG/L
Sum PCB1016		26584	2.498 UG/L
Average PCB1016			2.498 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L d
8) L2 PCB1260{2}	7.13f	57399	1.569 UG/L
9) L2 PCB1260{3}	7.39	106862	3.849 UG/L
10) L2 PCB1260{4}	8.10	63303	1.470 UG/L
11) L2 PCB1260{5}	8.99	26694	1.801 UG/L
Sum PCB1260		254258	8.690 UG/L
Average PCB1260			2.172 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13146R.D 8082R.M Fri Jun 15 11:02:11 2001 Page 1

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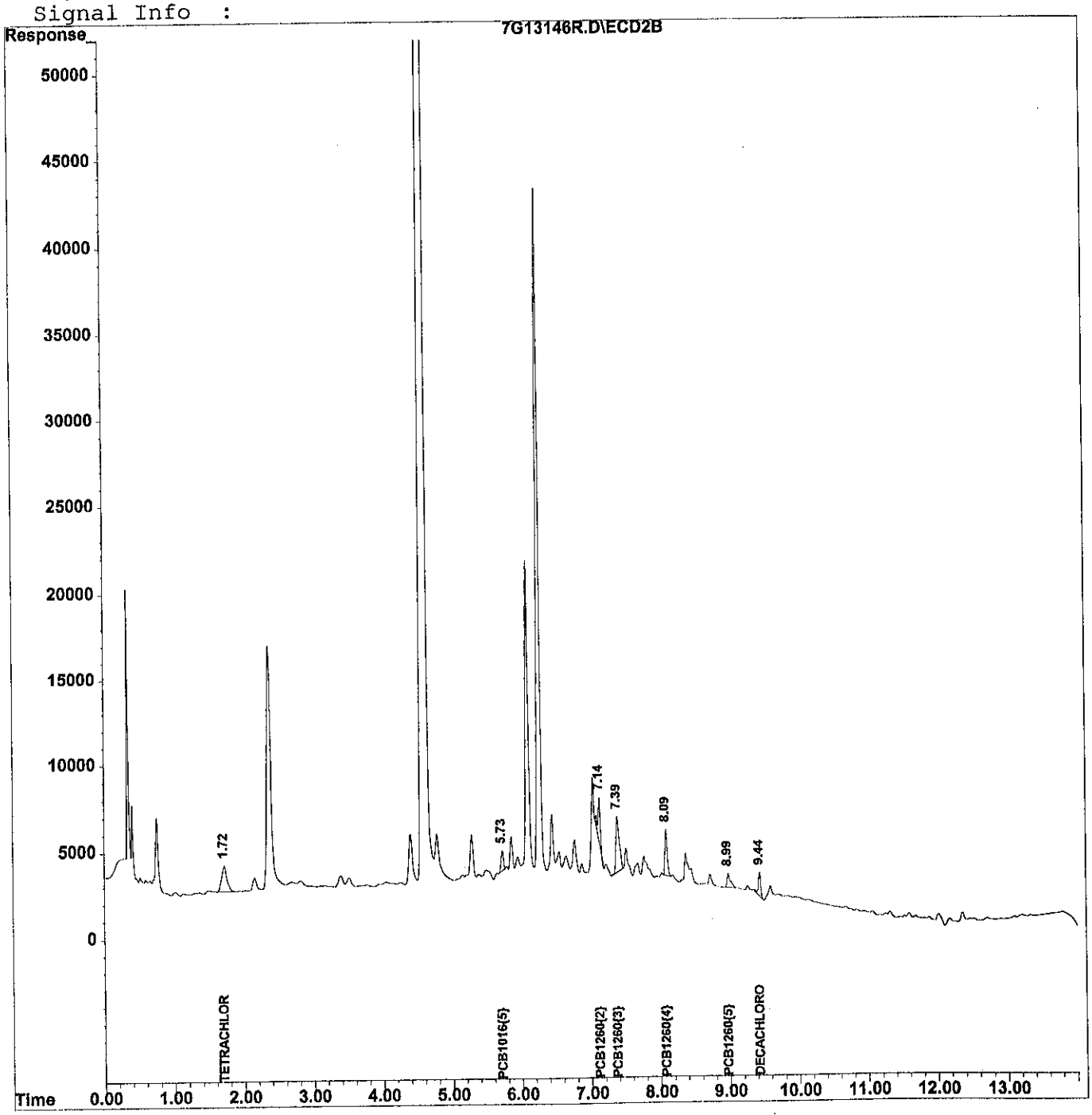
Acq On : 14 Jun 2001 16:59
Sample : L0106236-01
Misc : 1,1
IntFile : EVENTS.E
Quant Time: Jun 15 11:01 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.3 Standards Data

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001

Calibration Files
50 =7G13027R.D 100 =7G13026R.D 250 =7G13025R.D
500 =7G13024R.D 1000 =7G13023R.D 2000 =7G13022R.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	5.492	4.807	4.217	3.677	3.862	3.391	4.241	E3	18.48
2)	L1	PCB1016{1}	1.923	2.078	1.966	1.775	1.813	1.538	1.849	E2	10.13
3)	L1	PCB1016{2}	1.058	1.157	1.087	0.988	1.010	0.872	1.029	E2	9.45
4)	L1	PCB1016{3}	3.124	3.373	3.187	2.920	2.969	2.390	2.994	E2	11.26
5)	L1	PCB1016{4}	3.543	3.788	3.665	3.346	3.475	3.056	3.479	0	7.40
6)	L1	PCB1016{5}	1.236	1.287	1.226	1.136	1.134	1.004	1.170	E2	8.66
7)	L2	PCB1260{1}	1.174	1.222	1.164	1.063	1.060	0.912	1.099	E2	10.18
8)	L2	PCB1260{2}	4.519	4.668	4.222	4.317	3.561	2.860	4.024	E2	17.05
9)	L2	PCB1260{3}	3.163	3.411	3.220	2.987	3.003	2.540	3.054	E2	9.69
10)	L2	PCB1260{4}	5.305	5.512	5.101	4.487	4.432	3.575	4.735	E2	15.12
11)	L2	PCB1260{5}	1.693	1.805	1.720	1.583	1.605	1.374	1.630	E2	9.16
12)	S	DECACHLOROBIPHENYL	5.340	5.516	5.852	4.727	4.745	3.803	4.997	E3	14.66

(#) = Out of Range
8082R.M Mon Jun 11 09:23:54 2001 Page 1
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Data File : C:\HPCHEM\1\DATA\060701.SEC\7G13022R.D Vial: 52
Acq On : 7 Jun 2001 13:43 Operator: SMW
Sample : 1660 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:48 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

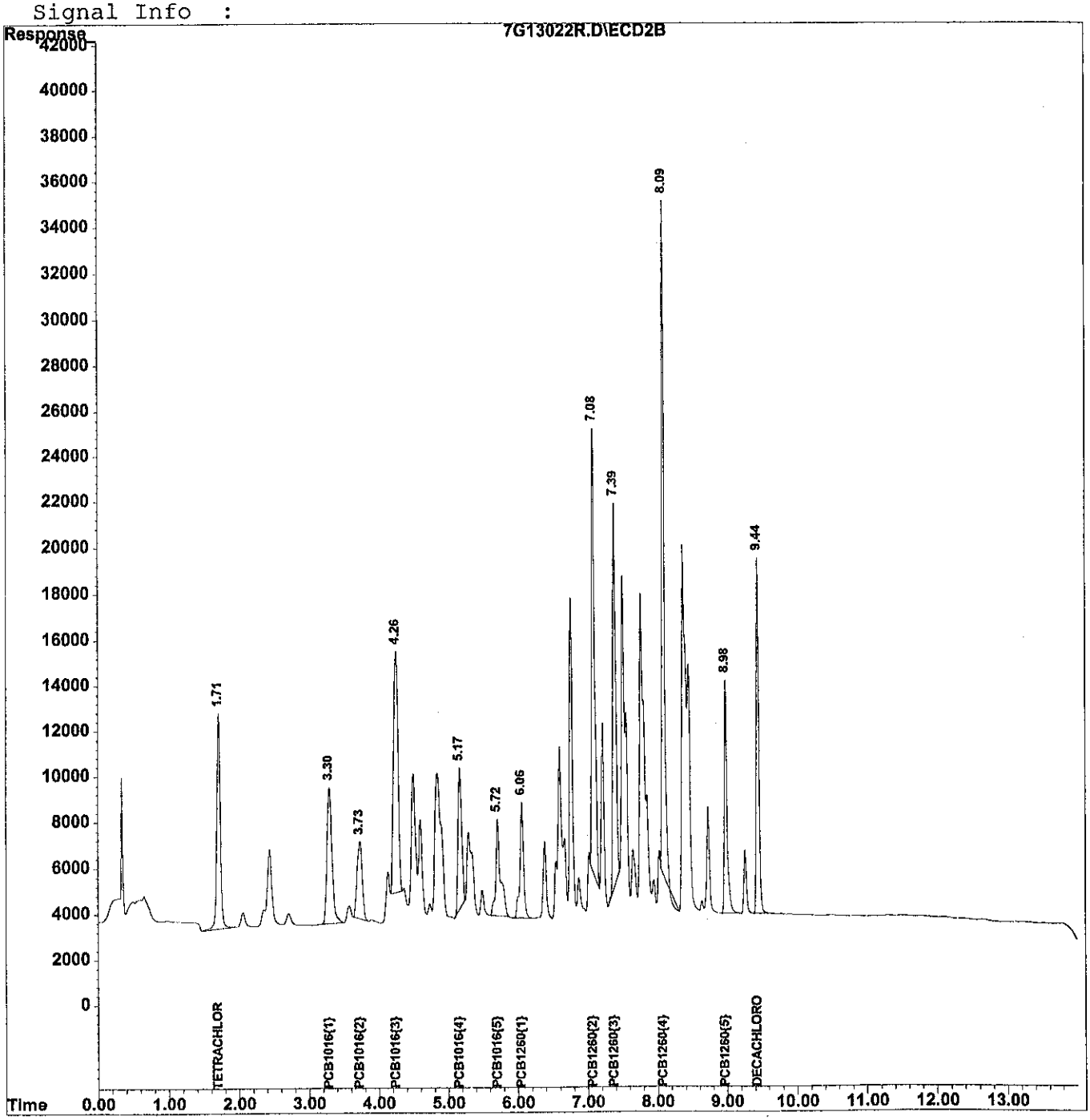
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.71	339124	79.962 UG/L
Spiked Amount 20.000 Range 13 - 154	Recovery = 399.81%#		
12) S DECACHLOROBIPHENYL	9.44	380260	76.098 UG/L
Spiked Amount 20.000 Range 25 - 140	Recovery = 380.49%#		
Target Compounds			
2) L1 PCB1016{1}	3.30	307593	1663.693 UG/L
3) L1 PCB1016{2}	3.74	174444	1695.784 UG/L
4) L1 PCB1016{3}	4.26	478057	1596.831 UG/L
5) L1 PCB1016{4}	5.17	6112	1756.854 UG/L
6) L1 PCB1016{5}	5.72	200733	2074.145 UG/L
Sum PCB1016		1166939	8787.307 UG/L
Average PCB1016			1757.461 UG/L
7) L2 PCB1260{1}	6.07	182467	1659.874 UG/L
8) L2 PCB1260{2}	7.08	571980	1354.730 UG/L
9) L2 PCB1260{3}	7.39	508018	1663.386 UG/L
10) L2 PCB1260{4}	8.09	715011	1509.929 UG/L
11) L2 PCB1260{5}	8.99	274704	1685.330 UG/L
Sum PCB1260		2252181	7873.249 UG/L
Average PCB1260			1574.650 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int
7G13022R.D 8082R.M Mon Jun 11 08:50:25 2001 Page 4

Data File : C:\HPCHEM\1\DATA\060701.SEC\7G13022R.D Vial: 32
Acq On : 7 Jun 2001 13:43 Operator: SMW
Sample : 1660 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:48 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 7 Jun 2001 14:19 Operator: SMW
Sample : 1660 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:48 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	193113	45.534 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 227.67%#	
12) S DECACHLOROBIPHENYL	9.45	237228	47.474 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 237.37%#	
Target Compounds			
2) L1 PCB1016{1}	3.31	181319	980.709 UG/L
3) L1 PCB1016{2}	3.74	101039	982.206 UG/L
4) L1 PCB1016{3}	4.27	296865	991.605 UG/L
5) L1 PCB1016{4}	5.18	3475	998.866 UG/L
6) L1 PCB1016{5}	5.72	113360	1060.672 UG/L
Sum PCB1016		696059	5014.059 UG/L
Average PCB1016			1002.812 UG/L
7) L2 PCB1260{1}	6.07	106015	964.402 UG/L
8) L2 PCB1260{2}	7.09	356135	843.502 UG/L
9) L2 PCB1260{3}	7.39	300253	983.108 UG/L
10) L2 PCB1260{4}	8.09	443226	935.985 UG/L
11) L2 PCB1260{5}	8.99	160519	984.797 UG/L
Sum PCB1260		1366148	4711.794 UG/L
Average PCB1260			942.359 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13023R.D 8082R.M Mon Jun 11 08:50:27 2001 Page 1

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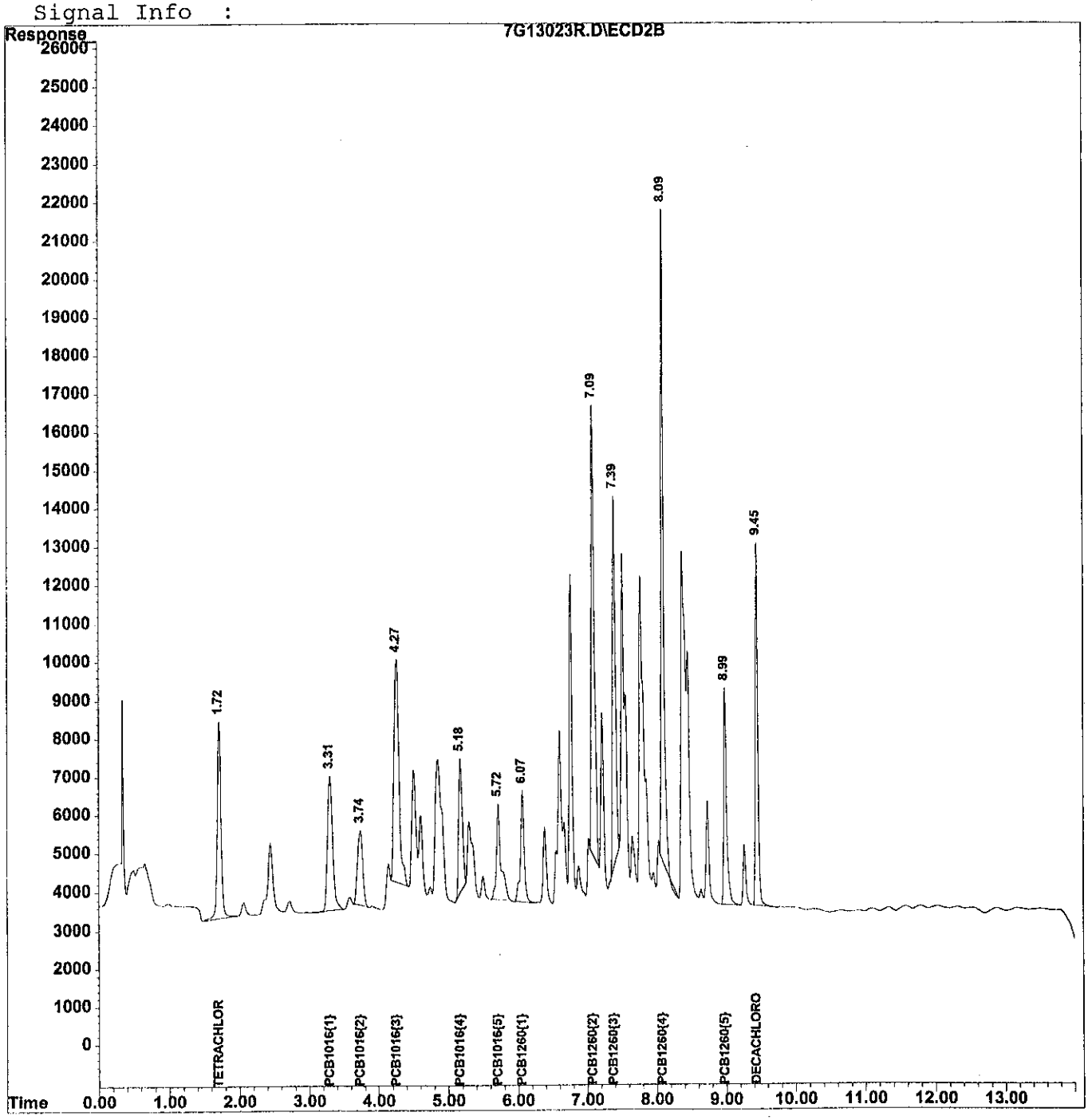
Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 7 Jun 2001 14:19 Operator: SMW
Sample : 1660 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:48 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 14:38 Operator: SMW
Sample : 1660 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:50 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	91919	21.674 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 108.37%	
12) S DECACHLOROBIPHENYL	9.45	118168	23.648 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 118.24%	
Target Compounds			
2) L1 PCB1016{1}	3.31	88749	480.019 UG/L
3) L1 PCB1016{2}	3.75	49377	479.992 UG/L
4) L1 PCB1016{3}	4.27	145988	487.637 UG/L
5) L1 PCB1016{4}	5.18	1673	480.916 UG/L
6) L1 PCB1016{5}	5.72	56794	485.245 UG/L
Sum PCB1016		342580	2413.809 UG/L
Average PCB1016			482.762 UG/L
7) L2 PCB1260{1}	6.07	53157	483.561 UG/L
8) L2 PCB1260{2}	7.09	215829	536.306 UG/L
9) L2 PCB1260{3}	7.40	149364	489.057 UG/L
10) L2 PCB1260{4}	8.10	224325	473.720 UG/L
11) L2 PCB1260{5}	8.99	79136	485.505 UG/L
Sum PCB1260		721811	2468.149 UG/L
Average PCB1260			493.630 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int
7G13024R.D 8082R.M Mon Jun 11 08:50:53 2001 Page 1

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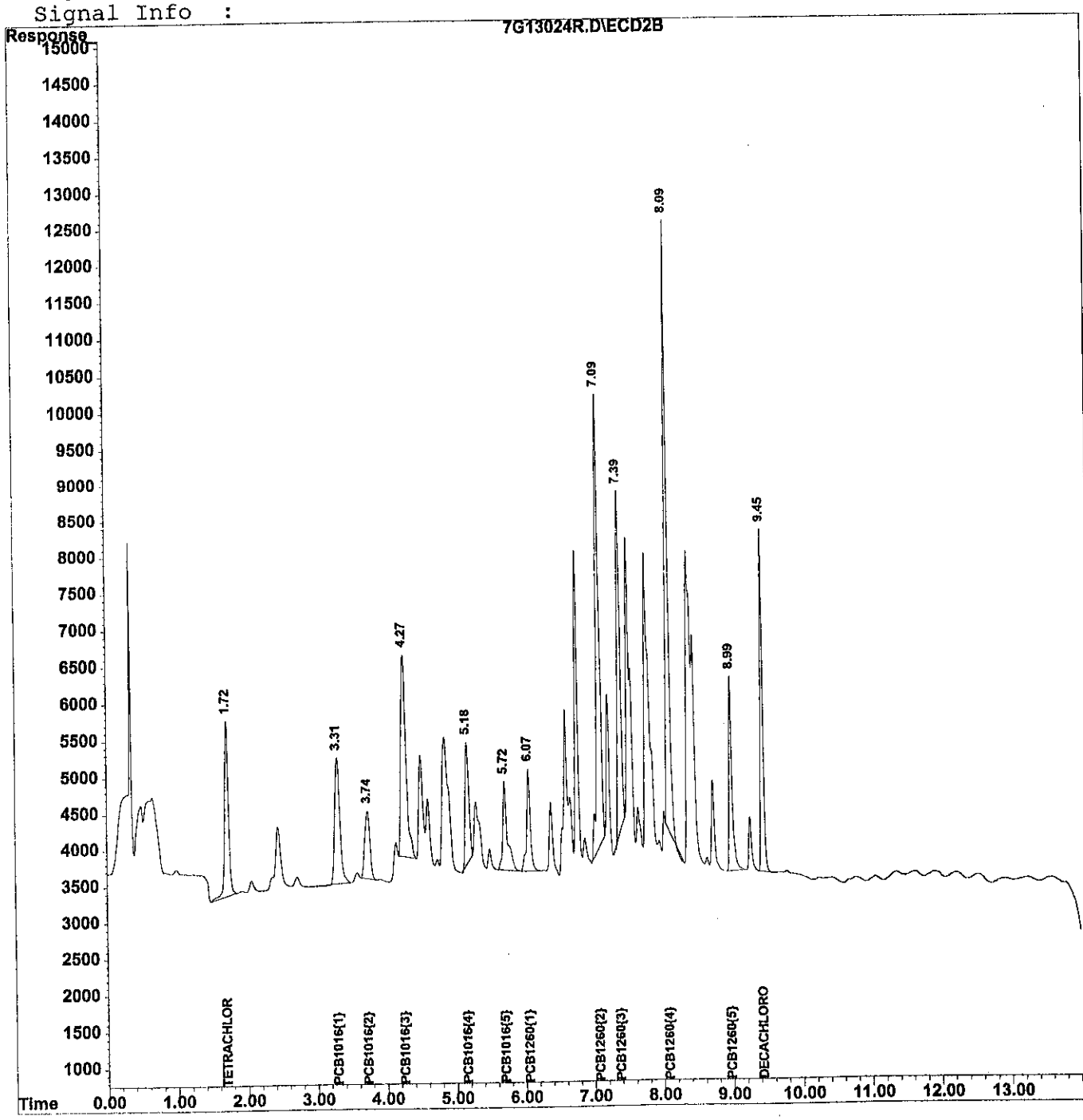
Acq On : 7 Jun 2001 14:38
Sample : 1660 ICAL 0.5 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Jun 11 8:50 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



7G13024R.D 8082R.M Mon Jun 11 08:50:54 2001 Page 2

457

Data File : C:\HPCHEM\1\DATA\[illegible]

Acq On : 7 Jun 2001 14:57 Operator: SMW
Sample : 1660 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:50 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

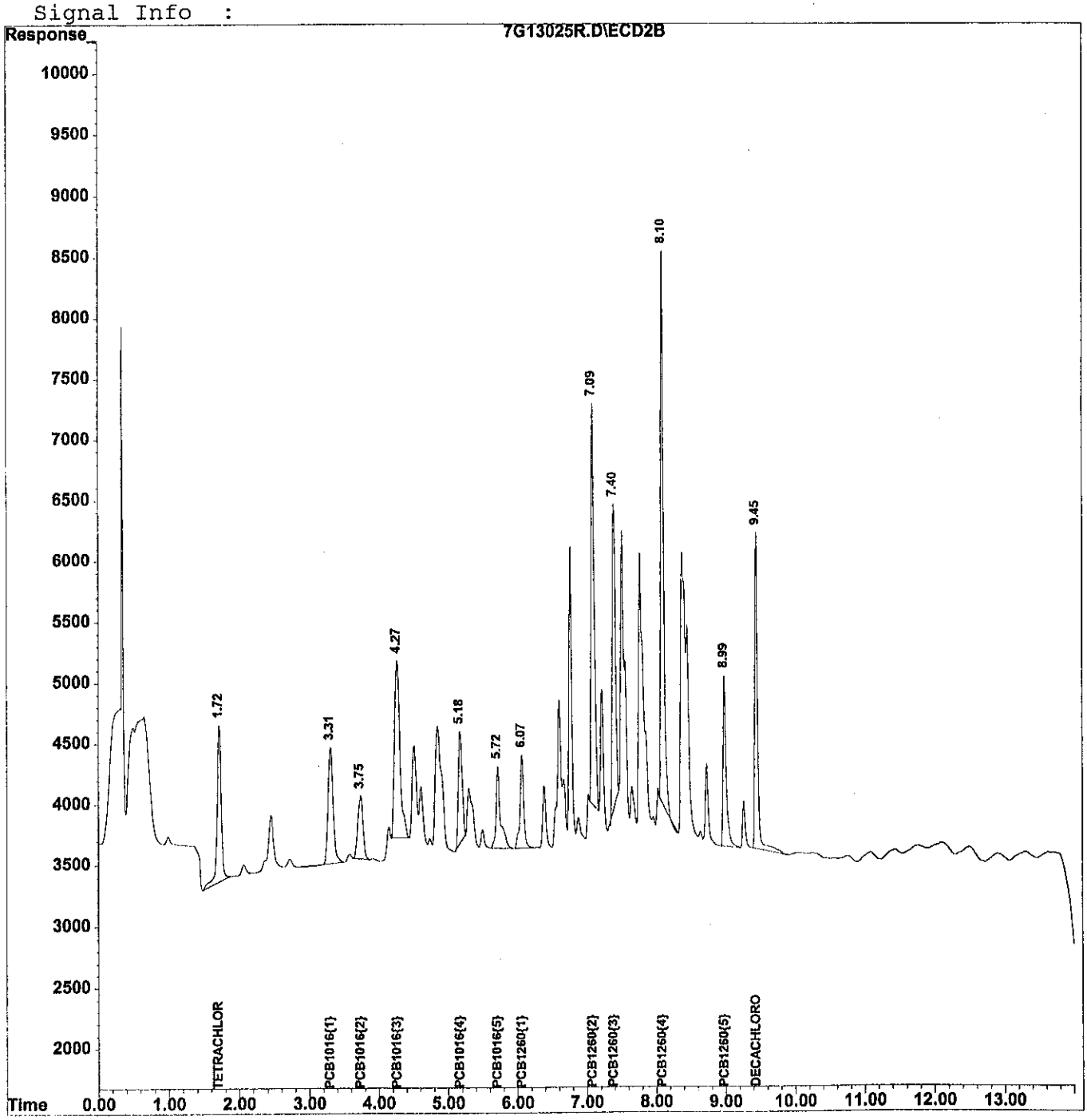
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	52716	12.430 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.15%
12) S DECACHLOROBIPHENYL	9.45	73150	14.639 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	73.19%
Target Compounds			
2) L1 PCB1016{1}	3.31	49142	265.798 UG/L
3) L1 PCB1016{2}	3.75	27171	264.130 UG/L
4) L1 PCB1016{3}	4.27	79680	266.150 UG/L
5) L1 PCB1016{4}	5.18	916	263.373 UG/L
6) L1 PCB1016{5}	5.72	30640	261.791 UG/L
Sum PCB1016		187549	1321.241 UG/L
Average PCB1016			264.248 UG/L
7) L2 PCB1260{1}	6.08	29095	264.669 UG/L
8) L2 PCB1260{2}	7.09	105543	262.259 UG/L
9) L2 PCB1260{3}	7.40	80509	263.609 UG/L
10) L2 PCB1260{4}	8.10	127537	269.327 UG/L
11) L2 PCB1260{5}	8.99	43005	263.838 UG/L
Sum PCB1260		385689	1323.703 UG/L
Average PCB1260			264.741 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13025R.D 8082R.M Mon Jun 11 08:50:57 2001 Page 8

Acq On : 7 Jun 2001 14:57 Operator: SMW
Sample : 1660 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:50 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\[illegible] Vial: 60
Acq On : 7 Jun 2001 15:16 Operator: SMW
Sample : 1660 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:49 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	24033	5.667 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 28.34%	
12) S DECACHLOROBIPHENYL	9.45	27580	5.519 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 27.60%	
Target Compounds			
2) L1 PCB1016{1}	3.31	20785	112.420 UG/L
3) L1 PCB1016{2}	3.75	11571	112.486 UG/L
4) L1 PCB1016{3}	4.28	33733	112.675 UG/L
5) L1 PCB1016{4}	5.18	379	108.889 UG/L
6) L1 PCB1016{5}	5.73	12872	109.981 UG/L
Sum PCB1016		79340	556.453 UG/L
Average PCB1016			111.291 UG/L
7) L2 PCB1260{1}	6.08	12220	111.166 UG/L
8) L2 PCB1260{2}	7.09	46678	110.558 UG/L
9) L2 PCB1260{3}	7.40	34110	111.685 UG/L
10) L2 PCB1260{4}	8.10	55121	116.401 UG/L
11) L2 PCB1260{5}	8.99	18052	110.748 UG/L
Sum PCB1260		166181	560.557 UG/L
Average PCB1260			112.111 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13026R.D 8082R.M Mon Jun 11 08:50:31 2001 Page 1

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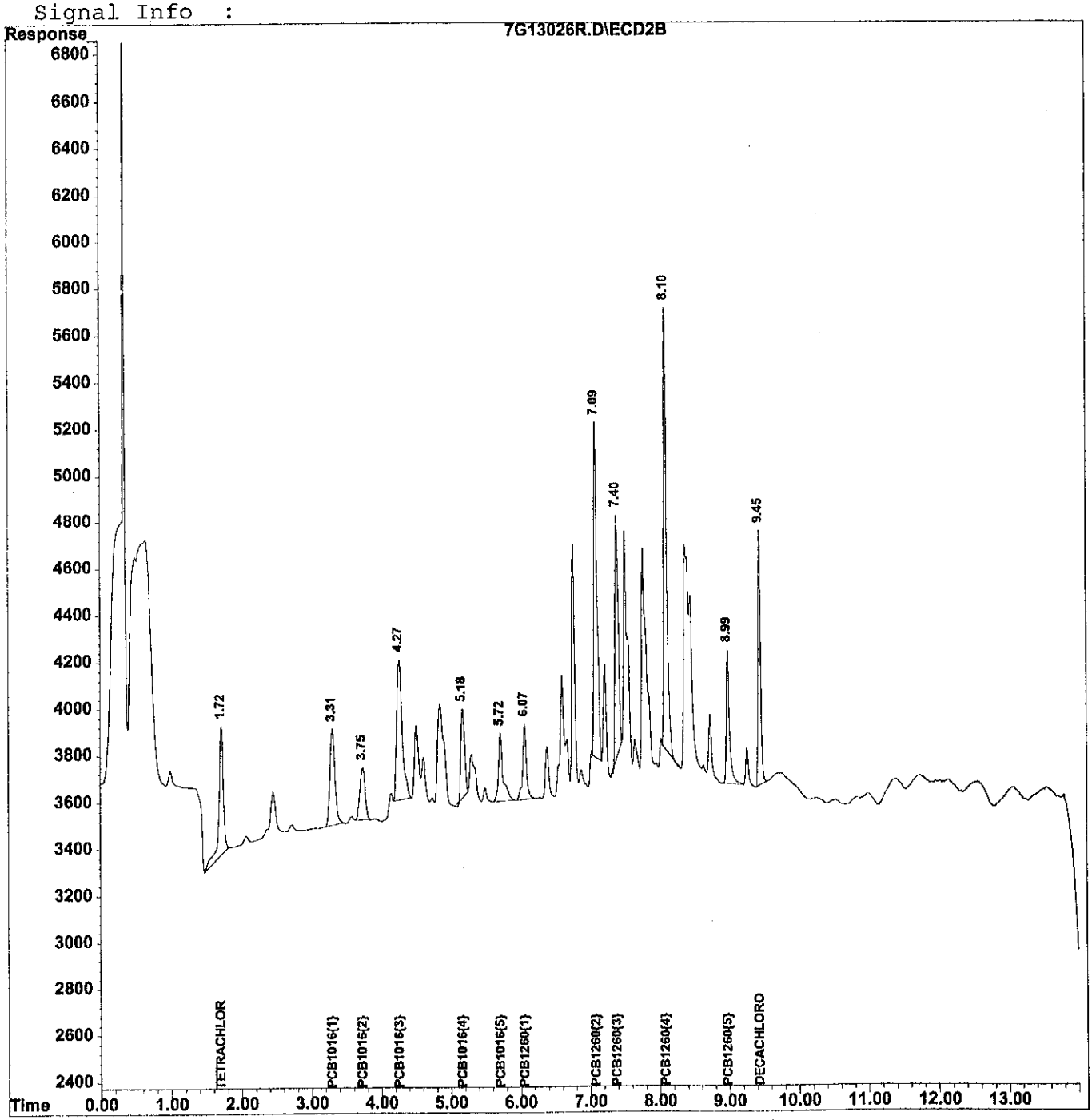
Data File : C:\HPCHEM\1\DATA\000701.SEC\7G13026R.D
Acq On : 7 Jun 2001 15:16 Operator: SMW
Sample : 1660 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:49 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\000701.B\7G13027R.D Vial: 37
Acq On : 7 Jun 2001 15:36 Operator: SMW
Sample : 1660 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:49 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	13731	3.238 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	16.19%
12) S DECACHLOROBIPHENYL	9.45	13350	2.672 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	13.36%#
Target Compounds			
2) L1 PCB1016{1}	3.32	9614	52.001 UG/L
3) L1 PCB1016{2}	3.75	5290	51.427 UG/L
4) L1 PCB1016{3}	4.28	15618	52.168 UG/L
5) L1 PCB1016{4}	5.18	177	50.925 UG/L
6) L1 PCB1016{5}	5.73	6182	52.823 UG/L
Sum PCB1016		36882	259.342 UG/L
Average PCB1016			51.868 UG/L
7) L2 PCB1260{1}	6.08	5871	53.410 UG/L
8) L2 PCB1260{2}	7.09	22594	54.883 UG/L
9) L2 PCB1260{3}	7.40	15817	51.790 UG/L
10) L2 PCB1260{4}	8.10	26525	56.014 UG/L
11) L2 PCB1260{5}	9.00	8465	51.935 UG/L
Sum PCB1260		79273	268.032 UG/L
Average PCB1260			53.606 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13027R.D 8082R.M Mon Jun 11 08:50:34 2001 Page 1

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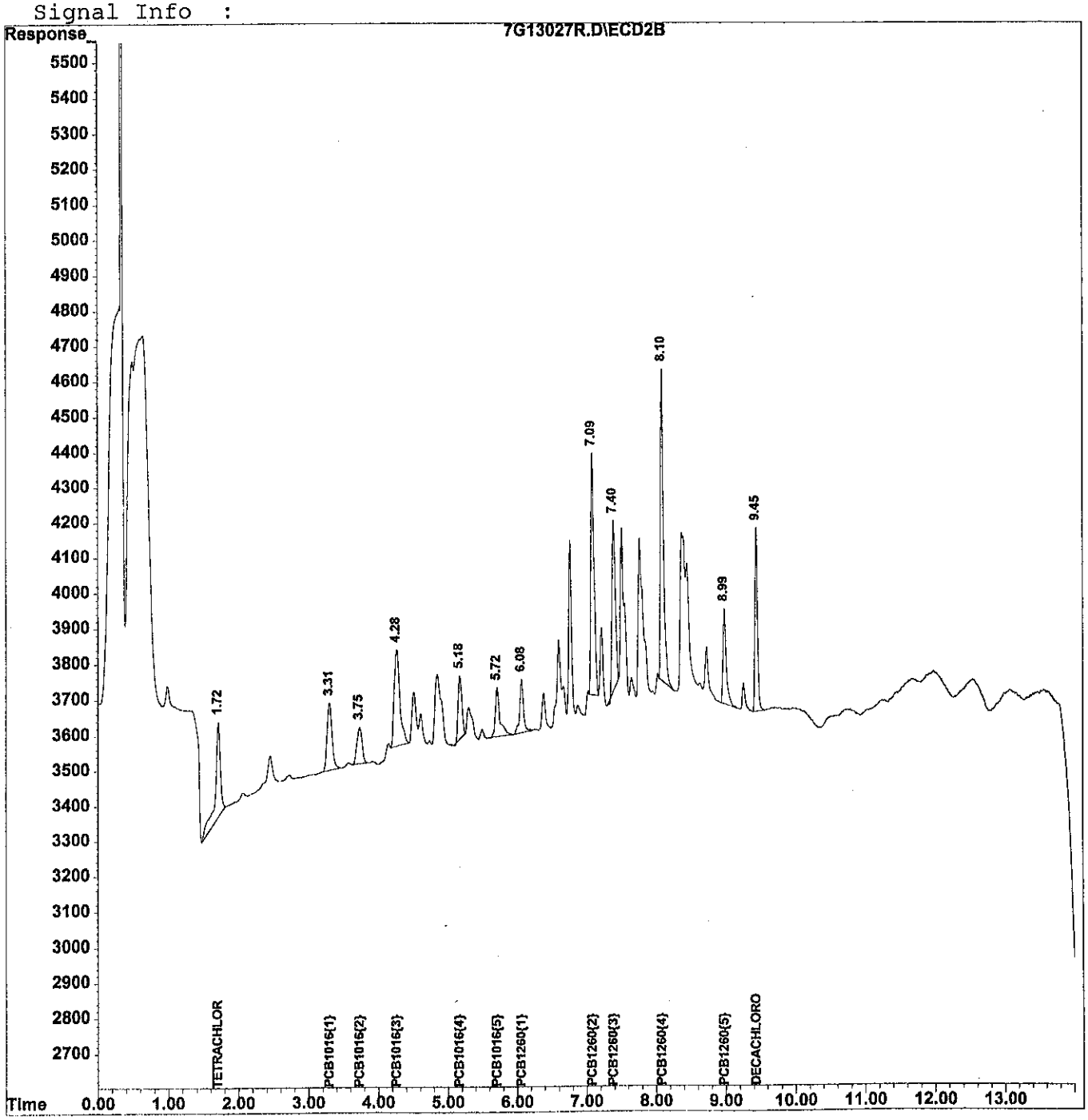
Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 7 Jun 2001 15:36 Operator: SMW
Sample : 1660 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:49 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\[illegible]

Acq On : 7 Jun 2001 15:55 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	21.445	14.2	99	0.00
2	L1	PCB1016{1}	500.000	475.082	5.0	99	0.00
3	L1	PCB1016{2}	500.000	486.121	2.8	101	0.00
4	L1	PCB1016{3}	500.000	477.240	4.6	98	0.00
5	L1	PCB1016{4}	500.000	478.987	4.2	100	0.00
6	L1	PCB1016{5}	500.000	533.719	-6.7	110	0.00
7	L2	PCB1260{1}	500.000	577.704	-15.5#	119	0.00
8	L2	PCB1260{2}	500.000	464.624	7.1	87	0.00
9	L2	PCB1260{3}	500.000	526.113	-5.2	108	0.00
10	L2	PCB1260{4}	500.000	445.198	11.0	94	0.00
11	L2	PCB1260{5}	500.000	422.124	15.6#	87	0.00
12	S	DECACHLOROBIPHENYL	25.000	27.645	-10.6	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13028R.D 8082R.M Mon Jun 11 08:51:12 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\7G13028.D
Acq On : 7 Jun 2001 15:55 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:51 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

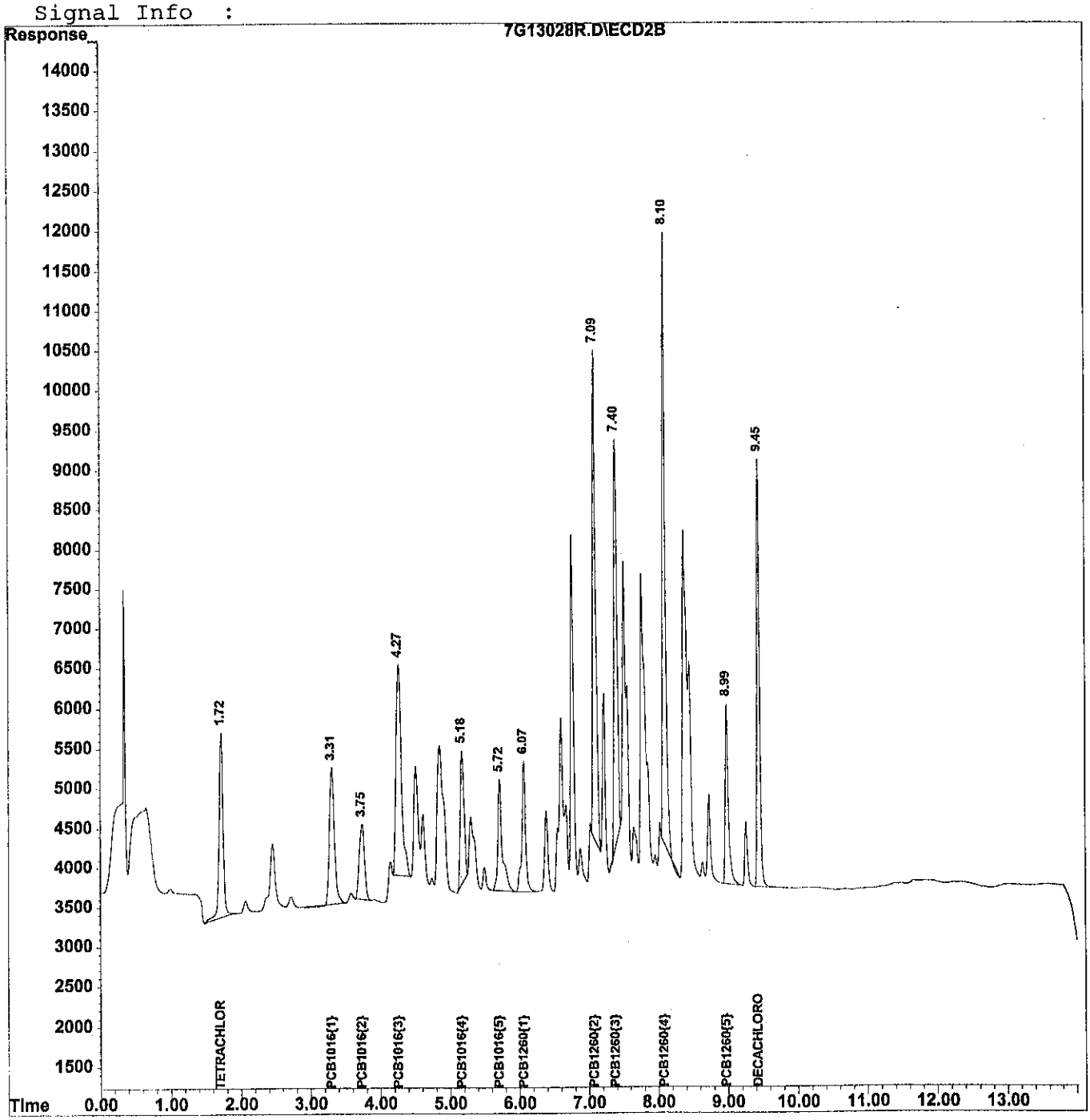
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	90948	21.445 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 107.23%	
12) S DECACHLOROBIPHENYL	9.45	138142	27.645 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 138.23%	
Target Compounds			
2) L1 PCB1016{1}	3.31	87836	475.082 UG/L
3) L1 PCB1016{2}	3.75	50007	486.121 UG/L
4) L1 PCB1016{3}	4.27	142875	477.240 UG/L
5) L1 PCB1016{4}	5.18	1666	478.987 UG/L
6) L1 PCB1016{5}	5.73	62467	533.719 UG/L
Sum PCB1016		344852	2451.150 UG/L
Average PCB1016			490.230 UG/L
7) L2 PCB1260{1}	6.08	63506	577.704 UG/L
8) L2 PCB1260{2}	7.09	186981	464.624 UG/L
9) L2 PCB1260{3}	7.40	160681	526.113 UG/L
10) L2 PCB1260{4}	8.10	210819	445.198 UG/L
11) L2 PCB1260{5}	8.99	68805	422.124 UG/L
Sum PCB1260		690793	2435.764 UG/L
Average PCB1260			487.153 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13028R.D 8082R.M Mon Jun 11 08:51:00 2001 Page 465

Acq On : 7 Jun 2001 15:55 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:51 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001

Calibration Files
50 =7G13034R.D 100 =7G13033R.D 250 =7G13032R.D
500 =7G13031R.D 1000 =7G13030R.D 2000 =7G13029R.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	4.683	3.853	3.397	3.208	3.258	3.049	3.575	E3	17.01
2)	L1	PCB1254{1}	1.450	1.405	1.322	1.258	1.232	1.113	1.297	E2	9.45
3)	L1	PCB1254{2}	2.859	2.750	2.551	2.446	2.327	2.148	2.514	E2	10.52
4)	L1	PCB1254{3}	1.212	1.149	1.047	1.068	0.915	0.819	1.035	E2	14.12
5)	L1	PCB1254{4}	2.405	2.264	2.038	2.044	1.749	1.556	2.009	E2	15.68
6)	L1	PCB1254{5}	3.022	3.528	2.566	2.513	2.264	2.101	2.666	E2	19.74
7)	S	DECACHLOROBIPHENYL	6.678	6.753	6.304	5.915	5.563	5.032	6.041	E3	11.09

(#) = Out of Range
1254RCG.M Mon Jun 11 08:56:21 2001 Page 1

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Acq On : 7 Jun 2001 16:14 Operator: SMW
Sample : 1254 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	304934	85.306 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	426.53%#
7) S DECACHLOROBIPHENYL	9.45	503240	83.307 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	416.54%#
Target Compounds			
2) L1 PCB1254{1}	4.84	222659	1717.278 UG/L
3) L1 PCB1254{2}	6.56	429577	1709.018 UG/L
4) L1 PCB1254{3}	6.77	163711	1582.183 UG/L
5) L1 PCB1254{4}	7.09	311153	1548.662 UG/L
6) L1 PCB1254{5}	7.39	420170	1975.034 UG/L
Sum PCB1254		1547269	8532.175 UG/L
Average PCB1254			1706.435 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13029R.D 1254RCG.M Mon Jun 11 08:55:33 2001 Page 1
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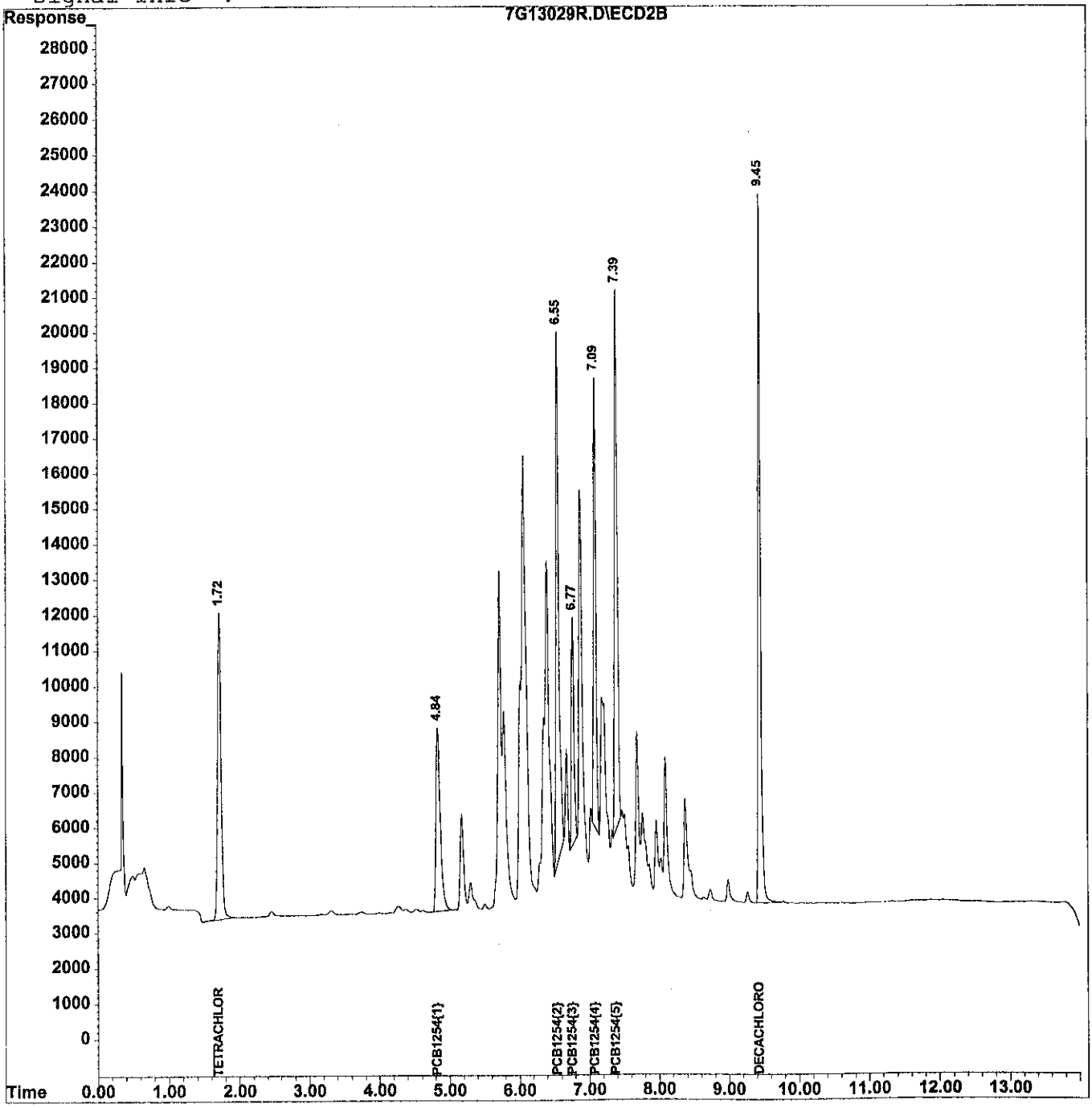
Data File : C:\HPCHEM\1\DATA\[illegible] Vial: 33
Acq On : 7 Jun 2001 16:14 Operator: SMW
Sample : 1254 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 16:33 Operator: SMW
Sample : 1254 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	162886	45.568 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 227.84%#	
7) S DECACHLOROBIPHENYL	9.45	278167	46.048 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 230.24%#	
Target Compounds			
2) L1 PCB1254{1}	4.84	123237	950.480 UG/L
3) L1 PCB1254{2}	6.56	232742	925.934 UG/L
4) L1 PCB1254{3}	6.77	91460	883.910 UG/L
5) L1 PCB1254{4}	7.09	174918	870.596 UG/L
6) L1 PCB1254{5}	7.40	226436	1032.549 UG/L
Sum PCB1254		848792	4663.468 UG/L
Average PCB1254			932.694 UG/L

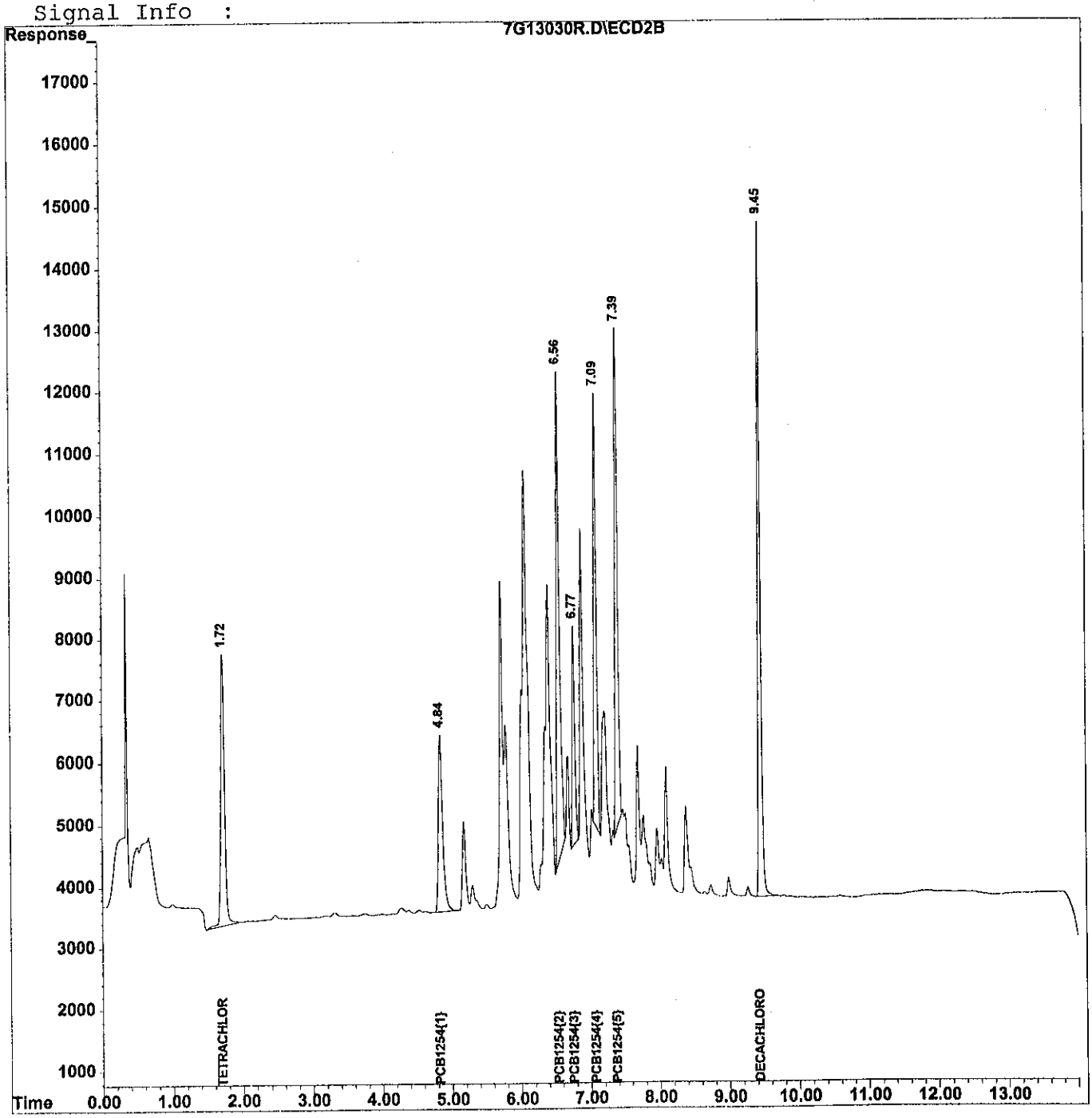
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13030R.D 1254RCG.M Mon Jun 11 08:55:36 2001 Page 470

Data File : C:\HPCHEM\1\DATA\[illegible]

Acq On : 7 Jun 2001 16:33 Operator: SMW
Sample : 1254 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 16:52 Operator: SMW
Sample : 1254 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

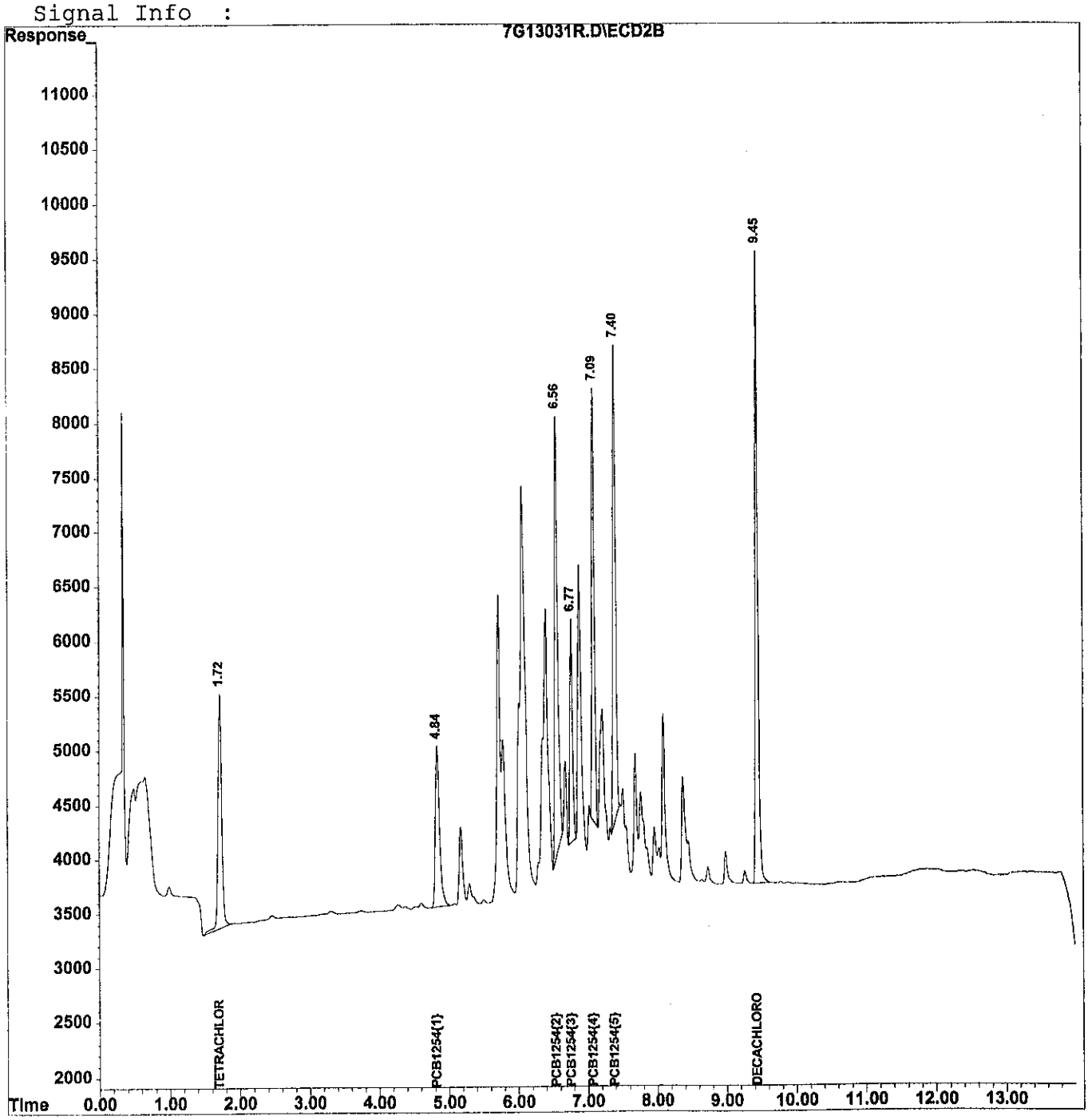
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		1.72	80195	22.435 UG/L
Spiked Amount	20.000	Range 27 - 132		Recovery =	112.18%
7) S	DECACHLOROBIPHENYL		9.45	147864	24.478 UG/L
Spiked Amount	20.000	Range 50 - 150		Recovery =	122.39%
Target Compounds					
2) L1	PCB1254{1}		4.84	62894	485.077 UG/L
3) L1	PCB1254{2}		6.56	122285	486.497 UG/L
4) L1	PCB1254{3}		6.77	53410	516.185 UG/L
5) L1	PCB1254{4}		7.09	102176	508.549 UG/L
6) L1	PCB1254{5}		7.40	125656	542.274 UG/L
Sum	PCB1254			466422	2538.582 UG/L
Average	PCB1254				507.716 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Acq On : 7 Jun 2001 16:52 Operator: SMW
Sample : 1254 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 17:11 Operator: SMW
Sample : 1254 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:54 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

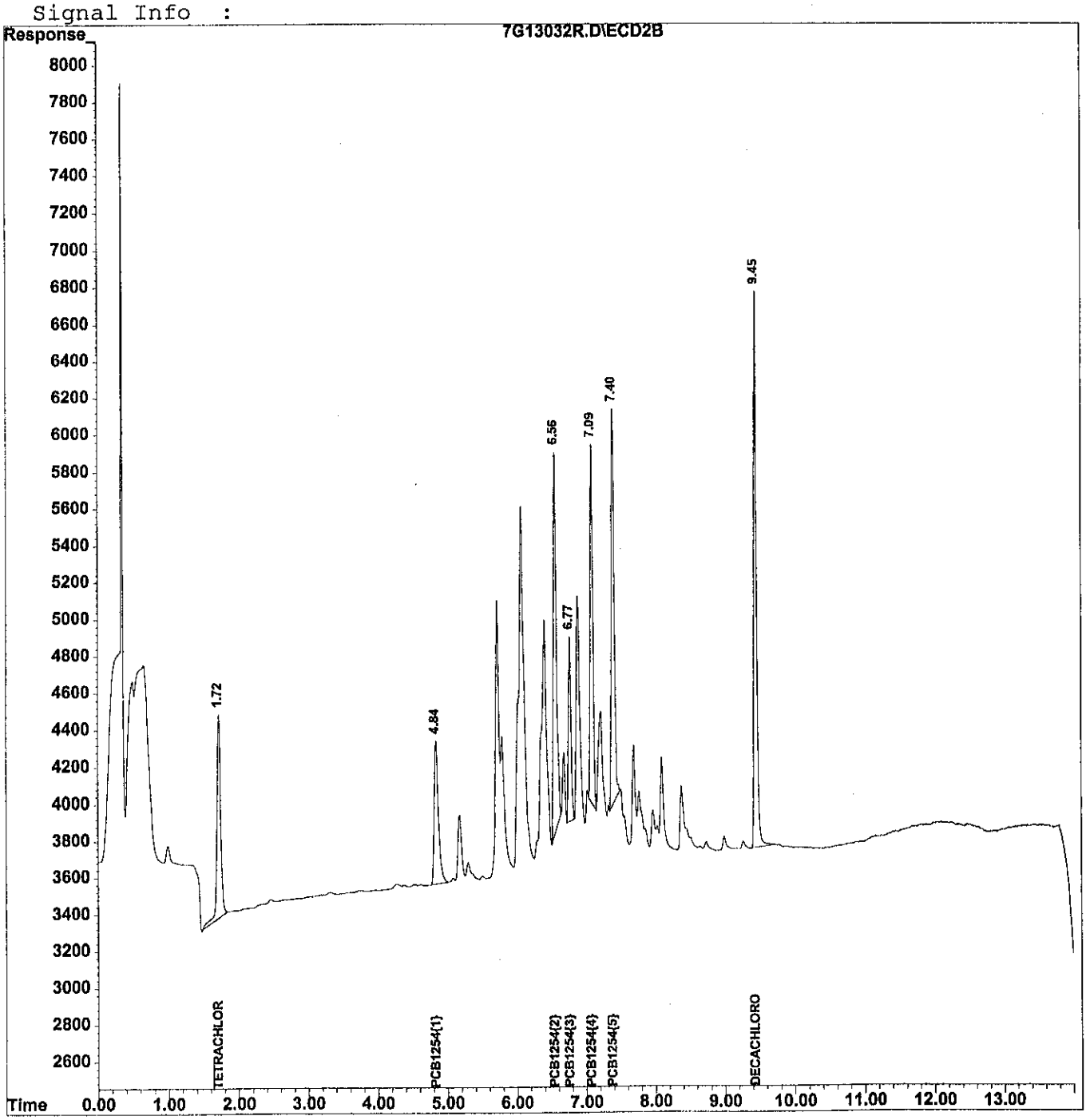
Compound				R.T.	Response	Conc Units
System Monitoring Compounds						
1) S	TETRACHLORO-M-XYL			1.72	42463	11.879 UG/L
Spiked Amount	20.000	Range	27 - 132		Recovery =	59.40%
7) S	DECACHLOROBIPHENYL			9.45	78799	13.045 UG/L
Spiked Amount	20.000	Range	50 - 150		Recovery =	65.22%
Target Compounds						
2) L1	PCB1254{1}			4.84	33038	254.806 UG/L
3) L1	PCB1254{2}			6.56	63777	253.729 UG/L
4) L1	PCB1254{3}			6.78	26165	252.870 UG/L
5) L1	PCB1254{4}			7.09	50961	253.644 UG/L
6) L1	PCB1254{5}			7.40	64149	245.654 UG/L
Sum	PCB1254				238090	1260.704 UG/L
Average	PCB1254					252.141 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13032R.D 1254RCG.M Mon Jun 11 08:55:17 2001 Page 1

Acq On : 7 Jun 2001 17:11 Operator: SMW
Sample : 1254 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:54 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/18/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\[illegible] Vial: 33
Acq On : 7 Jun 2001 17:30 Operator: SMW
Sample : 1254 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	19264	5.389 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	26.95%#
7) S DECACHLOROBIPHENYL	9.45	33763	5.589 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	27.95%#
Target Compounds			
2) L1 PCB1254{1}	4.85	14046	108.330 UG/L
3) L1 PCB1254{2}	6.56	27505	109.424 UG/L
4) L1 PCB1254{3}	6.78	11488	111.025 UG/L
5) L1 PCB1254{4}	7.09	22635	112.660 UG/L
6) L1 PCB1254{5}	7.40	35279	102.604 UG/L
Sum PCB1254		110953	544.041 UG/L
Average PCB1254			108.808 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13033R.D 1254RCG.M Mon Jun 11 08:55:43 2001 Page 1

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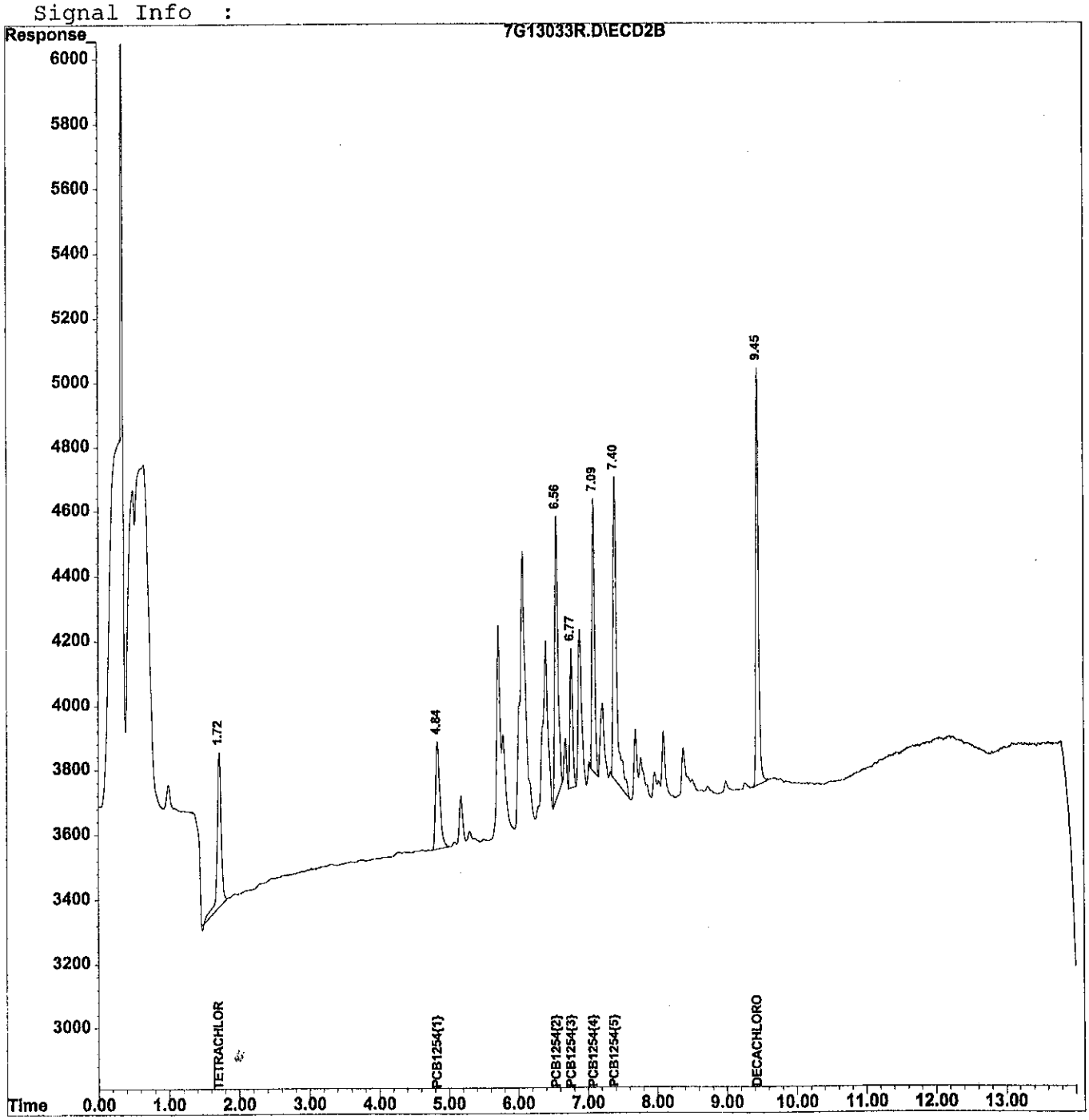
Acq On : 7 Jun 2001 17:30 Operator: SMW
Sample : 1254 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 17:49 Operator: SMW
Sample : 1254 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		1.72	11707	3.275 UG/L
Spiked Amount	20.000	Range 27 - 132		Recovery =	16.38%#
7) S	DECACHLOROBIPHENYL		9.45	16694	2.764 UG/L
Spiked Amount	20.000	Range 50 - 150		Recovery =	13.82%#
Target Compounds					
2) L1	PCB1254{1}		4.85	7249	55.910 UG/L
3) L1	PCB1254{2}		6.56	14295	56.871 UG/L
4) L1	PCB1254{3}		6.78	6058	58.545 UG/L
5) L1	PCB1254{4}		7.09	12023	59.840 UG/L
6) L1	PCB1254{5}		7.40	15112	4.492 UG/L
Sum	PCB1254			54736	235.658 UG/L
Average	PCB1254				47.132 UG/L

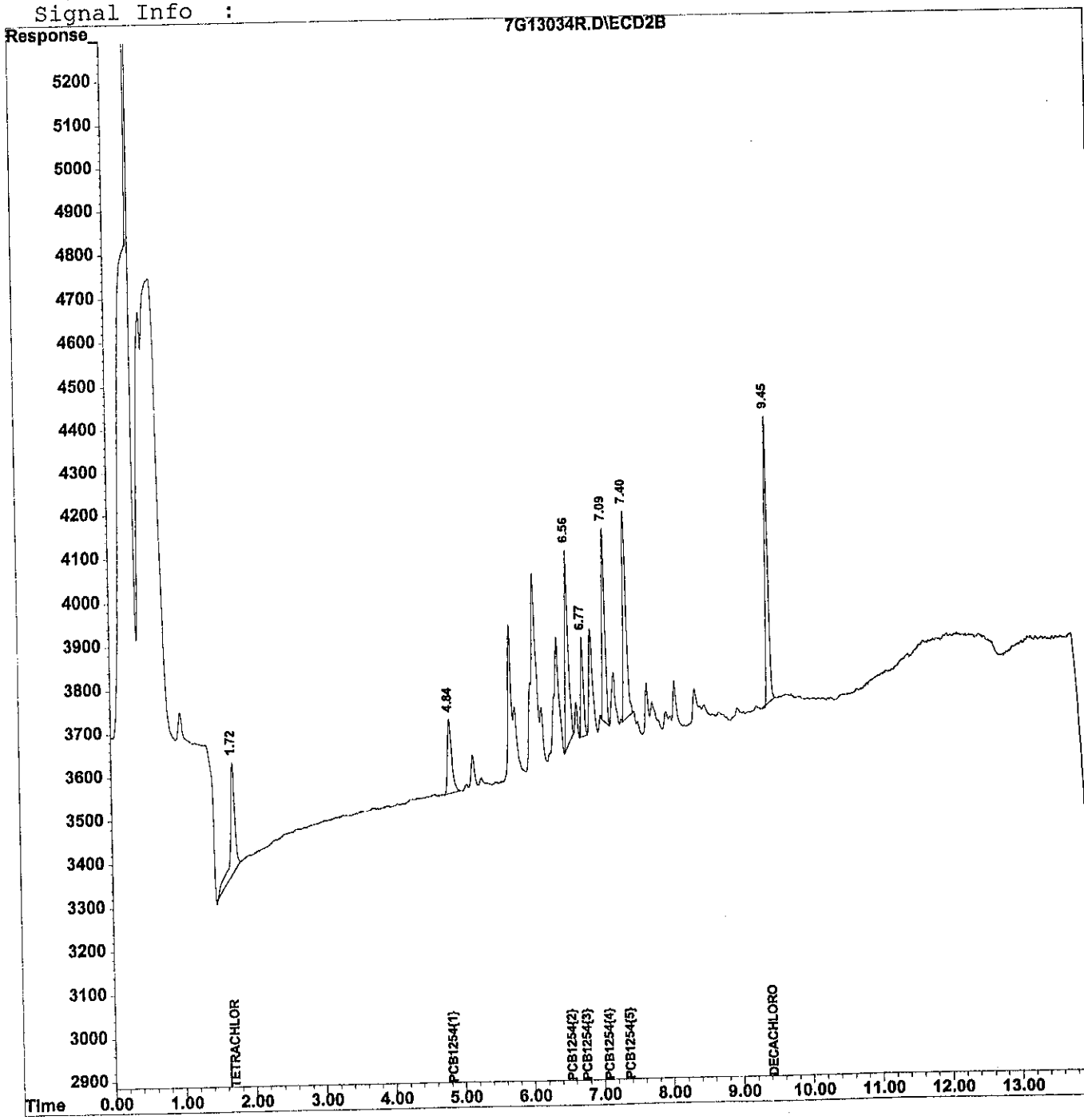
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13034R.D 1254RCG.M Mon Jun 11 08:55:47 2001 Page 1

Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 7 Jun 2001 17:49
Sample : 1254 ICAL 0.05 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\[illegible]
Acq On : 7 Jun 2001 18:08
Sample : 1254 ALT ICV 0.5 PPM
Misc :
IntFile : EVENTS.E

Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	23.878	4.5	106	0.00
2	L1	PCB1254{1}	500.000	562.163	-12.4	116	0.00
3	L1	PCB1254{2}	500.000	509.776	-2.0	105	0.00
4	L1	PCB1254{3}	500.000	435.815	12.8	84	0.00
5	L1	PCB1254{4}	500.000	447.693	10.5	88	0.00
6	L1	PCB1254{5}	500.000	491.445	1.7	92	0.00
7	S	DECACHLOROBIPHENYL	25.000	17.708	29.2#	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13035R.D 1254RCG.M Mon Jun 11 08:56:08 2001 Page 1

480

Acq On : 7 Jun 2001 18:08 Operator: SMW
Sample : 1254 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	85353	23.878 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 119.39%	
7) S DECACHLOROBIPHENYL	9.45	106969	17.708 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 88.54%	
Target Compounds			
2) L1 PCB1254{1}	4.84	72889	562.163 UG/L
3) L1 PCB1254{2}	6.56	128137	509.776 UG/L
4) L1 PCB1254{3}	6.77	45094	435.815 UG/L
5) L1 PCB1254{4}	7.09	89949	447.693 UG/L
6) L1 PCB1254{5}	7.40	115208	491.445 UG/L
Sum PCB1254		451277	2446.891 UG/L
Average PCB1254			489.378 UG/L

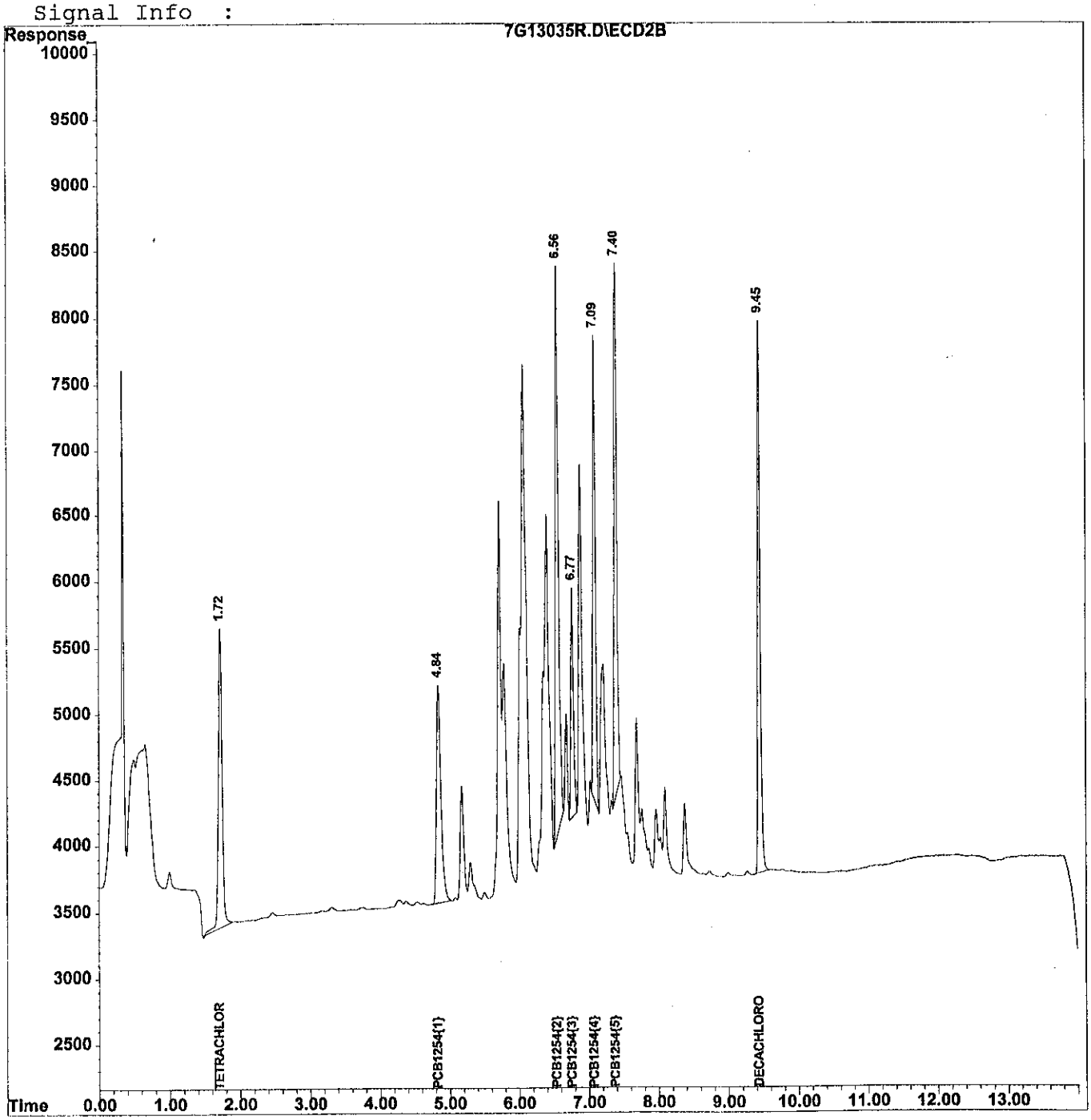
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13035R.D 1254RCG.M Mon Jun 11 08:55:50 2001 Page 1

481

Acq On : 7 Jun 2001 18:08 Operator: SMW
Sample : 1254 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 11 8:55 2001 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:53:43 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001

Calibration Files
500 =7G13036R.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	3.579	3.579 E3	0.00
2)	L1	PCB1221{1}	4.233	4.233 E1	0.00
3)	L1	PCB1221{2}	4.485	4.485 E1	0.00
4)	L1	PCB1221{3}	7.067	7.067 E1	0.00
5)	L1	PCB1221{4}	9.144	9.144 0	0.00
6)	L1	PCB1221{5}	4.507	4.507 0	0.00
7)	S	DECACHLOROBIPHENYL	5.461	5.461 E3	0.00

(#) = Out of Range

Acq On : 7 Jun 2001 18:27 Operator: SMW
Sample : 1221 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:56 2001 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

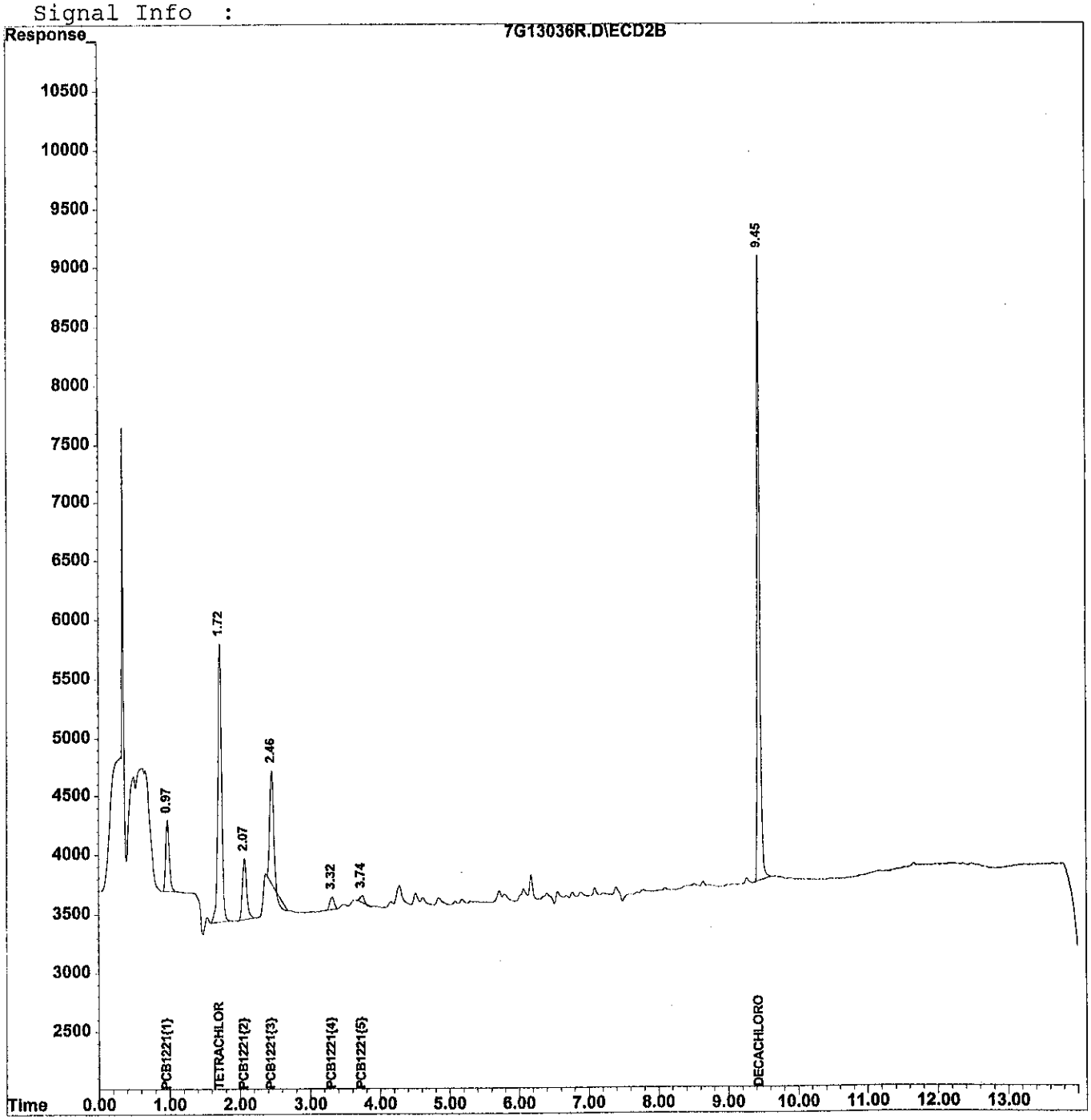
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	89473	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	9.45	136530	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1221{1}	0.97	21163	500.000 UG/L
3) L1 PCB1221{2}	2.07	22424	500.000 UG/L
4) L1 PCB1221{3}	2.46	35334	500.000 UG/L
5) L1 PCB1221{4}	3.32	4572	500.000 UG/L
6) L1 PCB1221{5}	3.75	2254	500.000 UG/L
Sum PCB1221		85747	2500.000 UG/L
Average PCB1221			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13036R.D 1221SR.M Mon Jun 11 08:56:59 2001 Page 1

Acq On : 7 Jun 2001 18:27 Operator: SMW
Sample : 1221 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:56 2001 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000

Calibration Files
500 =7G13037R.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	3.175	3.175 E3	0.00
2)	L1	PCB1232{1}	2.424	2.424 E1	0.00
3)	L1	PCB1232{2}	4.997	4.997 E1	0.00
4)	L1	PCB1232{3}	6.884	6.884 E1	0.00
5)	L1	PCB1232{4}	1.128	1.128 E2	0.00
6)	L1	PCB1232{5}	6.358	6.358 E1	0.00
7)	S	DECACHLOROBIPHENYL	5.518	5.518 E3	0.00

(#) = Out of Range
1232SR.M Mon Jun 11 08:59:03 2001 Page 1

Acq On : 7 Jun 2001 18:46 Operator: SMW
Sample : 1232 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:58 2001 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

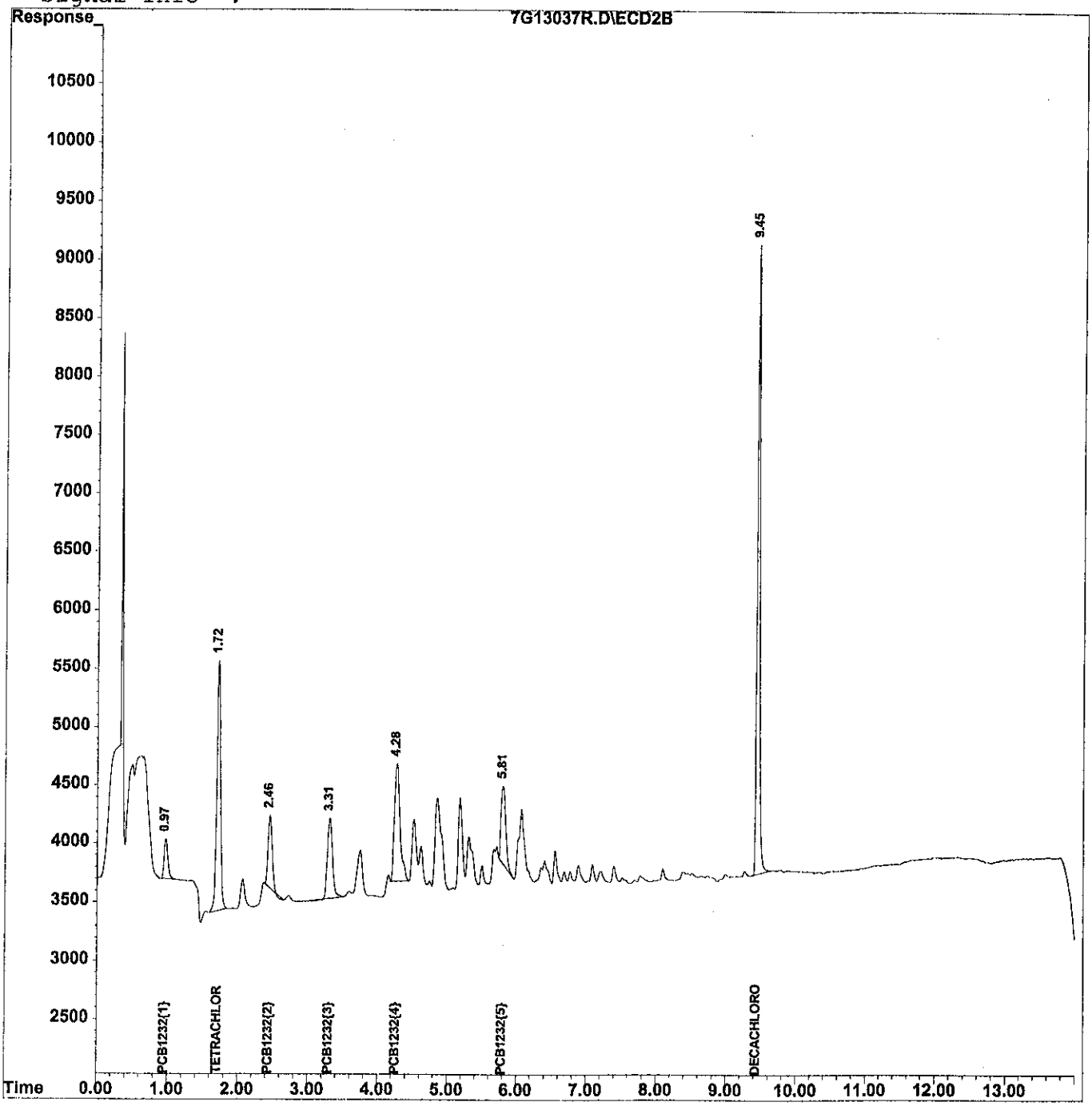
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	79365	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	9.45	137959	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1232{1}	0.97	12118	500.000 UG/L
3) L1 PCB1232{2}	2.46	24983	500.000 UG/L
4) L1 PCB1232{3}	3.32	34422	500.000 UG/L
5) L1 PCB1232{4}	4.28	56415	500.000 UG/L
6) L1 PCB1232{5}	5.81	31788	500.000 UG/L
Sum PCB1232		159726	2500.000 UG/L
Average PCB1232			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Acq On : 7 Jun 2001 18:46 Operator: SMW
Sample : 1232 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:58 2001 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000

Calibration Files
500 =7G13038R.D = =
= =

	Compound	500	Avg	%RSD
1) S	TETRACHLORO-M-XYL	3.453	3.453 E3	0.00
2) L1	PCB1242{1}	7.650	7.650 E1	0.00
3) L1	PCB1242{2}	1.368	1.368 E2	0.00
4) L1	PCB1242{3}	2.154	2.154 E2	0.00
5) L1	PCB1242{4}	1.009	1.009 E2	0.00
6) L1	PCB1242{5}	1.343	1.343 E2	0.00
7) S	DECACHLOROBIPHENYL	4.060	4.060 E3	0.00

(#) = Out of Range
1242SR.M Mon Jun 11 09:00:09 2001 Page 1

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Acq On : 7 Jun 2001 19:05 Operator: SMW
Sample : 1242 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:00 2001 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	86321	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	9.45	101510	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1242{1}	2.46	38252	500.000 UG/L
3) L1 PCB1242{2}	3.31	68390	500.000 UG/L
4) L1 PCB1242{3}	4.28	107692	500.000 UG/L
5) L1 PCB1242{4}	5.18	50456	500.000 UG/L
6) L1 PCB1242{5}	5.81	67151	500.000 UG/L
Sum PCB1242		331941	2500.000 UG/L
Average PCB1242			500.000 UG/L

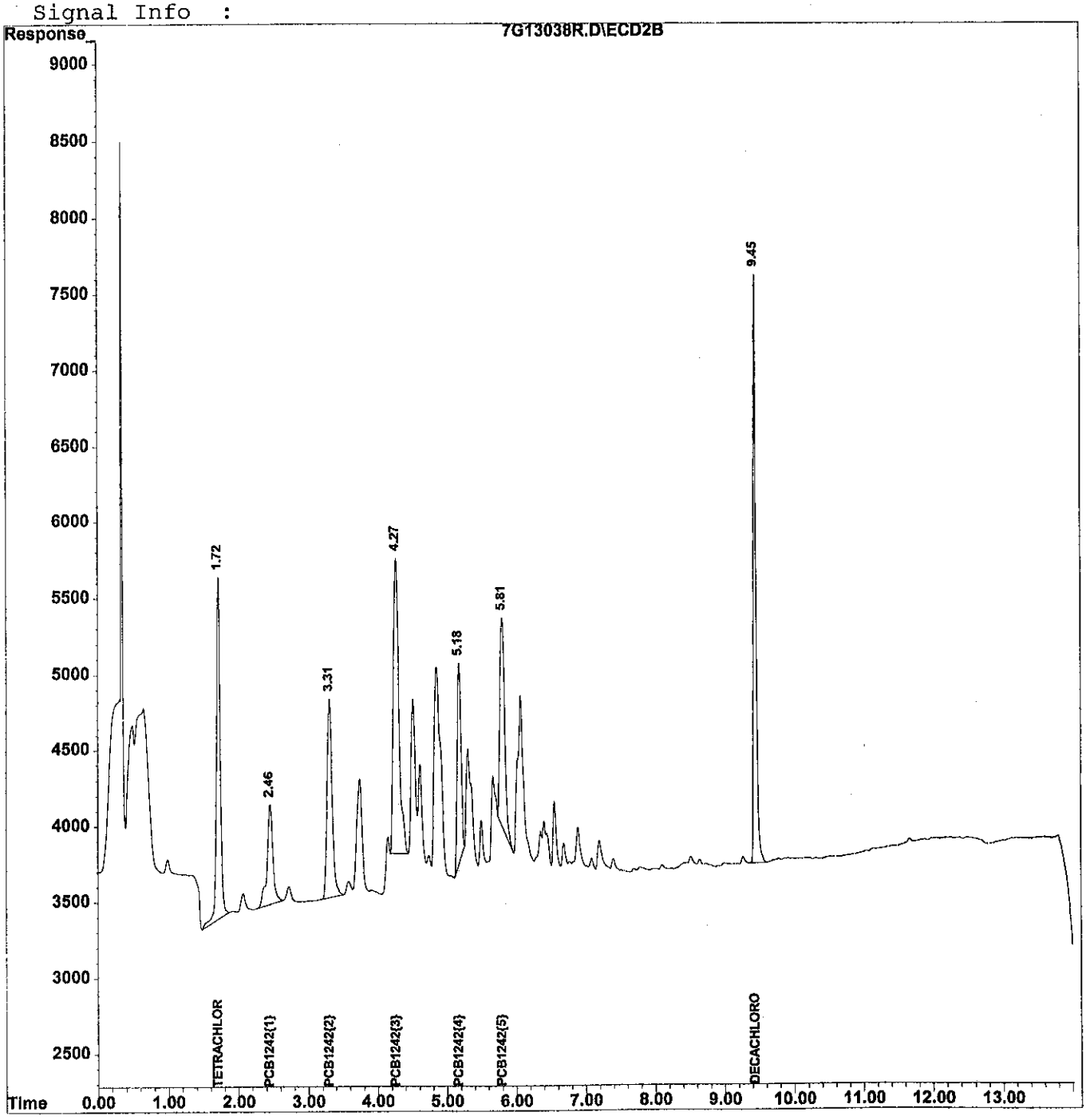
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13038R.D 1242SR.M Mon Jun 11 09:00:04 2001 Page 1

490

Acq On : 7 Jun 2001 19:05 Operator: SMW
Sample : 1242 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:00 2001 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001

Calibration Files
500 =7G13039R.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	3.385	3.385 E3	0.00
2)	L1	PCB1248{1}	7.095	7.095 E1	0.00
3)	L1	PCB1248{2}	2.818	2.818 E2	0.00
4)	L1	PCB1248{3}	1.488	1.488 E2	0.00
5)	L1	PCB1248{4}	2.286	2.286 E2	0.00
6)	L1	PCB1248{5}	3.046	3.046 E1	0.00
7)	S	DECACHLOROBIPHENYL	5.933	5.933 E3	0.00

(#) = Out of Range
1248SR.M Mon Jun 11 09:01:04 2001 Page 1

492

Acq On : 7 Jun 2001 19:24 Operator: SMW
Sample : 1248 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:01 2001 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	84615	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	9.45	148326	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1248{1}	3.31	35475	500.000 UG/L
3) L1 PCB1248{2}	4.86	140914	500.000 UG/L
4) L1 PCB1248{3}	5.18	74413	500.000 UG/L
5) L1 PCB1248{4}	5.81	114284	500.000 UG/L
6) L1 PCB1248{5}	6.56	15228	500.000 UG/L
Sum PCB1248		380313	2500.000 UG/L
Average PCB1248			500.000 UG/L

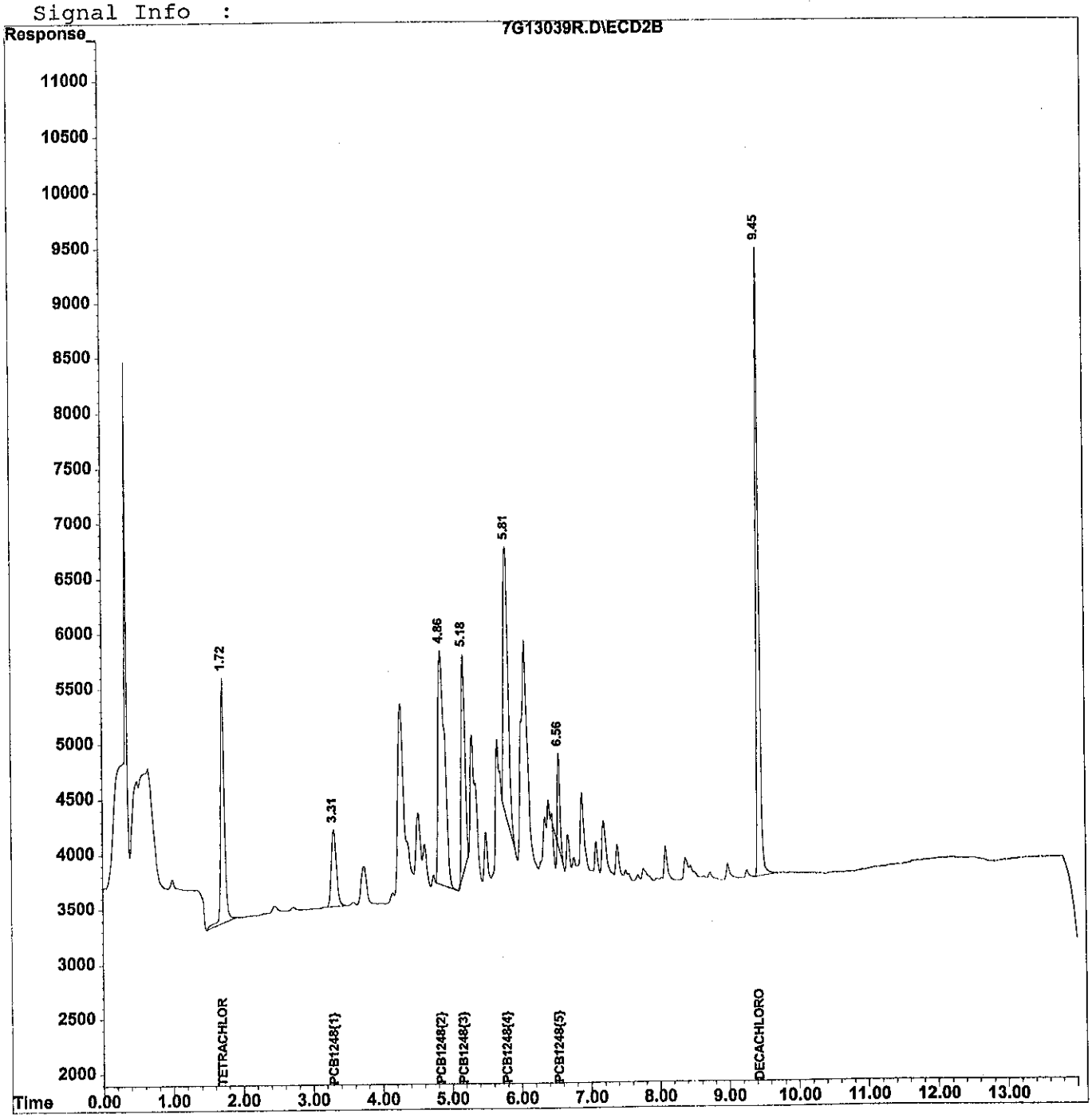
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13039R.D 1248SR.M Mon Jun 11 09:01:00 2001 Page 1

493

Acq On : 7 Jun 2001 19:24 Operator: SMW
Sample : 1248 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:01 2001 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 19:43 Operator: SMW
Sample : 1221 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	2.018	91.9#	8	-0.03
2	L1	PCB1221{1}	500.000	463.622	7.3	93	0.00
3	L1	PCB1221{2}	500.000	458.040	8.4	92	0.00
4	L1	PCB1221{3}	500.000	445.225	11.0	89	0.00
5	L1	PCB1221{4}	500.000	482.242	3.6	96	0.00
6	L1	PCB1221{5}	500.000	510.585	-2.1	102	0.00
7	S	DECACHLOROBIPHENYL	25.000	0.383	98.5#	2	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13040R.D 1221SR.M Mon Jun 11 08:58:29 2001 Page 1

Acq On : 7 Jun 2001 19:43 Operator: SMW
Sample : 1221 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:58 2001 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.69f	7224	2.018 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	10.09%#
7) S DECACHLOROBIPHENYL	9.45	2090	0.383 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	1.92%#
Target Compounds			
2) L1 PCB1221{1}	0.97	19623	463.622 UG/L
3) L1 PCB1221{2}	2.07	20542	458.040 UG/L
4) L1 PCB1221{3}	2.45	31463	445.225 UG/L
5) L1 PCB1221{4}	3.32	4410	482.242 UG/L
6) L1 PCB1221{5}	3.75	2301	510.585 UG/L
Sum PCB1221		78340	2359.714 UG/L
Average PCB1221			471.943 UG/L

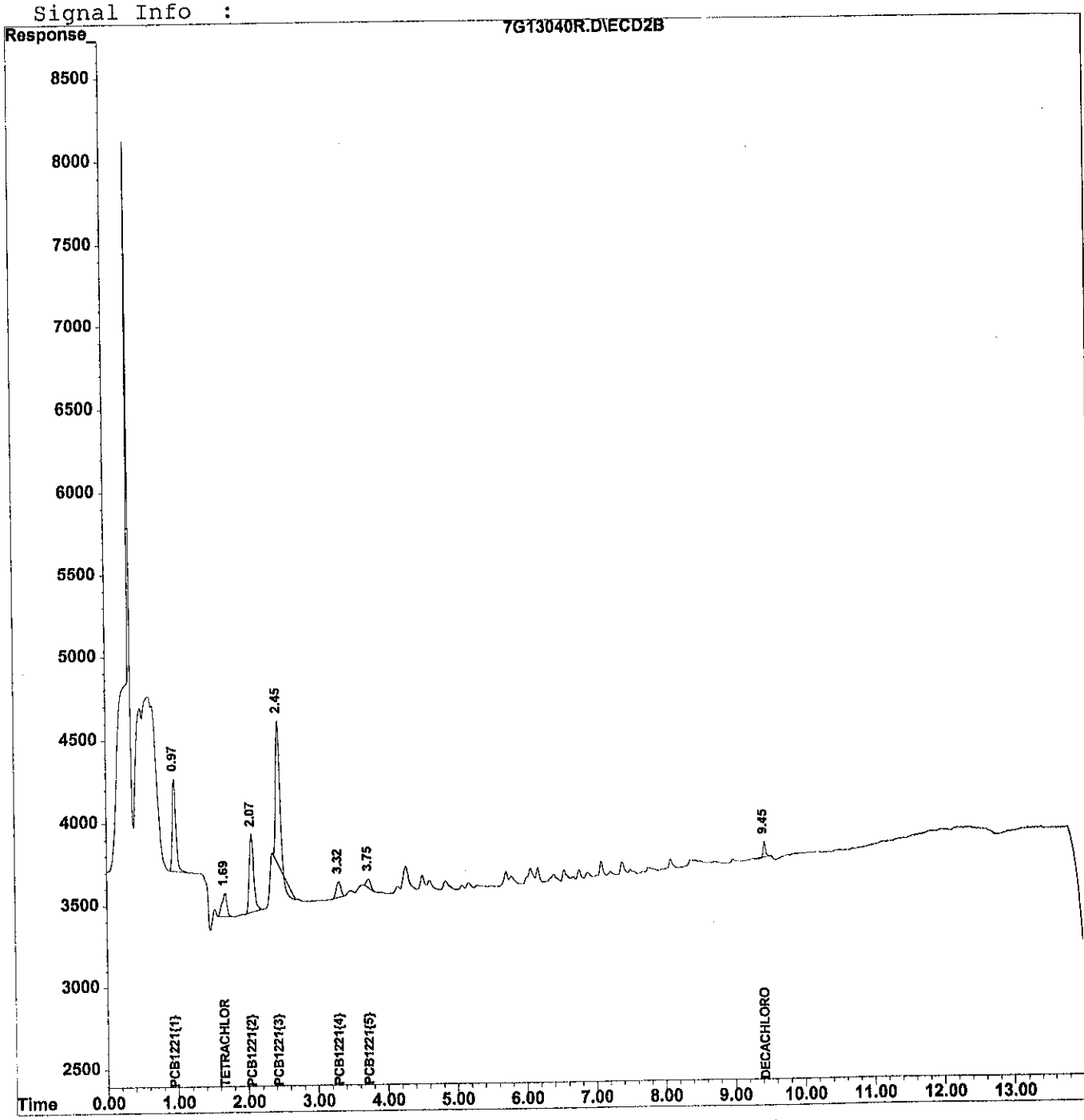
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13040R.D 1221SR.M Mon Jun 11 08:58:26 2001 Page 496

Acq On : 7 Jun 2001 19:43
Sample : 1221 ALT ICV 0.5 PPM
Misc :
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:58 2001 Quant Results File: 1221SR.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Mar 19 07:01:54 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 20:02 Operator: SMW
Sample : 1232 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	3.476	86.1#	14	-0.03
2	L1	PCB1232{1}	500.000	487.994	2.4	98	0.00
3	L1	PCB1232{2}	500.000	608.751	-21.8#	122	0.00
4	L1	PCB1232{3}	500.000	508.378	-1.7	102	0.00
5	L1	PCB1232{4}	500.000	515.814	-3.2	103	0.00
6	L1	PCB1232{5}	500.000	488.331	2.3	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13041R.D 1232SR.M Mon Jun 11 08:59:31 2001 Page 1

Acq On : 7 Jun 2001 20:02 Operator: SMW
Sample : 1232 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:59 2001 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.69f	11035	3.476 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	17.38%
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	0.97	11827	487.994 UG/L
3) L1 PCB1232{2}	2.46	30417	608.751 UG/L
4) L1 PCB1232{3}	3.32	34999	508.378 UG/L
5) L1 PCB1232{4}	4.28	58200	515.814 UG/L
6) L1 PCB1232{5}	5.81	31046	488.331 UG/L
Sum PCB1232		166489	2609.268 UG/L
Average PCB1232			521.854 UG/L

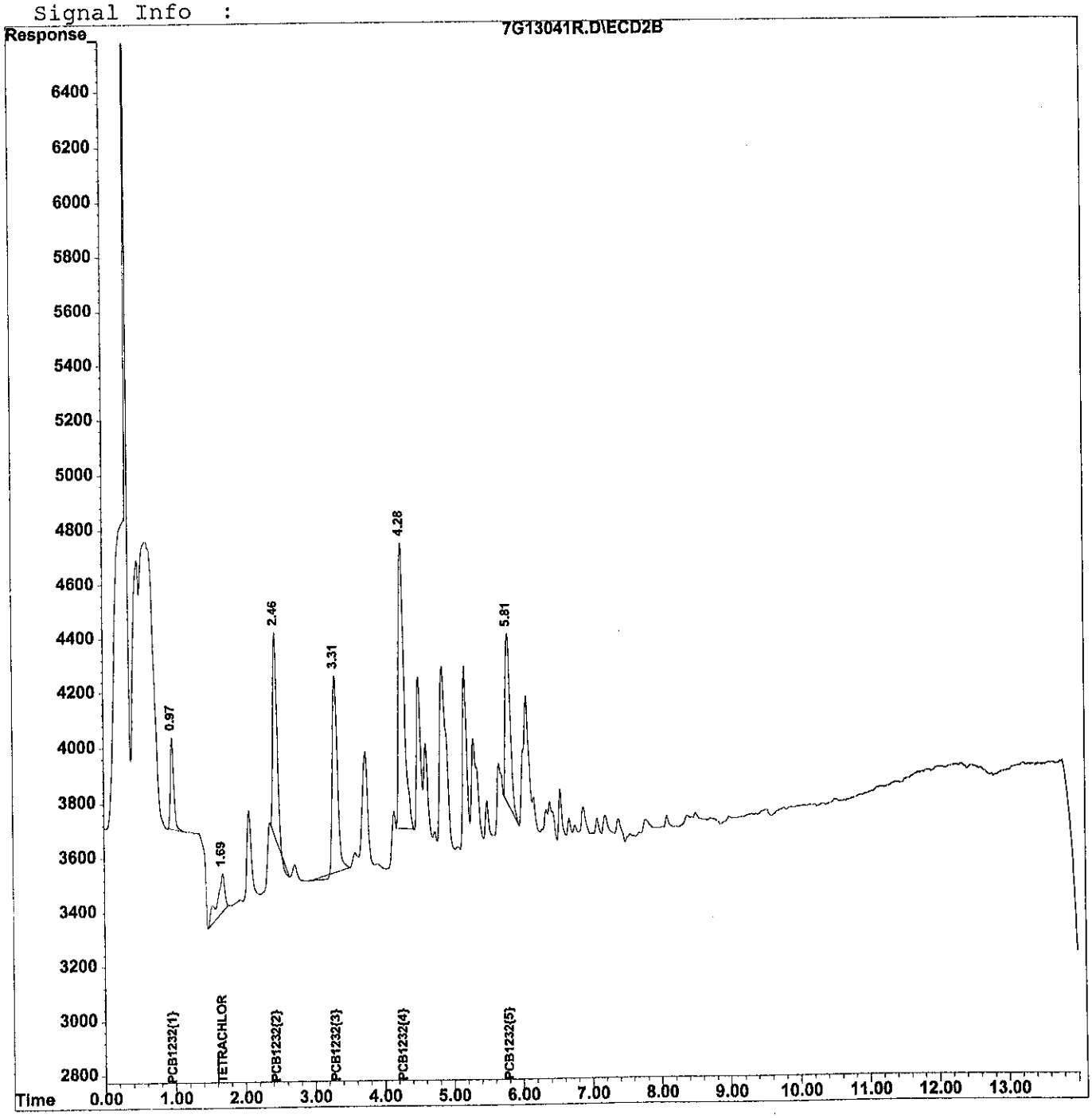
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13041R.D 1232SR.M Mon Jun 11 08:59:27 2001 Page 1

Acq On : 7 Jun 2001 20:02
Sample : 1232 ALT ICV 0.5 PPM
Misc :
IntFile : AUTOINT1.E
Quant Time: Jun 11 8:59 2001 Quant Results File: 1232SR.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 20:21 Operator: SMW
Sample : 1242 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	1.920	92.3#	8	-0.03
2	L1	PCB1242{1}	500.000	465.205	7.0	93	0.00
3	L1	PCB1242{2}	500.000	496.777	0.6	99	0.00
4	L1	PCB1242{3}	500.000	495.165	1.0	99	0.00
5	L1	PCB1242{4}	500.000	493.516	1.3	99	0.00
6	L1	PCB1242{5}	500.000	432.215	13.6	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13042R.D 1242SR.M Mon Jun 11 09:00:28 2001 Page 1

Acq On : 7 Jun 2001 20:21 Operator: SMW
Sample : 1242 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:00 2001 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.69f	6628	1.920 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	9.60%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1242{1}	2.46	35590	465.205 UG/L
3) L1 PCB1242{2}	3.31	67950	496.777 UG/L
4) L1 PCB1242{3}	4.28	106651	495.165 UG/L
5) L1 PCB1242{4}	5.18	49801	493.516 UG/L
6) L1 PCB1242{5}	5.81	58047	432.215 UG/L
Sum PCB1242		318039	2382.879 UG/L
Average PCB1242			476.576 UG/L

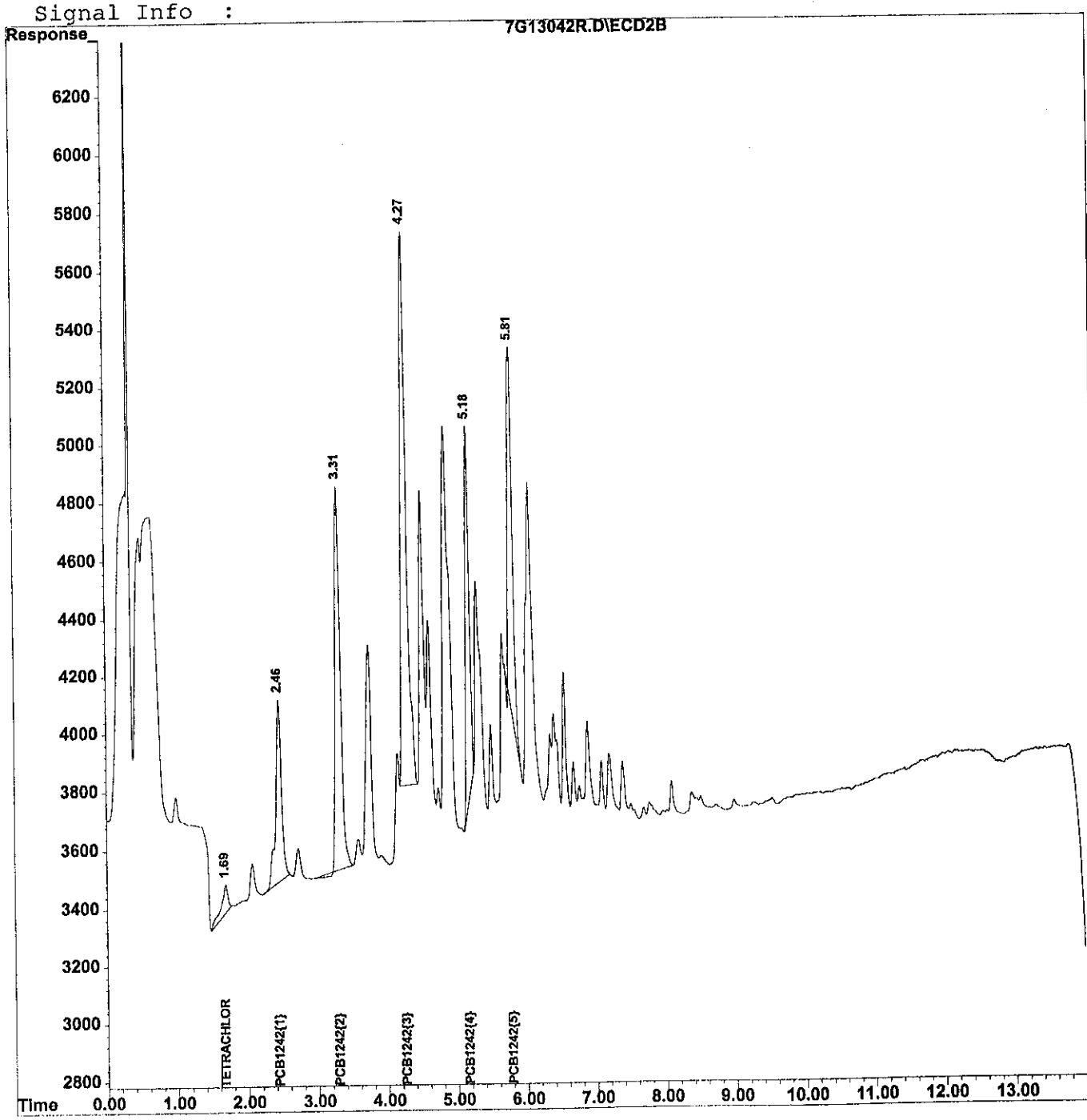
(f)=RT Delta > 1/2 Window (m)=manual int.
7G13042R.D 1242SR.M Mon Jun 11 09:00:25 2001 Page 1

Acq On : 7 Jun 2001 20:21
Sample : 1242 ALT ICV 0.5 PPM
Misc :
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:00 2001 Quant Results File: 1242SR.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 7 Jun 2001 20:40
Sample : 1248 ALT ICV 0.5 PPM
Misc :
IntFile : AUTOINT1.E

Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1248{1}	500.000	486.523	2.7	97	0.00
3 L1	PCB1248{2}	500.000	528.778	-5.8	106	0.00
4 L1	PCB1248{3}	500.000	522.871	-4.6	105	0.00
5 L1	PCB1248{4}	500.000	456.251	8.7	91	0.00
6 L1	PCB1248{5}	500.000	720.052	-44.0#	144	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13043R.D 1248SR.M Mon Jun 11 09:01:29 2001 Page 1

Acq On : 7 Jun 2001 20:40 Operator: SMW
Sample : 1248 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:01 2001 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154	Recovery =		0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140	Recovery =		0.00%#
Target Compounds			
2) L1 PCB1248{1}	3.31	34518	486.523 UG/L
3) L1 PCB1248{2}	4.86	149024	528.778 UG/L
4) L1 PCB1248{3}	5.18	77817	522.871 UG/L
5) L1 PCB1248{4}	5.80	104284	456.251 UG/L
6) L1 PCB1248{5}	6.56	21930	720.052 UG/L
Sum PCB1248		387574	2714.475 UG/L
Average PCB1248			542.895 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G13043R.D 1248SR.M Mon Jun 11 09:01:26 2001 Page 1

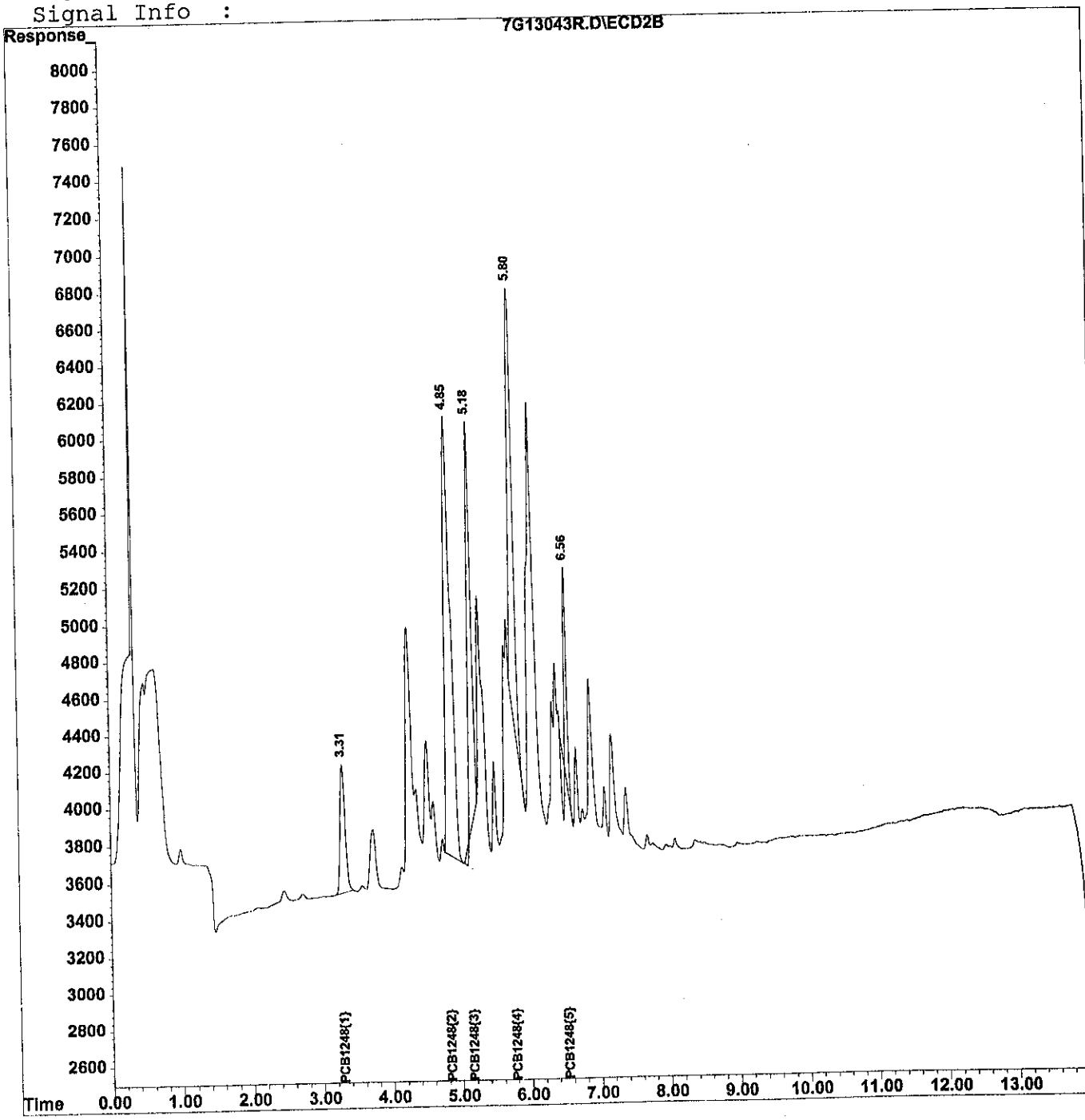
505

Data File : C:\HPCHEM\1\DATA\7G13043R.D
Acq On : 7 Jun 2001 20:40
Sample : 1248 ALT ICV 0.5 PPM
Misc :
IntFile : AUTOINT1.E
Quant Time: Jun 11 9:01 2001 Quant Results File: 1248SR.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 27 08:07:20 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Acq On : 14 Jun 2001 11:38
Sample : 1660 CCV 0.5 PPM
Misc :
IntFile : EVENTS.E

Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	22.114	11.5	102	0.00
2	L1	PCB1016{1}	500.000	499.913	0.0	104	0.00
3	L1	PCB1016{2}	500.000	492.727	1.5	103	0.00
4	L1	PCB1016{3}	500.000	457.009	8.6	94	0.00
5	L1	PCB1016{4}	500.000	477.058	4.6	99	0.00
6	L1	PCB1016{5}	500.000	489.740	2.1	101	0.00
7	L2	PCB1260{1}	500.000	497.165	0.6	103	0.00
8	L2	PCB1260{2}	500.000	562.899	-12.6	105	0.00
9	L2	PCB1260{3}	500.000	496.465	0.7	102	0.00
10	L2	PCB1260{4}	500.000	528.467	-5.7	112	0.00
11	L2	PCB1260{5}	500.000	547.294	-9.5	113	0.00
12	S	DECACHLOROBIPHENYL	25.000	27.210	-8.8	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13136R.D 8082R.M Fri Jun 15 06:12:09 2001 Page 1

507

Acq On : 14 Jun 2001 11:38 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 14 12:54 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	93788	22.114 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 110.57%	
12) S DECACHLOROBIPHENYL	9.44	135968	27.210 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 136.05%	
Target Compounds			
2) L1 PCB1016{1}	3.31	92427	499.913 UG/L
3) L1 PCB1016{2}	3.74	50687	492.727 UG/L
4) L1 PCB1016{3}	4.27	136819	457.009 UG/L
5) L1 PCB1016{4}	5.18	1660	477.058 UG/L
6) L1 PCB1016{5}	5.72	57320	489.740 UG/L
Sum PCB1016		338912	2416.448 UG/L
Average PCB1016			483.290 UG/L
7) L2 PCB1260{1}	6.07	54652	497.165 UG/L
8) L2 PCB1260{2}	7.09	226531	562.899 UG/L
9) L2 PCB1260{3}	7.39	151626	496.465 UG/L
10) L2 PCB1260{4}	8.09	250250	528.467 UG/L
11) L2 PCB1260{5}	8.99	89207	547.294 UG/L
Sum PCB1260		772267	2632.289 UG/L
Average PCB1260			526.458 UG/L

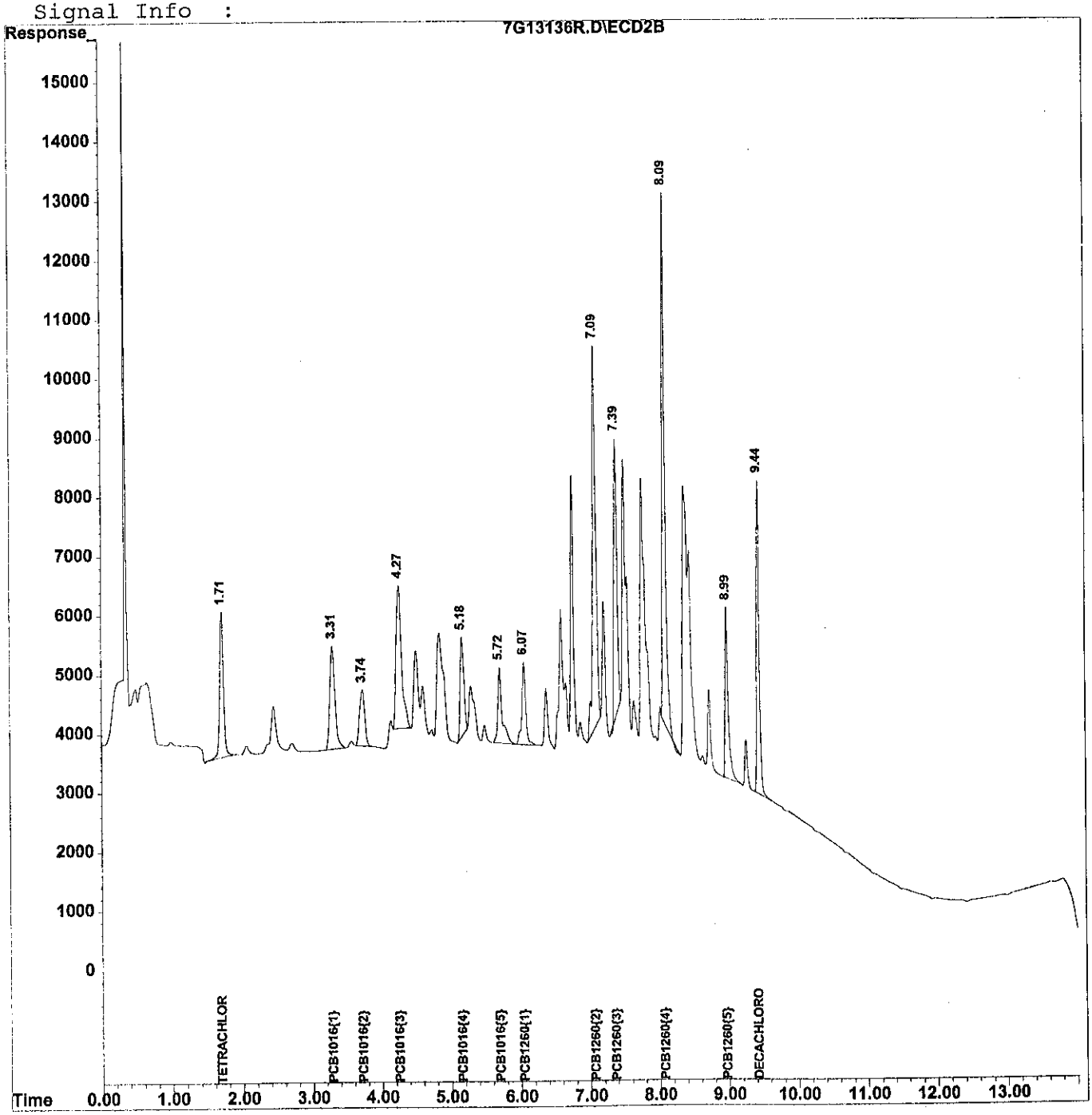
(f)=RT Delta > 1/2 Window (m)=manual int.

Acq On : 14 Jun 2001 11:38
Sample : 1660 CCV 0.5 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Jun 14 12:54 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061401.B\[illegible]
Acq On : 14 Jun 2001 17:19
Sample : 1660 CCV 0.25 PPM
Misc :
IntFile : EVENTS.E

Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	12.453	0.4	100	0.00
2	L1	PCB1016{1}	250.000	253.839	-1.5	96	0.00
3	L1	PCB1016{2}	250.000	258.370	-3.3	98	0.00
4	L1	PCB1016{3}	250.000	262.746	-5.1	99	0.00
5	L1	PCB1016{4}	250.000	256.757	-2.7	97	0.00
6	L1	PCB1016{5}	250.000	259.262	-3.7	99	0.00
7	L2	PCB1260{1}	250.000	252.358	-0.9	95	0.00
8	L2	PCB1260{2}	250.000	252.775	-1.1	96	0.00
9	L2	PCB1260{3}	250.000	251.341	-0.5	95	0.00
10	L2	PCB1260{4}	250.000	248.693	0.5	92	0.00
11	L2	PCB1260{5}	250.000	237.777	4.9	90	0.00
12	S	DECACHLOROBIPHENYL	12.500	12.506	-0.0	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G13147R.D 8082R.M Fri Jun 15 06:12:39 2001 Page 1

Data File : 7G13147R.D
Acq On : 14 Jun 2001 17:19
Sample : 1660 CCV 0.25 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Jun 15 6:12 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	52814	12.453 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.26%
12) S DECACHLOROBIPHENYL	9.45	62493	12.506 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	62.53%
Target Compounds			
2) L1 PCB1016{1}	3.31	46931	253.839 UG/L
3) L1 PCB1016{2}	3.75	26578	258.370 UG/L
4) L1 PCB1016{3}	4.28	78661	262.746 UG/L
5) L1 PCB1016{4}	5.18	893	256.757 UG/L
6) L1 PCB1016{5}	5.73	30344	259.262 UG/L
Sum PCB1016		183408	1290.975 UG/L
Average PCB1016			258.195 UG/L
7) L2 PCB1260{1}	6.08	27741	252.358 UG/L
8) L2 PCB1260{2}	7.09	101726	252.775 UG/L
9) L2 PCB1260{3}	7.40	76762	251.341 UG/L
10) L2 PCB1260{4}	8.10	117766	248.693 UG/L
11) L2 PCB1260{5}	8.99	38757	237.777 UG/L
Sum PCB1260		362752	1242.943 UG/L
Average PCB1260			248.589 UG/L

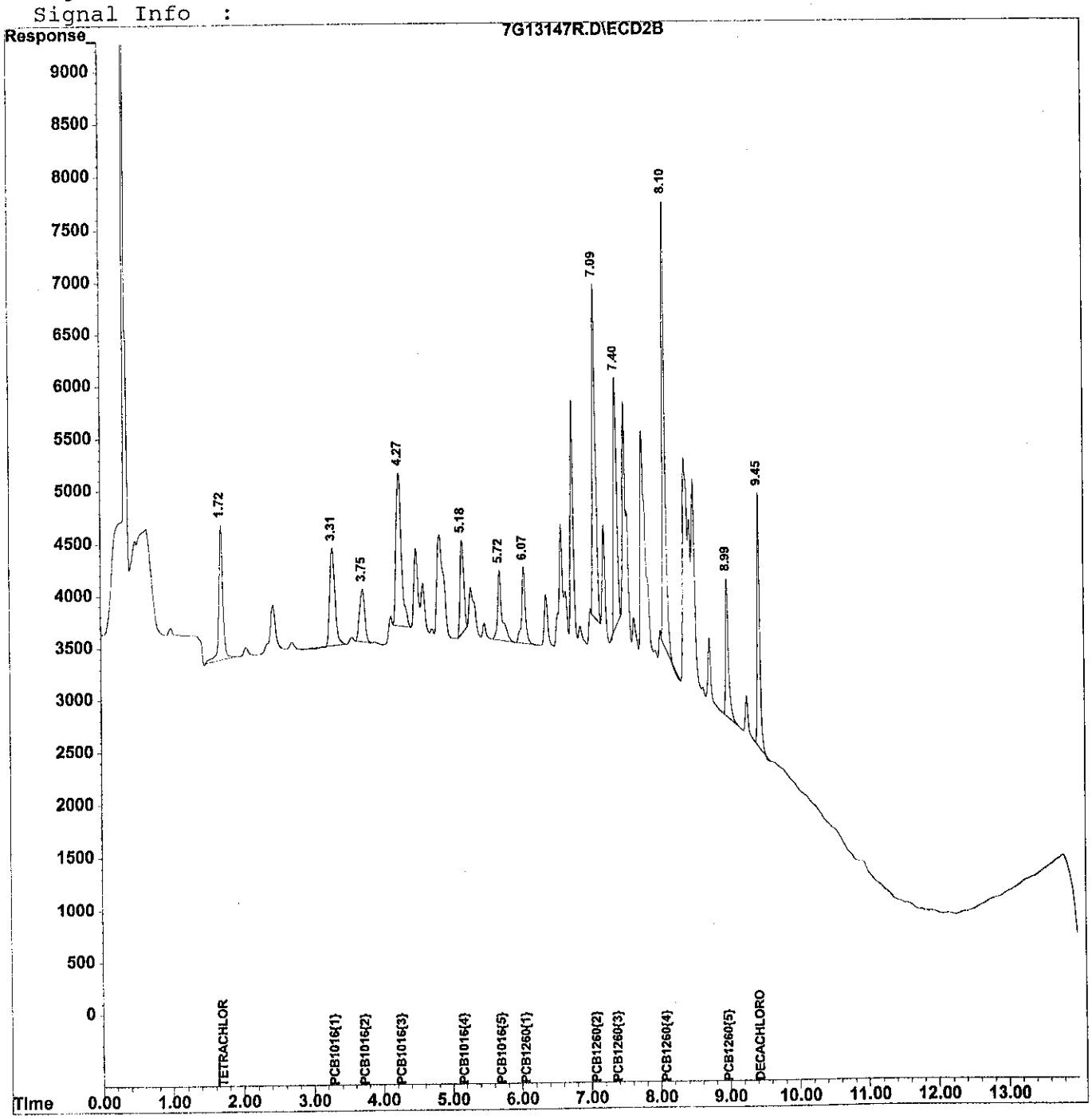
(f)=RT Delta > 1/2 Window
(m)=manual int.

Acq On : 14 Jun 2001 17:19
Sample : 1660 CCV 0.25 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Jun 15 6:12 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-7 REAR
GC Column: RTX-CLP

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	03/21/2001	03/22/2001	03/23/2001
File #	032101\7G11553R	032201\7G00592R	032301\7G11626R

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
AR 1016 #1	3.36	3.36	3.35	0.017
AR 1016 #2	3.80	3.79	3.79	0.017
AR 1016 #3	4.35	4.34	4.33	0.030
AR 1016 #4	5.23	5.22	5.22	0.017
AR 1016 #5	5.76	5.76	5.76	0.000
AR 1260 #1	6.13	6.12	6.11	0.030
AR 1260 #2	7.14	7.13	7.13	0.017
AR 1260 #3	7.46	7.44	7.44	0.035
AR 1260 #4	8.15	8.14	8.14	0.017
AR 1260 #5	9.05	9.04	9.04	0.017
TETRACHLORO-M-XYLENE	1.75	1.74	1.74	0.017
DECACHLOROBIPHENYL	9.49	9.48	9.48	0.017

2.2.3.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\[illegible]
Acq On : 14 Jun 2001 16:21
Sample : WG99230-01 BLANK V165P63
Misc : 1,1
IntFile : EVENTS.E
Quant Time: Jun 15 6:17 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.72	19245	4.538 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	22.69%
12) S DECACHLOROBIPHENYL	9.44	63908	12.789 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	63.94%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

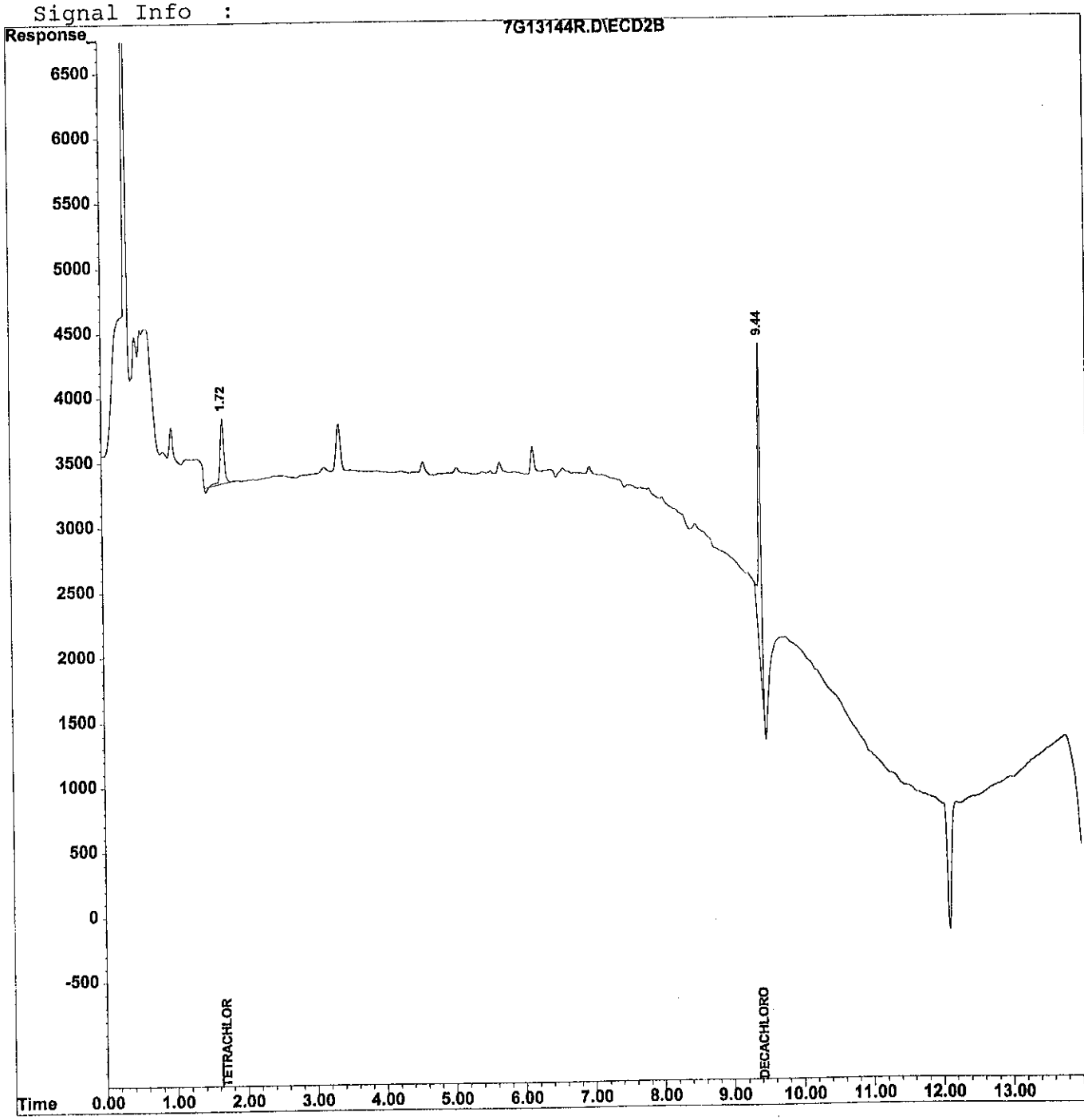
(f)=RT Delta > 1/2 Window
(m)=manual int.

Data File : C:\HPCHEM\1\DATA\7G13144R.D
Acq On : 14 Jun 2001 16:21
Sample : WG99230-01 BLANK V165P63
Misc : 1,1
IntFile : EVENTS.E
Quant Time: Jun 15 6:17 2001 Quant Results File: 8082R.RES

Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : [illegible]
Acq On : 14 Jun 2001 16:40
Sample : WG99230-02 LCS V165P63
Misc : 1,1
IntFile : EVENTS.E
Operator: SMW
Inst : HP7
Multiplr: 0.01
Quant Time: Jun 15 6:17 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

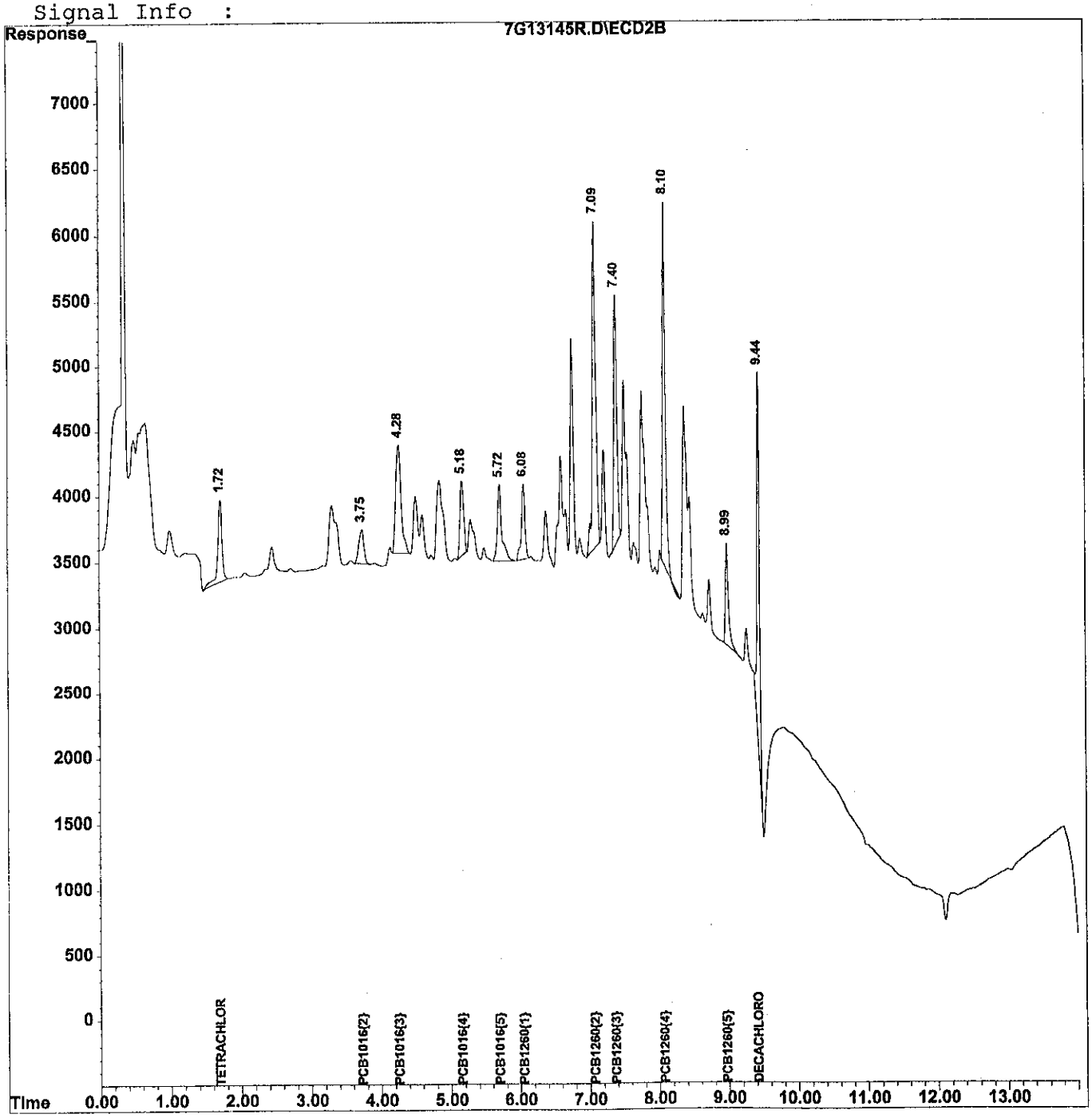
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		1.72	26120	6.159 UG/L
Spiked Amount	20.000	Range 13 - 154		Recovery =	30.80%
12) S	DECACHLOROBIPHENYL		9.44	69465	13.901 UG/L
Spiked Amount	20.000	Range 25 - 140		Recovery =	69.51%
Target Compounds					
2) L1	PCB1016{1}		0.00	0	N.D. UG/L
3) L1	PCB1016{2}		3.75	13363	1.299 UG/L
4) L1	PCB1016{3}		4.28	44829	1.497 UG/L
5) L1	PCB1016{4}		5.18	567	1.631 UG/L
6) L1	PCB1016{5}		5.73	25866	2.210 UG/L
Sum	PCB1016			84625	6.637 UG/L
Average	PCB1016				1.659 UG/L
7) L2	PCB1260{1}		6.08	20302	1.847 UG/L
8) L2	PCB1260{2}		7.09	85145	2.116 UG/L
9) L2	PCB1260{3}		7.40	62442	2.045 UG/L
10) L2	PCB1260{4}		8.10	76182	1.609 UG/L
11) L2	PCB1260{5}		8.99	23252	1.427 UG/L
Sum	PCB1260			267323	9.042 UG/L
Average	PCB1260				1.808 UG/L

(f)=RT Delta > 1/2 Window
(m)=manual int.
7G13145R.D 8082R.M Fri Jun 15 10:59:33 2001 Page 1

Acq On : 14 Jun 2001 16:40 Operator: SMW
Sample : WG99230-02 LCS V165P63 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Jun 15 6:17 2001 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 06/07/01
Last Update : Mon Jun 11 08:47:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 06-07-01 Instrument ID HP1R Column ID RTX-CLP Data Subdirectory 060701

Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7G1302	1600 CCV 0.5 PPM	1	SV52-41		CC
22	1610 ICAL 2.0 PPM				✓
23	1.0				
24	0.5				
25	0.25				
26	0.1				
27	0.05				
28	1640 ALT ICV 0.5 PPM		SV51-32		
29	1254 ICAL 2.0 PPM		SV53-13		
30	1.0				
31	0.5				
32	0.25				
33	0.1				
34	0.05				
35	1754 ALT ICV 0.5 PPM		SOS54-15		
36	1221 ICAL 0.5 PPM		SV52-36		
37	1232		SV53-03		
38	1242		SV53-11		
39	1248		SV53-12		
40	1221 ALT ICV 0.5 PPM		SV53-14		
41	1232		SV53-04		
42	1242		SOS54-16		
43	1248		SV52-35		
44	INST BLK		SV54-31		RR
45	WG 98566-02 BLK VHG4 P115				
46	1 -05 LCS 1				
47	LD105699-01				
48	-02				
49	-03				
50	-04				
51	-05				
52	-06				
53	WG 98566-01 LD105699-09				
54	-04 -10MS				

Reviewed By: EC 6/11/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 06-07-01 Instrument ID HP 7R Column ID RTX-CLP Data Subdirectory 060701

Daily Check

- [x] Gases >500 psi
- [ ] Change liner
- [ ] Change septum

Preventative Maintenance

- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [ ] Change gases _____

Returned To Control?

Yes ___ No ____

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 6/11/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6-6-01 CONT Instrument ID HP 7R Column ID RTX-CLP Data Subdirectory 060701

Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (If applicable)	Status
7G13055	1254 CCV 0.5 PPM	1	SV53-13		✓
56	1660 1		SV52-41		CC
57	INST BLK		SV54-31		AR
58	WG 98566-05 LD1056699-11 MSD				RR
59	LD1056699-12				
60	-13				
61	-14				
62	-15				
63	-16				
64	-17				
65	-18				
66	-19				
67	-20				CC
68	1660 CCV 0.5 PPM		SV52-41		1
69	INST BLK		SV54-31		

SMW 6-11-01

Reviewed By: ECZ 6/11/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 06-07-01 Instrument ID HP7R Column ID RTX-CLP Data Subdirectory 060701

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: ECS 6/4/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 10/14/01 Instrument ID HP7R Column ID RTX-CLP Data Subdirectory C:\1401

Analyst Initials SMO

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7g13136	1660 CCV 0.5 PPM	1	552-41		✓
37	L0106200-01				
38	" -02				
39	WG99256-01 L0106200-03				
40	" -04 " -03 MS				
41	" -05 " -03 MSD				
42	" -03 LCS V1605P73				
43	" -02 BLANK V1605P73				
44	WG99230-01 BLANK V1605P03				
45	" -02 LCS V1605P03				
46	L0106236-01				CA
47	1660 CCV 0.25 PPM		552-41		
48	WG99322-02 BLANK V1605P97				
49	" -03 LCS V1605P97				
50	" -01 L0106269-01				
51	" -04 " -01 MS				
52	" -05 " -01 MSD				
53	1660 CCV 0.5 PPM		552-41		
54	INST BLK		SOS 54-31		
55	WG98807-02 BLANK V1604P105				
56	" -03 LCS V1604P105				
57	L0106071-01				
58	" -02				
59	" -03				
60	" -04				
61	WG98807-01 L0106071-05				
62	" -04 " -06 MS				
63	" -05 " -07 MSD				
64	L0106071-08				
65	1254 CCV 0.5 PPM		SV53-13		
66	1660 "		552-41		
67	INST BLK		SOS 54-31		
68	L0106071-09				
69	" -10				

Reviewed By: mlc 11/5/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/14/01 Instrument ID HP7A Column ID RTX-CLP Data Subdirectory 01140A

Daily Check
- [x] Gases >500 psi
- [ ] Change liner
- [ ] Change septum

Preventative Maintenance
- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [ ] Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: mle 6/15/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/14/01 CONT Instrument ID HP7R Column ID RTX-CLP Data Subdirectory CL6140i

Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7g13170	L010600-71-11	1			✓
71	-12				
72	-13				
73	-14				
74	-15				
75	-16				
76	ICVER CCV 0.5 PPM		S52-41		
77	INST BLK		50054-31		
78	HEXANE				

CAB 6-15-01

Reviewed By: _____

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/14/01 0017 Instrument ID HP7R Column ID Rtx-CLP Data Subdirectory 061401

Daily Check
- [x] Gases >500 psi
- [ ] Change liner
- [ ] Change septum

Preventative Maintenance
- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [ ] Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: _____ 6/15/01

Page 05

Parameter: PCB-H_2O SOP #: EXP01 Revision #: 9
Extraction Analyst(s): TM TV/KD Analyst(s): JAS DCJ
Date/Time Extracted: 6/12/01 15:00 Date TV/KD: 6/12/01
Spike/Surrogate Analyst: TM Witness: JEA
Surrogate #: ES50039-22 Earliest Hold Date: 6/15/01
Spike #: A = ES50036-35 Spike #: B = ~~~

Extraction Work Group WG 99230
Analytical Work Group WG 97326

Extract Relinquished By: DD
Extract Received By & Date: 6/12/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	200µl		10ml	T				WG 99230-03
2	LCS			✓		1	1	100µl	1	1				WG 1 -02
3	06-236-01	8082		✓		920ml	1		1	1				
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	✓	N/A	
Sulfur 3660B			

Methylene Chloride Lot #: ~~~
Hexane Lot #: 40336
Ether Lot #: ~~~
Methanol Lot #: ~~~
Solvent: ~~~ Lot #: ~~~
Reagent: 99:6 Lot #: ER1761
Reagent: ~~~ Lot #: ~~~
Reagent: ~~~ Lot #: ~~~
Acid: con. H_2SO_4 Lot #: V03057
Florisil Lot #: T49556
Silica Gel Lot #: ~~~
IR Analyst / Date / Time: ~~~
Dried Na_2SO_4 Lot #: ER1738

Peer Reviewed By: [signature] Date: 06/13/01

Extraction Notes For Volume # 165 Page # 63

General Comments: Nothing to report

Extraction Anomalies: Nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: [signature] Date: 6/14/01

Example 8082 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.4 Herbicide GC Data (8151)

REPORT NARRATIVE
GC HERBICIDES

KEMRON Report No.:L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8151

HOLDING TIMES

Sample Preparation: Sample fraction -01 was reextracted out of hold time.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: The LCS associated with WG99391 yielded % recoveries for all compounds that were below the advisory limits. Samples in this work group were reextracted. All other acceptance criteria were met.
Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: The blank and LCS associated with WG99391 yielded % recoveries for DCAA that were below the advisory limit. Samples in this work group were reextracted. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL REVIEWED Stephanie L Tupe DATE: 6/22/01

Rev. 7/14/00

531

Date: 6/20/01
Analyst: ECL
Method: 8151
Instrument: HPI
Work Group: WG 99805 WG 99743

	Analyst
System Performance Check	NA
Endrin & DDT Breakdown	
Initial Calibration	
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	NA
Reruns	✓
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	✓
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 6/21/01

Secondary Reviewer Initials & Date Checked [illegible] 6/21/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [illegible] 6/21/01

Comments: _____

532

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

Date: 6/18/01
Analyst: ECL
Method: 8151
Instrument: HP I
Work Group:

VG 99207
99391

	Analyst
System Performance Check	NA
Endrin & DDT Breakdown	
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	NA
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	✓
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	✓
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ~~CR~~ 6/19/01

Secondary Reviewer Initials & Date Checked ~~X~~ 6/19/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked 6/19/01

Comments: WG 99391 sent for reextraction, LCS was low

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

533

HERBICIDE-GC DATA (8151)

Login Number: 06-236

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

NA Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: EC2 Date: 6/22/01

534

2.2.4.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8151 WATERS , FRONT

INSTRUMENT : HP1
EXT'N DATE : 6/13/01 **ANALYST :** ECL **BLK FLNM :** 1G3954 **SMPL ID :** NA
EXT'N BENCH SHT : V165 P93 **RUN DATE :** 6/18/01 **LCS FLNM :** 1G3955 **SMPL FLNM :** NA
EXT'N WORK GRP : WG99317 **ANAL WORK GRP :** WG99391 **MS FLNM :** NA
MSD FLNM : NA

		CONCENTRATION , ug/l					% RECOVERY								PERCENT						
COMPOUND	RL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
DALAPON	5.0	ND	3.04	ND	NA	NA	NA	24.3	13	101	NA	NA	NA	13	101	NA	0-73					
MCPA	250	ND	96.0	ND	NA	NA	NA	19.2	26	114	NA	NA	NA	26	114	NA	0-44		L			
DICAMBA	0.2	ND	0.115	ND	NA	NA	NA	23.0	43	129	NA	NA	NA	43	129	NA	0-55		L			
MCPP	250	ND	92.0	ND	NA	NA	NA	18.4	32	119	NA	NA	NA	32	119	NA	0-43		L			
DICHLOROPROP	2.0	ND	0.817	ND	NA	NA	NA	16.3	42	118	NA	NA	NA	42	118	NA	0-37		L			
2,4-D	2.0	ND	0.787	ND	NA	NA	NA	15.7	29	133	NA	NA	NA	29	133	NA	0-56		L			
SILVEX	0.2	ND	0.0470	ND	NA	NA	NA	9.4	38	130	NA	NA	NA	38	130	NA	0-52		L			
2,4,5-T	0.2	ND	0.0500	ND	NA	NA	NA	10.0	24	133	NA	NA	NA	24	133	NA	0-61		L			
DINOSEB	1.0	ND	0.101	ND	NA	NA	NA	4.0	28	92	NA	NA	NA	28	92	NA	0-54		L			
2,4-DB	2.0	ND	0.903	ND	NA	NA	NA	18.1	29	123	NA	NA	NA	29	123	NA	0-45		L			
PENTACHLOROPHENOL	0.2	ND	0.0290	ND	NA	NA	NA	5.8	38	130	NA	NA	NA	38	130	NA	0-52		L			
SURROGATES																						
DCAA		73.9	87.4	NA	NA	NA	14.8	17.5	20	144	NA	NA	NA	20	144			L	L			

NOTES & DEFINITIONS :

SURROGATES spiked at 500 ug/l
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT
LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

536

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8151 WATERS , FRONT

INSTRUMENT : HP1
EXT'N DATE : 6/19/01 ANALYST : ECL BLK FLNM : 1G3974 SMPL ID : NA
EXT'N BENCH SHT : V165 P195 RUN DATE : 6/20/01 LCS FLNM : 1G3975 SMPL FLNM : NA
EXT'N WORK GRP : WG99636 ANAL WORK GRP : WG99805 MS FLNM : NA
MSD FLNM : NA

COMPOUND	RL	CONCENTRATION , ug/l					% RECOVERY									PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
DALAPON	5.0	ND	5.51	ND	NA	NA	NA	44.1	13	101	NA	NA	NA	13	101	NA	0-73					
MCPA	250	ND	497	ND	NA	NA	NA	99.4	26	114	NA	NA	NA	26	114	NA	0-44					
DICAMBA	0.2	ND	0.480	ND	NA	NA	NA	96.0	43	129	NA	NA	NA	43	129	NA	0-55					
MCPP	250	ND	499	ND	NA	NA	NA	99.8	32	119	NA	NA	NA	32	119	NA	0-43					
DICHLOROPROP	2.0	ND	4.57	ND	NA	NA	NA	91.4	42	118	NA	NA	NA	42	118	NA	0-37					
2,4-D	2.0	ND	4.60	ND	NA	NA	NA	92.0	29	133	NA	NA	NA	29	133	NA	0-56					
SILVEX	0.2	ND	0.371	ND	NA	NA	NA	74.2	38	130	NA	NA	NA	38	130	NA	0-52					
2,4,5-T	0.2	ND	0.352	ND	NA	NA	NA	70.4	24	133	NA	NA	NA	24	133	NA	0-61					
DINOSEB	1.0	ND	1.76	ND	NA	NA	NA	70.2	28	92	NA	NA	NA	28	92	NA	0-54					
2,4-DB	2.0	ND	5.92	ND	NA	NA	NA	118.4	29	123	NA	NA	NA	29	123	NA	0-45					
PENTACHLOROPHENOL	0.2	ND	0.538	ND	NA	NA	NA	107.6	38	130	NA	NA	NA	38	130	NA	0-52					
SURROGATES																						
DCAA		449	520	NA	NA	NA	89.9	104.1	20	144	NA	NA	NA	20	144							

NOTES & DEFINITIONS :
SURROGATES spiked at 500 ug/l
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT
LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

537

2.2.4.2 Sample Data

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD1A.CH Vial: 15
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:27 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:37 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:28:08 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.11f	10.62	112925	235951	134.295	143.207	
	Spiked Amount 500.000	Range 20 - 144			Recovery =	26.86%	28.64%	
	Target Compounds							
1)	Dalapon	0.00	3.51	0	7193	N.D.	0.026	#
3)	MCPA	10.94	11.42	27646	15306	0.087 BRL	0.041	#
4)	Dicamba	10.35f	0.00	73820	0	0.162	N.D.	#
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.	
6)	Dichloroprop	11.43	0.00	1656405	0	14.821	N.D.	#
7)	2,4-D	0.00	12.25f	0	20593	N.D.	0.061	#
8)	Pentachloropheno	0.00	0.00	0	0	N.D.	N.D.	
9)	Silvex	12.88f	13.34	137596	506658	0.190 ~~BRL~~	0.297	#
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
11)	Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
12)	2,4-DB	0.00	14.40f	0	667055	N.D.	8.704	#

5-39

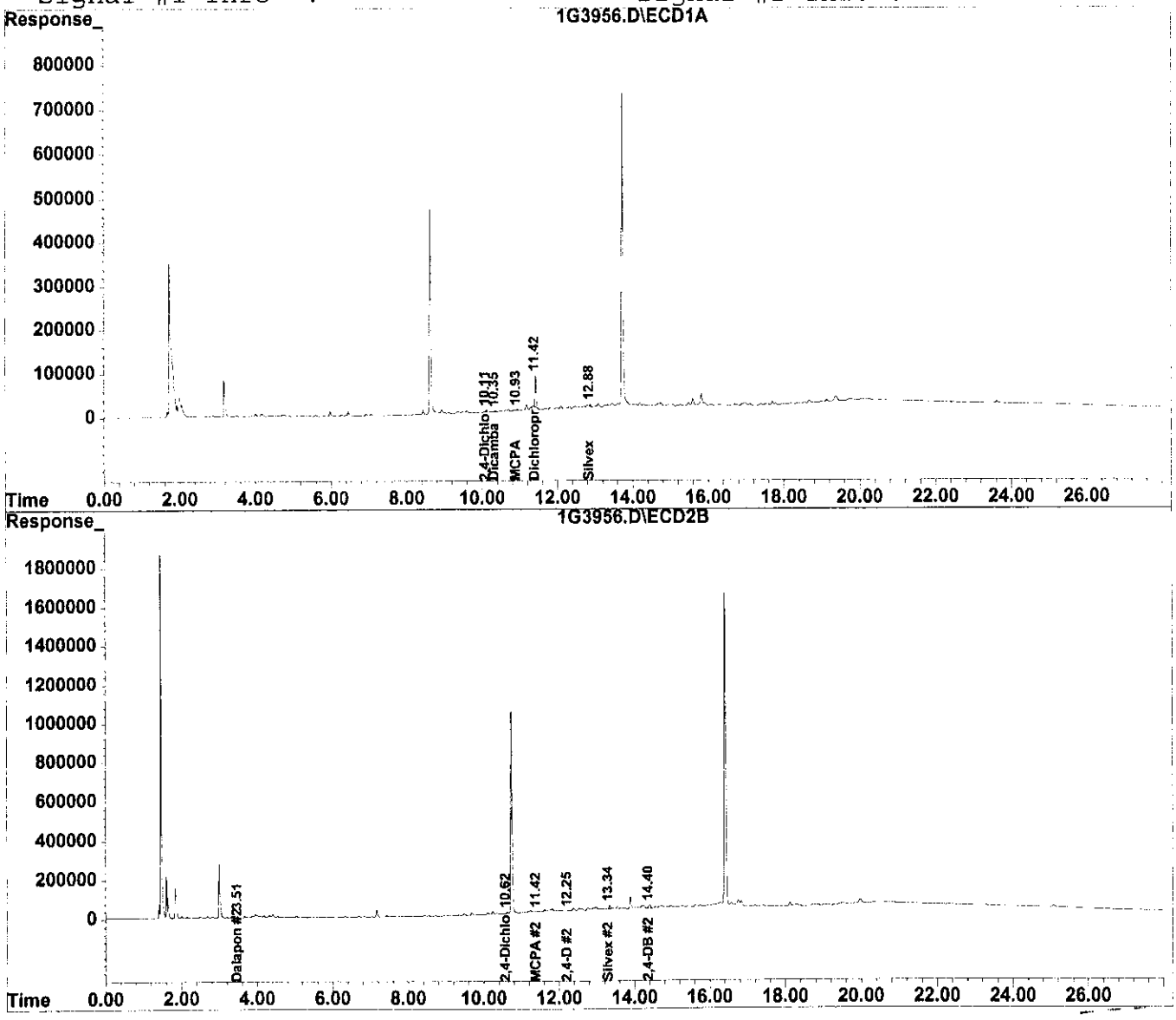
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD1A.CH Vial: 15
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:27 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:37 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:28:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

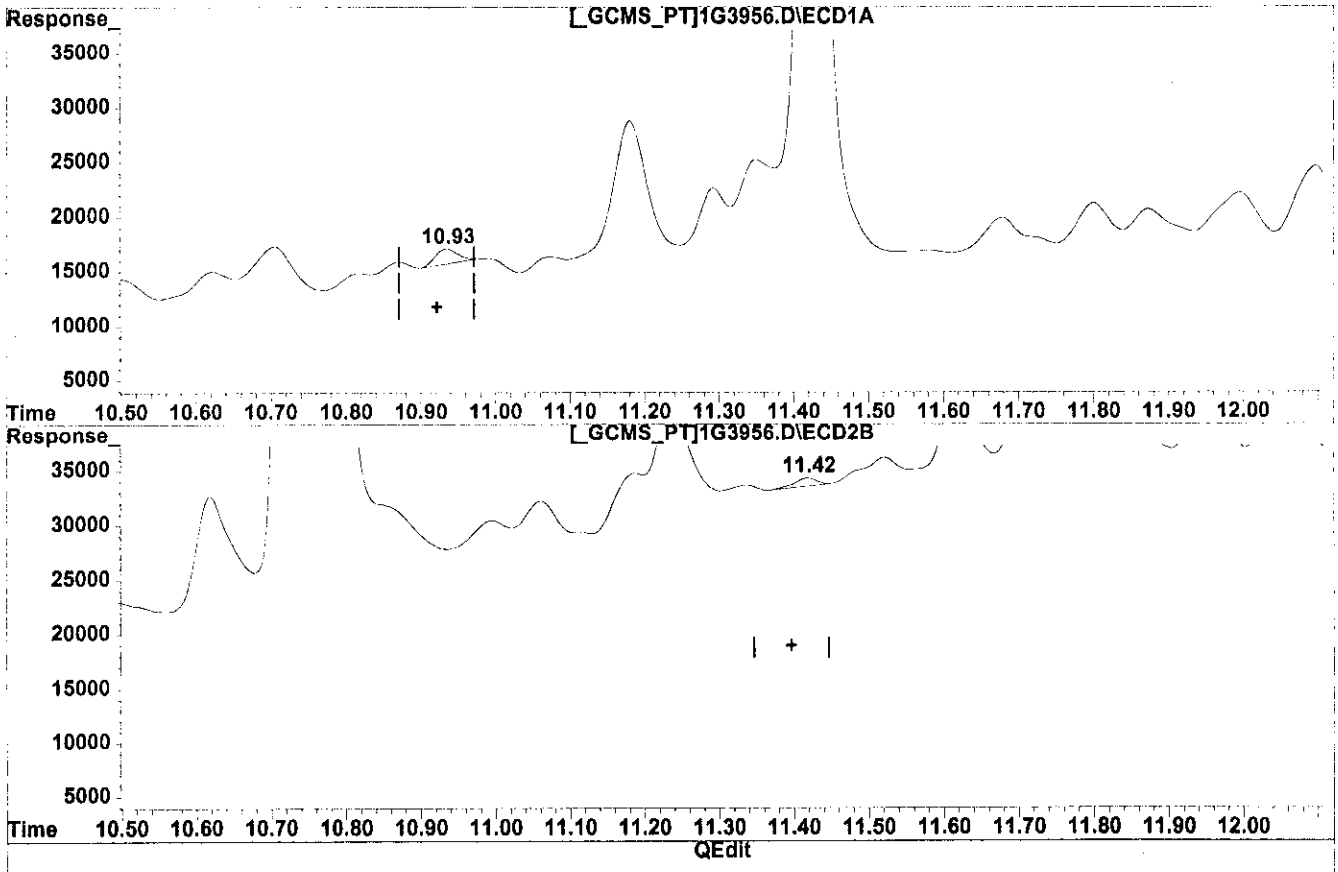
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD1A.CH Vial: 15
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:27 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:37 2001 Quant Results File: 8151.RES

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration



(3) MCPA
10.94min 0.087mg/l
response 27646

(3) MCPA #2
11.42min 0.041mg/l
response 15306

BRL

(+) = Expected Retention Time

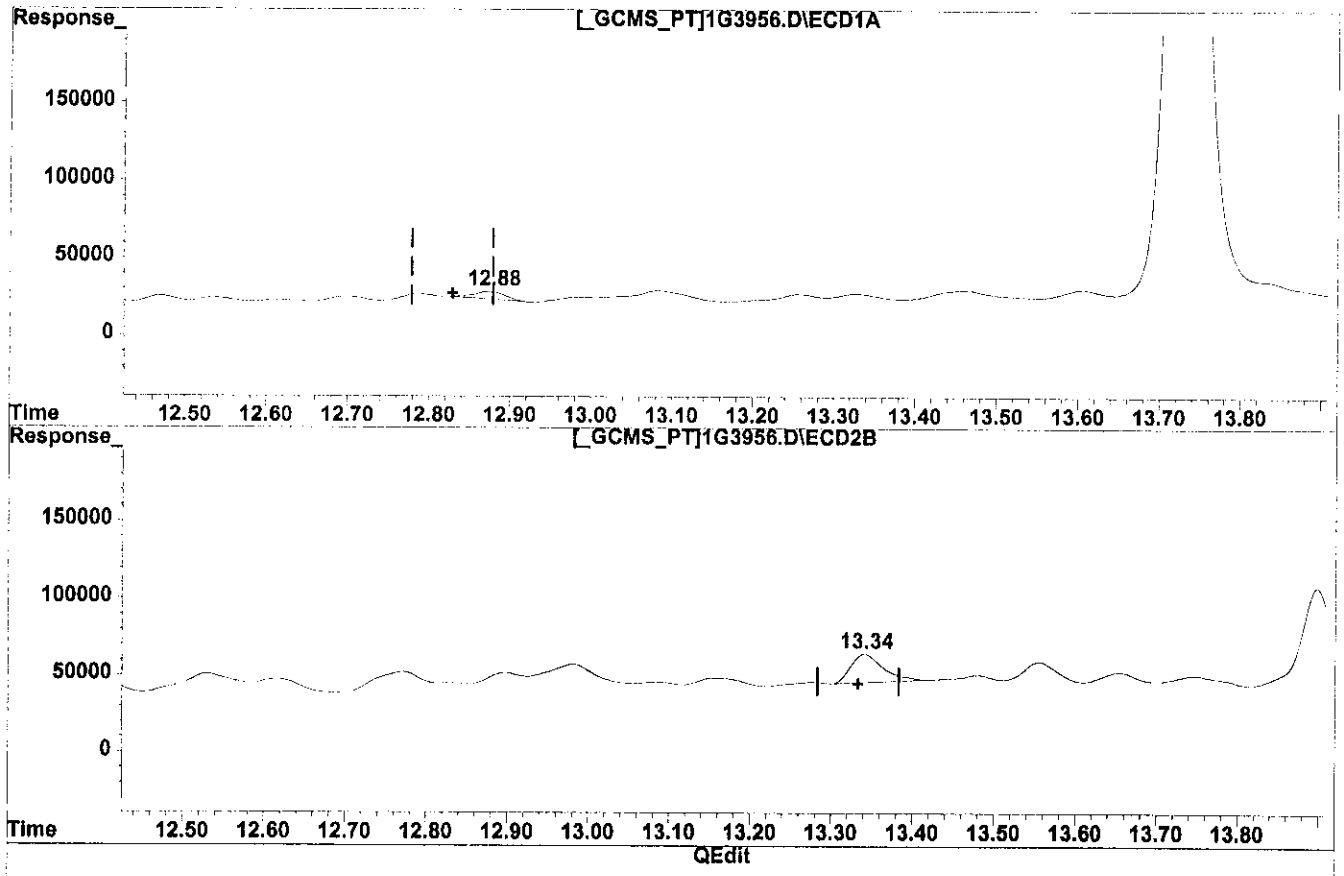
541

1G3956.D 8151.M Tue Jun 19 09:00:18 2001

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD1A.CH Vial: 15
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3956.D\ECD2B.CH Vial: 15
Acq On : 18 Jun 2001 21:27 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:37 2001 Quant Results File: 8151.RES

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration



(9) Silvex
12.88min 0.190ug/L
response 137596

peak shape

(9) Silvex #2
13.34min 0.297ug/L
response 506658

(+) = Expected Retention Time
1G3956.D 8151.M Tue Jun 19 09:00:25 2001

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Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD1A.CH Vial: 4
Acq On : 20 Jun 2001 16:58 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1,RE1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD2B.CH Vial: 4
Acq On : 20 Jun 2001 17:33 Operator: ECL
Sample : WG99636-02 LCS V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:53 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:50:45 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2)	S 2,4-Dichlorophen	10.18	10.62	222344	650974	264.421	395.100	#
	Spiked Amount 500.000	Range 20 - 144			Recovery =	52.88%	79.02%	
	Target Compounds							
1)	Dalapon	0.00	3.51	0	20290	N.D.	0.080	#
3)	MCPA	11.01f	11.42f	24719	125101	0.086	0.365	#
4)	Dicamba	0.00	0.00	0	0	N.D.	N.D.	
5)	MCPP	0.00	11.01f	0	1717483	N.D.	6.867	#
6)	Dichloroprop	11.51f	0.00	2534965	0	24.950	N.D.	#
7)	2,4-D	0.00	12.28	0	2836114	N.D.	9.181	#
8)	Pentachloropheno	0.00	12.77	0	1059788	N.D.	0.374	#
9)	Silvex	0.00	13.35f	0	551214	N.D.	0.355	#
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
11)	Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
12)	2,4-DB	0.00	14.41	0	1473948	N.D.	21.156	#

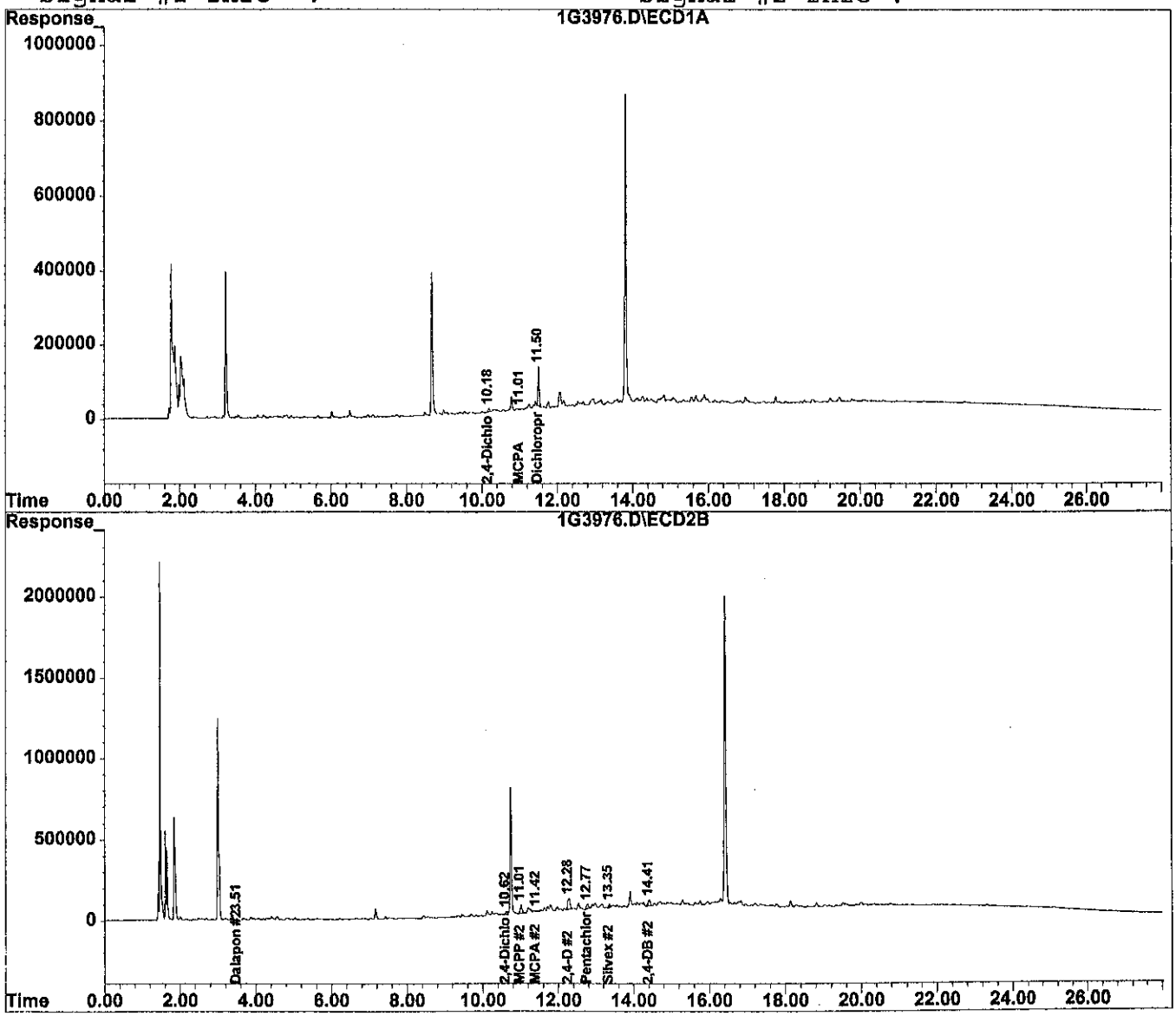
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int
543

Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD1A.CH Vial: 4
Acq On : 20 Jun 2001 16:58 Operator: ECL
Sample : L0106236-01 Inst : HP1
Misc : 1,1,RE1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD2B.CH Vial: 4
Acq On : 20 Jun 2001 17:33 Operator: ECL
Sample : WG99636-02 LCS V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:53 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:50:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

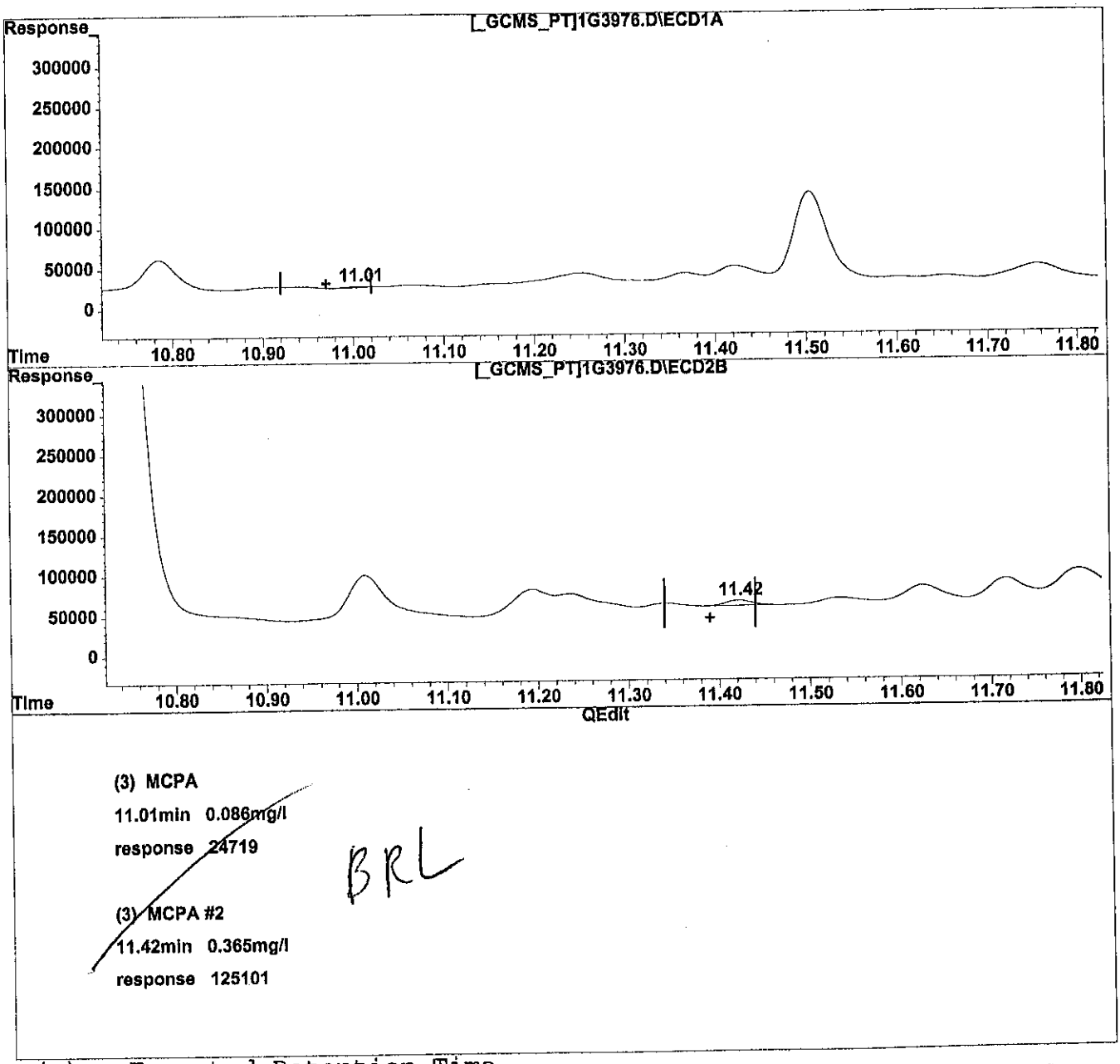
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



```
Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD1A.CH     Vial: 4
Acq On    : 20 Jun 2001  16:58                          Operator: ECL
Sample    : L0106236-01                                 Inst    : HP1
Misc      : 1,1,RE1                                     Multiplr: 0.01
IntFile   : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3976.D\ECD2B.CH     Vial: 4
Acq On    : 20 Jun 2001  17:33                          Operator: ECL
Sample    : WG99636-02 LCS V165 P195                    Inst    : HP1
Misc      : 1,1                                         Multiplr: 0.01
IntFile   : events2.e
Quant Time: Jun 21 11:53 2001  Quant Results File: 8151.RES

Method        : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title         : CALIBRATION June 18, 2001
Last Update   : Mon Jun 18 16:55:53 2001
Response via  : Multiple Level Calibration
```



BRL

(+) = Expected Retention Time

1G3976.D 8151.M Thu Jun 21 12:18:35 2001

545

2.2.4.3 Standards Data

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001

Calibration Files
5 =1G3942.D 4 =1G3943.D 3 =1G3944.D
2 =1G3945.D 1 =1G3946.D

		Compound	5	4	3	2	1	Avg	%RSD
1)		Dalapon	1.175	1.251	1.448	1.602	1.890	1.473#E3	19.46
2)	S	2,4-Dichlorophenylace	0.625	0.749	0.873	0.926	1.032	0.841#E3	18.80
3)		MCPA	2.430	2.980	3.037	3.410	4.008	3.173#E3	18.39
4)		Dicamba	3.738	4.266	4.671	4.837	5.317	4.566#E3	13.07
5)		MCPP	2.400	3.299	2.694	2.776	1.944	2.623#E3	19.02
6)		Dichloroprop	0.838	0.994	1.173	1.237	1.345	1.118#E3	18.02
7)		2,4-D	0.881	1.073	1.252	1.340	1.337	1.176#E3	16.81
8)		Pentachlorophenol	1.043	1.179	1.196	1.206	1.269	1.179#E4	7.07
9)		Silvex	6.418	7.000	7.551	7.645	7.663	7.255#E3	7.46
10)		2,4,5-T	5.673	6.532	7.270	7.445	7.819	6.948#E3	12.27
11)		Dinoseb	3.916	4.414	5.034	5.490	6.320	5.035#E3	18.56
12)		2,4-DB	2.970	3.464	3.799	4.041	4.363	3.727#E2	14.39

Signal #2 Calibration Files
5 =1G3942.D 4 =1G3943.D 3 =1G3944.D
2 =1G3945.D 1 =1G3946.D

		Compound	5	4	3	2	1	Avg	%RSD
1)		Dalapon	2.159	2.438	2.770	3.054	3.591	2.802#E3	19.81
2)	S	2,4-Dichlorophenylace	1.240	1.429	1.689	1.841	2.039	1.648#E3	19.34
3)		MCPA	3.600	3.787	4.029	3.992	3.433	3.768#E3	6.76
4)		Dicamba	0.839	0.968	1.131	1.092	1.190	1.044#E4	13.46
5)		MCPP	2.627	3.022	3.197	2.902	2.008	2.751#E3	16.87
6)		Dichloroprop	1.661	1.927	2.275	2.458	2.604	2.185#E3	17.73
7)		2,4-D	2.645	3.036	3.557	3.671	4.081	3.398#E3	16.54
8)		Pentachlorophenol	2.616	2.934	3.236	3.212	3.597	3.119#E4	11.77
9)		Silvex	1.433	1.605	1.750	1.810	1.936	1.707#E4	11.35
10)		2,4,5-T	1.373	1.574	1.758	1.841	1.947	1.698#E4	13.38
11)		Dinoseb	0.845	0.941	1.089	1.185	1.363	1.085#E4	18.77
12)		2,4-DB	6.503	7.205	7.719	7.801	9.089	7.664#E2	12.40

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\061801\1G3942.D\ECD1A.CH Vial: 1
Acq On : 18 Jun 2001 12:45 Operator: ECL
Sample : HERBICIDE ICAL #5 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3942.D\ECD2B.CH Vial: 1
Acq On : 18 Jun 2001 13:20 Operator: ECL
Sample : HERBICIDE ICAL #5 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:50 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.20	10.66	1249276	2479086	1427.670	1443.295
	Spiked Amount 500.000	Range 20 - 144		Recovery =		285.53%#	288.66%#
	Target Compounds						
1)	Dalapon	3.73	3.54	5877283	10793372	4056.224	3851.550
3)	MCPA	11.00f	11.45	485948	720015	153.887	191.066
4)	Dicamba	10.46	10.91	747550	1678120	164.178	154.635
5)	MCPP	10.78f	11.11	480004	525393	185.334	188.892
6)	Dichloroprop	11.50	11.91	1676753	3321071	1435.979	1422.480
7)	2,4-D	11.81	12.33	1761315	5290913	1413.317	1471.336
8)	Pentachlorophenol	12.05	12.80	2085284	5231306	177.263	165.656
9)	Silvex	12.89	13.37	1283549	2865803	178.648	167.925
10)	2,4,5-T	13.24	13.85f	1134511	2746226	163.873	161.686
11)	Dinoseb	15.14	14.83	3916260	8446680	780.388	771.492
12)	2,4-DB	13.91	14.47f	593908	1300628	1605.351	1697.157

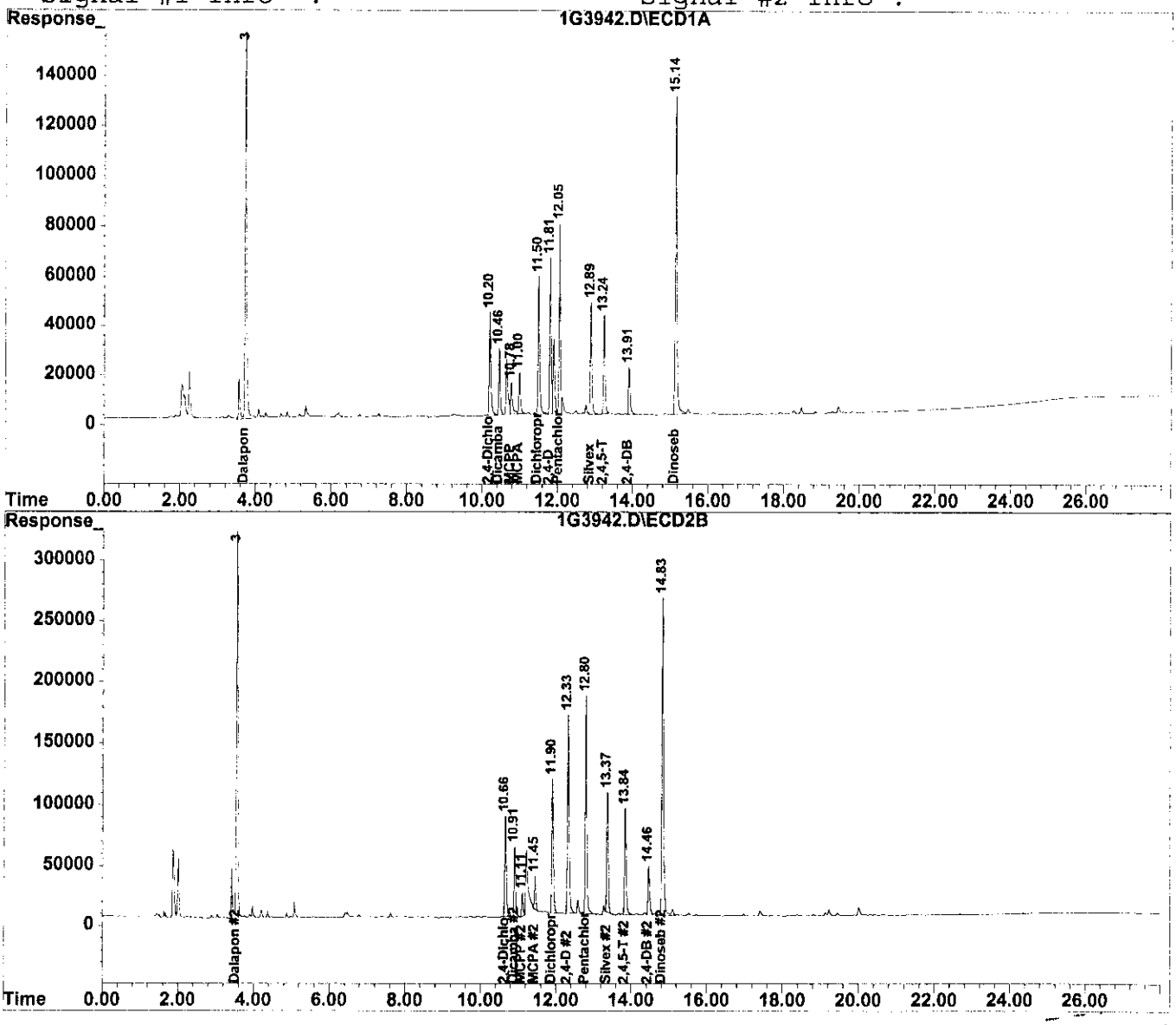
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\061801\1G3942.D\ECD1A.CH    Vial: 1
Acq On    : 18 Jun 2001  12:45                        Operator: ECL
Sample    : HERBICIDE ICAL #5                         Inst    : HP1
Misc      :                                           Multiplr: 1.00
IntFile   : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3942.D\ECD2B.CH    Vial: 1
Acq On    : 18 Jun 2001  13:20                        Operator: ECL
Sample    : HERBICIDE ICAL #5                         Inst    : HP1
Misc      :                                           Multiplr: 1.00
IntFile   : events2.e
Quant Time: Jun 18 16:50 2001  Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title        : CALIBRATION May 25, 2001
Last Update  : Mon Jun 18 16:40:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj.      :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



Data File : C:\HPCHEM\1\DATA\061801\1G3943.D\ECD1A.CH Vial: 2
Acq On : 18 Jun 2001 13:20 Operator: ECL
Sample : HERBICIDE ICAL #4 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3943.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:55 Operator: ECL
Sample : HERBICIDE ICAL #5 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:42 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

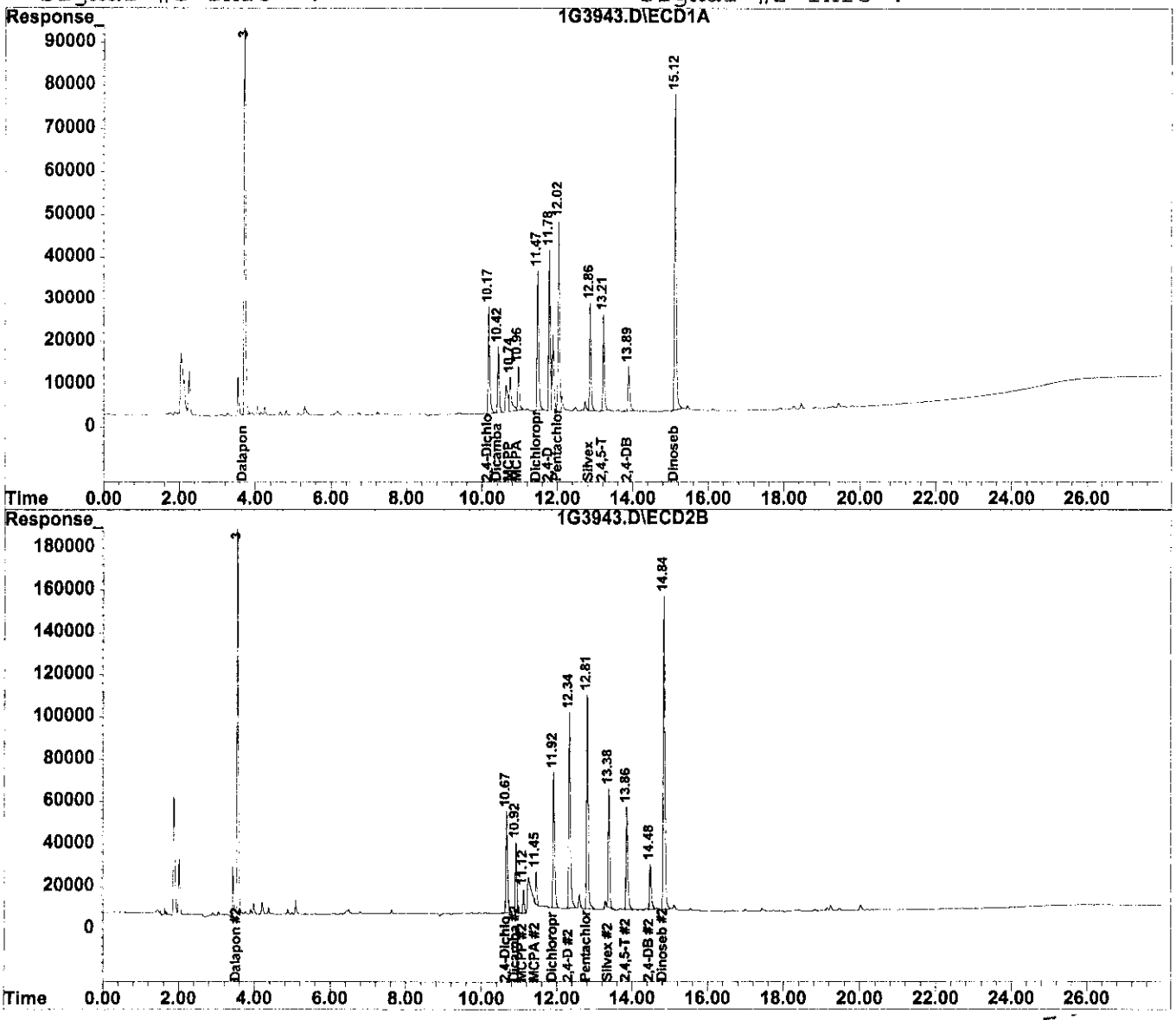
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.17f	10.67	749240	1429495	855.198	759.154
	Spiked Amount 500.000	Range 20 - 144		Recovery =		171.04%#	151.83%#
	Target Compounds						
1)	Dalapon	3.71	3.55	3127352	6095464	2195.303	1973.503
3)	MCPA	10.96f	11.45	297969	378677	88.429	84.000
4)	Dicamba	10.43f	10.92	426571	968237	90.962	81.048
5)	MCPP	10.75f	11.12	329884	302215	103.063	95.135
6)	Dichloroprop	11.47f	11.92	994223	1926734	848.543	747.497
7)	2,4-D	11.78f	12.34	1072610	3036415	848.888	757.829
8)	Pentachloropheno	12.02f	12.81	1179059	2933701	94.851	81.030
9)	Silvex	12.87f	13.38	699986	1605008	92.097	78.369
10)	2,4,5-T	13.22f	13.86	653211	1574281	89.313	80.300
11)	Dinoseb	15.12f	14.84	2207249	4705086	425.884	371.946
12)	2,4-DB	13.89	14.48	346428	720549	866.130	801.444

Data File : C:\HPCHEM\1\DATA\061801\1G3943.D\ECD1A.CH Vial: 2
Acq On : 18 Jun 2001 13:20 Operator: ECL
Sample : HERBICIDE ICAL #4 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3943.D\ECD2B.CH Vial: 2
Acq On : 18 Jun 2001 13:55 Operator: ECL
Sample : HERBICIDE ICAL #5 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:42 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061801\1G3944.D\ECD1A.CH Vial: 3
Acq On : 18 Jun 2001 13:55 Operator: ECL
Sample : HERBICIDE ICAL #3 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3944.D\ECD2B.CH Vial: 3
Acq On : 18 Jun 2001 14:30 Operator: ECL
Sample : HERBICIDE ICAL #4 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:43 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2)	S 2,4-Dichlorophen	10.19	10.67	436315	844661	503.122	460.783
	Spiked Amount 500.000	Range 20 - 144		Recovery =		100.62%	92.16%
	Target Compounds						
1)	Dalapon	3.71	3.55	1809506	3462117	1277.288	1150.710
3)	MCPA	10.97	11.45	151859	201473	45.689	46.553
4)	Dicamba	10.44	10.92	233554	565539	50.513	48.846
5)	MCPP	10.75	11.12	134709	159834	42.093	52.261
6)	Dichloroprop	11.48	11.91	586680	1137433	506.176	454.776
7)	2,4-D	11.79	12.34	626207	1778322	503.620	457.469
8)	Pentachloropheno	12.04	12.80	598215	1618013	48.910	46.301
9)	Silvex	12.88	13.38	377540	874907	50.761	44.461
10)	2,4,5-T	13.23	13.86	363476	878952	50.674	46.355
11)	Dinoseb	15.13	14.83	1258585	2722346	245.598	222.349
12)	2,4-DB	13.91	14.48	189966	385937	485.202	445.731

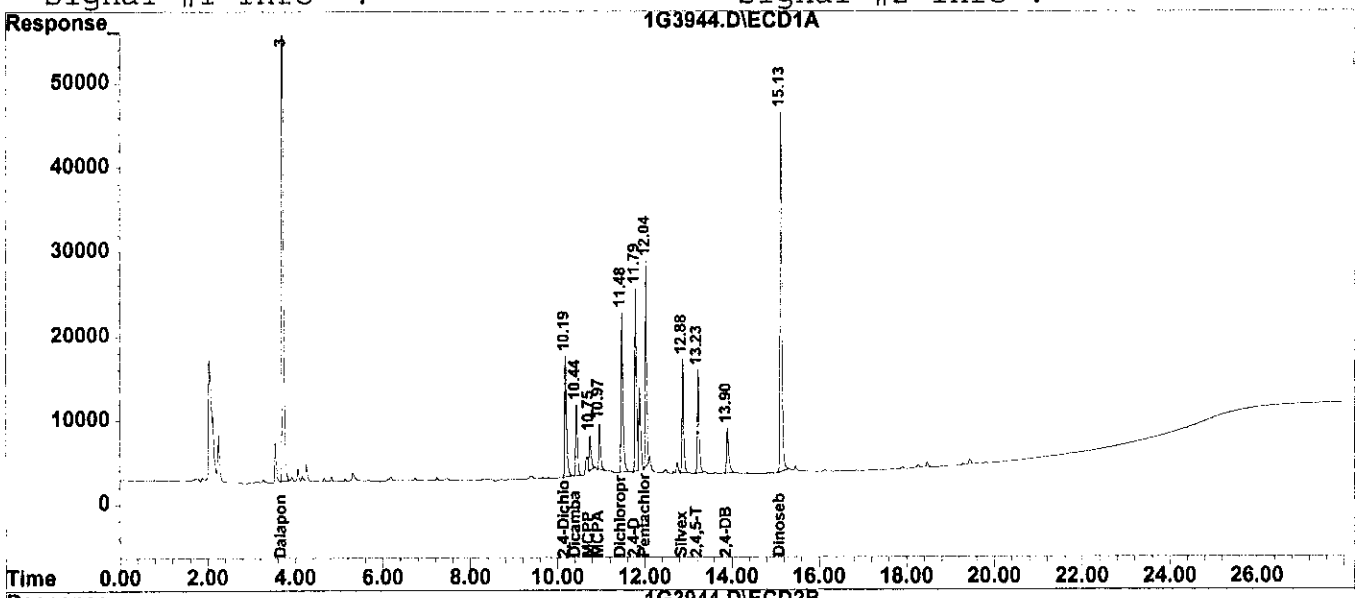
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

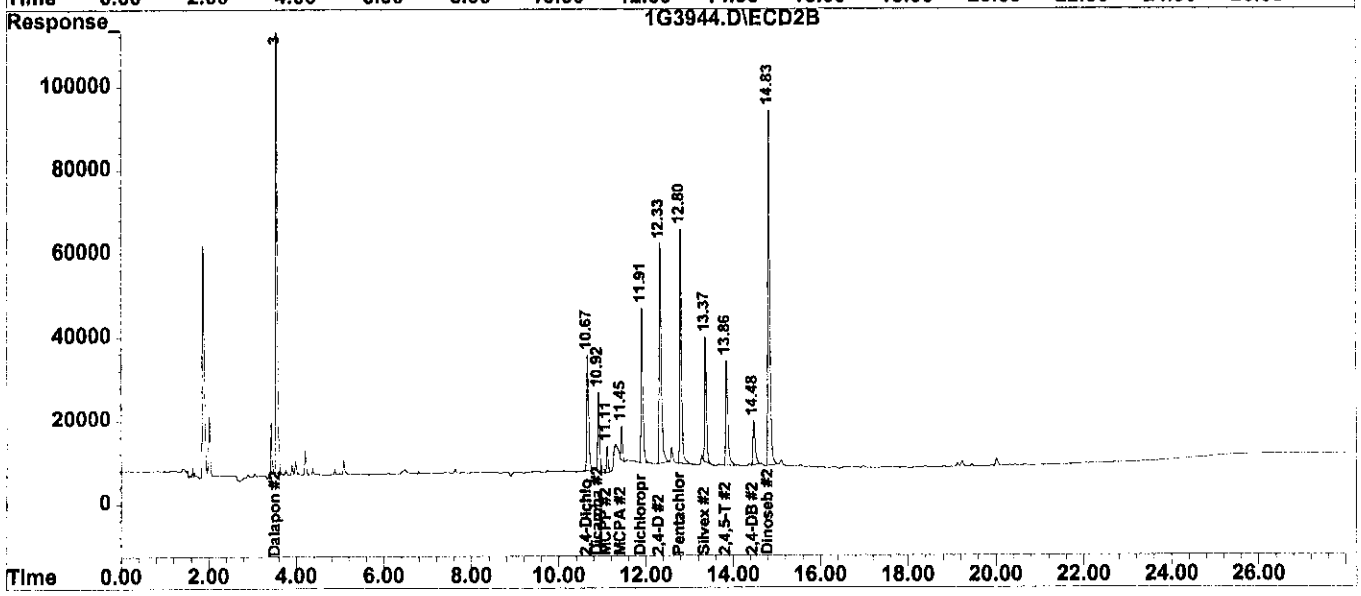
Data File : C:\HPCHEM\1\DATA\061801\1G3944.D\ECD1A.CH Vial: 3
Acq On : 18 Jun 2001 13:55 Operator: ECL
Sample : HERBICIDE ICAL #3 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3944.D\ECD2B.CH Vial: 3
Acq On : 18 Jun 2001 14:30 Operator: ECL
Sample : HERBICIDE ICAL #4 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:43 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\061801\1G3945.D\ECD1A.CH Vial: 4
Acq On : 18 Jun 2001 14:30 Operator: ECL
Sample : HERBICIDE ICAL #2 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3945.D\ECD2B.CH Vial: 4
Acq On : 18 Jun 2001 15:04 Operator: ECL
Sample : HERBICIDE ICAL #3 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:52 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:40:50 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2)	S 2,4-Dichlorophen	10.19	10.66	231382	460281	264.320	267.970
	Spiked Amount 500.000	Range 20 - 144		Recovery =		52.86%	53.59%
	Target Compounds						
1)	Dalapon	3.71	3.54	1001029	1908885	679.578	681.174
3)	MCPA	10.97	11.44	85247	99811	26.931	26.486
4)	Dicamba	10.44	10.91	120934	273057	26.538	25.162
5)	MCPP	10.76	11.11	69396	72542	26.739	26.081
6)	Dichloroprop	11.48	11.91	309342	614591	263.524	263.241
7)	2,4-D	11.79	12.33	334881	917798	268.199	255.228
8)	Pentachloropheno	12.04	12.80	301522	802991	25.581	25.428
9)	Silvex	12.88	13.37	191122	452410	26.571	26.510
10)	2,4,5-T	13.23	13.86	186128	460148	26.872	27.091
11)	Dinoseb	15.13	14.83	686249	1481487	136.473	134.517
12)	2,4-DB	13.91	14.48	101027	195025	273.081	254.483

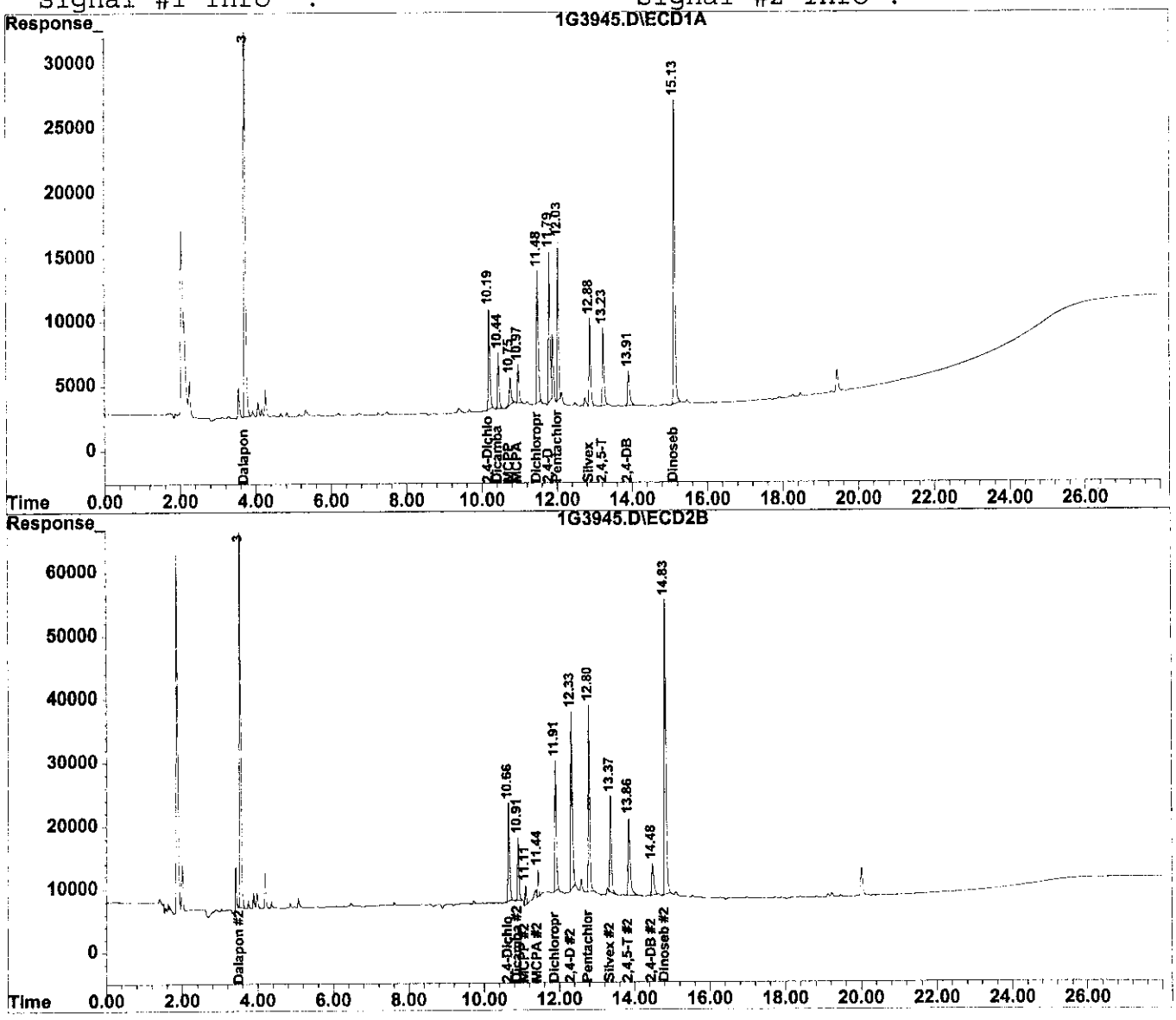
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\061801\1G3945.D\ECD1A.CH    Vial: 4
Acq On    : 18 Jun 2001  14:30                         Operator: ECL
Sample    : HERBICIDE ICAL #2                          Inst    : HP1
Misc      :                                            Multiplr: 1.00
IntFile   : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3945.D\ECD2B.CH    Vial: 4
Acq On    : 18 Jun 2001  15:04                         Operator: ECL
Sample    : HERBICIDE ICAL #3                          Inst    : HP1
Misc      :                                            Multiplr: 1.00
IntFile   : events2.e
Quant Time: Jun 18 16:52 2001  Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title        : CALIBRATION May 25, 2001
Last Update  : Mon Jun 18 16:40:50 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj.      :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



Data File : C:\HPCHEM\1\DATA\061801\1G3946.D\ECD1A.CH Vial: 5
Acq On : 18 Jun 2001 15:04 Operator: ECL
Sample : HERBICIDE ICAL #1 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3946.D\ECD2B.CH Vial: 5
Acq On : 18 Jun 2001 15:39 Operator: ECL
Sample : HERBICIDE ICAL #2 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:59 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.18	10.66	103231	203862	122.767	123.731	
	Spiked Amount 500.000	Range 20 - 144		Recovery =		24.55%	24.75%	
	Target Compounds							
1)	Dalapon	3.71	3.54	472433	897739	320.712	320.353	
3)	MCPA	10.97	11.44	40085	34333	12.633	9.111	#
4)	Dicamba	10.43	10.91	53168	119006	11.645	11.398	
5)	MCPP	10.75	11.11	19444	20083	7.414	7.300	
6)	Dichloroprop	11.48	11.91	134477	260411	120.324	116.851	
7)	2,4-D	11.79	12.34	133674	408104	113.631	120.096	
8)	Pentachloropheno	12.03	12.80	126925	359743	10.768	11.534	
9)	Silvex	12.87	13.38	76631	193561	10.562	11.342	
10)	2,4,5-T	13.23	13.87	78190	194660	11.254	11.461	
11)	Dinoseb	15.13	14.83	315996	681395	62.760	62.829	
12)	2,4-DB	13.91	14.50	43632	90895	117.055	118.606	

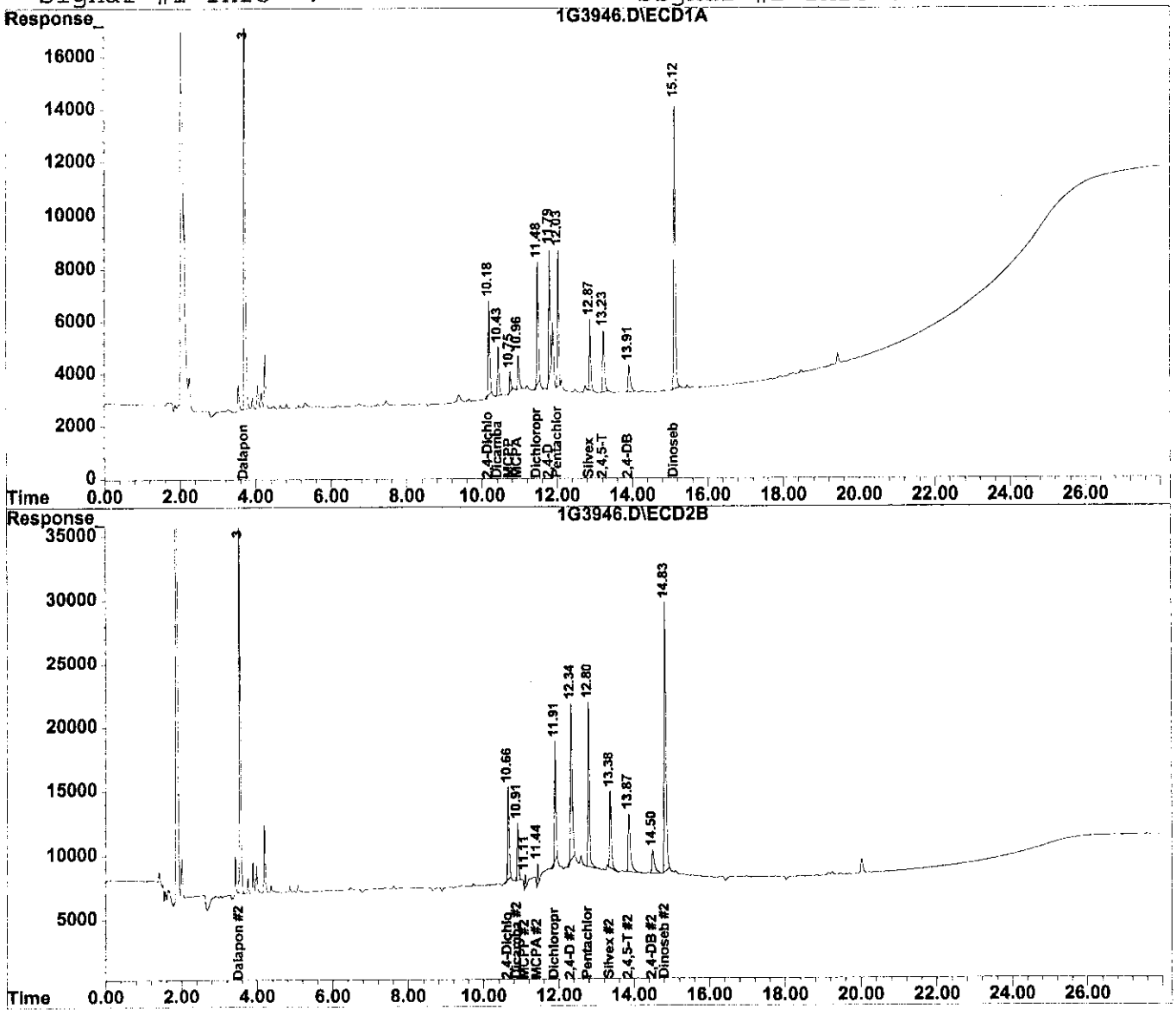
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual-int.

Data File : C:\HPCHEM\1\DATA\061801\1G3946.D\ECD1A.CH Vial: 5
Acq On : 18 Jun 2001 15:04 Operator: ECL
Sample : HERBICIDE ICAL #1 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3946.D\ECD2B.CH Vial: 5
Acq On : 18 Jun 2001 15:39 Operator: ECL
Sample : HERBICIDE ICAL #2 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 16:59 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION May 25, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD1A.CH Vial: 6
Acq On : 18 Jun 2001 15:39 Operator: ECL
Sample : HERBICIDE ALT ICV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD2B.CH Vial: 6
Acq On : 18 Jun 2001 16:14 Operator: ECL
Sample : HERBICIDE ICAL #1 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Dalapon	1250.000	1113.364	10.9	91	0.00
3	MCPA	50.000	51.301	-2.6	107	0.00
4	Dicamba	50.000	43.582	12.8	85	0.00
5	MCPP	50.000	47.227	5.5	92	0.00
6	Dichloroprop	500.000	463.792	7.2	88	0.00
7	2,4-D	500.000	463.866	7.2	87	0.00
8	Pentachlorophenol	50.000	56.917	-13.8	112	0.00
9	Silvex	50.000	43.728	12.5	84	0.00
10	2,4,5-T	50.000	49.115	1.8	94	0.00
11	Dinoseb	250.000	230.033	8.0	92	0.00
12	2,4-DB	500.000	546.259	-9.3	107	-0.02
	Signal #2					
1	Dalapon	1250.000	1140.103	8.8	92	0.00
3	MCPA	50.000	54.349	-8.7	102	0.00
4	Dicamba	50.000	50.133	-0.3	93	0.00
5	MCPP	50.000	53.833	-7.7	93	0.00
6	Dichloroprop	500.000	488.065	2.4	94	0.00
7	2,4-D	500.000	561.084	-12.2	107	0.00
8	Pentachlorophenol	50.000	55.005	-10.0	106	0.00
9	Silvex	50.000	44.072	11.9	86	0.00
10	2,4,5-T	50.000	44.422	11.2	86	-0.01
11	Dinoseb	250.000	231.038	7.6	92	0.00
12	2,4-DB	500.000	644.163	-28.8#	128	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G3947.D 8151.M Mon Jun 18 17:14:17 2001 Page 558

Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD1A.CH Vial: 6
Acq On : 18 Jun 2001 15:39 Operator: ECL
Sample : HERBICIDE ALT ICV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD2B.CH Vial: 6
Acq On : 18 Jun 2001 16:14 Operator: ECL
Sample : HERBICIDE ICAL #1 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 17:13 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 500.000	Range 20 - 144		Recovery =		0.00%#	0.00%#
	Target Compounds						
1)	Dalapon	3.71	3.54	1640070	3194963	1113.364	1140.103
3)	MCPA	10.96	11.44	162776	204808	51.301	54.349
4)	Dicamba	10.43	10.91	198986	523449	43.582	50.133
5)	MCPP	10.75	11.11	123859	148104	47.227	53.833
6)	Dichloroprop	11.48	11.91	518343	1066383	463.792	488.065
7)	2,4-D	11.79	12.34	545687	1906646	463.866	561.084
8)	Pentachloropheno	12.03	12.80	670881	1715584	56.917	55.005
9)	Silvex	12.87	13.37	317258	752122	43.728	44.072
10)	2,4,5-T	13.22	13.86	341237	754511	49.115	44.422
11)	Dinoseb	15.12	14.83	1158216	2505660	230.033	231.038
12)	2,4-DB	13.90	14.48	203617	493659	546.259	644.163

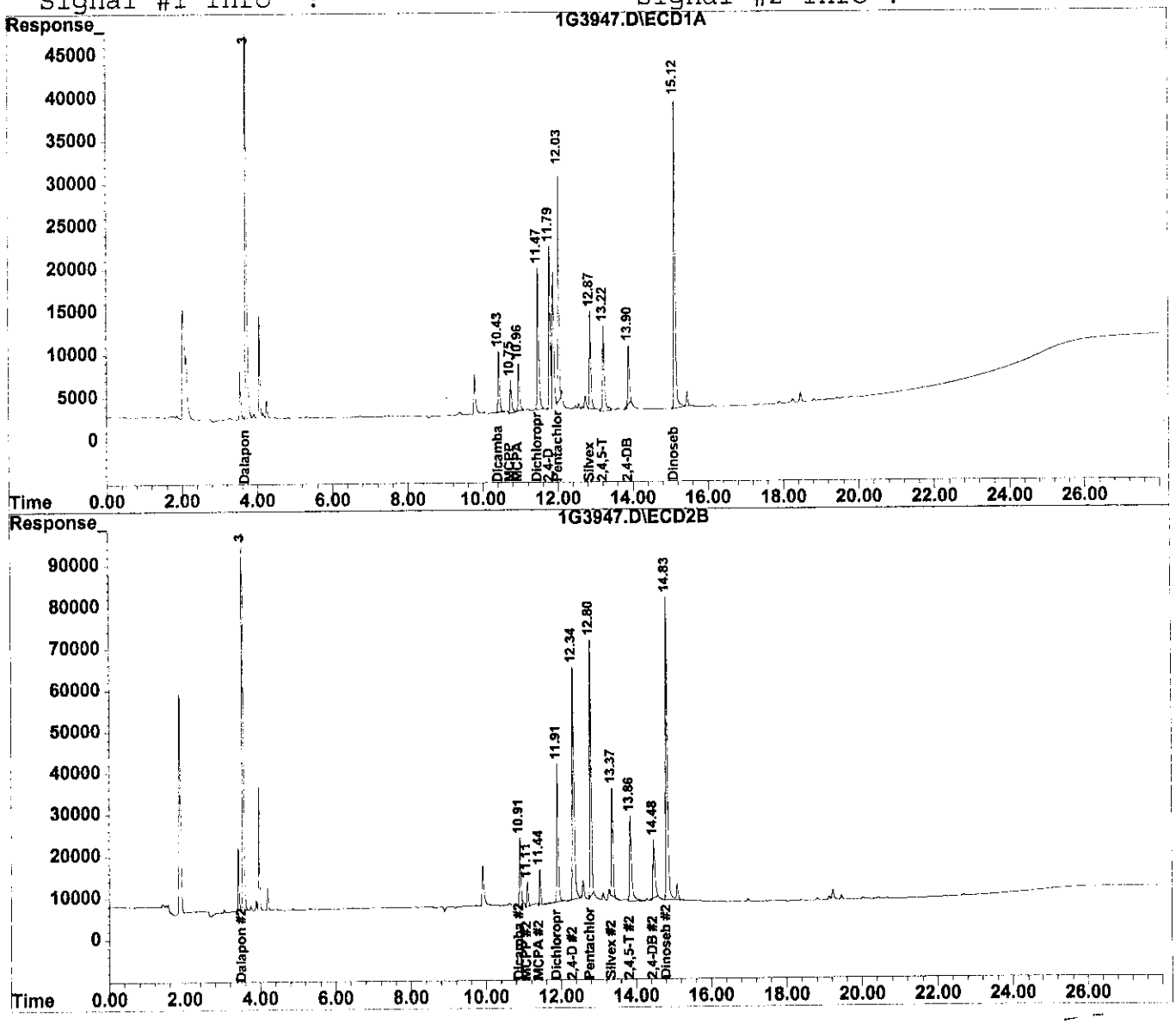
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD1A.CH Vial: 6
Acq On : 18 Jun 2001 15:39 Operator: ECL
Sample : HERBICIDE ALT ICV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3947.D\ECD2B.CH Vial: 6
Acq On : 18 Jun 2001 16:14 Operator: ECL
Sample : HERBICIDE ICAL #1 Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 18 17:13 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD1A.CH Vial: 17
Acq On : 18 Jun 2001 22:01 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD2B.CH Vial: 17
Acq On : 18 Jun 2001 22:36 Operator: ECL
Sample : WG99255-02 TCLP BLANK 6/12 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Dalapon	1250.000	1246.080	0.3	101	0.00
2	S	2,4-Dichlorophenylacetic ac	500.000	529.198	-5.8	102	-0.03
3		MCPA	50.000	50.273	-0.5	105	-0.02
4		Dicamba	50.000	51.625	-3.3	101	-0.02
5		MCPP	50.000	53.231	-6.5	104	-0.02
6		Dichloroprop	500.000	525.374	-5.1	100	-0.03
7		2,4-D	500.000	560.160	-12.0	105	-0.03
8		Pentachlorophenol	50.000	54.560	-9.1	108	-0.02
9		Silvex	50.000	54.602	-9.2	105	-0.03
10		2,4,5-T	50.000	55.203	-10.4	106	-0.03
11		Dinoseb	250.000	277.259	-10.9	111	-0.02
12		2,4-DB	500.000	476.014	4.8	93	-0.04

Signal #2

1		Dalapon	1250.000	1241.864	0.7	101	0.02
2	S	2,4-Dichlorophenylacetic	500.000	519.819	-4.0	101	0.00
3		MCPA	50.000	55.086	-10.2	103	0.00
4		Dicamba	50.000	50.490	-1.0	93	0.00
5		MCPP	50.000	55.899	-11.8	96	0.00
6		Dichloroprop	500.000	529.577	-5.9	102	0.00
7		2,4-D	500.000	532.321	-6.5	102	-0.01
8		Pentachlorophenol	50.000	54.892	-9.8	106	-0.01
9		Silvex	50.000	54.072	-8.1	105	-0.02
10		2,4,5-T	50.000	53.550	-7.1	103	-0.03
11		Dinoseb	250.000	256.865	-2.7	102	-0.02
12		2,4-DB	500.000	546.357	-9.3	108	-0.04

Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD1A.CH Vial: 17
Acq On : 18 Jun 2001 22:01 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD2B.CH Vial: 17
Acq On : 18 Jun 2001 22:36 Operator: ECL
Sample : WG99255-02 TCLP BLANK 6/12 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 19 8:11 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:10:12 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.10f	10.59	444986	856464	529.198	519.819
	Spiked Amount 500.000	Range 20 - 144		Recovery =		105.84%	103.96%
	Target Compounds						
1)	Dalapon	3.66	3.50	1835571	3480133	1246.080	1241.864
3)	MCPA	10.89	11.38	159516	207585	50.273	55.086
4)	Dicamba	10.35	10.84	235706	527180	51.625	50.490
5)	MCPP	10.67	11.04	139606	153787	53.231	55.899
6)	Dichloroprop	11.39f	11.84	587167	1157084	525.374	529.577
7)	2,4-D	11.70f	12.26	658966	1808906	560.160	532.321
8)	Pentachlorophenol	11.95	12.73	643098	1712048	54.560	54.892
9)	Silvex	12.79f	13.30	396153	922797	54.602	54.072
10)	2,4,5-T	13.14f	13.78f	383533	909538	55.203	53.550
11)	Dinoseb	15.04	14.76	1396001	2785756	277.259	256.865
12)	2,4-DB	13.81f	14.40f	177433	418704	476.014	546.357

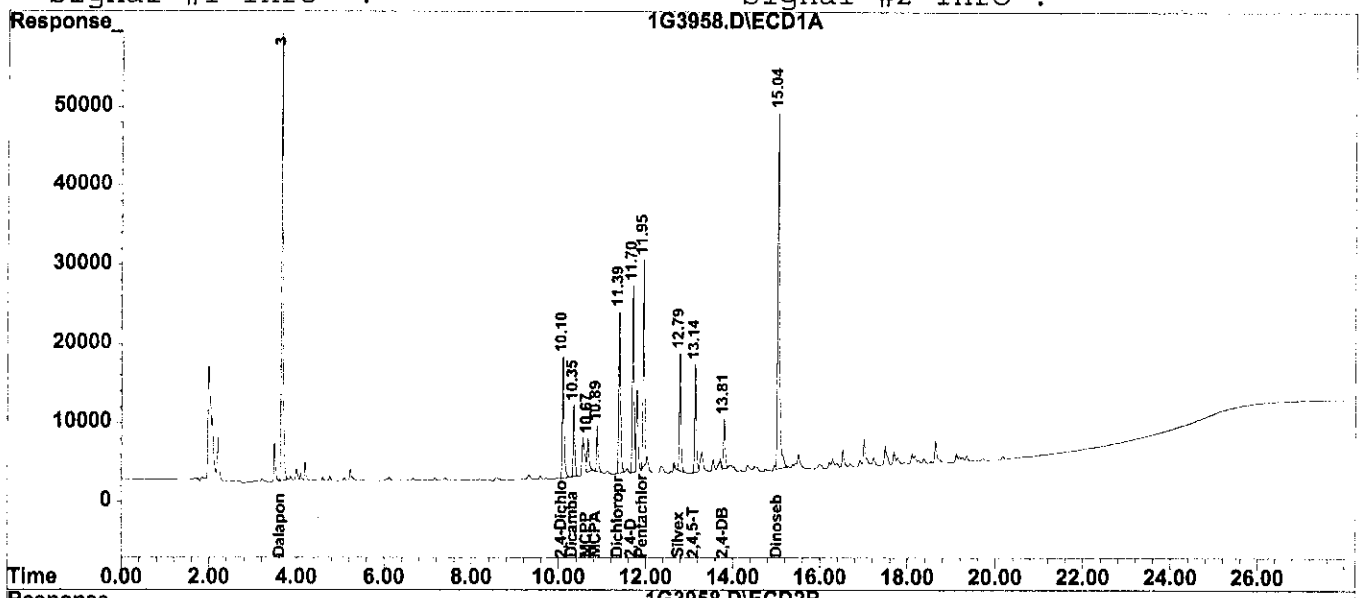
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

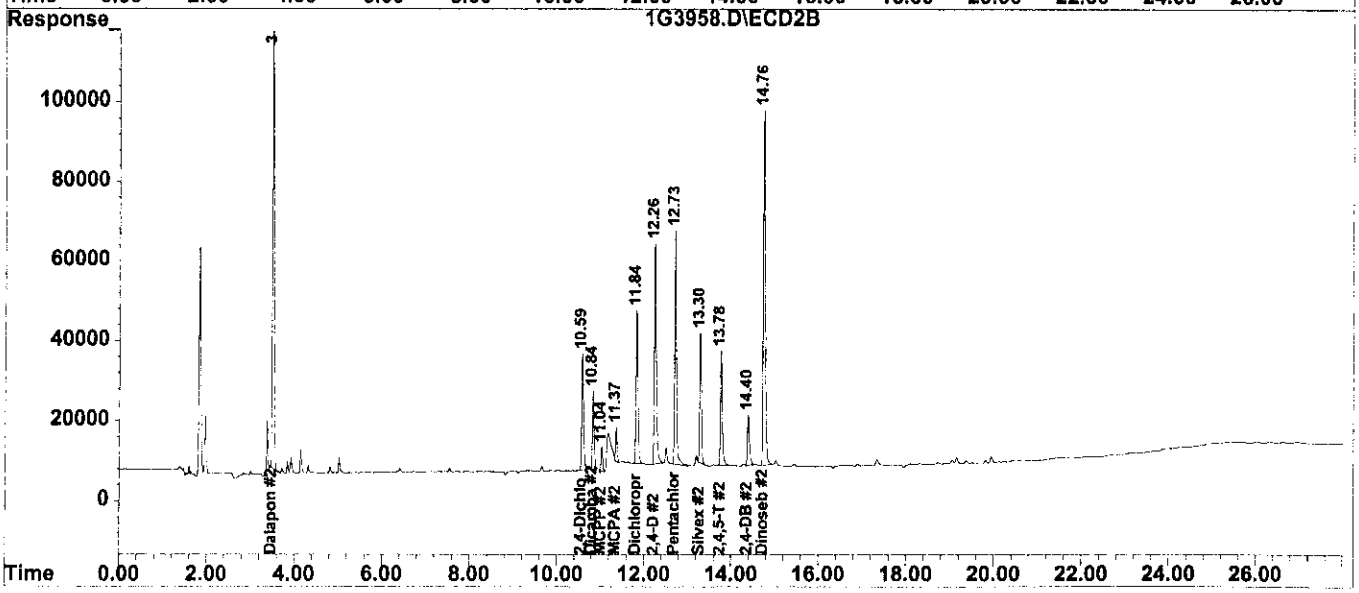
Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD1A.CH Vial: 17
Acq On : 18 Jun 2001 22:01 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3958.D\ECD2B.CH Vial: 17
Acq On : 18 Jun 2001 22:36 Operator: ECL
Sample : WG99255-02 TCLP BLANK 6/12 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 19 8:11 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:10:12 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD1A.CH Vial: 1
Acq On : 20 Jun 2001 14:19 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD2B.CH Vial: 1
Acq On : 20 Jun 2001 14:54 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Dalapon	1250.000	1193.901	4.5	97	0.02
2	S	2,4-Dichlorophenylacetic ac	500.000	515.859	-3.2	99	0.01
3		MCPA	50.000	51.104	-2.2	107	0.01
4		Dicamba	50.000	50.834	-1.7	99	0.01
5		MCPP	50.000	56.258	-12.5	110	0.01
6		Dichloroprop	500.000	510.185	-2.0	97	0.01
7		2,4-D	500.000	529.903	-6.0	100	0.00
8		Pentachlorophenol	50.000	53.833	-7.7	106	0.02
9		Silvex	50.000	52.030	-4.1	100	0.01
10		2,4,5-T	50.000	52.192	-4.4	100	0.00
11		Dinoseb	250.000	261.667	-4.7	105	0.01
12		2,4-DB	500.000	450.886	9.8	88	0.00

Signal #2

1		Dalapon	1250.000	1221.183	2.3	99	-0.02
2	S	2,4-Dichlorophenylacetic	500.000	506.699	-1.3	99	-0.03
3		MCPA	50.000	52.776	-5.6	99	-0.03
4		Dicamba	50.000	54.396	-8.8	100	-0.03
5		MCPP	50.000	57.375	-14.8	99	-0.02
6		Dichloroprop	500.000	512.842	-2.6	99	-0.03
7		2,4-D	500.000	515.485	-3.1	99	0.00
8		Pentachlorophenol	50.000	51.809	-3.6	100	0.00
9		Silvex	50.000	51.324	-2.6	100	0.00
10		2,4,5-T	50.000	51.905	-3.8	100	0.00
11		Dinoseb	250.000	250.391	-0.2	100	0.00
12		2,4-DB	500.000	515.013	-3.0	102	0.00

Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD1A.CH Vial: 1
Acq On : 20 Jun 2001 14:19 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD2B.CH Vial: 1
Acq On : 20 Jun 2001 14:54 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 20 15:38 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Wed Jun 20 15:36:59 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2)	S 2,4-Dichlorophen	10.20	10.64f	433770	834848	515.859	506.699
	Spiked Amount 500.000	Range 20 - 144		Recovery =		103.17%	101.34%
	Target Compounds						
1)	Dalapon	3.72	3.52	1758707	3422178	1193.901	1221.183
3)	MCPA	10.98	11.42f	162151	198882	51.104	52.776
4)	Dicamba	10.45	10.89f	232095	567967	50.834	54.396
5)	MCPP	10.76	11.09	147546	157848	56.258	57.375
6)	Dichloroprop	11.49	11.88f	570192	1120519	510.185	512.842
7)	2,4-D	11.80	12.31	623372	1751695	529.903	515.485
8)	Pentachlorophenol	12.05	12.77	634529	1615895	53.833	51.809
9)	Silvex	12.89	13.34	377492	875886	52.030	51.324
10)	2,4,5-T	13.24	13.83	362615	881612	52.192	51.905
11)	Dinoseb	15.14	14.80	1317492	2715542	261.667	250.391
12)	2,4-DB	13.91	14.45	168067	394683	450.886	515.013

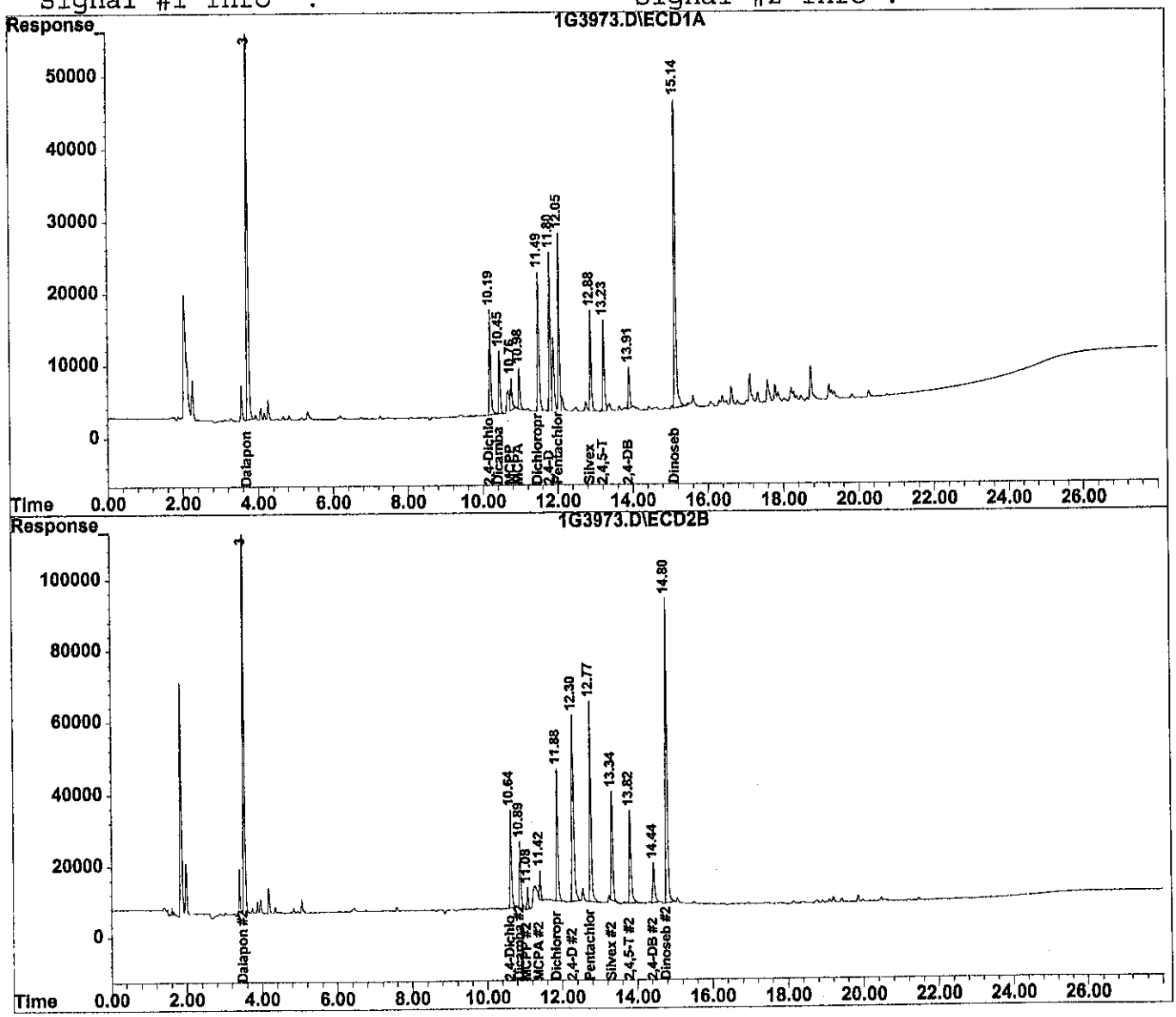
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD1A.CH Vial: 1
Acq On : 20 Jun 2001 14:19 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3973.D\ECD2B.CH Vial: 1
Acq On : 20 Jun 2001 14:54 Operator: ECL
Sample : HERBCIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 20 15:38 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Wed Jun 20 15:36:59 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD1A.CH Vial: 12
Acq On : 20 Jun 2001 21:38 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD2B.CH Vial: 12
Acq On : 20 Jun 2001 22:13 Operator: ECL
Sample : L0106232-08 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		Dalapon	1250.000	1224.865	2.0	100	0.02
2	S	2,4-Dichlorophenylacetic ac	500.000	522.044	-4.4	101	0.00
3		MCPA	50.000	51.264	-2.5	107	0.00
4		Dicamba	50.000	51.528	-3.1	101	0.00
5		MCPP	50.000	57.446	-14.9	112	0.00
6		Dichloroprop	500.000	518.777	-3.8	99	-0.01
7		2,4-D	500.000	558.373	-11.7	105	-0.01
8		Pentachlorophenol	50.000	55.230	-10.5	109	0.00
9		Silvex	50.000	53.833	-7.7	103	-0.01
10		2,4,5-T	50.000	51.803	-3.6	99	-0.02
11		Dinoseb	250.000	268.266	-7.3	107	-0.01
12		2,4-DB	500.000	505.689	-1.1	99	-0.04

Signal #2

1		Dalapon	1250.000	1222.861	2.2	99	0.02
2	S	2,4-Dichlorophenylacetic	500.000	510.355	-2.1	100	-0.01
3		MCPA	50.000	54.552	-9.1	102	-0.01
4		Dicamba	50.000	50.109	-0.2	93	-0.01
5		MCPP	50.000	52.122	-4.2	90	0.00
6		Dichloroprop	500.000	521.689	-4.3	100	-0.01
7		2,4-D	500.000	523.711	-4.7	100	-0.02
8		Pentachlorophenol	50.000	52.700	-5.4	102	-0.01
9		Silvex	50.000	52.349	-4.7	102	-0.02
10		2,4,5-T	50.000	52.322	-4.6	101	-0.03
11		Dinoseb	250.000	252.498	-1.0	101	-0.02
12		2,4-DB	500.000	543.116	-8.6	108	-0.04

Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD1A.CH Vial: 12
Acq On : 20 Jun 2001 21:38 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD2B.CH Vial: 12
Acq On : 20 Jun 2001 22:13 Operator: ECL
Sample : L0106232-08 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:44 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 09:43:16 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
2) S	2,4-Dichlorophen	10.12	10.59	438971	840872	522.044	510.355
	Spiked Amount 500.000	Range 20 - 144		Recovery =		104.41%	102.07%
	Target Compounds						
1)	Dalapon	3.67	3.50	1804320	3426878	1224.865	1222.861
3)	MCPA	10.90	11.37	162660	205576	51.264	54.552
4)	Dicamba	10.37	10.84	235266	523207	51.528	50.109
5)	MCPP	10.69	11.04	150662	143397	57.446	52.122
6)	Dichloroprop	11.41	11.84	579795	1139849	518.777	521.689
7)	2,4-D	11.72	12.26	656864	1779647	558.373	523.711
8)	Pentachloropheno	11.96	12.72	650997	1643696	55.230	52.700
9)	Silvex	12.80	13.30	390575	893388	53.833	52.349
10)	2,4,5-T	13.15	13.78f	359913	888688	51.803	52.322
11)	Dinoseb	15.05	14.76	1350722	2738395	268.266	252.498
12)	2,4-DB	13.82f	14.40f	188495	416221	505.689	543.116

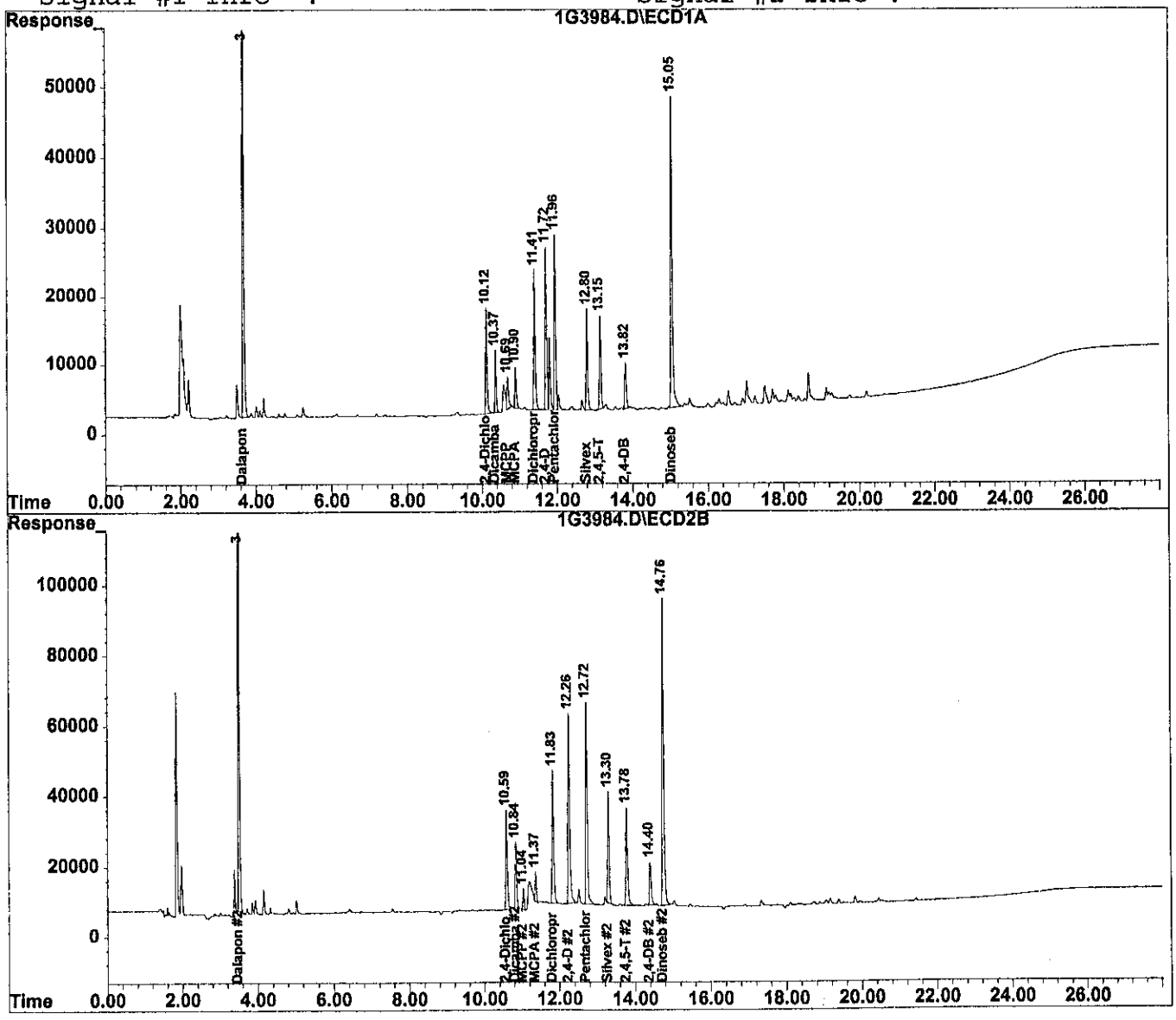
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD1A.CH Vial: 12
Acq On : 20 Jun 2001 21:38 Operator: ECL
Sample : HERBICIDE CCV Inst : HP1
Misc : Multiplr: 1.00
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3984.D\ECD2B.CH Vial: 12
Acq On : 20 Jun 2001 22:13 Operator: ECL
Sample : L0106232-08 Inst : HP1
Misc : 7,1 Multiplr: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:44 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 09:43:16 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



2.2.4.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\061801\1G3954.D\ECD1A.CH Vial: 13
Acq On : 18 Jun 2001 19:43 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3954.D\ECD2B.CH Vial: 13
Acq On : 18 Jun 2001 20:17 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:27 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:25:56 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.14	10.64	62169	123889	73.934	75.193	
	Spiked Amount 500.000	Range 20 - 144		Recovery =		14.79%#	15.04%#	
	Target Compounds							
1)	Dalapon	0.00	0.00	0	0	N.D.	N.D.	
3)	MCPA	0.00	0.00	0	0	N.D.	N.D.	
4)	Dicamba	0.00	0.00	0	0	N.D.	N.D.	
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.	
6)	Dichloroprop	0.00	11.87	0	88071	N.D.	0.403	#
7)	2,4-D	11.82f	0.00	67336	0	0.572	N.D.	#
8)	Pentachloropheno	0.00	0.00	0	0	N.D.	N.D.	
9)	Silvex	0.00	0.00	0	0	N.D.	N.D.	
10)	2,4,5-T	0.00	0.00	0	0	N.D.	N.D.	
11)	Dinoseb	0.00	0.00	0	0	N.D.	N.D.	
12)	2,4-DB	0.00	0.00	0	0	N.D.	N.D.	

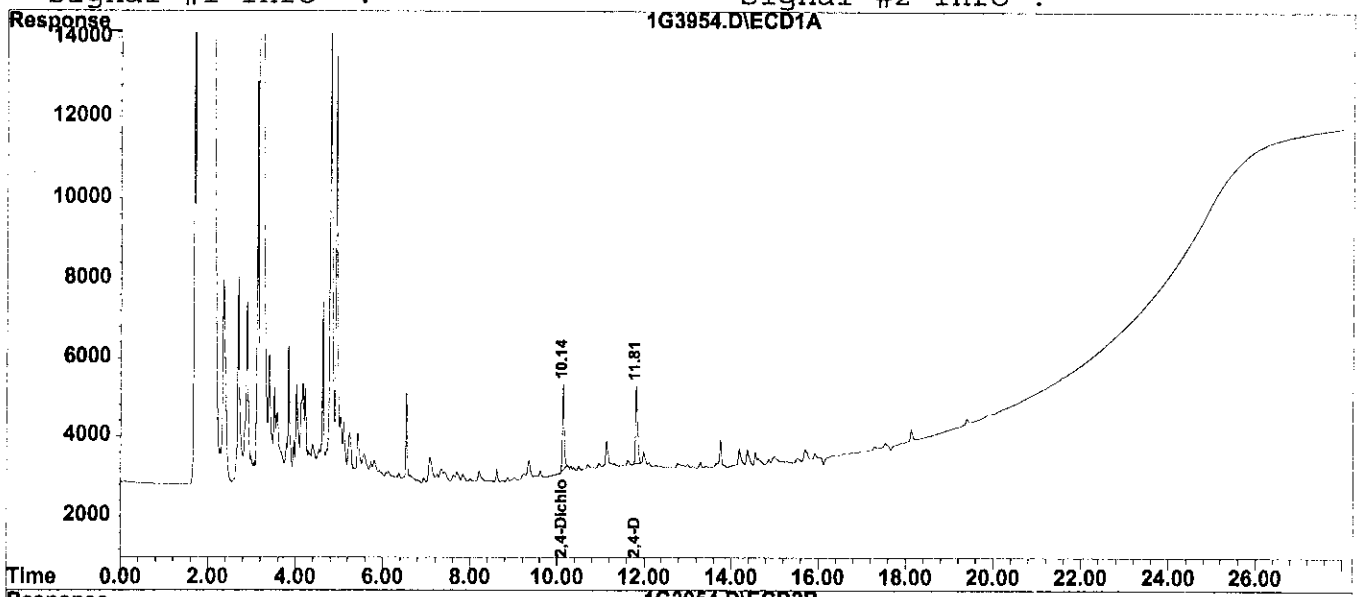
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

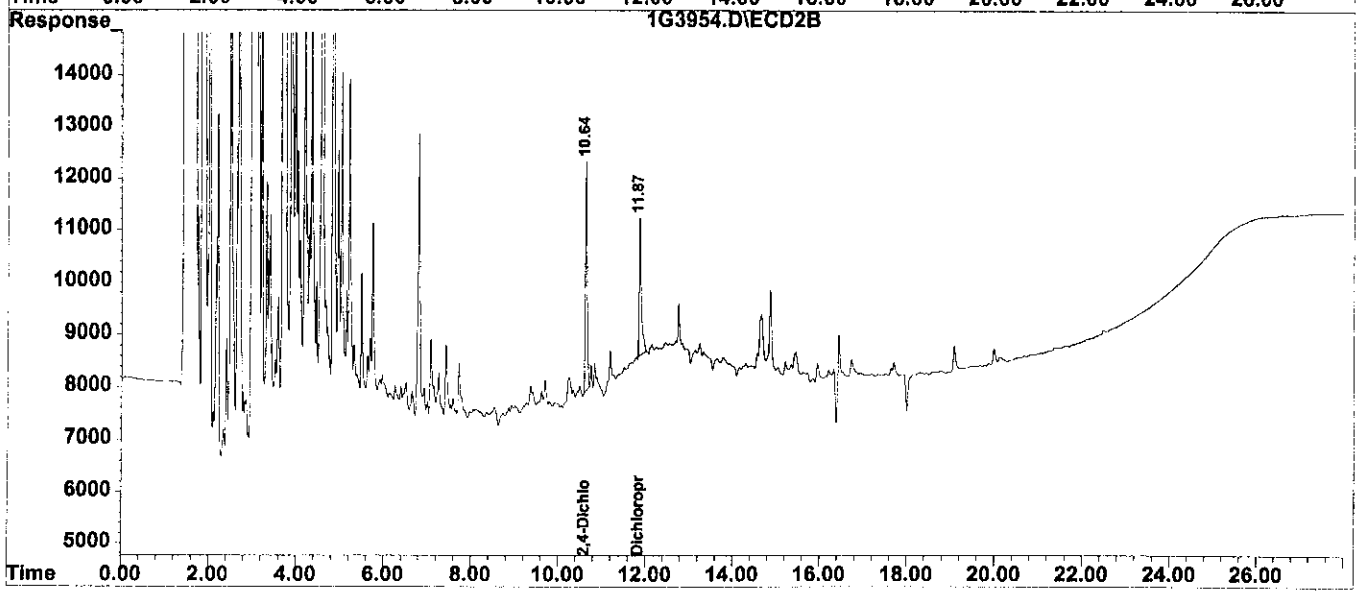
Data File : C:\HPCHEM\1\DATA\061801\1G3954.D\ECD1A.CH Vial: 13
Acq On : 18 Jun 2001 19:43 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3954.D\ECD2B.CH Vial: 13
Acq On : 18 Jun 2001 20:17 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:27 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:25:56 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD1A.CH Vial: 2
Acq On : 20 Jun 2001 15:47 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD2B.CH Vial: 2
Acq On : 20 Jun 2001 16:23 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:50 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:49:23 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.22	10.65	377860	590983	449.369	358.689	
Spiked Amount	500.000	Range	20 - 144	Recovery	=	89.87%	71.74%	
	Target Compounds							
1)	Dalapon	0.00	3.53	0	3838	N.D.	0.014	#
3)	MCPA	0.00	0.00	0	0	N.D.	N.D.	
4)	Dicamba	0.00	10.85f	0	35474	N.D.	0.034	#
5)	MCPP	0.00	0.00	0	0	N.D.	N.D.	
6)	Dichloroprop	0.00	11.88	0	34879	N.D.	0.160	#
7)	2,4-D	0.00	0.00	0	0	N.D.	N.D.	
8)	Pentachloropheno	12.08	12.78	146942	372679	0.125	0.119	
9)	Silvex	0.00	0.00	0	0	N.D.	N.D.	
10)	2,4,5-T	0.00	13.78f	0	15779	N.D.	0.009	#
11)	Dinoseb	15.16	0.00	38836	0	0.077	N.D.	#
12)	2,4-DB	0.00	14.39f	0	31530	N.D.	0.411	#

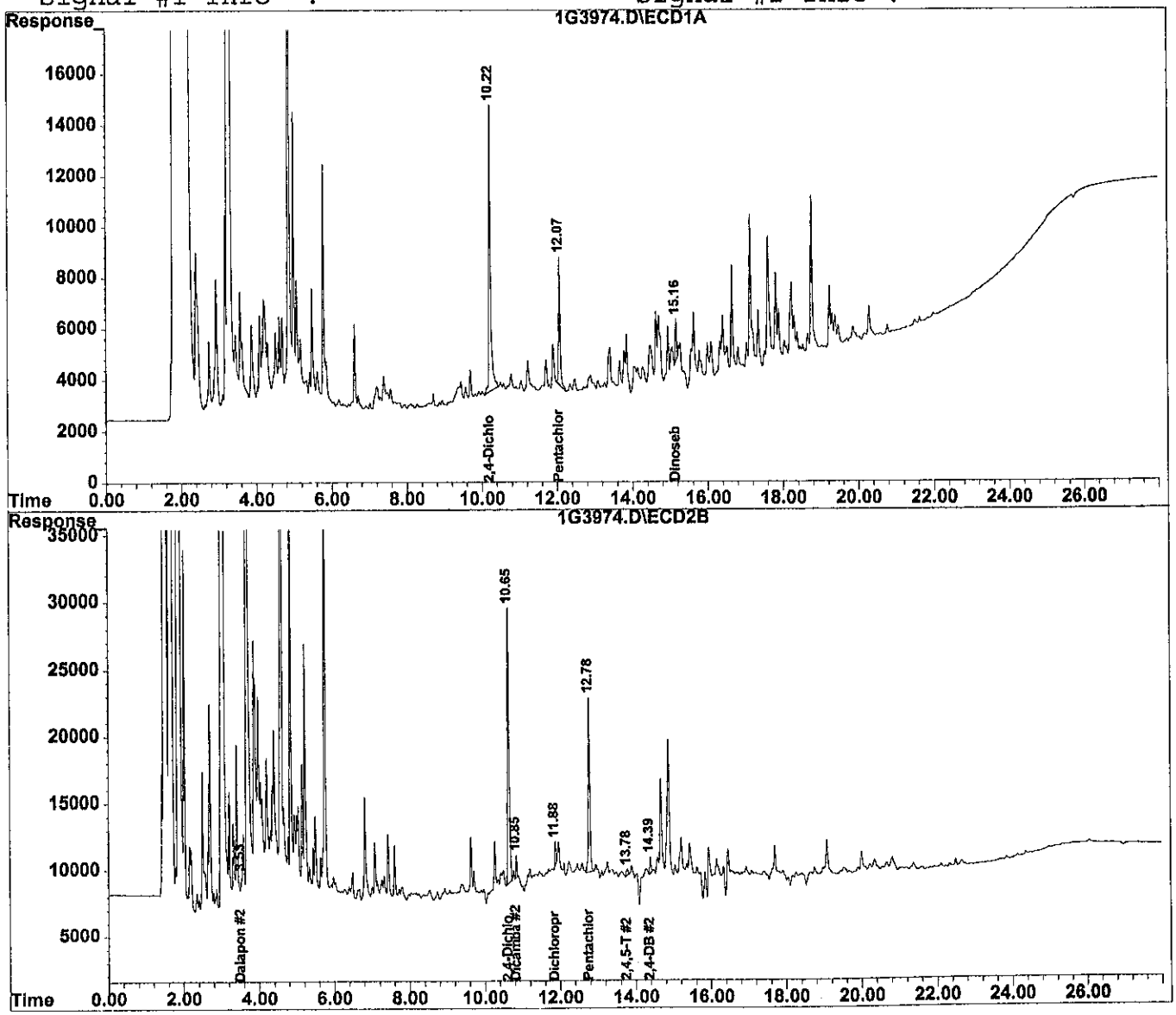
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD1A.CH Vial: 2
Acq On : 20 Jun 2001 15:47 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD2B.CH Vial: 2
Acq On : 20 Jun 2001 16:23 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:50 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:49:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

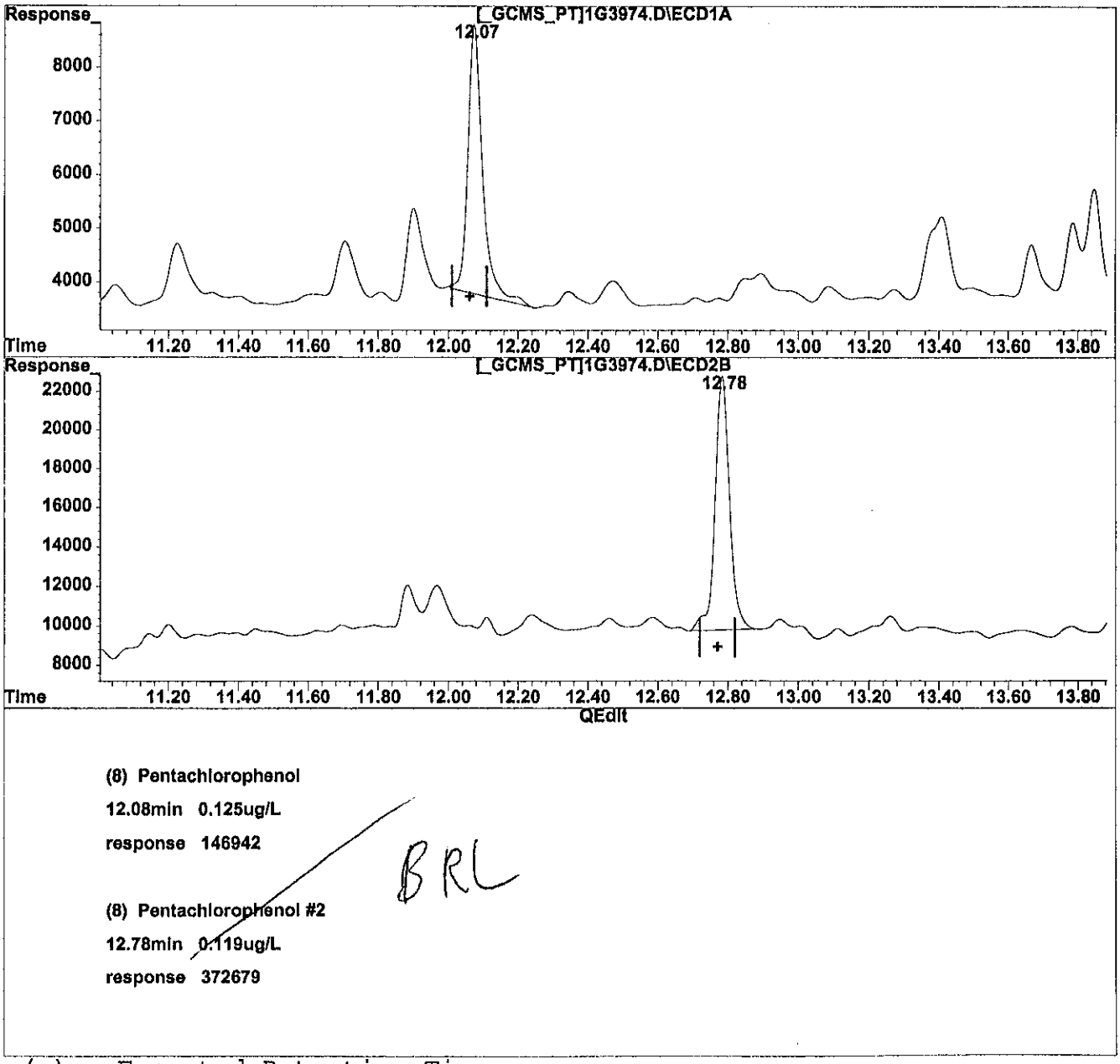
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD1A.CH Vial: 2
Acq On : 20 Jun 2001 15:47 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3974.D\ECD2B.CH Vial: 2
Acq On : 20 Jun 2001 16:23 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:50 2001 Quant Results File: 8151.RES

Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Mon Jun 18 16:55:53 2001
Response via : Multiple Level Calibration



(+) = Expected Retention Time
1G3974.D 8151.M Thu Jun 21 12:17:35 2001

575

Data File : C:\HPCHEM\1\DATA\061801\1G3955.D\ECD1A.CH Vial: 14
Acq On : 18 Jun 2001 20:17 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3955.D\ECD2B.CH Vial: 14
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:29 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:28:08 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.13	10.63	73529	176747	87.444	107.274	
Spiked Amount	500.000	Range	20 - 144	Recovery	=	17.49%#	21.45%	
	Target Compounds							
1)	Dalapon	3.67	3.52f	448273	969493	3.043	3.460	
3)	MCPA	10.92	11.41	30380	12659	0.096	0.034	#
4)	Dicamba	10.39	10.87	52618	103119	0.115	0.099	
5)	MCPP	10.70	0.00	24143	0	0.092	N.D.	#
6)	Dichloroprop	11.43	11.87	91273	294813	0.817	1.349	#
7)	2,4-D	11.74	12.29	92579	194367	0.787	0.572	#
8)	Pentachloropheno	11.98	12.76	34349	87582	0.029	0.028	
9)	Silvex	12.82	13.33	34412	79216	0.047	0.046	
10)	2,4,5-T	13.17	13.81	34822	98227	0.050	0.058	
11)	Dinoseb	15.08	14.79	50620	129689	0.101	0.120	
12)	2,4-DB	13.84	14.44	33654	71593	0.903	0.934	

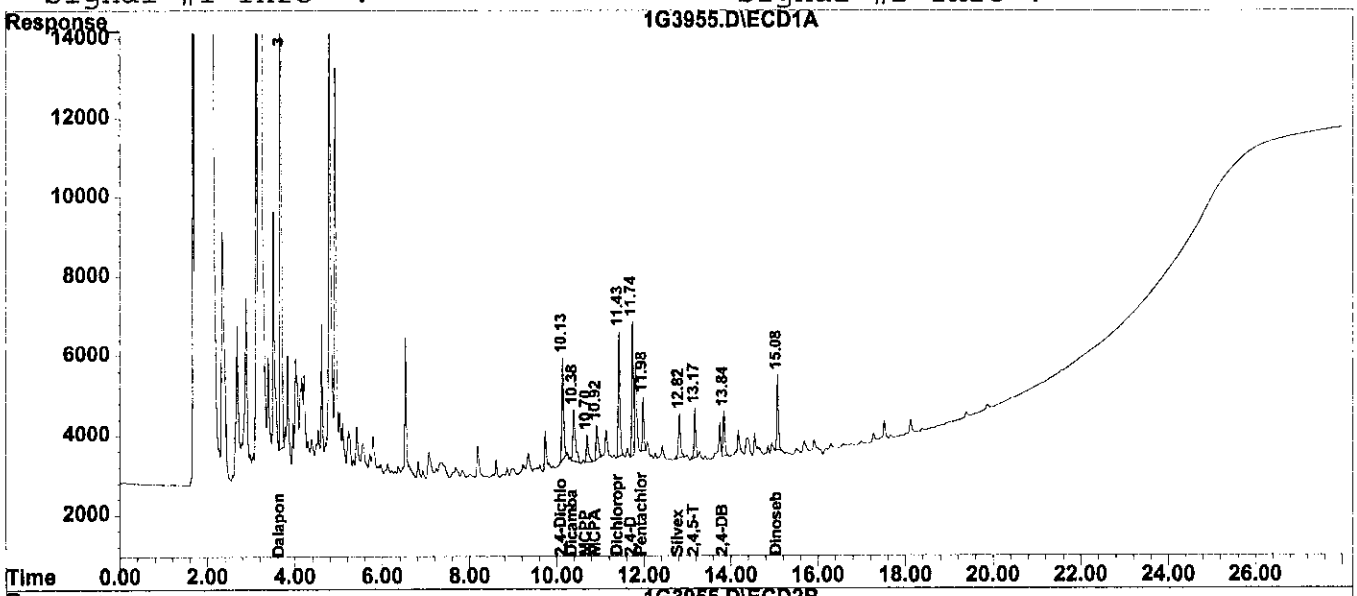
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061801\1G3955.D\ECD1A.CH Vial: 14
Acq On : 18 Jun 2001 20:17 Operator: ECL
Sample : WG99317-02 LCS V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\061801\1G3955.D\ECD2B.CH Vial: 14
Acq On : 18 Jun 2001 20:52 Operator: ECL
Sample : WG99317-01 BLANK V165 P93 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 19 8:29 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Tue Jun 19 08:28:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\062001\1G3975.D\ECD1A.CH Vial: 3
Acq On : 20 Jun 2001 16:23 Operator: ECL
Sample : WG99636-02 LCS V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3975.D\ECD2B.CH Vial: 3
Acq On : 20 Jun 2001 16:58 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:49 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:49:23 2001
Response via : Initial Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
	System Monitoring Compounds							
2) S	2,4-Dichlorophen	10.20	10.63	437499	813310	520.294	493.627	
	Spiked Amount 500.000	Range 20 - 144		Recovery =		104.06%	98.73%	
	Target Compounds							
1)	Dalapon	3.73	3.52	811684	1715390	5.510	6.121	
3)	MCPA	10.99	11.41	157640	183992	0.497	0.488	
4)	Dicamba	10.46	10.88	219154	465484	0.480	0.446	
5)	MCPP	10.77	11.08	130998	126217	0.499	0.459	
6)	Dichloroprop	11.50	11.88	510518	1091293	4.568	4.995	
7)	2,4-D	11.81	12.30	541018	962251	4.599	2.832	#
8)	Pentachlorophenol	12.06	12.77	634328	1549676	0.538	0.497	
9)	Silvex	12.89	13.34	269367	676519	0.371	0.396	
10)	2,4,5-T	13.24	13.82	244824	665722	0.352	0.392	
11)	Dinoseb	15.15	14.80	884107	2079766	1.756	1.918	
12)	2,4-DB	13.91	14.43	220686	512485	5.921	6.687	

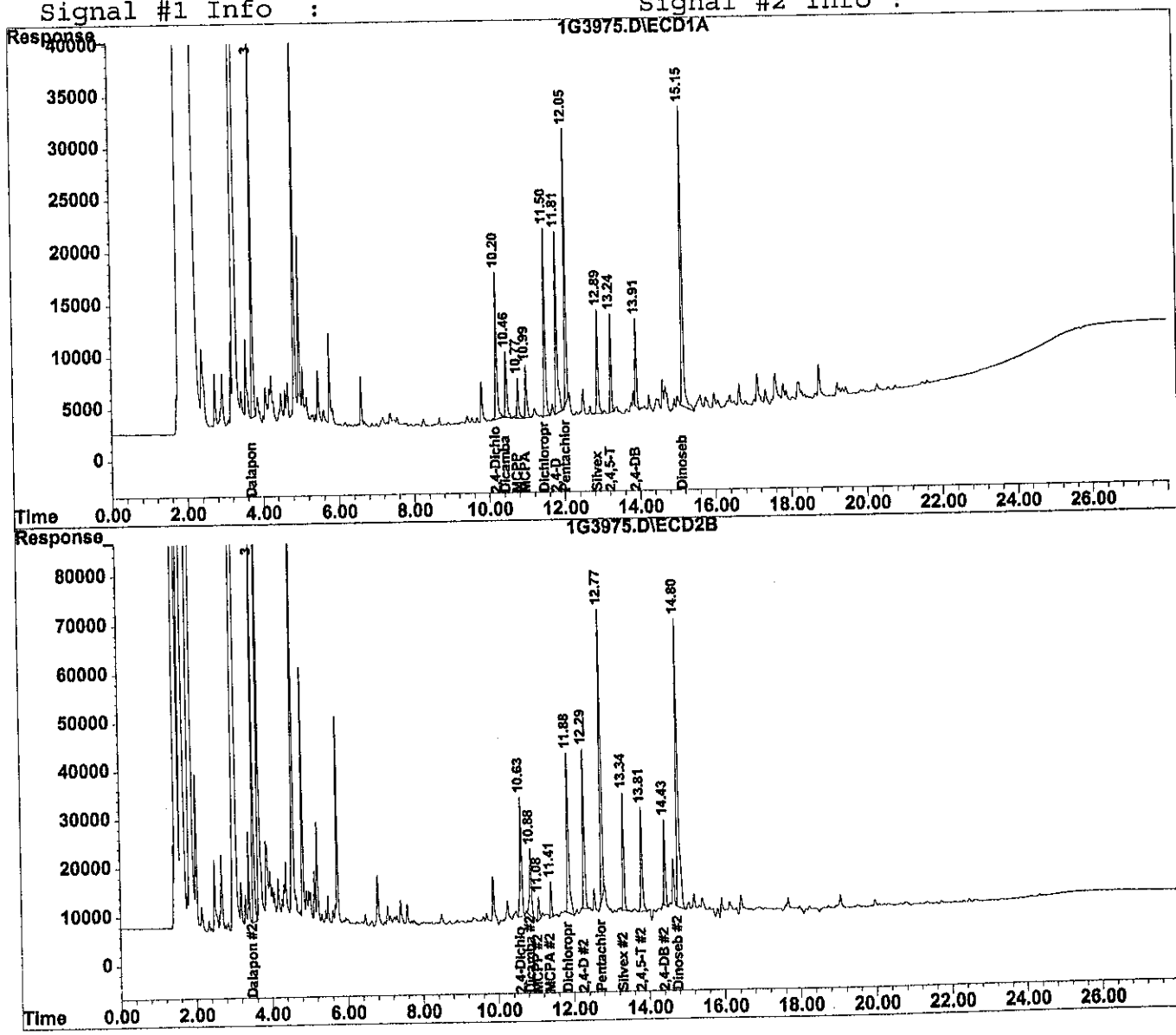
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\062001\1G3975.D\ECD1A.CH Vial: 3
Acq On : 20 Jun 2001 16:23 Operator: ECL
Sample : WG99636-02 LCS V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\062001\1G3975.D\ECD2B.CH Vial: 3
Acq On : 20 Jun 2001 16:58 Operator: ECL
Sample : WG99636-01 BLANK V165 P195 Inst : HP1
Misc : 1,1 Multiplr: 0.01
IntFile : events2.e
Quant Time: Jun 21 11:49 2001 Quant Results File: 8151.RES

Quant Method : C:\HPCHEM\1\METHODS\8151.M (Chemstation Integrator)
Title : CALIBRATION June 18, 2001
Last Update : Thu Jun 21 11:49:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8151.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HPI Column ID RTx-CLP Front Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ✓ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
IG 3942	Herbicide ICAL #5	NA	SV52-13		✓
43	4				
44	3				
45	2				
46	1				✓
47	Alt. ICV		SV52-14		✓
48	Blank V165 P41 WG 99136-01				
49	LCS 02				
50	LCS dup 03				
51	L0105700-01	10			
52	01	1			
53	L0106094-02	NA			
54	Blank V165 P93 WG 99317-01				RE
55	LCS -02				
56	L0106236-01				
57	TCLP Blank 6/12 WG 99255-02				✓
58	Herbicide CCV		SV52-13		✓
59	L0106232-01				RE
60	02				
61	03				
62	04				
63	05				
64	07				
65	08				
66	09				
67	10				
68	11				✓
69	Herbicide CCV		SV52-13		✓
70	L0106232-12 WG 99255-01				RE
71	12MS 03				RE
72	Herbicide CCV		SV52-13		✓
ECL 6/19/01 73	ECL 6/19/01				
74					

Reviewed By: ECL 6/19/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HP I Column ID RTX-CLP Data Subdirectory 061801

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☑ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☑ Change gases Argon Methane

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE- LCS failed all compounds low.

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HPI Column ID RTX-CLP II Rear Data Subdirectory 061801

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ✓ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
IG3942	Herbicide ICAL #5	NA			✓
43	4				
44	3				
45	2				
46	1				✓
47	Alt. ICV				✓
48	Blank V165 P41 VG99136-01				
49	LCS 02				
50	LCS Dup 03				
51	L0105700-01	10			
52	01	1			
53	L0106094-02	NA			
54	Blank V165 P93 VG99317-01				RE
55	LCS -02				
56	L0106236-01				
57	TCLP Blank 6/12 VG99255-02				✓
58	Herbicide CCV				✓
59	L0106232-01				RE
60	02				
61	03				
62	04				
63	05				
64	ECJ 6/19/01 06 07				
65	08				
66	09				
67	10				
68	11				✓
69	Herbicide CCV				✓
70	L0106232-12 VG99255-01				RE
71	12MS 03				RE
72	Herbicide CCV				✓
	ECJ 6/19/01				

Reviewed By: mle 6/19/01

Status:
✓ = Compliant Analysis. Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/18/01 Instrument ID HPI Column ID RTx-CLP II Data Subdirectory 061801

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☑ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☑ Change gases Argon Methane

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

RE - LCS failed all compounds low.

Reviewed By: mb 6/18/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 10/20/01 Instrument ID HPT Column ID RTX-CLP Data Subdirectory OL6200A

Analyst Initials FOL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ✓ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
lg3973	HERBICIDE CCV	NA	SV52-13		✓
74	WG99636-01 BLANK VIL65 P195				
75	" -02 LCS VIL65P195				
76	L01062360-01 - RE				
77	L01062320-01				
78	" -02				
79	" -03				
80	" -04				
81	" -05				
82	" -07				
83	" -08				
84	HERBICIDE CCV		SV52-13		✓
85	L01062320 -09 (10-24-01 CAB 2)				
86	L01062320-10				
87	" -11				
88	WG99255-01 L01062320-12				
89	" -03 " -12 MS				
90	WG99663-02 BLANK VIL65P185				
91	" -03 LCS VIL65P185				
92	" -01 L01063950-01				
93	" -04 " -01 MS				
94	" -05 " -01 MSD				✓
95	HERBICIDE CCV		SV52-13		✓
96	L01063950-04				✓
97	HERBICIDE CCV		SV52-13		✓
	CAB 10-24-01				

Reviewed By: KC2 6/21/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required.

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/20/01 Instrument ID HP-T Column ID RTX-CLP Data Subdirectory 062001

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 6/21/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/20/01 **Instrument ID** HP I **Column ID** RTX-CLPII Rear **Data Subdirectory** 062001

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ✓ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
lg3973	HERBICIDE CCV	NA	SV52-13		✓
74	WG99636-01 BLANK V1L5P195				
75	" -02 LCS V1L5P195				
76	L01U6230-01				
77	L01U6232-01				
78	-02				
79	-03				
80	-04				
81	-05				
82	-07				
83	" -08				✓
84	HERBICIDE CCV		SV52-13		✓
85	L01U6232-09				
86	-10				
87	" -11				
88	WG99255-01 L01U6232-12				
89	" -03 " -12 MS				
90	WG99U63-02 BLANK V1L5P185				
91	-03 LCS V1L5P185				
92	-01 L01U6395-01				
93	-04 " -01 MS				
94	" -05 " -01 MSD				✓
95	HERBICIDE CCV		SV52-13		✓
96	L01U6395-04				✓
97	HERBICIDE CCV	"	SV52-13		✓

EAB 6-21-01

Reviewed By: EC2 6/21/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 12/20/01 Instrument ID HP I Column ID RTX-CLP II Data Subdirectory 062001

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 6/21/01

Parameter: Herb-H_2O SOP #: EXH01 Revision #: 11
Extraction Analyst(s): DCV TV/KD Analyst(s): DCV JAW
Date/Time Extracted: 6/13/01 15:00 Date TV/KD: 6/13/01
Spike/Surrogate Analyst: JAW Witness: SAM
Surrogate #: ES50637-23 Earliest Hold Date: 6/13/01
Spike #: A = ES50037-24 Spike #: B = —

Extraction Work Group WG 99317
Analytical Work Group WG 99391

Extract Relinquished By: DCV
Extract Received By & Date: CLL 6/14/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓		✓	1L	1ml		10ml	T				WG 99317-01
2	LCS		✓		✓	1		1ml		1				WG -02
3	06-236-01	8151	✓		✓	960ml				C				
4	TBLK 6/12	8151-TC	✓		✓	100ml				T				WG 99255-02
5	06-232-01		✓		✓									
6	-02		✓		✓									
7	-03		✓		✓									
8	-04		✓		✓									
9	-05		✓		✓									
10	-07		✓		✓									
11	-08		✓		✓									
12	-09		✓		✓									
13	-10		✓		✓									
14	-11		✓		✓									
15	-12		✓		✓									WG 99255-01
16	-12 spk		✓		✓			1ml						WG -03
17														
18														
19														
20														
21														
22														
23														
24														

6/18
6/21

6/13/01 JAW

Methylene Chloride Lot #: 41016
Hexane Lot #: 40336
Ether Lot #: 40306
Methanol Lot #: 40335
Solvent: — Lot #: —
Reagent: 6N NaOH Lot #: ER1762
Reagent: 12N H_2SO_4 Lot #: ER1763
Reagent: Isooctane Lot #: N39636
Acid: Silicic Lot #: 2847 N24 H04
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
~~Dried~~ Na_2SO_4 Lot #: ER1742
Acidified

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	✓
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 06/14/01

Extraction Notes For Volume # 165 Page # 93

General Comments: NaCl
Diazomethane ER1758

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

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Parameter: HERB H_2O SOP #: EXH01 Revision #: 11
Extraction Analyst(s): REK,CEB,DP TV/KD Analyst(s): DP
Date/Time Extracted: 06/19/01 @ 1415 Date TV/KD: 06/19/01
Spike/Surrogate Analyst: REK Witness: JW
Surrogate #: ES50037-24 Earliest Hold Date: 6/19
Spike #: A = ES50037-23 Spike #: B = N/A

Extraction Work Group WG 99636
Analytical Work Group WG 99805

Extract Relinquished By: DP
Extract Received By & Date: EC2 6/20/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank				✓	1L	1mL		10mL	T				WG 99636-01
2	LCS		✓		✓	↓	↓	1mL	↓	T				WG 99636-02
3	06-236-01	8151	✓		✓	950mL				C				REEXT OUT OF HOLD
4	06-232-01	8151-TC	✓		✓	100mL				T				REEXT IN HOLD
5	-02	↓	✓		✓	↓	↓	↓	↓	T	↓	↓	↓	↓
6	-03		✓		✓					T				
7	-04		✓		✓					T				
8	-05		✓		✓					T				
9	-07		✓		✓					T				
10	-08		✓		✓					T				
11	-09		✓		✓					T				
12	-10		✓		✓					T				
13	-11		✓		✓					T				
14	-12		✓		✓					T				WG 99255-01
15	-12SMS	↓	✓		✓	↓	↓	1mL	↓	T				WG 99255-03
16														
17														
18														
19														
20														
21														
22														
23														
24														

CEB 6/19/01

Methylene Chloride Lot #: 41016
Hexane Lot #: 40336
Ether Lot #: 40306
Methanol Lot #: 40335
Solvent: — Lot #: —
Reagent: 6N NaOH Lot #: ER1762
Reagent: 12N H_2SO_4 Lot #: ER1763
Reagent: Dichloromethane Lot #: ER1758
Acid: Silicic Lot #: 2847 N24H07
Florisil Lot #: N/A
Silica Gel Lot #: N/A
IR Analyst / Date / Time: N/A
Dried Na_2SO_4 Lot #: ER1760
Acidified →

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	✓
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: _____ Date: 6/20/01

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Extraction Notes For Volume # 165 Page # 195

General Comments: Iso-octane → N39636 NaCl → T405778

Extraction Anomalies: NONE

Concentration Anomalies: None

Clean-Up Anomalies: None.

Supervisor Review: _____ Date: _____

Example 8151 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
As = Area of the compound being measured in the standard		10000
Cs = Concentration of the compound being measured (ng/ml).		100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
Ax = Area of the compound being measured		10000
Vf = Final volume of sample extract (mL). (prep log)		1
D = Dilution factor for sample as a multiplier (10X = 10).		1
RF = Response factor from ICAL calculated above.		**100**
Vi = Initial volume of sample (mL). (prep log)		1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
Ax = Area of the compound being measured		10000
Vf = Final volume of sample extract (mL).		1
D = Dilution factor for sample as a multiplier (10X = 10).		1
RF = Response factor from ICAL calculated above.		100
Wi = Initial weight of sample (g).		30
	C (ug/kg)	**3.333333**

2.2.5 DRO GC Data (8015)

REPORT NARRATIVE
GC PRO RANGE ORGANICS

KEMRON Report No.: L0106236

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: The water MS/MSD results associated with sample, yielded %recoveries that were above the upper control limit. But the LCS results were acceptable. All acceptance criteria were met

SAMPLES

Samples: Sample and MS/MSD were analyzed at dilutions to ensure the results were with in the linear range of an instrument. All acceptance criteria were met.
Surrogates: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED: Stephanie C Lepe DATE: 6/22/01

Rev. 7/14/00

Date: 6-13-01
Analyst: HV
Method: 8011 - 4LA-PRO 00236-01 (need Level-4)
Instrument: HP5
Work Group: WG99298

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	NA
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	
Blanks	✓
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	✓
Recoveries %	
Surrogates	
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	✓
Reruns	✓
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked HV 6/14/01

Secondary Reviewer Initials & Date Checked [signature] 6/18/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 6/18/01

Comments: Sample -01 and corresponding MS, MSD were analyzed at dilutions and the surrogate was flagged as "D". MS & MSD yielded % recovery which were above the advisory limits — but the LCS was ok.

✓ - Checked & OK
NA - Not Applicable

DRO-GC DATA (8015)

Login Number: L0106236-01

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

NA Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: HM Date: 6/20/01

2.2.5.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES , OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG99298 | EXT DATE : 6/12/01 | RUN DATE : 6/13/01
METHOD : 8015-PRO | EXT BENCH SHEET : V165-P75 | SMPL ID : L0106236-01
MATRIX : WATER | BLK FILENAME : 2G12994 | SMPL FLNM : 2G12997
CONCENTRATION UNITS : ug / l | LCS FILENAME : 2G12996 | MS FLNM : 2G12998
PREP WORK GRP : WG99232 | INSTRUMENT : HP 2 | MSD FLNM : 2G12999

ANALYTE	CONCENTRATION , ug / L									PERCENT RECOVERY , %										PERCENT		
	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPL	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS ULC	SAMPL	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
PRO (C8 - C40)	500	ND	3400	2563	NA	551671	7140	333351	494664	NA	75.4	NA	55	118	551671	4669	6926	41	101	NA	39	20
SURROGATE																						
o-TERPHENYL		22.9	20	15.7	NA	DL	20	DL	DL	115	78.6	NA	49	174	NA	NA	NA	49	174	NA	NA	20

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

2.2.5.2 Sample Data

Data File : C:\HPCHEM\1\DATA\061301A\2G12995.D Vial: 11
Acq On : 13 Jun 2001 16:17 Operator: HV
Sample : L0106236-01 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:36 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

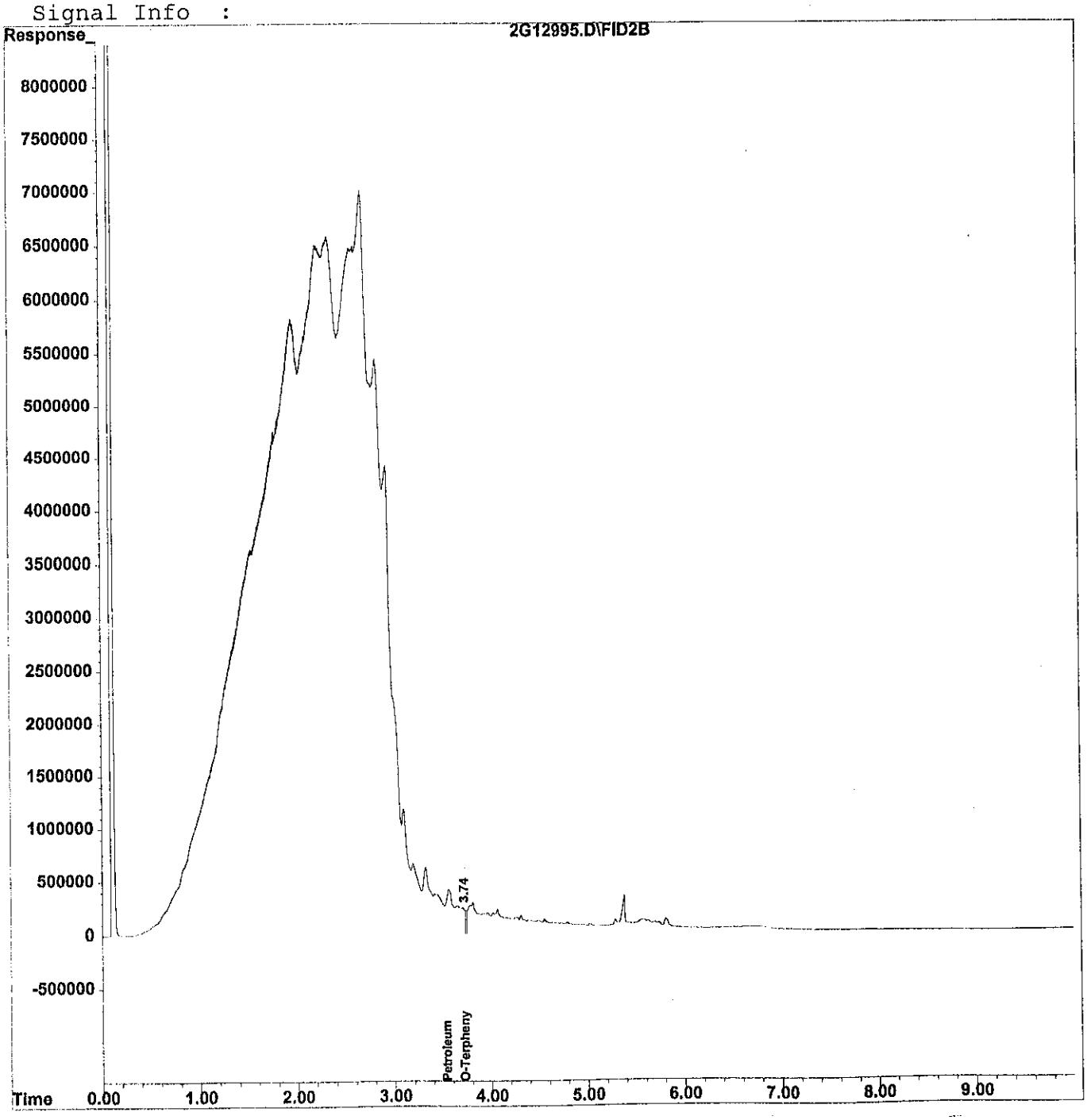
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.74	2036017	100.473 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 502.37%#	
Target Compounds			
1) H Petroleum Range	3.54	6054085784	440653.609 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12995.D Vial: 11
Acq On : 13 Jun 2001 16:17 Operator: HV
Sample : L0106236-01 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:36 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12997.D Vial: 13
Acq On : 13 Jun 2001 16:45 Operator: HV
Sample : L0106236-01 100X FLA PRO water Inst : hp2
Misc : water Multiplr: 100.00
IntFile : PETRO.E
Quant Time: Jun 14 9:57 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

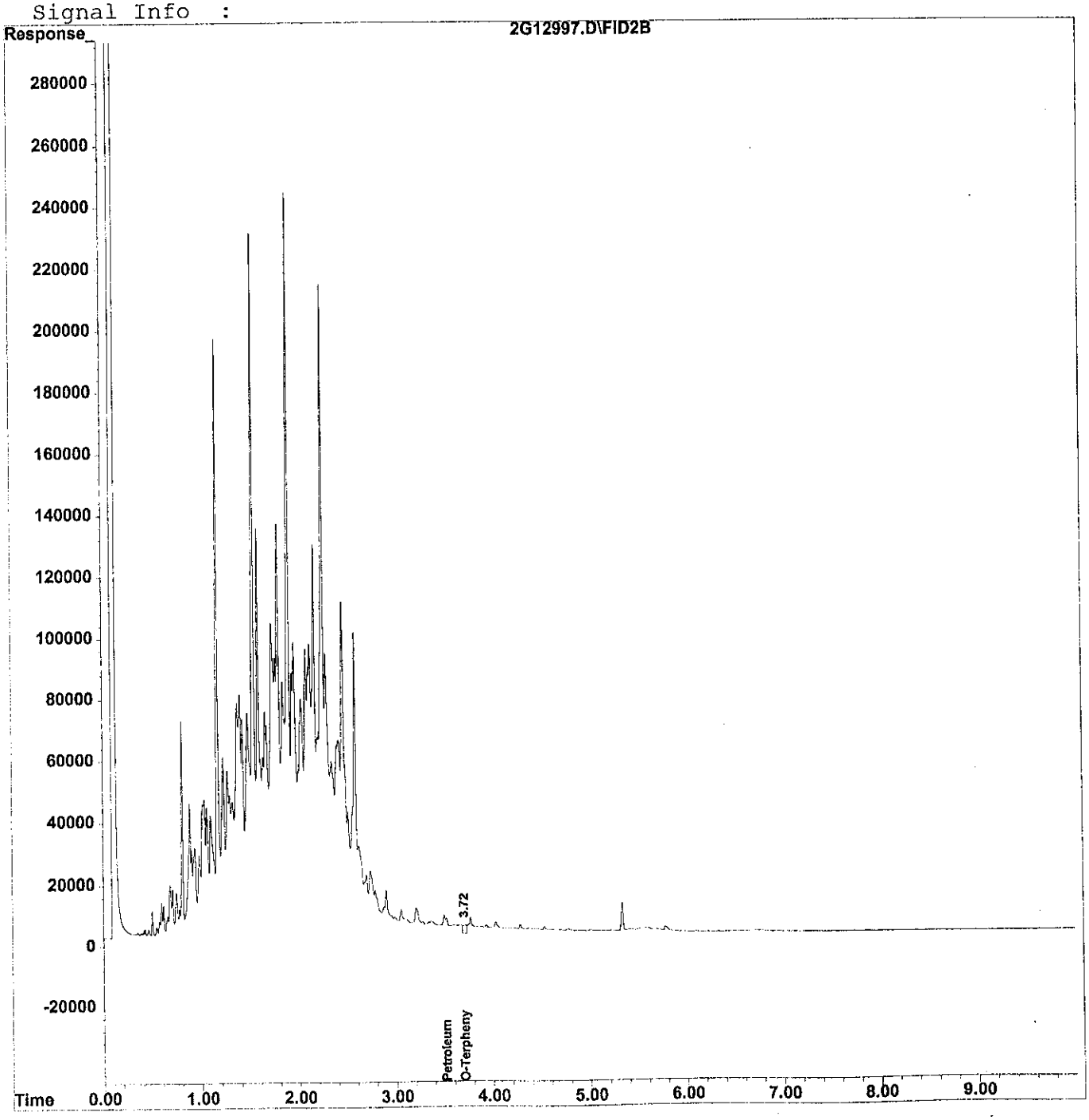
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.72	74792	3.691 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	18.46%#
Target Compounds			
1) H Petroleum Range	3.54	75793503	551671.741 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12997.D Vial: 13
Acq On : 13 Jun 2001 16:45 Operator: HV
Sample : L0106236-01 100X FLA PRO water Inst : hp2
Misc : water Multiplr: 100.00
IntFile : PETRO.E
Quant Time: Jun 14 9:57 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.3 Standards Data

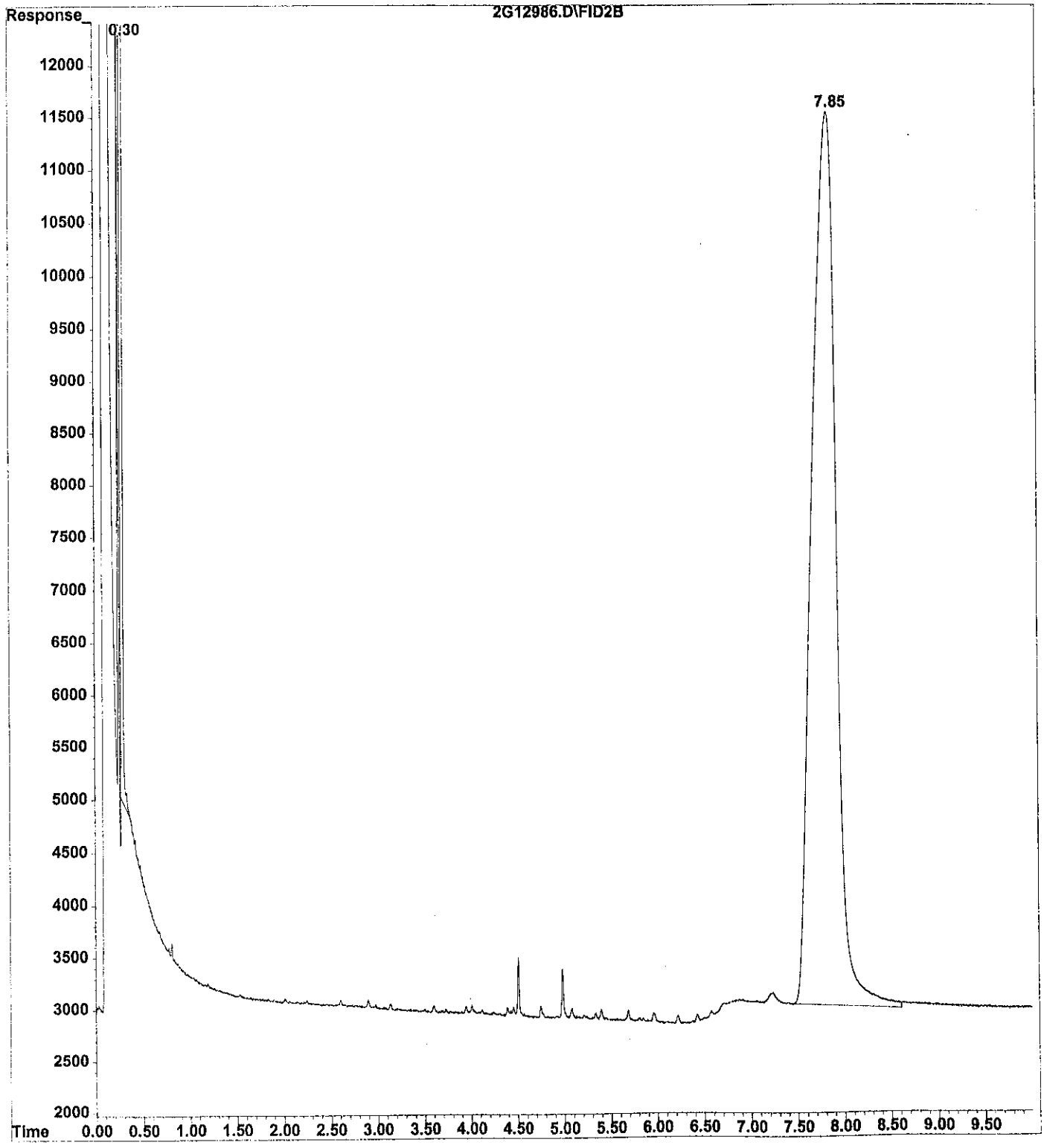
Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001

Calibration Files
5 =2G12992.D 50 =2G12991.D 100 =2G12990.D
200 =2G12989.D 400 =2G12988.D 600 =2G12987.D

	Compound	5	50	100	200	400	600	Avg	%RSD
1) H	Petroleum Range	1.523	1.439	1.352	1.378	1.317	1.234	1.374 E4	7.26
2) S	O-Terphenyl	2.284	2.178	2.066	2.072	1.855	1.704	2.026 E4	10.49

(#) = Out of Range

File : C:\HPCHEM\1\DATA\061301A\2G12986.D
Operator : HV
Acquired : 13 Jun 2001 13:23 using AcqMethod FLASHPRO.M
Instrument : hp2
Sample Name: WIN DEF STD
Misc Info : NS 13-12
Vial Number: 2



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Data File : C:\HPCHEM\1\DATA\061301A\2G12987.D Vial: 3
Acq On : 13 Jun 2001 13:37 Operator: HV
Sample : PRO STD 600ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

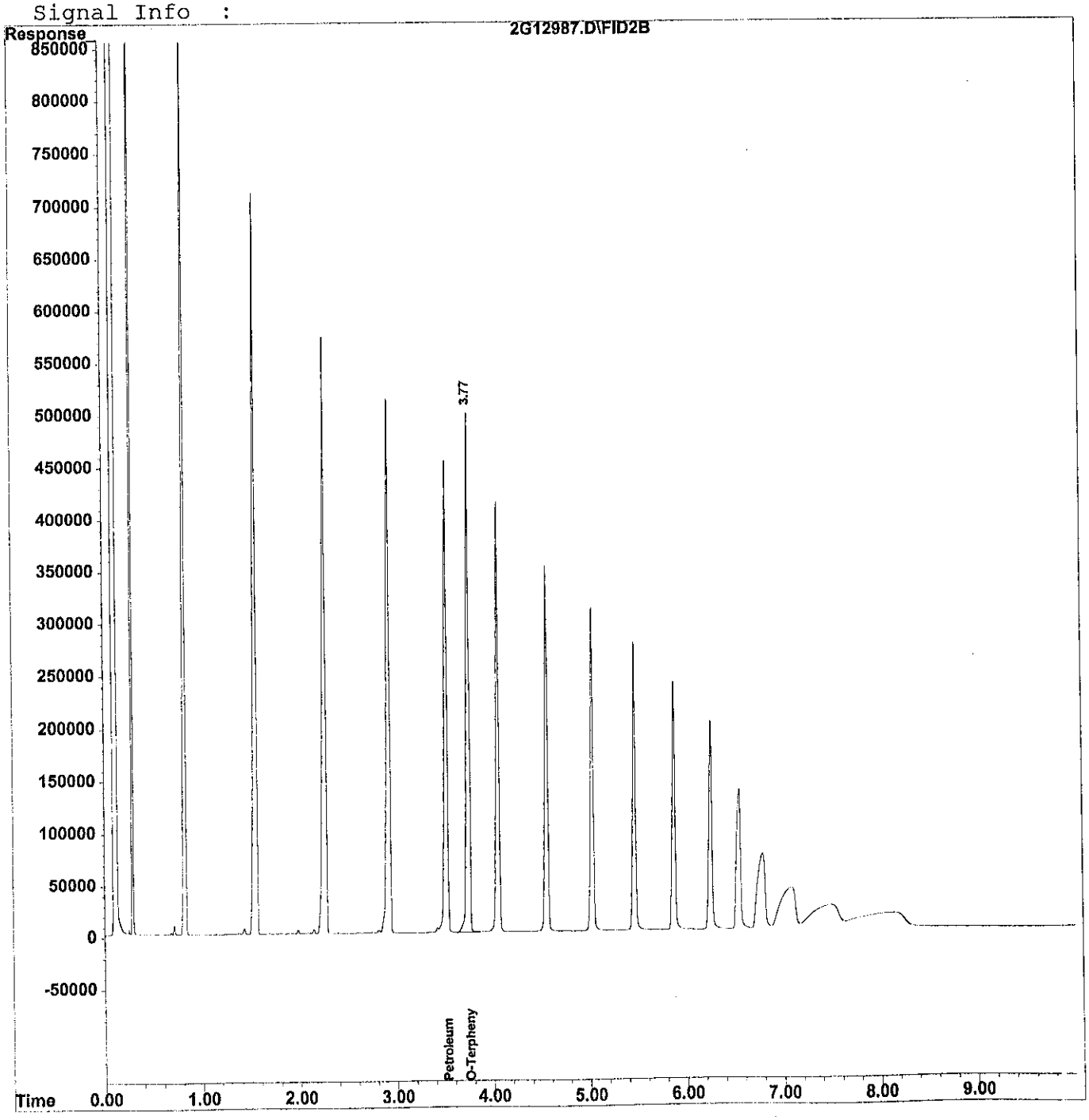
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	10226043	504.635 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 2523.18%#
Target Compounds			
1) H Petroleum Range	3.54	125850825	9160.197 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12987.D Vial: 3
Acq On : 13 Jun 2001 13:37 Operator: HV
Sample : PRO STD 600ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12988.D Vial: 4
Acq On : 13 Jun 2001 13:51 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

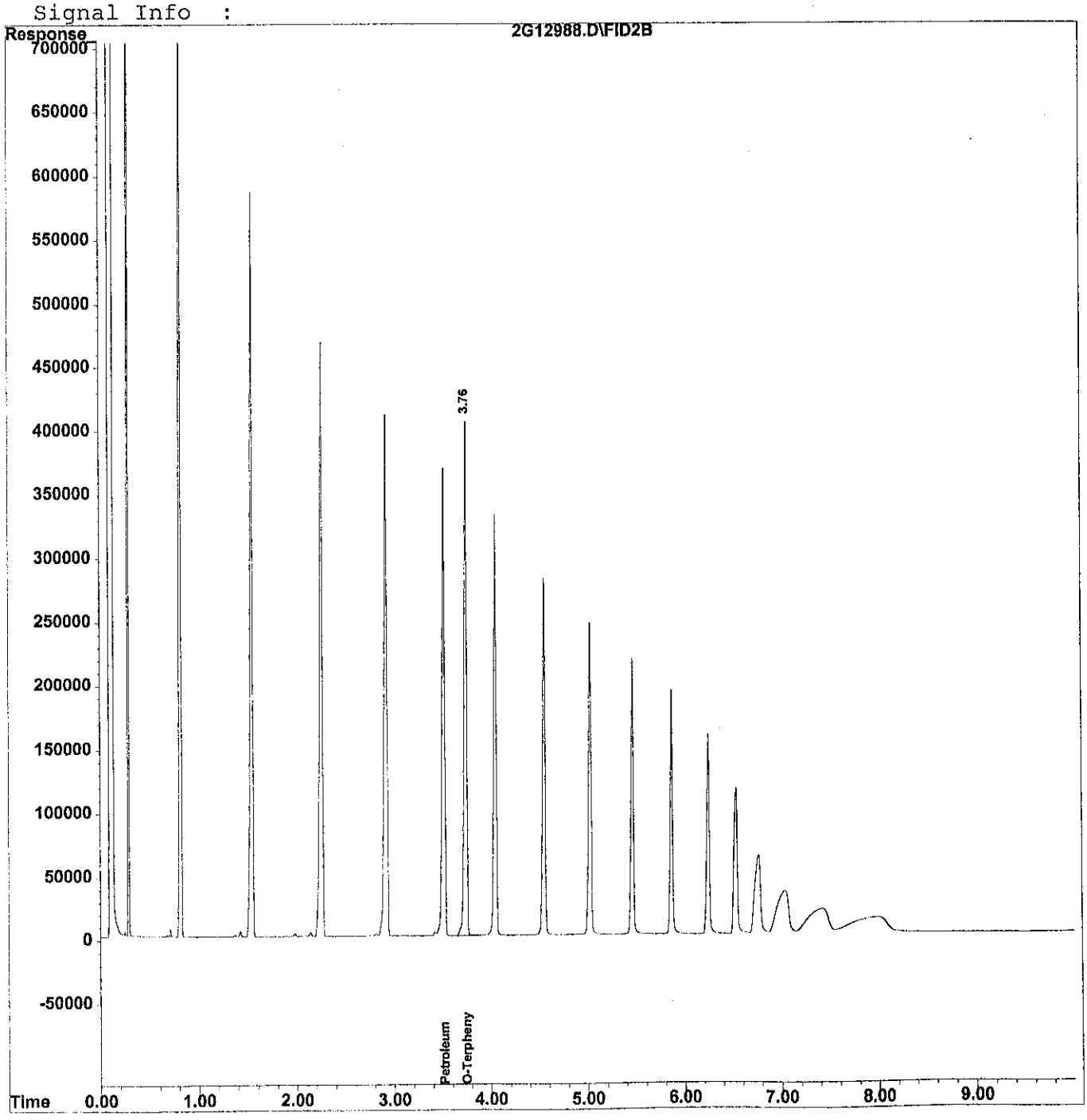
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.76	7419841	366.154 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1830.77%#
Target Compounds			
1) H Petroleum Range	3.54	89545468	6517.670 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12988.D FLASHPRO.M Wed Jun 13 16:02:16 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061301A\2G12988.D Vial: 4
Acq On : 13 Jun 2001 13:51 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12989.D Vial: 5
Acq On : 13 Jun 2001 14:06 Operator: HV
Sample : PRO STD 200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

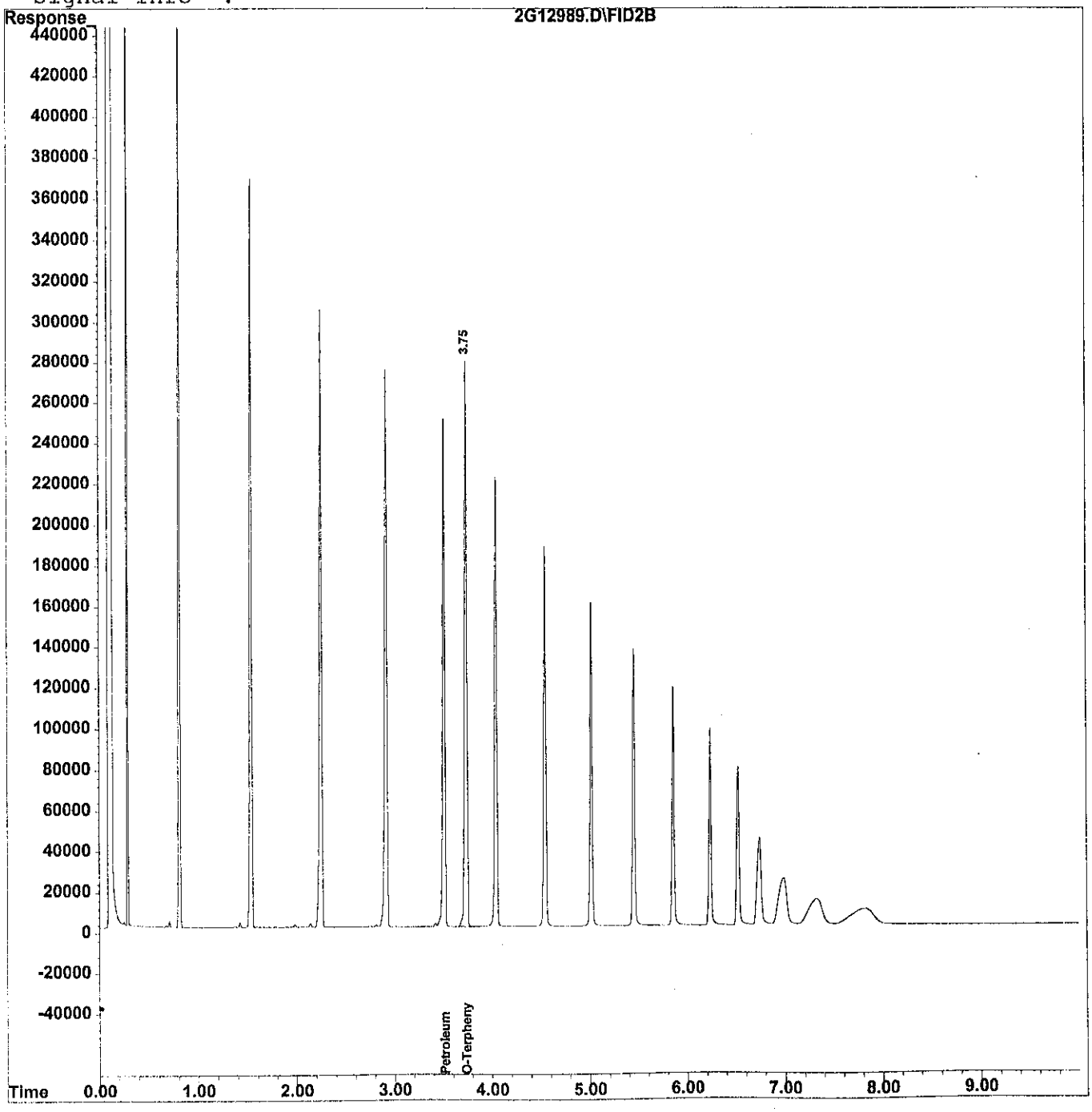
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.75	4143431	204.470 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1022.35%#
Target Compounds			
1) H Petroleum Range	3.54	46864056	3411.054 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12989.D Vial: 5
Acq On : 13 Jun 2001 14:06 Operator: HV
Sample : PRO STD 200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12990.D Vial: 6
Acq On : 13 Jun 2001 14:20 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.74	2065534	101.930 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 509.65%#	
Target Compounds			
1) H Petroleum Range	3.54	22991031	1673.429 ppb

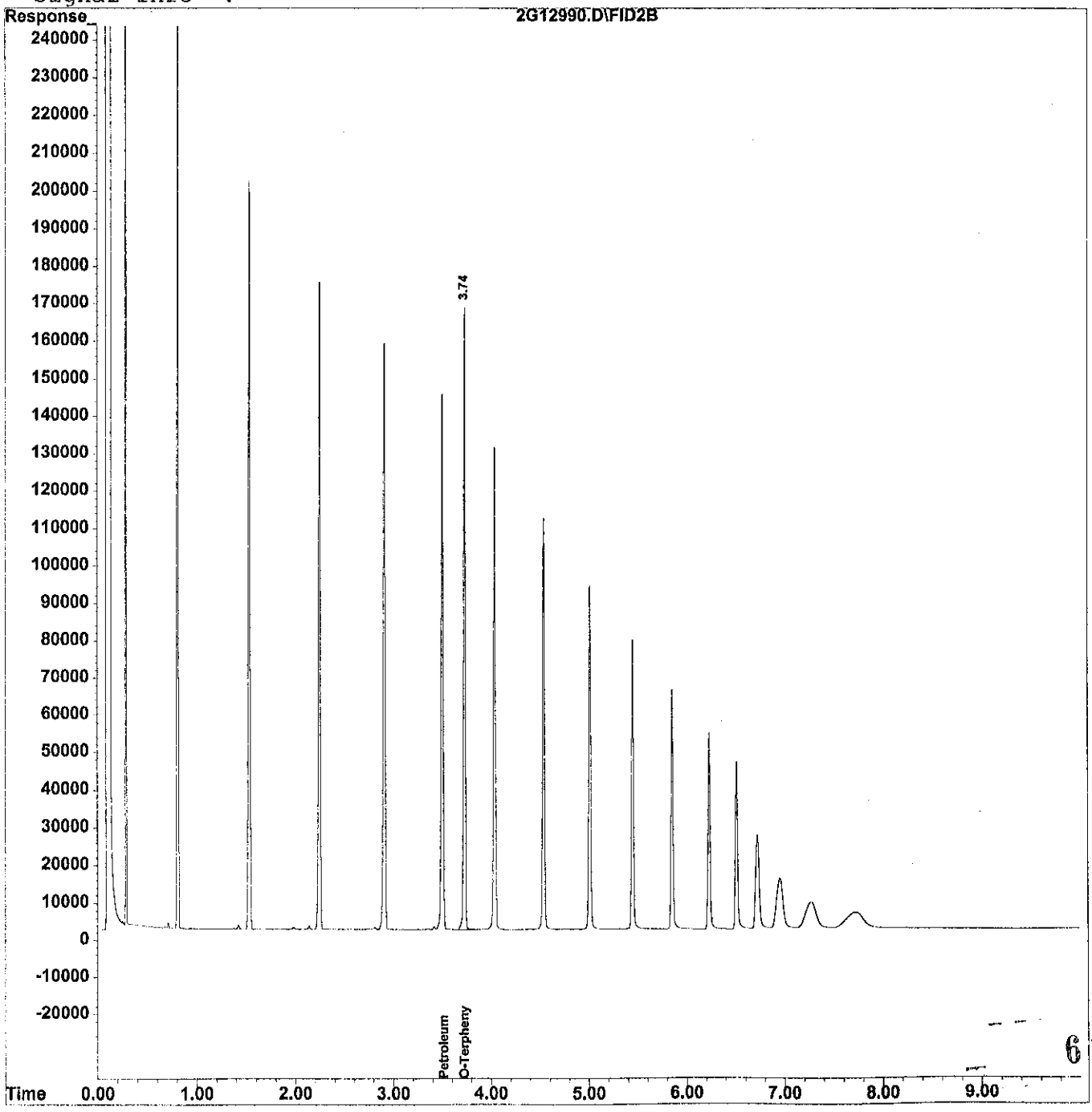
613

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12990.D FLASHPRO.M Wed Jun 13 16:02:35 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061301A\2G12990.D Vial: 6
Acq On : 13 Jun 2001 14:20 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



614

Data File : C:\HPCHEM\1\DATA\061301A\2G12991.D Vial: 7
Acq On : 13 Jun 2001 14:34 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.74	1088804	53.730 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	268.65%#
Target Compounds			
1) H Petroleum Range	3.54	12230739	890.228 ppb

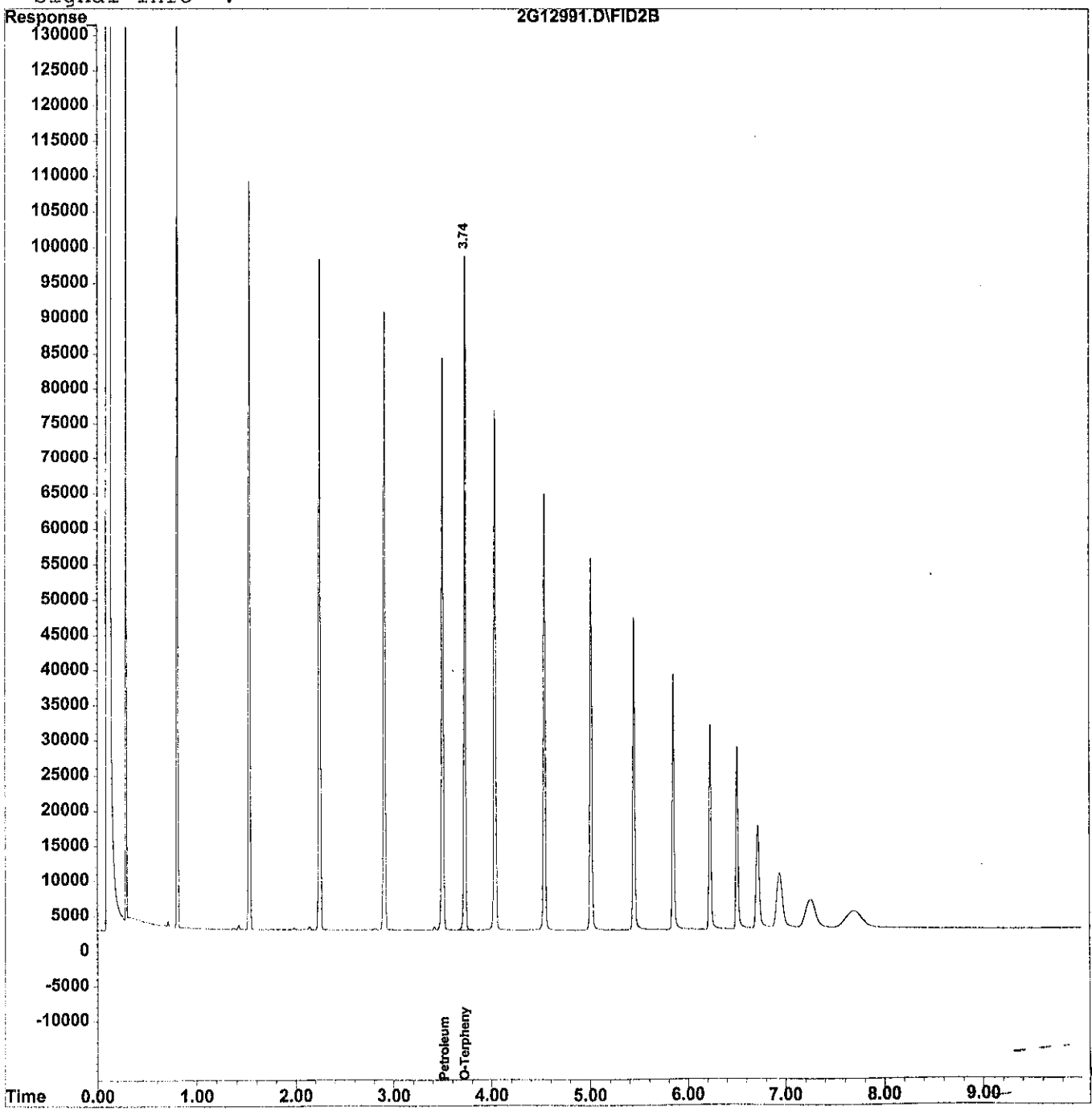
615

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12991.D Vial: 7
Acq On : 13 Jun 2001 14:34 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



616

Data File : C:\HPCHEM\1\DATA\061301A\2G12992.D Vial: 8
Acq On : 13 Jun 2001 14:49 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	306	0.015 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	0.08%#
Target Compounds			
1) H Petroleum Range	3.54	1408439	<MDL ppb

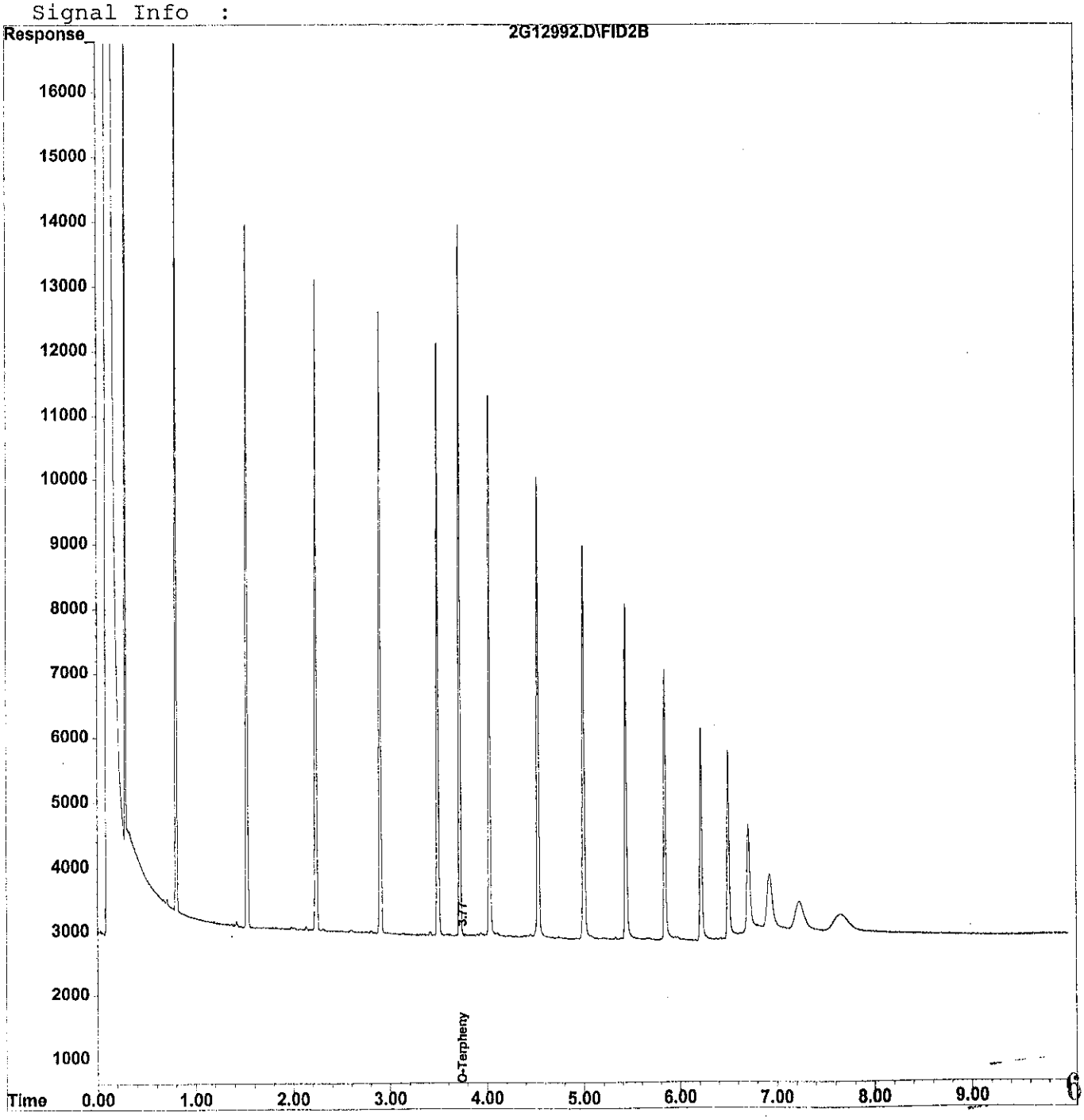
617

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12992.D FLASHPRO.M Wed Jun 13 16:02:58 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061301A\2G12992.D Vial: 8
Acq On : 13 Jun 2001 14:49 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:02 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



618

Data File : C:\HPCHEM\1\DATA\061301A\2G12993.D Vial: 9
Acq On : 13 Jun 2001 15:22 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3430.321	-0.9	101	0.00
2	S	O-Terphenyl	200.000	0.906	99.5#	0	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12993.D FLASHPRO.M Wed Jun 13 15:36:03 2001 Page 1

619

Data File : C:\HPCHEM\1\DATA\061301A\2G12993.D Vial: 9
Acq On : 13 Jun 2001 15:22 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12993.D FLASHPRO.M Wed Jun 13 15:36:03 2001 Page 2

620

Data File : C:\HPCHEM\1\DATA\061301A\2G12993.D Vial: 9
Acq On : 13 Jun 2001 15:22 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 15:35 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	18358	0.906 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	4.53%#
Target Compounds			
1) H Petroleum Range	3.54	47128755	3430.321 ppb

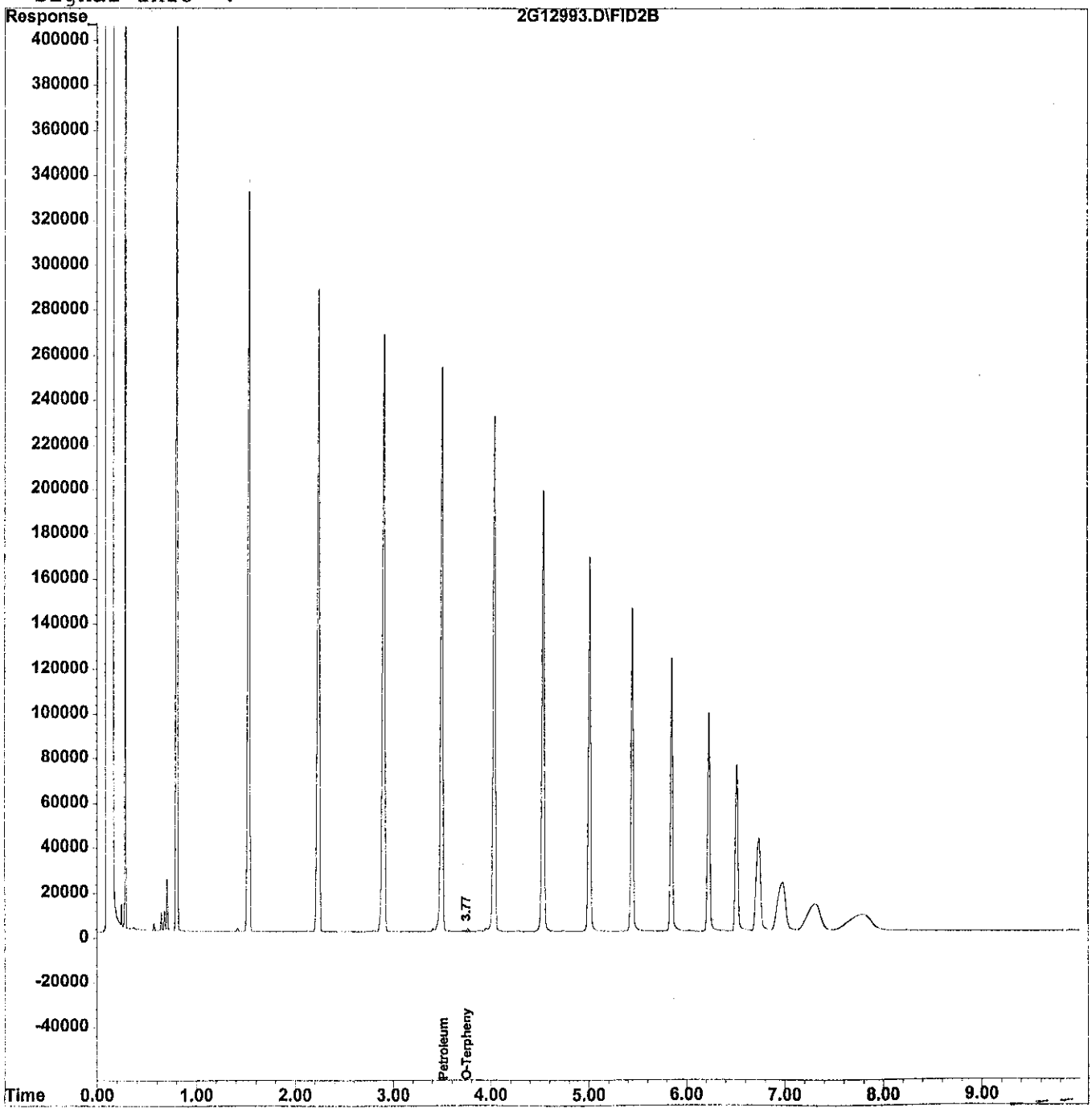
621

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G12993.D Vial: 9
Acq On : 13 Jun 2001 15:22 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 15:35 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:19:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G13001.D Vial: 17
Acq On : 13 Jun 2001 17:42 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3777.236	-11.1	111	0.00
2	S	O-Terphenyl	200.000	219.744	-9.9	107	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G13001.D FLASHPRO.M Thu Jun 14 08:16:41 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\061301A\2G13001.D Vial: 17
Acq On : 13 Jun 2001 17:42 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 15:20:02 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G13001.D FLASHPRO.M Thu Jun 14 08:16:42 2001 Page 2

624

Data File : C:\HPCHEM\1\DATA\061301A\2G13001.D Vial: 17
Acq On : 13 Jun 2001 17:42 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 14 8:16 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

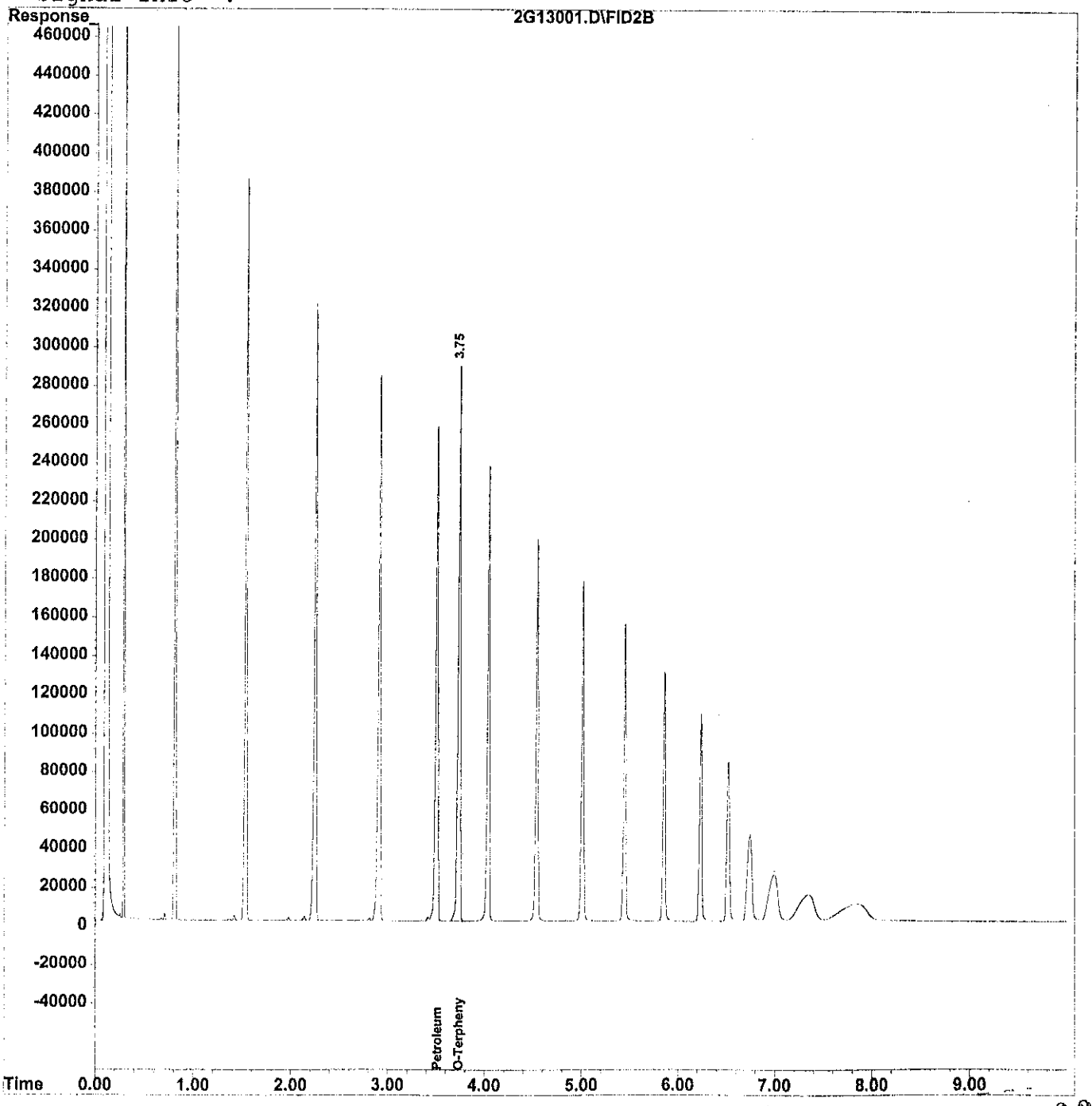
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.75	4452946	219.744 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1098.72%#
Target Compounds			
1) H Petroleum Range	3.54	51894978	3777.236 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\061301A\2G13001.D Vial: 17
Acq On : 13 Jun 2001 17:42 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 14 8:16 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\061301A\2G12994.D Vial: 10
Acq On : 13 Jun 2001 16:03 Operator: HV
Sample : PRO water BLK V165-P75 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:52 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.73	464711	22.933 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 114.67%	
Target Compounds			
1) H Petroleum Range	3.54	2645263	192.539 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12994.D FLASHPRO.M Wed Jun 13 16:52:58 2001 Page 1

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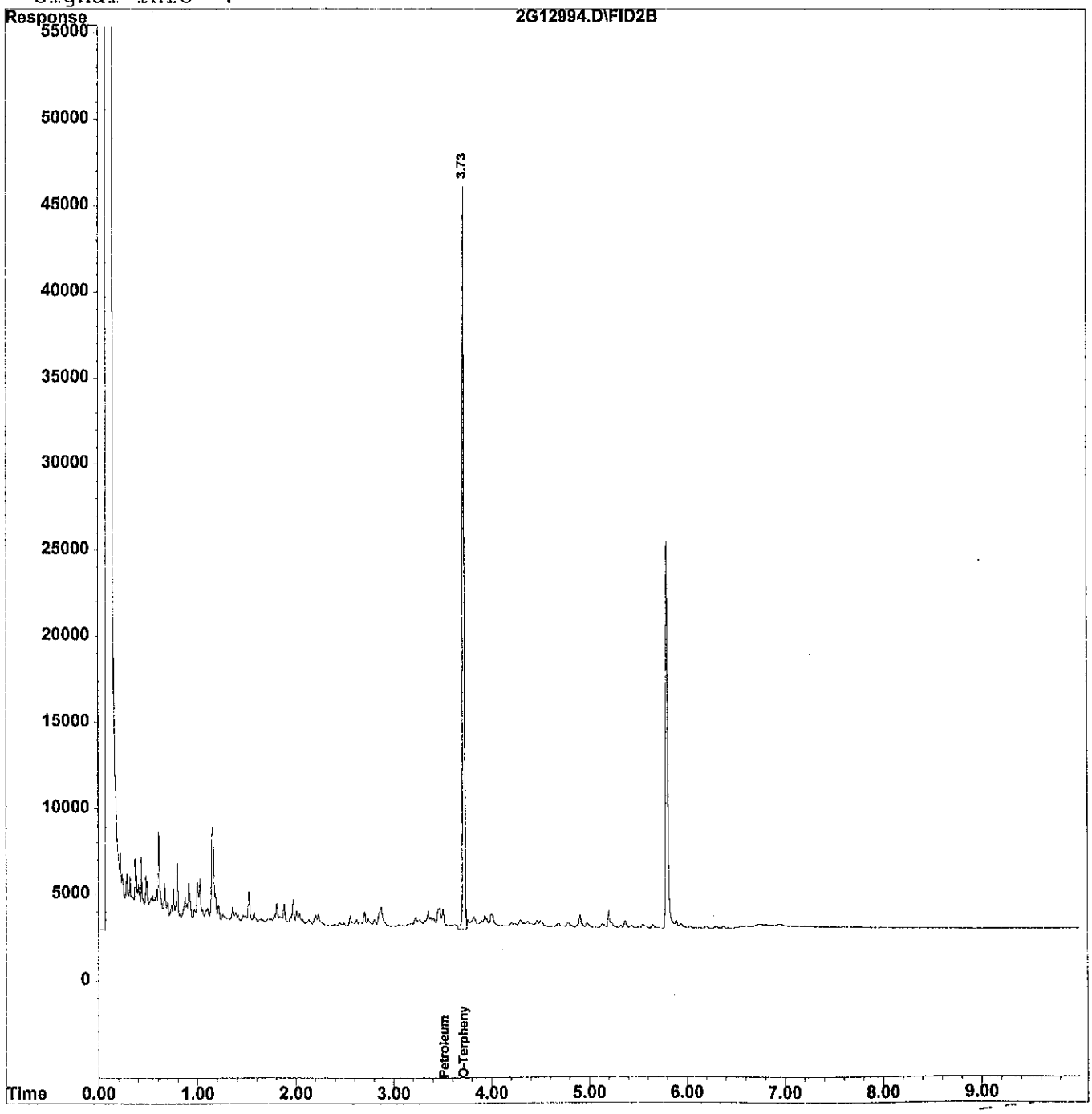
Data File : C:\HPCHEM\1\DATA\061301A\2G12994.D Vial: 10
Acq On : 13 Jun 2001 16:03 Operator: HV
Sample : PRO water BLK V165-P75 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:52 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12996.D Vial: 12
Acq On : 13 Jun 2001 16:31 Operator: HV
Sample : PRO water LCS V165-P75 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:52 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

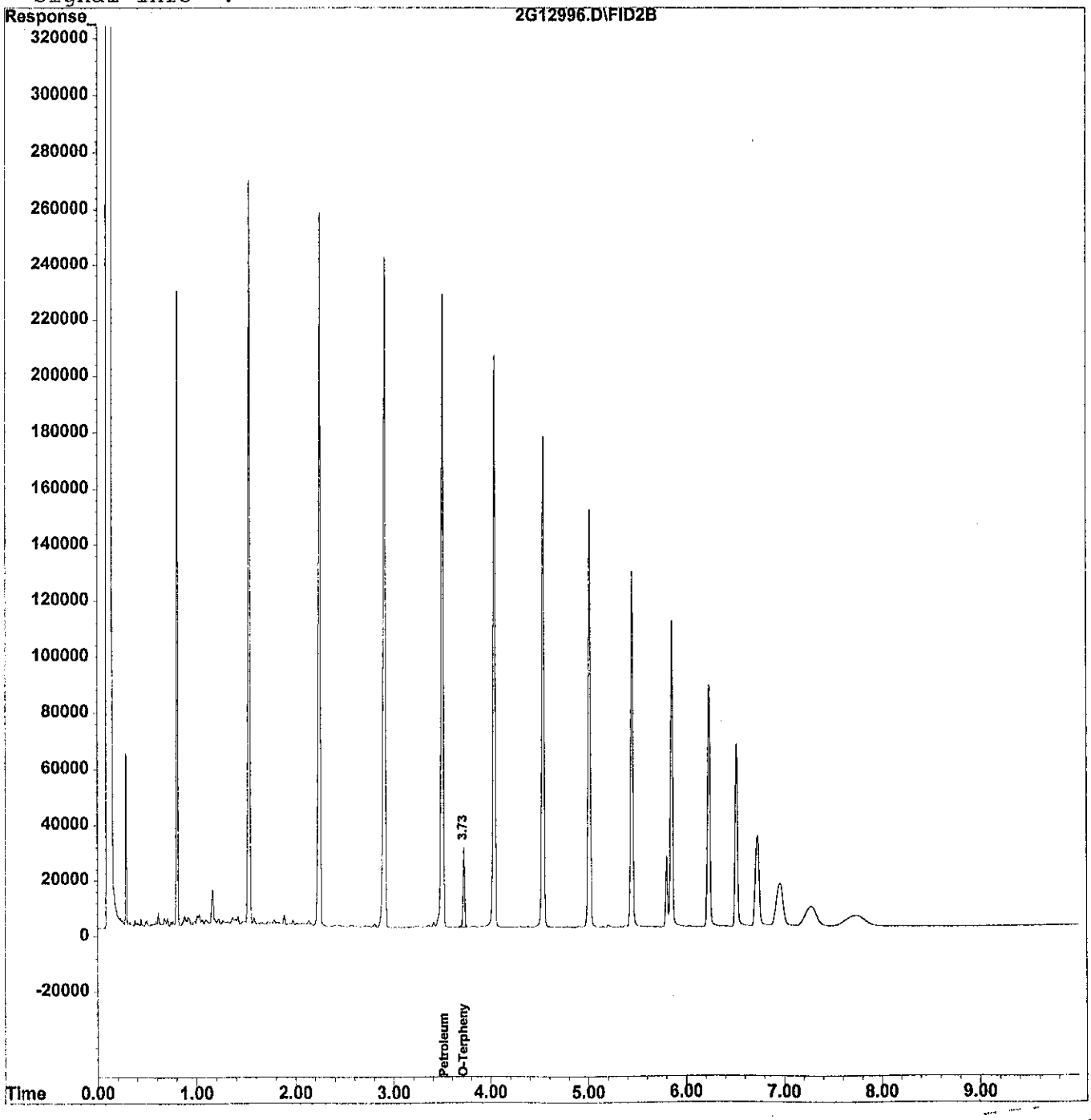
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.73	318502	15.717 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	78.59%
Target Compounds			
1) H Petroleum Range	3.54	35218803	2563.441 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12996.D FLASHPRO.M Wed Jun 13 16:52:24 2001 Page 1

Data File : C:\HPCHEM\1\DATA\061301A\2G12996.D Vial: 12
Acq On : 13 Jun 2001 16:31 Operator: HV
Sample : PRO water LCS V165-P75 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: Jun 13 16:52 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12998.D Vial: 14
Acq On : 13 Jun 2001 17:00 Operator: HV
Sample : L0106236-01 MS 10x FLA PRO water Inst : hp2
Misc : water Multiplr: 10.00
IntFile : PETRO.E
Quant Time: Jun 14 8:17 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

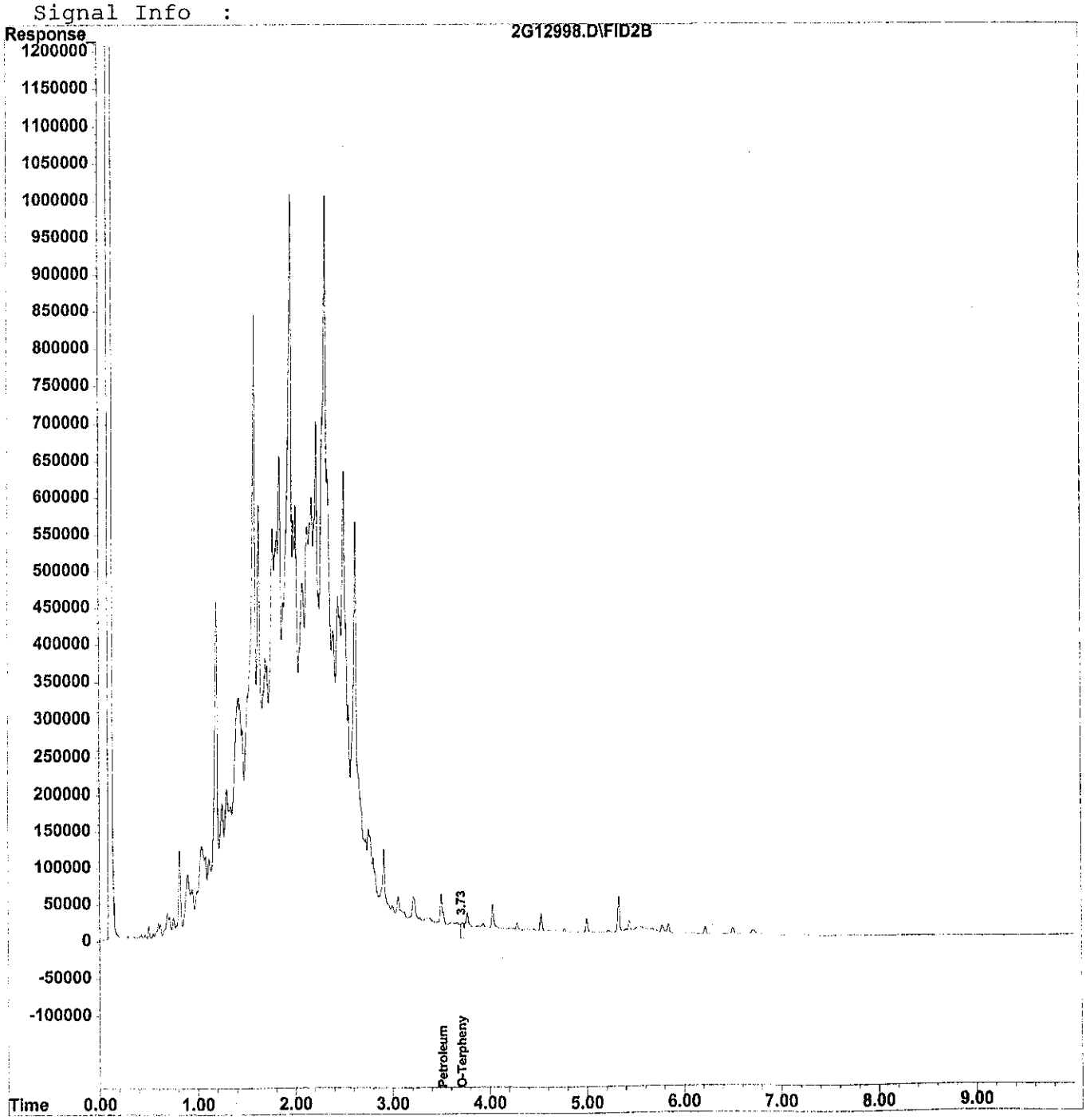
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.73	464533	22.924 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 114.62%	
Target Compounds			
1) H Petroleum Range	3.54	457987450	333351.442 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12998.D FLASHPRO.M Thu Jun 14 08:17:45 2001 Page 632

Data File : C:\HPCHEM\1\DATA\061301A\2G12998.D Vial: 14
Acq On : 13 Jun 2001 17:00 Operator: HV
Sample : L0106236-01 MS 10x FLA PRO water Inst : hp2
Misc : water Multiplr: 10.00
IntFile : PETRO.E
Quant Time: Jun 14 8:17 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\061301A\2G12999.D Vial: 15
Acq On : 13 Jun 2001 17:14 Operator: HV
Sample : L0106236-01 MSD 10x FLA PRO water Inst : hp2
Misc : water Multiplr: 10.60
IntFile : PETRO.E
Quant Time: Jun 14 8:18 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

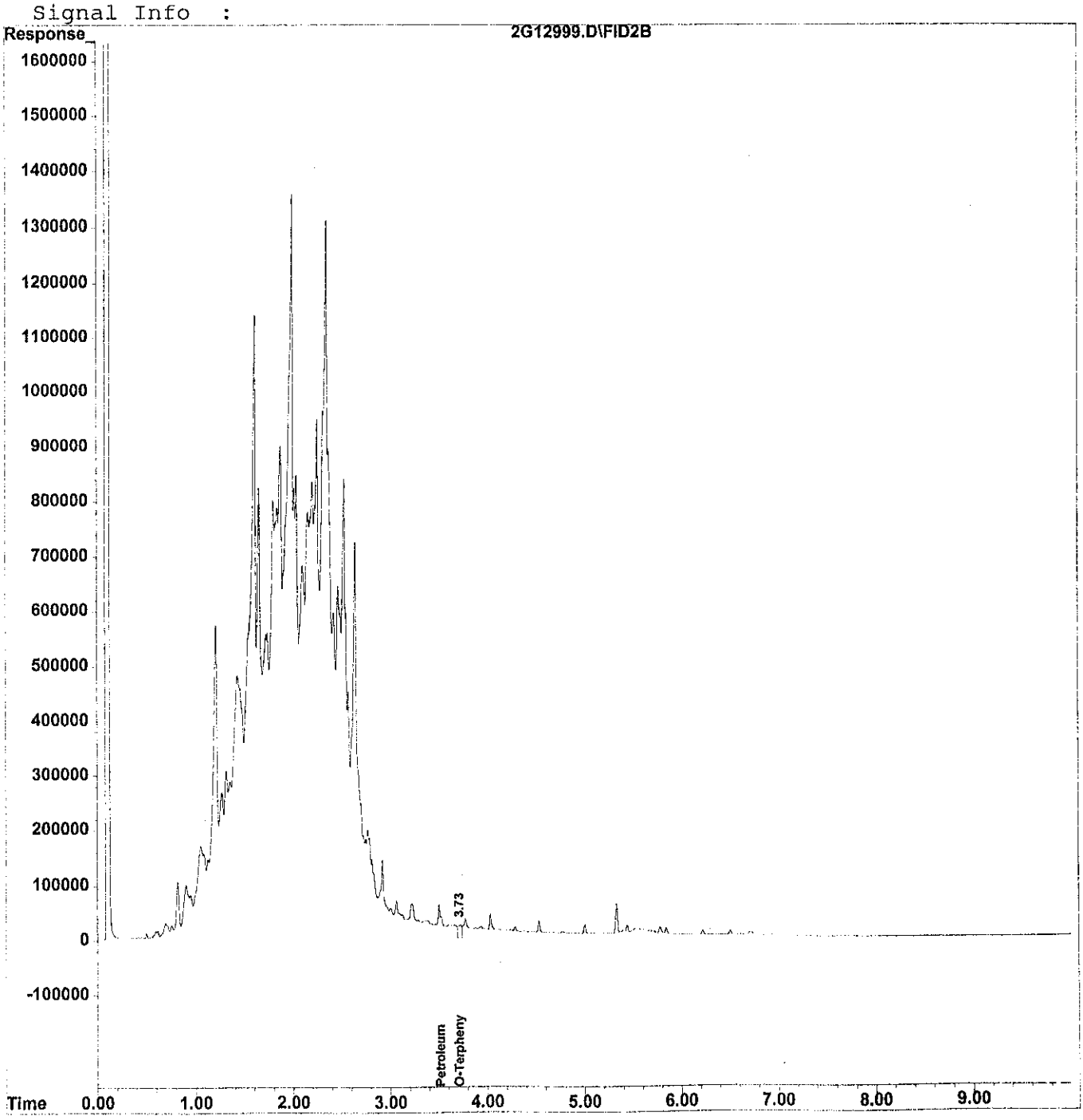
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.73	657571	32.450 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 162.25%	
Target Compounds			
1) H Petroleum Range	3.54	641143586	494663.570 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12999.D FLASHPRO.M Thu Jun 14 08:18:11 2001 Page 11

Data File : C:\HPCHEM\1\DATA\061301A\2G12999.D Vial: 15
Acq On : 13 Jun 2001 17:14 Operator: HV
Sample : L0106236-01 MSD 10x FLA PRO water Inst : hp2
Misc : water Multiplr: 10.60
IntFile : PETRO.E
Quant Time: Jun 14 8:18 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 06/13/01
Last Update : Wed Jun 13 16:52:01 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 6/13/01 Instrument ID HP 2 Column ID RTX-5 Data Subdirectory C:\01306\0

Analyst Initials HV

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
2g12985	mecl2				✓
86	WIN DEF STD		KS 13-12-56 CAB 6-14-01		
87	PRO STD 1000 ppm				
88	400				
89	200				
90	100				
91	50				
92	5				
93	ALT PRO @ 200ppm				
94	PRO water BLK VIL05-P75				
95	L01016236-01 FLA PRO water			2g12997	RR-D
96	PRO water LCS VIL05-P75				✓
97	L01016236-01 FLA PRO water 100X	100			
98	-01MS 10X	10			
99	-01MSD	10			
2g1300	mecl2				
01	PRO CONT CHK		SV53 34 KS 13-39 CAB 6-14-01		✓

CAB 6-14-01

Reviewed By: [signature] 6/14/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

Volume 165
Page 75

Parameter: FLA-PRO HO SOP #: EXPRO Revision #: 2
Extraction Analyst(s): DCV TV/KD Analyst(s): DCV
Date/Time Extracted: 6/12/01 17:00 Date TV/KD: 6/12/01
Spike/Surrogate Analyst: DCV Witness: JAQ
Surrogate #: FSS0036-50 Earliest Hold Date: 6/15
Spike #: A = FSS0037-13 Spike #: B = FSS0037-27

Extraction Work Group WG 99232
Analytical Work Group WG 99298

Extract Relinquished By: DD
Extract Received By & Date: 6/13/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓			1L	1ml		1ml	T				WG 99232-02
2	LCS		✓					1ml		T				WG 99232-03
3	06-036-01	FLA-PRO	✓							C				*WG 99232-01
4	01MS		✓					1ml		C				WG 99232-04
5	01MSD		✓			940ml		1ml		T				WG 99232-05
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

6/12/01 JAQ

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: 1:1 HCl Lot #: ER1768
Florisil Lot #: —
Silica Gel Lot #: V13559
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1738

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C	✓	Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 06/13/01

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Extraction Notes For Volume # 165 Page # 75

General Comments: ~~nothing to report~~ JNG 6/12/01
✓ bottle A and B of SX 06-236-01 was accidentally used for MS and MSD. We used bottle B of same sample with Pest/PCB codes instead.

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

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Example FLA-PRO Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.3 Metals

2.3.1 Metals I C P Data

REPORT NARRATIVE
METALS

KEMRON Login No: L0106236

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: KHR/JYH REVIEWED: Maren Beery DATE: 06/19/01

Rev. 6/00

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METALS - ICP DATA
Login Number: L0106236

A. QC Summary

✓ Batch QC Summary Form

B. Raw Data

✓ Analyst checksheet
✓ Analysis runlog
✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- ICP Interference check sample
- ICP Serial dilutions (as needed)
- Post digestion spike sample (if applicable)
- Standard addition results (as needed)

C. Preparation log(s)

D. Sample Calculations

Checked By: QA MMB Date: 06/19/01

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2.3.1.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG99435 **RUN DATE:** 6/14/2001
METHOD: 6010B **PREP DATE:** 6/12/2001
MATRIX: Water **ANALYST:** KHR
UNITS: mg/L **DUPLICATE:** L0106244-01
INSTRUMENT: Perkin Elmer Optima 3000 DV **MS/MSD:** L0106236-01

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	0.0100	ND	0.200	0.199	ND	ND	ND	0.200	0.183	0.177	99.5	80.0	120.0	91.5	88.5	75.0	125.0	NA	3.3	20
Aluminum	0.1000	ND	10.000	9.990	ND	ND	68.200	10.000	132.000	97.300	99.9	80.0	120.0	638.0	291.0	75.0	125.0	NA	30.3	20
Arsenic	0.0040	ND	1.000	0.964	ND	ND	0.027	1.000	0.888	0.863	96.4	80.0	120.0	86.1	83.6	75.0	125.0	NA	2.9	20
Barium	0.0100	ND	10.000	9.260	0.017	0.016	0.259	10.000	8.900	8.630	92.8	80.0	120.0	86.4	83.7	75.0	125.0	3.0	3.1	20
Beryllium	0.0100	ND	1.000	0.989	ND	ND	ND	1.000	0.947	0.917	98.9	80.0	120.0	94.7	91.7	75.0	125.0	NA	3.2	20
Calcium	0.2000	ND	10.000	10.100	0.786	0.784	170.000	10.000	173.000	167.000	101.0	80.0	120.0	30.0		75.0	125.0	0.3	3.5	20
Cadmium	0.0100	ND	1.000	0.958	ND	ND	0.033	1.000	0.900	0.878	95.8	80.0	120.0	86.7	84.5	75.0	125.0	NA	2.5	20
Cobalt	0.0200	ND	1.000	0.980	ND	ND	ND	1.000	0.893	0.863	98.0	80.0	120.0	89.3	86.3	75.0	125.0	NA	3.4	20
Chromium	0.0200	ND	1.000	0.994	ND	ND	0.217	1.000	1.080	1.040	99.4	80.0	120.0	86.3	82.3	75.0	125.0	NA	3.8	20
Copper	0.0200	ND	1.000	0.972	0.045	0.044	0.254	1.000	1.150	1.110	97.2	80.0	120.0	89.6	85.6	75.0	125.0	2.5	3.5	20
Iron	0.0400	ND	1.000	0.935	ND	ND	220.000	1.000	223.000	205.000	93.5	80.0	120.0	300.0		75.0	125.0	NA	8.4	20
Potassium	1.0000	ND	50.000	48.200	ND	ND	6.510	50.000	52.100	52.600	96.4	80.0	120.0	91.2	92.2	75.0	125.0	NA	1.0	20
Magnesium	0.5000	ND	10.000	9.710	ND	ND	6.890	10.000	16.500	15.200	97.1	80.0	120.0	96.1	83.1	75.0	125.0	NA	8.2	20
Manganese	0.0100	ND	1.000	0.990	ND	ND	2.340	1.000	3.100	2.960	99.0	80.0	120.0	76.0	62.0	75.0	125.0	NA	4.6	20
Sodium	0.5000	ND	50.000	49.100	2.860	2.830	6.820	50.000	51.400	52.900	98.2	80.0	120.0	89.2	92.2	75.0	125.0	1.1	2.9	20
Nickel	0.0400	ND	1.000	0.975	ND	ND	0.048	1.000	0.934	0.898	97.5	80.0	120.0	88.6	85.0	75.0	125.0	NA	3.9	20
Lead	0.0050	ND	1.000	0.985	ND	ND	0.403	1.000	1.250	1.190	98.5	80.0	120.0	84.7	78.7	75.0	125.0	NA	4.9	20
Vanadium	0.0100	ND	1.000	0.971	ND	ND	0.087	1.000	0.987	0.946	97.1	80.0	120.0	90.0	85.9	75.0	125.0	NA	4.2	20
Zinc	0.0200	ND	1.000	0.993	0.044	0.043	1.390	1.000	2.130	2.020	99.3	80.0	120.0	74.0	63.0	75.0	125.0	2.1	5.3	20
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG99534
METHOD: 6020A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: ELAN 6100 ICP-MS

RUN DATE: 06/18/01
PREP DATE: 06/15/01
ANALYST: JYH
DUPLICATE: L0106278-01
MS/MSD: L0106329-05

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Arsenic	0.00100	ND	0.125	0.130	0.33000	0.35000	0.00144	0.125	0.131	0.130	104.0	80.0	120.0	103.6	102.8	80.0	120.0	5.9	0.8	15
Lead	0.00100	ND	0.125	0.132	0.714	0.745	0.001	0.125	0.133	0.128	105.6	80.0	120.0	105.9	101.9	80.0	120.0	4.2	3.8	15
Antimony	0.00100	ND	0.125	0.135	0.654	0.729	ND	0.125	0.136	0.130	108.0	80.0	120.0	108.8	104.0	80.0	120.0	10.8	4.5	15
Selenium	0.00100	ND	0.125	0.126	0.838	0.920	0.001	0.125	0.124	0.121	100.8	80.0	120.0	98.6	96.2	80.0	120.0	9.3	2.4	15
Thallium	0.00020	ND	0.125	0.126	0.432	0.462	ND	0.125	0.128	0.126	100.8	80.0	120.0	102.4	100.8	80.0	120.0	6.7	1.6	15
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
NA = NOT APPLICABLE
ND = NOT DETECTED
DL = DILUTED OUT (Concentration of sample > 4X spike concentration)

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

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2.3.1.2 Raw Data

Metals

Date: 06-14-01
Analyst: KHR, SLP, CRC
Method: 6010B
Instrument: PE-ICP
Work Group: 99386, 99394, 99435, 99436 + 99438

	Analyst
Calibration/Linearity	✓ Y
ICV/CCV	✓ Y
ICB/CCB	✓ Y
icsa/icsab/cri	✓ Y
Blank/LCS	✓ Y
MS/MSD	✓ Y
Postspike/Serial Dilution	✓ Y
Duplicate	✓ Y
Record Results	✓ Y
Excel Spreadsheets	✓ Y
Results Reporting / Data Qualifiers	Y
Calculations & Correct Factors	Y
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	NA
QA Approval - Seedpak 3	NA
Check for Completeness	Y
Level IV Data	✓

6/18
06-218 P
06-239 P

6/20
06-246 P
06-247 P

6/22
06-263 P

Priority 6/15
~~06-290~~
~~06-269~~

Primary Reviewer Initials & Date Checked KHR / CRC 06-14-01

Secondary Reviewer Initials & Date Checked 6/15/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 6/18

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

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KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST Kw JL Hodos DATE 6-14-01 TIME 1008
METHOD # 6010B SOP # ME-600E Rev # 2 WORK GROUP # 99356, 99394 99435, 994
CAL STD SOURCE MI-10-6B ICV/CCV SOURCE MI-10-5A 22B
ICS AB SOURCE MI-10-5A ICS A SOURCE MI-10-1B POST SPK SOURCE DSS-33-40
Instrument ID: TJA IRIS: Data File: Perkin Elmer Optima: X Perkin Elmer ELAN: 994

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
			2/2		27.	0006-214-02	0.1	1/50	CCV/CCB
					28.	TC Blk F 6/13			
					29.	TC06-269-01		5/50	
					30.	015			
					31.	TC06-270-05			
					32.	04		-01	
					33.	055		-05	
					34.	06SD		-06	
1.	50				35.	07			
2.	S1 1/200				36.	TC-06-165-02	d 2		
3.	S2 1/2				37.	02PS	0.2		CCV/CCB
4.	S3			TCV/FCB	38.	06-246-01			
5.	ICSA				39.	PBW P/WG 99284		-03	
6.	ICSAB			CCV/CCB	40.	CCSW 3		-04	
7.	PBW 4B/WG 99353		-3		41.	06-244-01		-02	
8.	CCSW 4B		-04		42.	01PS	0.9		
9.	06-270-02		-02		43.	01DP		-07	
10.	02SDL	0.2			44.	06-236-01	0.5	-01	
11.	02PS	0.9			45.	015	1	-05	
12.	02DP		-07		46.	015D	1	-06	
13.	06-305-21		-01		47.	06-244-02			CCV/CCB
14.	015		-05		48.	06-244-03			
15.	15D		-06	CCV/CCB	49.	04			
16.	PBW KR/WG 99355		-03		50.	05			
17.	CCSW KR		-04		51.	06			
18.	TC Blk 6/13	0.1			52.	07			
19.	TC06-266-01		-02	5/50	53.	08			
20.	05SDL	0.2			54.	09			
21.	05PS	0.9			55.	10			
22.	05DP		-07	5/50	56.	11			
23.	02				57.	12			CCV/CCB
24.	03				58.	13			
25.	04			CCV/CCB	59.	14			
26.	WG06-214-01	0.1	1/50		60.	15			

Reviewed by: Continued page 11

Comments:

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key: CCV - Continuing Calibration Verification; CCB = Continuing Calibration Blank; FRS = Full Recalibration Sequence; R = Analyst Rerun

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KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

page 649 continued from page 11

ANALYST KHR / SLP / CRC DATE 6-14-01 TIME 1008
METHOD # 6010B SOP # ME6001 Rev # 2 WORK GROUP # 99386, 99394, 99435, 99436
CAL STD SOURCE MI-10-6B ICV/CCV SOURCE MI-10-22B
ICS AB SOURCE MI-10 8A ICS A SOURCE MI-10-10B POST SPK SOURCE DSS 33 40
Instrument ID: TJA IRIS: _____ Data File: _____ Perkin Elmer Optima: ✓ Perkin Elmer ELAN: 99438

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
			ml/ml		27.	08			
					28.	PBW JA			WG 99333-03
					29.	LCSW JA			-04
					30.	06-250-01			
					31.	06-251-01			
					32.	06-251-02			
					33.	06-253-03			CCV/CCB02
					34.	06-253-03 SDL	0.2		
1.	06-244-16				35.	06-253-03 PS	0.9		
2.	17				36.	06-253-03 DP			-07
3.	18				37.	06-257-01			
4.	19			CCV/CCB	38.	02			
5.	06-236-01DL	0.01		WG 99226-01	39.	06-258-01			
6.	PBW 60			WG 99227-03	40.	02			
7.	LCSW 60			-04	41.	06-263-02			-01
8.	06-218-01				42.	06-263-02S			-05
9.	06-237-02			-01	43.	06-263-02SD			CCV/CCB-06
10.	06-237-02SDL	0.2			44.	06-263-05			
11.	06-237-02PS	0.9			45.	06-263-06			CCV/CCB
12.	06-237-03S			-05	46.	06-246-01			
13.	06-237-04SD			-06	47.	06-247-01			
14.	06-239-01			CCV/CCB -02	48.	02			
15.	06-239-01DP			-07	49.	06-253-02			
16.	06-240-01DL	0.2			50.	04			CCV/CCB
17.	06-244-20				51.	06-253-04SL	0.2		
18.	21				52.	06-253-04DL	0.1		CCV/CCB
19.	22				53.	06-237-08DL	0.2		CCV/CCB
20.	23				54.				
21.	24			CCV/CCB	55.				
22.	LCSW 60			RR -03	56.				
23.	06-240-01	0.1		CCV/CCB/CCV/CCB	57.				
24.	06-237-05				58.				
25.	06				59.				
26.	07				60.				

CRC 06-15-01

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key: CCV - Continuing Calibration Verification; CCB = Continuing Calibration Blank; FRS = Full Recalibration Sequence; R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: WG99435

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 14-Jun-01 Initial Calibration ID: PE-ICP 14-JUN-2001

Instrument ID: PE-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Silver	0	1147.1	0.004	2461.7	0.4	267082	0.800	540000			0.99998	
Aluminum	0	-2079	0.1	1334.4	10	143047	20	291894			0.99995	
Arsenic	0	-12.7	0.004	53.7	0.4	6687.3	0.8	13711			0.99993	
Barium	0	-1303	0.01	3304.6	1	344569	2	679366			0.99997	
Beryllium	0	68.6	0.0005	742	0.05	78275	0.1	154258			0.99997	
Calcium	0	-174.3	0.1	111.9	10	12179	20	24029			0.99994	
Cadmium	0	105.2	0.0005	189.3	0.05	19778	0.1	40131			0.99996	
Cobalt	0	37.3	0.002	360.5	0.2	36231	0.4	71931			0.99999	
Chromium	0	280.2	0.005	1763.9	0.5	170876	1	334770			0.99995	
Copper	0	971.9	0.005	1865.2	0.5	200968	1	398522			0.99999	
Iron	0	-1666	0.04	414.3	4	90501	8	182351			0.99999	
Potassium	0	1795.6	0.5	6508	50	732099	100	1519101			0.99982	
Magnesium	0	-1981	0.1	5206.1	10	574045	20	1178579			0.99992	
Manganese	0	-421.1	0.005	9760.4	0.5	995137	1	1953369			0.99995	
Sodium	0	2344.1	0.5	19035	50	1992267	100	4006696			1	
Nickel	0	-530.5	0.005	947.2	0.5	93147	1	184229			0.99998	
Vanadium	0	-593.6	0.01	2488.9	1	285427	2	565887			0.99999	
Zinc	0	833.1	0.01	3814.5	1	347578	2	691509			1	

Comments:

AFCEE FORM I-3A

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 10:45 AM
CCV2 Time: 11:38 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9960	99.8	9850	98.5	
Antimony	1200	1200	100.0	1200	1180	98.3	1180	98.3	
Arsenic	400	387	96.8	400	380	95.0	381	95.3	
Barium	1000	1030	103.0	1000	1030	103.0	1020	102.0	
Beryllium	50	51.7	103.4	50	52.6	105.2	51.3	102.6	
Cadmium	50	49.0	98.0	50	48.0	96.0	48.1	96.2	
Calcium	10000	10100	101.0	10000	9960	99.6	9930	99.3	
Chromium	500	521	104.2	500	521	104.2	515	103.0	
Cobalt	200	208	104.0	200	209	104.5	205	102.5	
Copper	500	514	102.8	500	514	102.8	503	100.6	
Iron	4000	4060	101.5	4000	4070	101.8	3990	99.8	
Lead	500	511	102.2	500	501	100.2	502	100.4	
Magnesium	10000	10100	101.0	10000	10000	100.0	9920	99.2	
Manganese	500	511	102.2	500	511	102.2	504	100.8	
Nickel	500	519	103.8	500	518	103.6	513	102.6	
Potassium	50000	48900	97.8	50000	47100	94.2	47000	94.0	
Selenium	400	396	99.0	400	388	97.0	392	98.0	
Silver	400	384	96.0	400	384	96.0	376	94.0	
Sodium	50000	50200	100.4	50000	48400	96.8	48600	97.2	
Thallium	500	484	96.8	500	491	98.2	475	95.0	
Vanadium	1000	1030	103.0	1000	1030	103.0	1010	101.0	
Zinc	1000	1020	102.0	1000	1030	103.0	1010	101.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 1:03 PM
CCV2 Time: 1:23 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9860	98.6	9770	97.7	
Antimony	1200	1200	100.0	1200	1190	99.2	1170	97.5	
Arsenic	400	387	96.8	400	385	96.3	377	94.3	
Barium	1000	1030	103.0	1000	1020	102.0	1010	101.0	
Beryllium	50	51.7	103.4	50	51.2	102.4	50.5	101.0	
Cadmium	50	49.0	98.0	50	48.5	97.0	47.7	95.4	
Calcium	10000	10100	101.0	10000	10100	101.0	9900	99.0	
Chromium	500	521	104.2	500	516	103.2	509	101.8	
Cobalt	200	208	104.0	200	207	103.5	203	101.5	
Copper	500	514	102.8	500	499	99.8	494	98.8	
Iron	4000	4060	101.5	4000	3970	99.3	3940	98.5	
Lead	500	511	102.2	500	508	101.6	497	99.4	
Magnesium	10000	10100	101.0	10000	9960	99.6	9770	97.7	
Manganese	500	511	102.2	500	504	100.8	499	99.8	
Nickel	500	519	103.8	500	514	102.8	506	101.2	
Potassium	50000	48900	97.8	50000	47000	94.0	46500	93.0	
Selenium	400	396	99.0	400	393	98.3	385	96.3	
Silver	400	384	96.0	400	374	93.5	372	93.0	
Sodium	50000	50200	100.4	50000	49200	98.4	48000	96.0	
Thallium	500	484	96.8	500	466	93.2	432	86.4	*
Vanadium	1000	1030	103.0	1000	1010	101.0	995	99.5	
Zinc	1000	1020	102.0	1000	1020	102.0	990	99.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 2:35 PM
CCV2 Time: 4:04 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9860	98.6	9850	98.5	
Antimony	1200	1200	100.0	1200	1170	97.5	1160	96.7	
Arsenic	400	387	96.8	400	380	95.0	376	94.0	
Barium	1000	1030	103.0	1000	1020	102.0	1020	102.0	
Beryllium	50	51.7	103.4	50	51.2	102.4	51.7	103.4	
Cadmium	50	49.0	98.0	50	48.2	96.4	47.7	95.4	
Calcium	10000	10100	101.0	10000	10000	100.0	9920	99.2	
Chromium	500	521	104.2	500	512	102.4	509	101.8	
Cobalt	200	208	104.0	200	205	102.5	204	102.0	
Copper	500	504	100.8	500	500	100.0	501	100.2	
Iron	4000	4060	101.5	4000	3950	98.8	3970	99.3	
Lead	500	511	102.2	500	500	100.0	493	98.6	
Magnesium	10000	10100	101.0	10000	9830	98.3	9760	97.6	
Manganese	500	511	102.2	500	503	100.6	502	100.4	
Nickel	500	519	103.8	500	509	101.8	504	100.8	
Potassium	50000	48900	97.8	50000	47400	94.8	47600	95.2	
Selenium	400	396	99.0	400	392	98.0	380	95.0	
Silver	400	384	96.0	400	376	94.0	378	94.5	
Sodium	50000	50200	100.4	50000	48400	96.8	48700	97.4	
Thallium	500	484	96.8	500	463	92.2	449	89.8	*
Vanadium	1000	1030	103.0	1000	1000	100.0	1010	101.0	
Zinc	1000	1020	102.0	1000	994	99.4	984	98.4	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 5:02 PM
CCV2 Time: 5:46 PM

Analyte	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	[illegible]	[illegible]	[illegible]	10000	9900	99.0	9730	97.3	
Antimony	1200	1200	100.0	1200	1170	97.5	1160	96.7	
Arsenic	400	387	96.8	400	379	94.8	375	93.8	
Barium	1000	1030	103.0	1000	1020	102.0	1010	101.0	
Beryllium	50	51.7	103.4	50	51.6	103.2	51.0	102.0	
Cadmium	50	49.0	98.0	50	47.9	95.8	47.4	94.8	
Calcium	10000	10100	101.0	10000	9970	99.7	9880	98.8	
Chromium	500	521	104.2	500	511	102.2	503	100.6	
Cobalt	200	208	104.0	200	206	103.0	203	101.5	
Copper	500	514	102.8	500	500	100.0	491	98.2	
Iron	4000	4060	101.5	4000	3990	99.8	3900	97.5	
Lead	500	511	102.2	500	495	99.0	490	98.0	
Magnesium	10000	10100	101.0	10000	9850	98.5	9680	96.8	
Manganese	500	511	102.2	500	504	100.8	496	99.2	
Nickel	500	519	103.8	500	508	101.6	498	99.6	
Potassium	50000	48900	97.8	50000	47800	95.6	47900	95.8	
Selenium	400	396	99.0	400	383	95.8	380	95.0	
Silver	400	384	96.0	400	378	94.5	371	92.8	
Sodium	50000	50200	100.4	50000	48600	97.2	48700	97.4	
Thallium	500	484	96.8	500	434	86.8	439	87.8	*
Vanadium	1000	1030	103.0	1000	1010	101.0	994	99.4	
Zinc	1000	1020	102.0	1000	998	99.8	984	98.4	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 7:26 PM
CCV2 Time: 8:10 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9870	98.7	9980	99.8	
Antimony	1200	1200	100.0	1200	1160	96.7	1180	98.3	
Arsenic	400	387	96.8	400	378	94.5	383	95.8	
Barium	1000	1030	103.0	1000	1020	102.0	1030	103.0	
Beryllium	50	51.7	103.4	50	51.6	103.2	52.6	105.2	
Cadmium	50	49.0	98.0	50	47.7	95.4	48.5	97.0	
Calcium	10000	10100	101.0	10000	9930	99.3	10100	101.0	
Chromium	500	521	104.2	500	509	101.8	514	102.8	
Cobalt	200	208	104.0	200	205	102.5	207	103.5	
Copper	500	514	102.8	500	502	100.4	514	102.8	
Iron	4000	4060	101.5	4000	3950	98.8	4010	100.3	
Lead	500	511	102.2	500	492	98.4	498	99.6	
Magnesium	10000	10100	101.0	10000	9810	98.1	9920	99.2	
Manganese	500	511	102.2	500	502	100.4	507	101.4	
Nickel	500	519	103.8	500	503	100.6	507	101.4	
Potassium	50000	48900	97.8	50000	48000	96.0	47100	94.2	
Selenium	400	396	99.0	400	384	96.0	390	97.5	
Silver	400	384	96.0	400	377	94.3	384	96.0	
Sodium	50000	50200	100.4	50000	48600	97.2	48600	97.2	
Thallium	500	484	96.8	500	464	92.8	447	89.4	*
Vanadium	1000	1030	103.0	1000	1010	101.0	1020	102.0	
Zinc	1000	1020	102.0	1000	986	98.6	991	99.1	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 8:54 PM
CCV2 Time: 9:52 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	10300	103.0	10100	101.0	
Antimony	1200	1200	100.0	1200	1210	100.8	1200	100.0	
Arsenic	400	389	96.8	400	395	98.8	390	97.5	
Barium	1000	1030	103.0	1000	1060	106.0	1030	103.0	
Beryllium	50	51.7	103.4	50	53.9	107.8	51.5	103.0	
Cadmium	50	49.0	98.0	50	49.9	99.8	49.6	99.2	
Calcium	10000	10100	101.0	10000	10300	103.0	10200	102.0	
Chromium	500	521	104.2	500	534	106.8	520	104.0	
Cobalt	200	208	104.0	200	214	107.0	208	104.0	
Copper	500	514	102.8	500	529	106.4	513	102.6	
Iron	4000	4360	81.5	4000	4210	104.5	4090	102.3	
Lead	500	511	82.2	500	518	102.4	507	101.4	
Magnesium	10000	10100	101.0	10000	10300	103.0	10000	100.0	
Manganese	500	511	102.2	500	525	105.0	513	102.6	
Nickel	500	519	103.8	500	527	105.4	519	103.8	
Potassium	50000	48900	97.8	50000	49300	98.6	48200	96.4	
Selenium	400	396	99.0	400	400	100.0	395	98.8	
Silver	400	384	96.0	400	398	99.5	384	96.0	
Sodium	50000	50200	100.4	50000	50600	101.2	48300	96.6	
Thallium	500	484	96.8	500	475	95.0	459	91.8	
Vanadium	1000	1030	103.0	1000	1050	105.0	1020	102.0	
Zinc	1000	1020	102.0	1000	1030	103.0	1000	100.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 10:50 PM
CCV2 Time: 11:09 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	10200	102.0	10100	101.0	
Antimony	1200	1200	100.0	1200	1210	100.8	1200	100.0	
Arsenic	400	387	96.8	400	396	99.0	394	98.5	
Barium	1000	1030	103.0	1000	1040	104.0	1030	103.0	
Beryllium	50	51.7	103.4	50	52.0	104.0	51.2	102.4	
Cadmium	50	49.0	98.0	50	50.3	100.6	50.0	100.0	
Calcium	10000	10100	101.0	10000	10400	104.0	10300	103.0	
Chromium	500	521	104.2	500	528	105.6	520	104.0	
Cobalt	200	208	104.0	200	211	105.5	208	104.0	
Copper	500	514	102.8	500	519	103.8	511	102.2	
Iron	4000	4060	101.5	4000	4170	104.3	4100	102.5	
Lead	500	511	102.2	500	513	102.6	510	102.0	
Magnesium	10000	10100	101.0	10000	10200	102.0	10100	101.0	
Manganese	500	511	102.2	500	520	104.0	512	102.4	
Nickel	500	519	103.8	500	526	105.2	517	103.4	
Potassium	50000	48900	97.8	50000	48500	97.0	49600	99.2	
Selenium	400	396	99.0	400	404	101.0	399	99.8	
Silver	400	384	96.0	400	388	97.0	382	95.5	
Sodium	50000	50200	100.4	50000	48800	97.6	50000	100.0	
Thallium	500	484	96.8	500	505	101.0	465	93.0	
Vanadium	1000	1030	103.0	1000	1030	103.0	1010	101.0	
Zinc	1000	1020	102.0	1000	1020	102.0	1000	100.0	

Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 11:41 PM
CCV2 Time: 12:08 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	10300	103.0	10100	101.0	
Antimony	1200	1200	100.0	1200	1220	101.7	1200	100.0	
Arsenic	400	387	96.8	400	401	100.3	394	98.5	
Barium	1000	1030	103.0	1000	1050	105.0	1030	103.0	
Beryllium	50	51.7	103.4	50	52.4	104.8	51.6	103.2	
Cadmium		49.0	98.0	50	50.8	101.6	50.0	100.0	
Calcium	10000	10100	101.0	10000	10500	105.0	10300	103.0	
Chromium	500	521	104.2	500	532	106.4	523	104.6	
Cobalt	200	202	101.0	200	212	106.0	210	105.0	
Copper	500	514	102.8	500	521	104.2	513	102.6	
Iron	4000	4060	101.5	4000	4230	105.8	4120	103.0	
Lead	500	511	102.2	500	518	103.6	510	102.0	
Magnesium	10000	10100	101.0	10000	10300	103.0	10100	101.0	
Manganese	500	511	102.2	500	523	104.6	514	102.8	
Nickel	500	519	103.8	500	530	106.0	519	103.8	
Potassium	50000	48900	97.8	50000	48400	96.8	48800	97.6	
Selenium	400	396	99.0	400	404	101.0	397	99.3	
Silver	400	384	96.0	400	390	97.5	384	96.0	
Sodium	50000	50200	100.4	50000	47800	95.6	48400	96.8	
Thallium	500	458	16.6	500	457	91.4	467	93.4	
Vanadium	1000	1030	103.0	1000	1040	104.0	1020	102.0	
Zinc	1000	1020	102.0	1000	1020	102.0	1010	101.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	Khr
DATE:	6/14/2001
UNITS:	ug/L
ICB Time:	10:32 AM
CCB1 Time:	10:50 AM
CCB2 Time:	11:43 AM
CCB3 Time:	1:08 PM

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	-1.09	-2.39	-1.95	-1.63
Antimony	0.427	0.354	0.331	0.321
Arsenic	-0.899	0.0983	-0.349	0.248
Barium	-0.00233	-0.0418	-0.0378	-0.0487
Beryllium	-0.00414	-0.00408	-0.00348	0.00479
Cadmium	-0.00356	-0.000433	0.0174	-0.00489
Calcium	1.32	-16.9	-5.81	8.8
Chromium	0.118	0.0813	0.163	0.282
Cobalt	-0.0025	0.0351	0.0205	0.053
Copper	0.0658	0.118	0.0975	0.122
Iron	1.14	8.11	4.70	-1.34
Lead	0.228	0.201	-0.0493	0.0549
Magnesium	-0.213	-0.73	-0.32	-0.487
Manganese	0.00252	0.00314	0.00161	-0.00176
Nickel	[illegible]	-0.0761	-0.0191	0.0295
Potassium	57.8	6.49	56.6	191
Selenium	0.743	0.37	1.16	1.08
Silver	0.0775	0.115	0.0735	0.111
Sodium	24.8	1.33	30.5	204
Thallium	5.72	10.4	12.1	1.42
Vanadium	0.0512	0.0566	0.0226	0.0368
Zinc	-0.00973	0.136	-0.208	-1.26

U = Result is less than MDL
B = Result is between MDL and RL

660

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	Khr
DATE:	6/14/2001
UNITS:	ug/L
ICB Time:	10:32 AM
CCB1 Time:	1:28 PM
CCB2 Time:	2:40 PM
CCB3 Time:	4:09 PM

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1	CCB2	CCB3
Aluminum	1.09	0.2[illegible]	0.106	1.97
Antimony	0.42[illegible]	0.176	-0.00931	0.137
Arsenic	0.038[illegible]	0.151	-0.316	0.135
Barium	-0.00223	0.0128	0.0148	0.088
Beryllium	-0.00414	0.00683	0.00309	-0.0054
Cadmium	-0.00356	-0.000545	0.0387	0.018
Calcium	[illegible].12	-0.485	-0.689	5.49
Chromium	0.118	0.127	0.294	0.0629
Cobalt	0.0025	[illegible].6	0.[illegible]3	-.0154
Copper	0.0559	-0.[illegible]78	0.209	[illegible].203
Iron	1.14	0.53[illegible]	-0.19	[illegible].2[illegible]
Lead	0.228	-0.[illegible]63	-0.0235	[illegible].52
Magnesium	0.213	-0.0923	0.0249	0.796
Manganese	0.00252	0.00137	0.00107	0.0107
Nickel	0.0438	0.0437	0.00929	-0.028
Potassium	63.8	116	131	32.7
Selenium	0.743	1.03	1.66	0.549
Silver	0.0775	0.0689	-0.0388	-0.00497
Sodium	24.6	103	123	20.4
Thallium	5.[illegible]2	16.3	4.56	12.1
Vanadium	0.[illegible]2[illegible]	0.[illegible]3[illegible]	-0.[illegible]872	-0.0398
Zinc	0.00[illegible]3	-1.[illegible]	-1.22	-1.1

U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	Khr
DATE:	6/14/2001
UNITS:	ug/L
ICB Time:	10:32 AM
CCB1 Time:	5:07 PM
CCB2 Time:	5:51 PM
CCB3 Time:	7:31 PM

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1	CCB2	CCB3
		1	2	3
Aluminum	1.09	2.76	2.39	[illegible]
Antimony	[illegible]	0.13	0.0467	[illegible]
Arsenic	[illegible]	[illegible]	0.23	0.0122
Barium	-0.00283	0.079	0.052	0.109
Beryllium	0.00174	[illegible]	-0.00107	0.00134
Cadmium	-0.00358	[illegible]	-0.00635	0.0161
Calcium	3.12	-11.9	-2.16	0.706
Chromium	0.118	0.0109	0.0631	0.099
Cobalt	-0.0025	0.0334	0.0167	0.0216
Copper	0.0658	0.0432	0.0924	-0.113
Iron	3.34	4.48	3.86	4.66
Lead	[illegible]	0.16	0.0973	0.0768
Magnesium	[illegible]	[illegible]	1.19	1.25
Manganese	[illegible]	0.00303	0.0122	0.00746
Nickel	[illegible]	0.0448	0.043	0.0323
Potassium	63.8	10.8	12.0	71.3
Selenium	0.742	0.655	1.03	1.26
Silver	[illegible]	-0.00367	0.0553	0.0738
Sodium	24.8	11.3	14.9	50.1
Thallium	5.72	7.40	6.54	1.04
Vanadium	0.0512	-0.0321	-0.0599	0.0278
Zinc	-0.00973	[illegible]	-1.26	-1.25

U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	Khr
DATE:	6/14/2001
UNITS:	ug/L
ICB Time:	10:32 AM
CCB1 Time:	8:15 PM
CCB2 Time:	8:59 PM
CCB3 Time:	9:57 PM

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1	CCB2	CCB3
			2	3
Aluminum	[illegible]	[illegible]	-2.30	2
Antimony	[illegible]	[illegible]	[illegible]	-0.0217
Arsenic	[illegible]	0.0082	0.0527	0.366
Barium	-0.00235	-0.0152	-0.0269	0.0825
Beryllium	0.00474	0.00543	0.00339	0.00702
Cadmium	[illegible]	[illegible]	0.00292	-0.0151
Calcium	[illegible]	[illegible]	-1.46	3.84
Chromium	[illegible]	0.181	0.267	0.093
Cobalt	[illegible]	0.067	0.0455	0.0364
Copper	0.0659	[illegible]	0.110	0.0321
Iron	[illegible]	[illegible]	1.33	1.85
Lead	[illegible]	[illegible]	0.339	[illegible]
Magnesium	[illegible]	0.197	-0.784	.969
Manganese	0.00252	0.00337	0.00352	0.00464
Nickel	-0.0439	0.0433	0.072	0.136
Potassium	63.8	183	169	39.8
Selenium	0.743	0.605	0.573	1.08
Silver	[illegible]	0.132	0.134	0.0912
Sodium	24.8	254	288	83.4
Thallium	[illegible]	10.7	21.1	11.2
Vanadium	[illegible]	-0.0289	0.0372	-0.168
Zinc	[illegible]	[illegible]	-1.29	-1.52

U = Result is less than MDL
B = Result is between MDL and RL

663

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	Khr
DATE:	6/14/2001
UNITS:	ug/L
ICB Time:	10:32 AM
CCB1 Time:	10:55 PM
CCB2 Time:	11:14 PM
CCB3 Time:	11:46 PM

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1	CCB2	CCB3
Aluminum	1.39	1.3	2.22	
Antimony				
Arsenic				
Barium	-0.00235	0.0847	0.057	0.026
Beryllium	-0.00414	0.0069	0.00418	0.00586
Cadmium	-0.00356	0.0222	-0.0146	0.00847
Calcium		4.2	4.86	3.95
Chromium	0.118	0.218	0.139	0.364
Cobalt	-0.0025	0.075	0.0267	0.0544
Copper	0.0658	-0.0836	0.0149	0.0866
Iron		7.35	7.35	10.1
Lead				-0.0405
Magnesium				
Manganese			0.00236	0.00287
Nickel				
Potassium			88.5	53.2
Selenium		0.985	1.06	0.474
Silver		0.102	0.0858	0.11
Sodium	24.8	171	154	45.8
Thallium	5.72	12.8	9.50	15.8
Vanadium	0.0512	0.00806	-0.00849	-0.0689
Zinc	-0.00973	-1.39	-1.45	-1.31

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

ICB Time: 10:32 AM
CCB1 Time: 12:13 AM
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	1.09		1.91					
Antimony	0.42		-0.253					
Arsenic	0.218		0.0572					
Barium	-0.00233		0.05					
Beryllium	0.00454		0.00253					
Cadmium	-0.00356		-0.0015					
Calcium	7.44		6.0					
Chromium	1.1		0.38					
Cobalt	0.0178		0.0215					
Copper	0.0853		-0.0125					
Iron	2.44		9.82					
Lead	0.228		0.1 U					
Magnesium	0.232		0.326					
Manganese	0.00252		0.000646					
Nickel	-0.0439		0.0622					
Potassium	63.8		32.8					
Selenium	0.743		0.346					
Silver	0.0725		0.106					
Sodium	24.8		39.2					
Thallium	5.72		15.6					
Vanadium	0.0512		-0.0615					
Zinc	-0.00973		-1.33					

U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: PE - Optima 3000
METHOD: 6010B
ANALYST: Khr
DATE: 6/14/2001

UNITS: ug/L

Initial ICSA Time: 10:37 AM
Initial ICSAB Time: 10:41 AM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	200000	250000	245000	233000	93.2				
Antimony	0	500	-1.43	457	91.4				
Arsenic	0	250	-1.67	234	93.6				
Barium	0	250	-4.91	220	88.0				
Beryllium	0	250	0.625	253	101.2				
Cadmium	0	500	-0.594	448	89.6				
Calcium	250000	250000	247000	233000	93.2				
Chromium	0	250	2.55	221	88.4				
Cobalt	0	250	5.55	212	84.8				
Copper	0	250	-1.77	231	92.4				
Iron	100000	100000	87300	82700	82.7				
Lead	0	500	-1.44	431	86.2				
Magnesium	250000	250000	244000	230000	92.0				
Manganese	0	250	-4.19	220	88.0				
Nickel	0	500	-0.799	414	82.8				
Potassium	0	5000	119	5350	107.0				
Selenium	0	250	1.02	248	99.2				
Silver	0	500	0.676	481	96.2				
Sodium	0	5000	365	5490	109.8				
Thallium	0	500	41.8	267	53.4				*
Vanadium	0	250	-4.58	218	87.2				
Zinc	0	500	-2.54	426	85.2				

(1) Control Limits: 80-120%

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KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: KHR
DATE: 6/14/2001

UNITS: ug/L

Spiked Sample Time: 3:36 PM
Sample Time: 3:31 PM

Sample ID: 0624401PS 0.9

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	9820		92.9	B	10000	97.3	
Antimony	75-125	946		6.4	U	1000	94.6	
Arsenic	75-125	934		5.8	U	1000	93.4	
Barium	75-125	9090		16.7		10000	90.7	
Beryllium	75-125	974		0.122	B	1000	97.4	
Cadmium	75-125	933		0.71	U	1000	93.3	
Calcium	75-125	10300		786		10000	95.1	
Chromium	75-125	963		1.27	B	1000	96.2	
Cobalt	75-125	954		1.60	B	1000	95.2	
Copper	75-125	985		45.2		1000	94.0	
Iron	75-125	924		22.0	B	1000	90.2	
Lead	75-125	960		7.1	U	1000	96.0	
Magnesium	75-125	9860		440	B	10000	94.2	
Manganese	75-125	973		6.24	B	1000	96.7	
Nickel	75-125	946		3.6	U	1000	94.6	
Potassium	75-125	47900		833	B	50000	94.1	
Selenium	75-125	897		8	U	1000	89.7	
Silver	75-125	193		0.45	U	200	96.5	
Sodium	75-125	50600		2860		50000	95.5	
Thallium	75-125	882	B	21.9	B	1000	86.0	
Vanadium	75-125	944		3.6	U	1000	94.4	
Zinc	75-125	994		43.8		1000	95.0	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

667

KEMRON ENVIRONMENTAL SERVICES
FORM 8 - ICP-AES AND ICP-MS SERIAL DILUTIONS

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: KHR
DATE: 6/14/2001

UNITS: ug/L

Initial Sample Time: 3:45 PM
Serial Dilution Time: 6:40 PM

Sample ID: 0623601 WG99226-01

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q
Aluminum	68.2	B	64.7	B	5.1	
Antimony	6.4	U	6.4	U	0.0	
Arsenic	5.8	U	5.8	U	0.0	
Barium	1.6	U	1.6	U	0.0	
Beryllium	0.035	U	0.035	U	0.0	
Cadmium	0.71	U	0.71	U	0.0	
Calcium	170	B	165	B	2.9	
Chromium	0.57	U	0.57	U	0.0	
Cobalt	0.47	U	0.47	U	0.0	
Copper	1.9	U	1.9	U	0.0	
Iron	241		220		8.7	
Lead	7.1	U	7.1	U	0.0	
Magnesium	9.914	U	9.914	U	0.0	
Manganese	2.34	B	2.42	B	3.4	
Nickel	3.6	U	3.6	U	0.0	
Potassium	250	U	250	U	0.0	
Selenium	8	U	8	U	0.0	
Silver	0.45	U	0.45	U	0.0	
Sodium	150	U	150	U	0.0	
Thallium	11	U	11	U	0.0	
Vanadium	3.6	U	3.6	U	0.0	
Zinc	3.174	U	3.174	U	0.0	

U = Result is below MDL
B = Result is between MDL and RL
E = %RPD exceeds control limit of 10% when initial sample result is greater than or equal to 50 times the MDL

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KEMRON ENVIRONMENTAL SERVICES
9-IN
INSTRUMENT DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 2/28/2000

Units: ug/L

Analyte	Wave-length /Mass	IDL
Aluminum	237.30	9.23
Antimony	206.80	0.57
Arsenic	189.00	0.53
Barium	230.40	0.29
Beryllium	234.90	0.02
Cadmium	228.80	0.03
Calcium	227.50	11.8
Chromium	267.70	0.14
Cobalt	228.60	0.080
Copper	327.40	0.47
Iron	261.40	6.12
Lead	220.40	0.33
Magnesium	279.10	8.52
Manganese	257.60	0.1
Nickel	231.60	0.2
Potassium	404.70	186
Selenium	196.00	1.31
Silver	328.10	0.110
Sodium	330.20	15.4
Thallium	190.80	1.9
Vanadium	292.40	0.22
Zinc	206.20	1.32

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As
Aluminum	237.30	0.0000000	0.0500000	-7.3000000	0.0600000	0.0000000
Antimony	206.80	0.1200000	0.0060000	0.1000000	0.0100000	0.0000000
Arsenic	189.00	-0.0050000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	230.40	-0.0040000	-0.0040000	-0.0100000	0.0000000	0.0000000
Beryllium	234.90	0.0037000	0.0000000	0.0650000	0.0000000	0.0000000
Cadmium	228.80	0.0009000	0.0008000	-0.0010000	0.0008000	0.0000000
Calcium	227.50	-0.1090000	0.0000000	19.0000000	0.0000000	0.0000000
Chromium	267.70	0.0010000	0.0000000	-0.0430000	0.0050000	0.0000000
Cobalt	228.60	-0.0020000	-0.0005000	-0.0200000	-0.0005000	0.0000000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.40	-0.1000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.10	0.1170000	0.1050000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0060000	0.0004000	0.0060000	0.0200000	0.0000000
Molybdenum	202.00	0.0026000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0130000	0.0000000	0.0000000
Potassium	404.70	0.0000000	6.0000000	0.0000000	8.0000000	0.0000000
Selenium	196.00	0.0900500	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	-0.3500000	-0.5000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	-0.0100000	0.0000000	0.0000000
Strontium	232.20	-0.2100000	-0.1000000	-4.7000000	-0.3600000	0.0000000
Thallium	190.80	0.0900000	0.0000000	-0.1000000	0.0000000	-2.6300000
Titanium	337.30	-0.0400000	-0.0400000	-0.0400000	0.0240000	0.0000000
Vanadium	292.40	0.0200000	0.0000000	-0.0800000	0.0000000	0.0000000
Zinc	206.20	0.0400000	0.0000000	0.0700000	0.0100000	0.0000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ba	Be	Cd	Co	Cr
Aluminum	237.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	21.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	-10.0000000
Barium	230.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.2500000
Calcium	227.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0750000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	-0.0240000	-100.00000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.5680000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.5800000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0800000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.6500000	-1.9700000	0.0000000	1.5500000	0.1660000
Titanium	337.30	0.0000000	0.0000000	0.0000000	0.0000000	-7.1000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-1.6000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Mo	Ti	V
Aluminum	237.30	0.0000000	0.0000000	0.0000000	4.5000000	0.0000000
Antimony	206.80	0.0000000	0.3700000	-1.3000000	2.2000000	-0.6600000
Arsenic	189.00	0.0000000	-0.0025000	0.0000000	0.0000000	0.1000000
Barium	230.40	0.0000000	0.0000000	0.0000000	-1.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	-0.1200000	-0.0010000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.3000000	0.1900000
Calcium	227.50	0.0000000	0.0000000	0.0000000	4.5000000	40.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	-6.5000000
Cobalt	228.60	0.0000000	0.0000000	-2.1900000	2.3000000	-0.0700000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.3000000	0.0000000
Iron	261.40	0.0000000	-30.0000000	0.0000000	0.0000000	-3.3000000
Lead	220.40	0.0000000	0.0000000	-2.2600000	-0.7100000	-0.2000000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	5.0000000	4.6000000
Manganese	257.60	0.0000000	0.0000000	0.0900000	0.0700000	-0.0200000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.1600000	-0.0700000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	-0.2000000	0.9400000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	165.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-8.3500000	0.0000000	-7.8000000	1.4000000
Titanium	337.30	0.0000000	-4.7000000	-4.9000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.5000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - Optima 3000

Date: 3/28/2001

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Aluminum	10.00	450000.0
Antimony	10.00	
Arsenic	10.00	2000.0
Barium	10.00	10000.0
Beryllium	10.00	1000.0
Cadmium	10.00	1000.0
Calcium	10.00	1000000.0
Chromium	10.00	10000.0
Cobalt	10.00	10000.0
Copper	10.00	3000.0
Iron	10.00	100000.0
Lead	10.00	100000.0
Magnesium	10.00	500000.0
Manganese	10.00	10000.0
Nickel	10.00	10000.0
Potassium	10.00	190000.0
Selenium	10.00	1000.0
Silver	10.00	1000.0
Sodium	10.00	200000.0
Thallium	10.00	15000.0
Vanadium	10.00	10000.0
Zinc	10.00	10000.0

Comments:

Forma by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;8/n 110163351

Method : SB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	5	QC	ICV 2nd Vendor
6	1	QC	ICB
7	6	QC	ICSA
8	7	QC	ICSAB
9	5	QC	CCV
10	1	QC	CCB
11	9		PBW 4B WG99353-03
12	10		LCSW 4B WG99353-04
13	11		0627002 WG99353-02
14	12		0627002SDL 0.2
15	13		0627002PS 0.9
16	14		0627002DP WG99353-07
17	15		0630821 WG99353-01
18	16		0630821S WG99353-05
19	17		0630821SD WG99353-06
20	5	QC	CCV
21	1	QC	CCB

Box 4B, KR
WG99386
WG 99394

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	18		PBW KR WG99385-03
6	19		LCSW KR WG99385-04
7	20		TC BLK 6/13 0.1
8	21		TC0626601 WG99385-02
9	22		TC0626601SDL 0.2
10	23		TC0626601PS 0.9
11	24		TC0626601DP WG99385-07
12	25		TC0626602
13	26		TC0626603
14	27		TC0626604
15	5	QC	CCV
16	1	QC	CCB
17	28		W0621401 0.1
18	29		W0621402 0.1
19	5	QC	CCV
20	1	QC	CCB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	30		TC BLK F 6/13
6	31		TC0626901
7	32		TC0626901S
8	33		TC0627003
9	34		TC0627004 WG99385-01
10	35		TC0627005S WG99385-05
11	36		TC0627006 SD WG99385-06
12	37		TC0627007
13	38		TC0616302 0.2
14	39		TC0616302PS 0.2
15	5	QC	CCV
16	1	QC	CCB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	40		0624601
6	41		PBW P WG99226-03
7	42		LCSW P WG99226-04
8	43		0624401 WG99226-02
9	44		0624401PS 0.9
10	45		0624401DP WG99226-07
11	46		0623601 WG99226-01
12	47		0623601S WG99226-05
13	48		0623601SD WG99226-06
14	49		0624402
15	5	QC	CCV
16	1	QC	CCB
17	50		0624403
18	51		0624404
19	52		0624405
20	53		0624406
21	54		0624407
22	55		0624408
23	56		0624409
24	57		0624410
25	58		0624411
26	59		0624412
27	5	QC	CCV
28	1	QC	CCB
29	60		0624413
30	61		0624414
31	62		0624415
32	63		0624416
33	64		0624417
34	65		0624418
35	66		0624419
36	5	QC	CCV
37	1	QC	CCB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	9		0623601DL.01 WG99226-01
6	10		PBW GO WG99227-03
7	11		LCSWGO WG99227-04
8	12		0621801
9	13		0623702 WG99227-01
10	14		0623702SDL.2
11	15		0623702PS.9
12	16		0623703S WG99227-05
13	17		0623704SD WG99227-06
14	18		0623901 WG99227-02
15	5	QC	CCV
16	1	QC	CCB
17	19		0623901DP WG99227-07
18	20		0624001DL.2
19	21		0624420
20	22		0624421
21	23		0624422
22	24		0624423
23	25		0624424
24	5	QC	CCV
25	1	QC	CCB

CRC 06.14-01

Carla R. Cochran 6-14-01

Seq.	Loc.		Sample ID
1	1		~~S0~~
2	2		S1 CRC 06-14-01
3	3		~~S2~~
4	4		~~S3~~
5	26		LCSW GO WG99227-03
6	27		0624001DL.1
7	5	QC	CCV
8	1	QC	CCB

Seq.	Loc.	Sample ID
1	1	S0
2	2	S1
3	3	S2
4	4	S3
5	5	CCV
6	1	CCB
7	28	0623705
8	29	0623706
9	30	0623707
10	31	0623608
11	32	PBW JA WG99333-03
12	33	LCSW JA WG99333-04
13	34	0625001
14	35	0625101
15	36	0625102
16	37	0625303 WG99333-02
17	5	CCV
18	1	CCB
19	38	0625303SDL.2
20	39	0625303PS.9
21	40	0625303DP WG99333-07
22	41	0625701
23	42	0625702
24	43	0625801
25	44	0625802
26	45	0626302 WG99333-01
27	46	0626302S WG99333-05
28	47	0626302SD WG99333-06
29	5	CCV
30	1	CCB
31	48	0626305
32	49	0626306
33	5	CCV
34	1	CCB

CRC 06-14-01

06-246-01
06-247-01
06-247-02
06-253-02
04
CCV
CCB
06-253-04 DL.2
06-253-04 DL.1
CCV
CCB
06-237-08DL 0.2
CCV
CCB

6/14/2001 10:05:03 AM Hg ReAlign... Actual peak offset (nm): -0.005
Drift (nm): 0.001 Slit adjustment: 3

6/14/2001 10:07:24 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): -0.000 Slit adjustment: -2

Analysis Begun

Start Time: 6/14/2001 10:08:23 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: SB
IEC File: IEC1.iec
Method Description:

Method Last Saved: 6/14/2001 8:22:22 AM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 10:08:23 AM

Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3885118.9	30917.38	0.80%		
Ag 328.068	1147.1	32.33	2.82%	[0.00]	mg/L
Al 237.312	-2079.2	6.15	0.30%	[0.00]	mg/L
As 188.979	-12.7	0.48	3.77%	[0.00]	mg/L
Ba 230.424	-1303.0	3.57	0.27%	[0.00]	mg/L
Be 234.861	68.6	4.29	6.26%	[0.00]	mg/L
Ca 227.549	-174.3	5.63	3.23%	[0.00]	mg/L
Cd 228.802	105.2	5.25	5.00%	[0.00]	mg/L
Co 228.616	37.3	3.80	10.19%	[0.00]	mg/L
Cr 267.716	280.2	1.65	0.59%	[0.00]	mg/L
Cu 327.396	971.9	3.62	0.37%	[0.00]	mg/L
Fe 261.387	-1665.9	27.34	1.64%	[0.00]	mg/L
Mg 279.079	-1980.6	16.22	0.82%	[0.00]	mg/L
Mn 257.610	-421.1	17.04	4.05%	[0.00]	mg/L
Mo 202.030	4.5	7.58	169.31%	[0.00]	mg/L
Ni 231.604	-530.5	4.96	0.93%	[0.00]	mg/L
Pb 220.353	127.6	9.29	7.28%	[0.00]	mg/L
Sb 206.833	80.3	6.99	8.70%	[0.00]	mg/L
Se 196.026	-57.0	9.99	17.54%	[0.00]	mg/L
Si 288.158	1319.7	7.80	0.59%	[0.00]	mg/L
Sn 189.933	107.7	3.48	3.23%	[0.00]	mg/L
Ti 337.280	-822.6	102.17	12.42%	[0.00]	mg/L
Tl 190.800	-0.8	1.57	198.19%	[0.00]	mg/L
V 292.402	-593.6	2.71	0.46%	[0.00]	mg/L
Zn 206.200	833.1	10.16	1.22%	[0.00]	mg/L
K 766.490	1795.6	310.68	17.30%	[0.00]	mg/L
Na 589.592	2344.1	112.20	4.79%	[0.00]	mg/L
Sr 407.771	307.2	30.00	9.76%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:

Autosampler Location: 2
Date Collected: 6/14/2001 10:13:13 AM

Sample Prep Volume:

681

Dilution: Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	3875441.9	19310.89	0.50%		
Ag 328.068	2461.7	89.99	3.66%	[0.0040]	mg/L
Al 237.312	1334.4	18.84	1.41%	[0.10]	mg/L
As 188.979	53.7	8.64	16.07%	[0.0040]	mg/L
Ba 230.424	3304.6	10.04	0.30%	[0.010]	mg/L
Be 234.861	742.0	2.70	0.36%	[0.00050]	mg/L
Ca 227.549	111.9	1.08	0.96%	[0.10]	mg/L
Cd 228.802	189.3	0.98	0.52%	[0.00050]	mg/L
Co 228.616	360.5	1.34	0.37%	[0.0020]	mg/L
Cr 267.716	1763.9	7.38	0.42%	[0.0050]	mg/L
Cu 327.396	1865.2	10.86	0.58%	[0.0050]	mg/L
Fe 261.387	414.3	9.66	2.33%	[0.040]	mg/L
Mg 279.079	5206.1	62.85	1.21%	[0.10]	mg/L
Mn 257.610	9760.4	59.58	0.61%	[0.0050]	mg/L
Mo 202.030	1052.0	8.19	0.78%	[0.010]	mg/L
Ni 231.604	947.2	5.37	0.57%	[0.0050]	mg/L
Pb 220.353	144.9	5.01	3.46%	[0.0050]	mg/L
Sb 206.833	350.2	3.40	0.97%	[0.012]	mg/L
Se 196.026	46.5	0.22	0.47%	[0.0040]	mg/L
Si 288.158	4522.0	37.98	0.84%	[0.050]	mg/L
Sn 189.933	158.7	3.19	2.01%	[0.010]	mg/L
Ti 337.280	16913.3	122.73	0.73%	[0.010]	mg/L
Tl 190.800	0.7	1.95	281.21%	[0.0050]	mg/L
V 292.402	2488.9	44.74	1.80%	[0.010]	mg/L
Zn 206.200	3814.5	22.35	0.59%	[0.010]	mg/L
K 766.490	6508.0	159.39	2.45%	[0.50]	mg/L
Na 589.592	19035.2	183.09	0.96%	[0.50]	mg/L
Sr 407.771	10486.2	71.15	0.68%	[0.010]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	615400	0.00000	1.000000	
Al 237.312	1	Lin Thru 0	0.0	13340	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	13430	0.00000	1.000000	
Ba 230.424	1	Lin Thru 0	0.0	330500	0.00000	1.000000	
Be 234.861	1	Lin Thru 0	0.0	1484000	0.00000	1.000000	
Ca 227.549	1	Lin Thru 0	0.0	1119	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	378600	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	180200	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	352800	0.00000	1.000000	
Cu 327.396	1	Lin Thru 0	0.0	373000	0.00000	1.000000	
Fe 261.387	1	Lin Thru 0	0.0	10360	0.00000	1.000000	
Mg 279.079	1	Lin Thru 0	0.0	52060	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	1952000	0.00000	1.000000	
Mo 202.030	1	Lin Thru 0	0.0	105200	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	189400	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	28970	0.00000	1.000000	
Sb 206.833	1	Lin Thru 0	0.0	29180	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	11630	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	90440	0.00000	1.000000	
Sn 189.933	1	Lin Thru 0	0.0	15870	0.00000	1.000000	
Ti 337.280	1	Lin Thru 0	0.0	1691000	0.00000	1.000000	
Tl 190.800	1	Lin Thru 0	0.0	138.8	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	248900	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	381500	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	13020	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	38070	0.00000	1.000000	
Sr 407.771	1	Lin, Calc Int	0.0	1049000	0.00000	1.000000	

Sequence No.: 3
Sample ID: S2
Analyst:

Autosampler Location: 3
Date Collected: 6/14/2001 10:18:05 AM

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Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	4189600.8	8445.27	0.20%		
Ag 328.068	267081.6	36.20	0.01%	[0.40]	mg/L
Al 237.312	143047.1	145.31	0.10%	[10.00]	mg/L
As 188.979	6687.3	11.28	0.17%	[0.40]	mg/L
Ba 230.424	344569.0	109.37	0.03%	[1.00]	mg/L
Be 234.861	78275.1	70.96	0.09%	[0.05]	mg/L
Ca 227.549	12178.5	31.13	0.26%	[10.00]	mg/L
Cd 228.802	19778.3	20.74	0.10%	[0.05]	mg/L
Co 228.616	36231.0	160.96	0.44%	[0.20]	mg/L
Cr 267.716	170876.4	177.11	0.10%	[0.50]	mg/L
Cu 327.396	200968.4	149.24	0.07%	[0.50]	mg/L
Fe 261.387	90501.2	395.30	0.44%	[4.00]	mg/L
Mg 279.079	574044.8	759.38	0.13%	[10.00]	mg/L
Mn 257.610	995137.3	128.26	0.01%	[0.50]	mg/L
Mo 202.030	114913.2	161.95	0.14%	[1.00]	mg/L
Ni 231.604	93147.0	248.44	0.27%	[0.50]	mg/L
Pb 220.353	14774.5	18.49	0.13%	[0.50]	mg/L
Sb 206.833	34953.9	19.06	0.05%	[1.20]	mg/L
Se 196.026	6163.9	6.84	0.11%	[0.40]	mg/L
Si 288.158	515238.8	82.39	0.02%	[5.00]	mg/L
Sn 189.933	26523.4	168.68	0.64%	[1.00]	mg/L
Ti 337.280	1730524.6	33.48	0.00%	[1.00]	mg/L
Tl 190.800	64.3	0.82	1.27%	[0.50]	mg/L
V 292.402	285426.6	215.25	0.08%	[1.00]	mg/L
Zn 206.200	347577.9	432.84	0.12%	[1.00]	mg/L
K 766.490	732098.7	2348.11	0.32%	[50.00]	mg/L
Na 589.592	1992267.0	2987.91	0.15%	[50.00]	mg/L
Sr 407.771	1085885.0	3391.63	0.31%	[1.00]	mg/L

==========

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/14/2001 10:22:57 AM

Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	4130938.1	16321.35	0.40%		
Ag 328.068	539999.5	2461.97	0.46%	[0.80]	mg/L
Al 237.312	291894.1	959.38	0.33%	[20.00]	mg/L
As 188.979	13711.4	162.89	1.19%	[0.80]	mg/L
Ba 230.424	679365.6	1416.32	0.21%	[2.00]	mg/L
Be 234.861	154257.7	623.12	0.40%	[0.10]	mg/L
Ca 227.549	24029.3	231.57	0.96%	[20.00]	mg/L
Cd 228.802	40131.0	194.99	0.49%	[0.10]	mg/L
Co 228.616	71930.9	13.80	0.02%	[0.40]	mg/L
Cr 267.716	334770.2	696.34	0.21%	[1.00]	mg/L
Cu 327.396	398522.1	2370.03	0.59%	[1.00]	mg/L
Fe 261.387	182351.0	415.65	0.23%	[8.00]	mg/L
Mg 279.079	1178578.6	2383.29	0.20%	[20.00]	mg/L
Mn 257.610	1953369.4	6213.06	0.32%	[1.00]	mg/L
Mo 202.030	226536.9	517.46	0.23%	[2.00]	mg/L
Ni 231.604	184228.9	488.69	0.27%	[1.00]	mg/L
Pb 220.353	29653.3	109.71	0.37%	[1.00]	mg/L
Sb 206.833	70889.6	297.03	0.42%	[2.40]	mg/L
Se 196.026	12435.9	188.61	1.52%	[0.80]	mg/L
Si 288.158	1008175.9	3165.85	0.31%	[10.00]	mg/L
Sn 189.933	54935.7	257.41	0.47%	[2.00]	mg/L
Ti 337.280	3398613.9	10106.20	0.30%	[2.00]	mg/L
Tl 190.800	140.4	1.98	1.41%	[1.00]	mg/L
V 292.402	565886.7	1567.63	0.28%	[2.00]	mg/L

Zn 206.200	691508.7	225.72	0.03%	[2.00] mg/L
K 766.490	1519100.5	19344.71	1.27%	[100.00] mg/L
Na 589.592	4006695.8	66160.10	1.65%	[100.00] mg/L
Sr 407.771	2191059.9	43621.13	1.99%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	673500	0.00000	0.999991	
Al 237.312	3	Lin Thru 0	0.0	14540	0.00000	0.999968	
As 188.979	3	Lin Thru 0	0.0	17050	0.00000	0.999951	
Ba 230.424	3	Lin Thru 0	0.0	340700	0.00000	0.999984	
Be 234.861	3	Lin Thru 0	0.0	1547000	0.00000	0.999982	
Ca 227.549	3	Lin Thru 0	0.0	1205	0.00000	0.999985	
Cd 228.802	3	Lin Thru 0	0.0	400200	0.00000	0.999983	
Co 228.616	3	Lin Thru 0	0.0	180100	0.00000	0.999996	
Cr 267.716	3	Lin Thru 0	0.0	336200	0.00000	0.999965	
Cu 327.396	3	Lin Thru 0	0.0	399200	0.00000	0.999994	
Fe 261.387	3	Lin Thru 0	0.0	22760	0.00000	0.999993	
Mg 279.079	3	Lin Thru 0	0.0	58620	0.00000	0.999946	
Mn 257.610	3	Lin Thru 0	0.0	1961000	0.00000	0.999972	
Mo 202.030	3	Lin Thru 0	0.0	113600	0.00000	0.999983	
Ni 231.604	3	Lin Thru 0	0.0	184600	0.00000	0.999990	
Pb 220.353	3	Lin Thru 0	0.0	29630	0.00000	0.999999	
Sb 206.833	3	Lin Thru 0	0.0	29460	0.00000	0.999985	
Se 196.026	3	Lin Thru 0	0.0	15520	0.00000	0.999993	
Si 288.158	3	Lin Thru 0	0.0	101300	0.00000	0.999961	
Sn 189.933	3	Lin Thru 0	0.0	27280	0.00000	0.999902	
Ti 337.280	3	Lin Thru 0	0.0	1706000	0.00000	0.999973	
Tl 190.800	3	Lin Thru 0	0.0	138.1	0.00000	0.999411	
V 292.402	3	Lin Thru 0	0.0	283400	0.00000	0.999994	
Zn 206.200	3	Lin Thru 0	0.0	346100	0.00000	0.999998	
K 766.490	3	Lin Thru 0	0.0	15080	0.00000	0.999894	
Na 589.592	3	Lin Thru 0	0.0	40020	0.00000	0.999998	
Sr 407.771	3	Lin, Calc Int	-1967.6	1095000	0.00000	0.999990	

Sequence No.: 5
Sample ID: ICV 2nd Vendor
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 10:27:16 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4172316.8						39288.51	0.94%
Ag 328.068	258794.2	0.384	mg/L	0.0043	0.384	mg/L	0.0043	1.12%
QC value within limits for Ag 328.068 Recovery = 96.06%								
Al 237.312	145182.3	10.0	mg/L	0.08	10.0	mg/L	0.08	0.80%
QC value within limits for Al 237.312 Recovery = 100.11%								
As 188.979	6635.0	0.387	mg/L	0.0005	0.387	mg/L	0.0005	0.13%
QC value within limits for As 188.979 Recovery = 96.76%								
Ba 230.424	352676.4	1.03	mg/L	0.008	1.03	mg/L	0.008	0.77%
QC value within limits for Ba 230.424 Recovery = 103.25%								
Be 234.861	80276.2	0.0517	mg/L	0.00043	0.0517	mg/L	0.00043	0.83%
QC value within limits for Be 234.861 Recovery = 103.39%								
Ca 227.549	12355.5	10.1	mg/L	0.05	10.1	mg/L	0.05	0.45%
QC value within limits for Ca 227.549 Recovery = 101.35%								
Cd 228.802	20212.7	0.0490	mg/L	0.00019	0.0490	mg/L	0.00019	0.39%
QC value within limits for Cd 228.802 Recovery = 97.93%								
Co 228.616	37652.7	0.208	mg/L	0.0009	0.208	mg/L	0.0009	0.46%
QC value within limits for Co 228.616 Recovery = 103.92%								
Cr 267.716	173011.5	0.521	mg/L	0.0042	0.521	mg/L	0.0042	0.81%
QC value within limits for Cr 267.716 Recovery = 104.29%								
Cu 327.396	205213.3	0.514	mg/L	0.0056	0.514	mg/L	0.0056	1.09%
QC value within limits for Cu 327.396 Recovery = 102.75%								
Fe 261.387	91485.8	4.06	mg/L	0.019	4.06	mg/L	0.019	0.47%
QC value within limits for Fe 261.387 Recovery = 101.48%								

Mg 279.079	590092.8	10.1 mg/L	0.06	10.1 mg/L	0.06	0.57%
QC value within limits for Mg 279.079 Recovery = 100.54%						
Mn 257.610	1002424.5	0.511 mg/L	0.0040	0.511 mg/L	0.0040	0.79%
QC value within limits for Mn 257.610 Recovery = 102.10%						
Mo 202.030	114849.5	1.01 mg/L	0.008	1.01 mg/L	0.008	0.80%
QC value within limits for Mo 202.030 Recovery = 101.61%						
Ni 231.604	95857.7	0.519 mg/L	0.0032	0.519 mg/L	0.0032	0.62%
QC value within limits for Ni 231.604 Recovery = 103.90%						
Pb 220.353	15009.4	0.511 mg/L	0.0012	0.511 mg/L	0.0012	0.24%
QC value within limits for Pb 220.353 Recovery = 102.18%						
Sb 206.833	35586.3	1.20 mg/L	0.004	1.20 mg/L	0.004	0.30%
QC value within limits for Sb 206.833 Recovery = 99.62%						
Se 196.026	6175.5	0.396 mg/L	0.0011	0.396 mg/L	0.0011	0.29%
QC value within limits for Se 196.026 Recovery = 99.10%						
Si 288.158	509410.0	5.04 mg/L	0.044	5.04 mg/L	0.044	0.87%
QC value within limits for Si 288.158 Recovery = 100.78%						
Sn 189.933	27319.4	1.01 mg/L	0.007	1.01 mg/L	0.007	0.71%
QC value within limits for Sn 189.933 Recovery = 100.83%						
Ti 337.280	1709869.3	1.01 mg/L	0.010	1.01 mg/L	0.010	0.96%
QC value within limits for Ti 337.280 Recovery = 100.62%						
Tl 190.800	66.9	0.484 mg/L	0.0184	0.484 mg/L	0.0184	3.81%
QC value within limits for Tl 190.800 Recovery = 96.89%						
V 292.402	291404.0	1.03 mg/L	0.010	1.03 mg/L	0.010	0.93%
QC value within limits for V 292.402 Recovery = 102.77%						
Zn 206.200	354632.1	1.02 mg/L	0.001	1.02 mg/L	0.001	0.09%
QC value within limits for Zn 206.200 Recovery = 102.46%						
K 766.490	737544.3	48.9 mg/L	0.35	48.9 mg/L	0.35	0.72%
QC value within limits for K 766.490 Recovery = 97.75%						
Na 589.592	2007688.0	50.2 mg/L	0.22	50.2 mg/L	0.22	0.44%
QC value within limits for Na 589.592 Recovery = 100.33%						
Sr 407.771	1100975.5	1.01 mg/L	0.006	1.01 mg/L	0.006	0.61%
QC value within limits for Sr 407.771 Recovery = 100.75%						

All analytes passed QC.

Sequence No.: 6
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 10:32:10 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3851917.4						47999.01	1.25%
Ag 328.068	52.2	0.00008	mg/L	0.000062	0.00008	mg/L	0.000062	79.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-16.0	-0.00109	mg/L	0.001247	-0.00109	mg/L	0.001247	114.04%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-0.6	-0.00004	mg/L	0.000156	-0.00004	mg/L	0.000156	405.82%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	1.1	0.00000	mg/L	0.000015	0.00000	mg/L	0.000015	642.33%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-6.6	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	18.12%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	1.4	0.00112	mg/L	0.000416	0.00112	mg/L	0.000416	37.02%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-1.4	0.00000	mg/L	0.000016	0.00000	mg/L	0.000016	446.71%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-0.7	0.00000	mg/L	0.000012	0.00000	mg/L	0.000012	467.98%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	39.5	0.00012	mg/L	0.000005	0.00012	mg/L	0.000005	4.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	26.3	0.00007	mg/L	0.000090	0.00007	mg/L	0.000090	137.26%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	26.0	0.00114	mg/L	0.000382	0.00114	mg/L	0.000382	33.43%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-12.5	-0.00021	mg/L	0.000011	-0.00021	mg/L	0.000011	5.28%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	5.3	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	30.18%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	168.3	0.00148 mg/L	0.000040	0.00148 mg/L	0.000040	2.67%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	-8.1	-0.00004 mg/L	0.000046	-0.00004 mg/L	0.000046	104.41%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	6.7	0.00023 mg/L	0.000077	0.00023 mg/L	0.000077	33.79%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	12.4	0.00043 mg/L	0.000066	0.00043 mg/L	0.000066	15.48%
QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	11.5	0.00074 mg/L	0.000071	0.00074 mg/L	0.000071	9.56%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 288.158	405.2	0.00400 mg/L	0.000300	0.00400 mg/L	0.000300	7.49%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	328.5	0.0120 mg/L	0.00108	0.0120 mg/L	0.00108	8.98%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	18.6	0.00001 mg/L	0.000028	0.00001 mg/L	0.000028	254.71%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	0.8	0.00572 mg/L	0.002387	0.00572 mg/L	0.002387	41.73%
QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	14.5	0.00005 mg/L	0.000002	0.00005 mg/L	0.000002	4.83%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200	-3.4	-0.00001 mg/L	0.000060	-0.00001 mg/L	0.000060	613.32%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490	962.7	0.0638 mg/L	0.01682	0.0638 mg/L	0.01682	26.35%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592	991.9	0.0248 mg/L	0.00057	0.0248 mg/L	0.00057	2.29%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771	12.4	0.00181 mg/L	0.000049	0.00181 mg/L	0.000049	2.71%
QC value within limits for Sr 407.771 Recovery = Not calculated							

All analytes passed QC.

Sequence No.: 7
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/14/2001 10:37:00 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3720203.1						80740.15	2.17%
Ag 328.068	455.4	0.00068	mg/L	0.000117	0.00068	mg/L	0.000117	17.29%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	3551843.0	245	mg/L	6.2	245	mg/L	6.2	2.54%
QC value within limits for Al 237.312 Recovery = 97.98%								
As 188.979	-45.0	-0.00167	mg/L	0.003545	-0.00167	mg/L	0.003545	212.66%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-2645.4	-0.00491	mg/L	0.000012	-0.00491	mg/L	0.000012	0.25%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	11634.1	0.00062	mg/L	0.000151	0.00062	mg/L	0.000151	24.24%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	298943.3	247	mg/L	6.4	247	mg/L	6.4	2.59%
QC value within limits for Ca 227.549 Recovery = 98.60%								
Cd 228.802	-29.5	-0.00059	mg/L	0.000023	-0.00059	mg/L	0.000023	3.93%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	609.3	0.00585	mg/L	0.000351	0.00585	mg/L	0.000351	6.01%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	103.6	0.00255	mg/L	0.000311	0.00255	mg/L	0.000311	12.16%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-705.4	-0.00177	mg/L	0.000175	-0.00177	mg/L	0.000175	9.87%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	1986469.7	87.3	mg/L	1.85	87.3	mg/L	1.85	2.12%
QC value within limits for Fe 261.387 Recovery = 87.28%								
Mg 279.079	14288676.8	244	mg/L	3.1	244	mg/L	3.1	1.27%
QC value within limits for Mg 279.079 Recovery = 97.47%								
Mn 257.610	5445.0	-0.00419	mg/L	0.000101	-0.00419	mg/L	0.000101	2.42%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	-162.4	-0.00207	mg/L	0.000163	-0.00207	mg/L	0.000163	7.89%
QC value within limits for Mo 202.030 Recovery = Not calculated								

Ni 231.604	-357.1	-0.00080 mg/L	0.000095	-0.00080 mg/L	0.000095	11.87%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	-672.5	-0.00144 mg/L	0.000666	-0.00144 mg/L	0.000666	46.23%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	1047.9	-0.00643 mg/L	0.002372	-0.00643 mg/L	0.002372	36.90%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	319.0	0.00102 mg/L	0.016445	0.00102 mg/L	0.016445	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	10582.6	0.314 mg/L	0.0081	0.314 mg/L	0.0081	2.58%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	640.9	0.00646 mg/L	0.001957	0.00646 mg/L	0.001957	30.30%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	8634.4	0.0224 mg/L	0.00058	0.0224 mg/L	0.00058	2.60%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	5.8	0.0418 mg/L	0.00160	0.0418 mg/L	0.00160	3.83%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated						
V 292.402	-1891.4	-0.00458 mg/L	0.000201	-0.00458 mg/L	0.000201	4.39%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	5460.0	-0.00254 mg/L	0.000110	-0.00254 mg/L	0.000110	4.32%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	12824.2	0.119 mg/L	0.1256	0.119 mg/L	0.1256	105.44%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	14605.4	0.365 mg/L	0.0002	0.365 mg/L	0.0002	0.05%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	8060.8	0.00916 mg/L	0.000053	0.00916 mg/L	0.000053	0.58%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/14/2001 10:41:19 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4374379.8						166205.24	3.80%
Ag 328.068	324235.6	0.481	mg/L	0.0057	0.481	mg/L	0.0057	1.17%
QC value within limits for Ag 328.068 Recovery = 96.28%								
Al 237.312	3376276.8	233	mg/L	3.2	233	mg/L	3.2	1.39%
QC value within limits for Al 237.312 Recovery = 93.13%								
As 188.979	3939.7	0.234	mg/L	0.0043	0.234	mg/L	0.0043	1.85%
QC value within limits for As 188.979 Recovery = 93.63%								
Ba 230.424	74001.1	0.220	mg/L	0.0030	0.220	mg/L	0.0030	1.37%
QC value within limits for Ba 230.424 Recovery = 87.97%								
Be 234.861	401909.1	0.253	mg/L	0.0035	0.253	mg/L	0.0035	1.38%
QC value within limits for Be 234.861 Recovery = 101.29%								
Ca 227.549	282676.7	233	mg/L	3.4	233	mg/L	3.4	1.45%
QC value within limits for Ca 227.549 Recovery = 93.23%								
Cd 228.802	179643.1	0.448	mg/L	0.0071	0.448	mg/L	0.0071	1.58%
QC value within limits for Cd 228.802 Recovery = 89.56%								
Co 228.616	37761.1	0.212	mg/L	0.0040	0.212	mg/L	0.0040	1.90%
QC value within limits for Co 228.616 Recovery = 84.81%								
Cr 267.716	73073.6	0.221	mg/L	0.0032	0.221	mg/L	0.0032	1.47%
QC value within limits for Cr 267.716 Recovery = 88.38%								
Cu 327.396	92276.5	0.231	mg/L	0.0028	0.231	mg/L	0.0028	1.21%
QC value within limits for Cu 327.396 Recovery = 92.46%								
Fe 261.387	1881990.0	82.7	mg/L	1.10	82.7	mg/L	1.10	1.33%
QC value within limits for Fe 261.387 Recovery = 82.72%								
Mg 279.079	13505355.6	230	mg/L	2.5	230	mg/L	2.5	1.07%
QC value within limits for Mg 279.079 Recovery = 92.13%								
Mn 257.610	444877.7	0.220	mg/L	0.0030	0.220	mg/L	0.0030	1.37%
QC value within limits for Mn 257.610 Recovery = 88.07%								
Mo 202.030	-146.1	-0.00189	mg/L	0.000540	-0.00189	mg/L	0.000540	28.57%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	76163.4	0.414	mg/L	0.0061	0.414	mg/L	0.0061	1.48%
QC value within limits for Ni 231.604 Recovery = 82.72%								
Pb 220.353	12179.0	0.431	mg/L	0.0112	0.431	mg/L	0.0112	2.60%

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	QC value within limits for Pb 220.353 Recovery = 86.28%						
Sb 206.833	14754.0	0.457 mg/L	0.0141	0.457 mg/L	0.0141	3.09%	
	QC value within limits for Sb 206.833 Recovery = 91.30%						
Se 196.026	4135.2	0.248 mg/L	0.0013	0.248 mg/L	0.0013	0.54%	
	QC value within limits for Se 196.026 Recovery = 99.08%						
Si 288.158	1951.0	0.218 mg/L	0.0038	0.218 mg/L	0.0038	1.74%	
	QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	187.5	-0.00933 mg/L	0.000942	-0.00933 mg/L	0.000942	10.09%	
	QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	8089.9	0.0223 mg/L	0.00045	0.0223 mg/L	0.00045	2.04%	
	QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	36.9	0.267 mg/L	0.0144	0.267 mg/L	0.0144	5.40%	
	QC value less than the lower limit for Tl 190.800 Recovery = 53.44%						
V 292.402	61305.2	0.218 mg/L	0.0029	0.218 mg/L	0.0029	1.33%	
	QC value within limits for V 292.402 Recovery = 87.30%						
Zn 206.200	153319.3	0.426 mg/L	0.0077	0.426 mg/L	0.0077	1.82%	
	QC value within limits for Zn 206.200 Recovery = 85.19%						
K 766.490	91135.8	5.35 mg/L	0.009	5.35 mg/L	0.009	0.17%	
	QC value within limits for K 766.490 Recovery = 107.04%						
Na 589.592	219702.1	5.49 mg/L	0.231	5.49 mg/L	0.231	4.20%	
	QC value within limits for Na 589.592 Recovery = 109.79%						
Sr 407.771	7742.0	0.00887 mg/L	0.000031	0.00887 mg/L	0.000031	0.35%	
	QC value within limits for Sr 407.771 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 9 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 6/14/2001 10:45:41 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	4174791.1						11718.38	0.28%
Ag 328.068	258929.6	0.384	mg/L	0.0024	0.384	mg/L	0.0024	0.62%
	QC value within limits for Ag 328.068 Recovery = 96.11%							
Al 237.312	144708.1	9.98	mg/L	0.054	9.98	mg/L	0.054	0.54%
	QC value within limits for Al 237.312 Recovery = 99.79%							
As 188.979	6512.8	0.380	mg/L	0.0004	0.380	mg/L	0.0004	0.10%
	QC value within limits for As 188.979 Recovery = 94.98%							
Ba 230.424	353413.0	1.03	mg/L	0.004	1.03	mg/L	0.004	0.39%
	QC value within limits for Ba 230.424 Recovery = 103.47%							
Be 234.861	81624.7	0.0526	mg/L	0.00016	0.0526	mg/L	0.00016	0.30%
	QC value within limits for Be 234.861 Recovery = 105.13%							
Ca 227.549	12148.6	9.96	mg/L	0.024	9.96	mg/L	0.024	0.24%
	QC value within limits for Ca 227.549 Recovery = 99.63%							
Cd 228.802	19805.5	0.0480	mg/L	0.00019	0.0480	mg/L	0.00019	0.39%
	QC value within limits for Cd 228.802 Recovery = 95.92%							
Co 228.616	37810.7	0.209	mg/L	0.0008	0.209	mg/L	0.0008	0.36%
	QC value within limits for Co 228.616 Recovery = 104.36%							
Cr 267.716	172723.1	0.521	mg/L	0.0016	0.521	mg/L	0.0016	0.31%
	QC value within limits for Cr 267.716 Recovery = 104.12%							
Cu 327.396	205218.3	0.514	mg/L	0.0030	0.514	mg/L	0.0030	0.59%
	QC value within limits for Cu 327.396 Recovery = 102.75%							
Fe 261.387	91795.6	4.07	mg/L	0.024	4.07	mg/L	0.024	0.60%
	QC value within limits for Fe 261.387 Recovery = 101.82%							
Mg 279.079	589794.7	10.0	mg/L	0.05	10.0	mg/L	0.05	0.51%
	QC value within limits for Mg 279.079 Recovery = 100.49%							
Mn 257.610	1003684.1	0.511	mg/L	0.0019	0.511	mg/L	0.0019	0.37%
	QC value within limits for Mn 257.610 Recovery = 102.23%							
Mo 202.030	114047.6	1.00	mg/L	0.002	1.00	mg/L	0.002	0.25%
	QC value within limits for Mo 202.030 Recovery = 100.90%							
Ni 231.604	95502.3	0.518	mg/L	0.0021	0.518	mg/L	0.0021	0.41%
	QC value within limits for Ni 231.604 Recovery = 103.51%							
Pb 220.353	14713.7	0.501	mg/L	0.0010	0.501	mg/L	0.0010	0.20%
	QC value within limits for Pb 220.353 Recovery = 100.18%							
Sb 206.833	34972.4	1.18	mg/L	0.004	1.18	mg/L	0.004	0.33%
	QC value within limits for Sb 206.833 Recovery = 97.89%							

Se 196.026	6038.8	0.388 mg/L	0.0011	0.388 mg/L	0.0011	0.28%
QC value within limits for Se 196.026 Recovery = 96.90%						
Si 288.158	508418.2	5.03 mg/L	0.025	5.03 mg/L	0.025	0.49%
QC value within limits for Si 288.158 Recovery = 100.59%						
Sn 189.933	25374.1	0.935 mg/L	0.0037	0.935 mg/L	0.0037	0.40%
QC value within limits for Sn 189.933 Recovery = 93.69%						
Ti 337.280	1710259.6	1.01 mg/L	0.005	1.01 mg/L	0.005	0.48%
QC value within limits for Ti 337.280 Recovery = 100.64%						
Tl 190.800	67.8	0.491 mg/L	0.0082	0.491 mg/L	0.0082	1.67%
QC value within limits for Tl 190.800 Recovery = 98.15%						
V 292.402	292379.5	1.03 mg/L	0.006	1.03 mg/L	0.006	0.58%
QC value within limits for V 292.402 Recovery = 103.12%						
Zn 206.200	355078.0	1.03 mg/L	0.004	1.03 mg/L	0.004	0.42%
QC value within limits for Zn 206.200 Recovery = 102.59%						
K 766.490	710711.4	47.1 mg/L	0.28	47.1 mg/L	0.28	0.59%
QC value within limits for K 766.490 Recovery = 94.19%						
Na 589.592	1936499.0	48.4 mg/L	0.43	48.4 mg/L	0.43	0.89%
QC value within limits for Na 589.592 Recovery = 96.77%						
Sr 407.771	1068932.6	0.978 mg/L	0.0114	0.978 mg/L	0.0114	1.17%
QC value within limits for Sr 407.771 Recovery = 97.82%						

All analytes passed QC.

Sequence No.: 10
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 10:50:36 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3876867.8						37954.21	0.98%
Ag 328.068	77.4	0.00011	mg/L	0.000007	0.00011	mg/L	0.000007	5.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-35.7	-0.00239	mg/L	0.000783	-0.00239	mg/L	0.000783	32.68%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.7	0.00010	mg/L	0.000381	0.00010	mg/L	0.000381	387.43%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-12.9	-0.00004	mg/L	0.000009	-0.00004	mg/L	0.000009	21.20%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-5.7	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	85.81%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-20.2	-0.0169	mg/L	0.01010	-0.0169	mg/L	0.01010	59.63%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-0.1	0.00000	mg/L	0.000007	0.00000	mg/L	0.000007	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	6.1	0.00004	mg/L	0.000055	0.00004	mg/L	0.000055	156.67%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	27.1	0.00008	mg/L	0.000014	0.00008	mg/L	0.000014	16.94%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	47.2	0.00012	mg/L	0.000040	0.00012	mg/L	0.000040	33.59%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	184.5	0.00811	mg/L	0.000951	0.00811	mg/L	0.000951	11.73%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-7.7	-0.00013	mg/L	0.000104	-0.00013	mg/L	0.000104	80.12%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	4.5	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	78.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	120.3	0.00106	mg/L	0.000086	0.00106	mg/L	0.000086	8.11%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	-14.1	-0.00008	mg/L	0.000024	-0.00008	mg/L	0.000024	31.35%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	5.9	0.00020	mg/L	0.000116	0.00020	mg/L	0.000116	57.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	10.4	0.00035	mg/L	0.000122	0.00035	mg/L	0.000122	34.33%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	5.7	0.00037	mg/L	0.000660	0.00037	mg/L	0.000660	178.20%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	323.1	0.00318	mg/L	0.000928	0.00318	mg/L	0.000928	29.16%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	216.9	0.00795 mg/L	0.000454	0.00795 mg/L	0.000454	5.71%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	39.3	0.00002 mg/L	0.000012	0.00002 mg/L	0.000012	54.45%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	1.4	0.0104 mg/L	0.00214	0.0104 mg/L	0.00214	20.56%

QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated

V 292.402	15.8	0.00006 mg/L	0.000163	0.00006 mg/L	0.000163	287.94%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	47.2	0.00014 mg/L	0.000006	0.00014 mg/L	0.000006	4.55%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	97.9	0.00649 mg/L	0.008040	0.00649 mg/L	0.008040	123.85%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	53.3	0.00133 mg/L	0.001690	0.00133 mg/L	0.001690	127.03%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771	14.7	0.00181 mg/L	0.000002	0.00181 mg/L	0.000002	0.10%

QC value within limits for Sr 407.771 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 11 **Autosampler Location: 9**
Sample ID: PBW 4B WG99353-03 **Date Collected: 6/14/2001 10:55:26 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: PBW 4B WG99353-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3926198.1						4763.36	0.12%
Ag 328.068	95.8	0.00014	mg/L	0.000014	0.00014	mg/L	0.000014	10.16%
Al 237.312	-55.2	-0.00375	mg/L	0.000058	-0.00375	mg/L	0.000058	1.54%
As 188.979	7.9	0.00046	mg/L	0.000232	0.00046	mg/L	0.000232	49.90%
Ba 230.424	13.6	0.00004	mg/L	0.000019	0.00004	mg/L	0.000019	48.65%
Be 234.861	-5.2	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	54.26%
Ca 227.549	1.5	0.00110	mg/L	0.018800	0.00110	mg/L	0.018800	>999.9%
Cd 228.802	-2.8	-0.00001	mg/L	0.000000	-0.00001	mg/L	0.000000	0.02%
Co 228.616	-4.1	-0.00002	mg/L	0.000004	-0.00002	mg/L	0.000004	17.92%
Cr 267.716	31.3	0.00009	mg/L	0.000042	0.00009	mg/L	0.000042	44.83%
Cu 327.396	70.1	0.00018	mg/L	0.000008	0.00018	mg/L	0.000008	4.53%
Fe 261.387	167.0	0.00734	mg/L	0.000655	0.00734	mg/L	0.000655	8.93%
Mg 279.079	22.8	0.00039	mg/L	0.000093	0.00039	mg/L	0.000093	23.82%
Mn 257.610	130.1	0.00007	mg/L	0.000002	0.00007	mg/L	0.000002	3.53%
Mo 202.030	42.6	0.00038	mg/L	0.000068	0.00038	mg/L	0.000068	18.25%
Ni 231.604	-13.4	-0.00007	mg/L	0.000017	-0.00007	mg/L	0.000017	23.67%
Pb 220.353	3.7	0.00012	mg/L	0.000199	0.00012	mg/L	0.000199	160.39%
Sb 206.833	14.0	0.00047	mg/L	0.000196	0.00047	mg/L	0.000196	41.41%
Se 196.026	14.0	0.00090	mg/L	0.000615	0.00090	mg/L	0.000615	68.07%
Si 288.158	1121.4	0.0111	mg/L	0.00089	0.0111	mg/L	0.00089	8.02%
Sn 189.933	57.1	0.00209	mg/L	0.000014	0.00209	mg/L	0.000014	0.66%
Ti 337.280	-65.1	-0.00004	mg/L	0.000069	-0.00004	mg/L	0.000069	183.32%
Tl 190.800	0.6	0.00470	mg/L	0.000648	0.00470	mg/L	0.000648	13.80%
V 292.402	-21.0	-0.00007	mg/L	0.000022	-0.00007	mg/L	0.000022	30.40%
Zn 206.200	24.4	0.00007	mg/L	0.000038	0.00007	mg/L	0.000038	54.66%
K 766.490	-29.9	-0.00198	mg/L	0.007034	-0.00198	mg/L	0.007034	355.10%
Na 589.592	465.8	0.0116	mg/L	0.00160	0.0116	mg/L	0.00160	13.72%
Sr 407.771	-63.9	0.00174	mg/L	0.000038	0.00174	mg/L	0.000038	2.16%

Sequence No.: 12 **Autosampler Location: 10**
Sample ID: LCSW 4B WG99353-04 **Date Collected: 6/14/2001 11:00:16 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCSW 4B WG99353-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4055309.9						83657.09	2.06%

Ag 328.068	254966.3	0.379 mg/L	0.0075	0.379 mg/L	0.0075	1.97%
Al 237.312	136426.2	9.41 mg/L	0.196	9.41 mg/L	0.196	2.08%
As 188.979	6470.5	0.377 mg/L	0.0031	0.377 mg/L	0.0031	0.82%
Ba 230.424	333489.0	0.976 mg/L	0.0173	0.976 mg/L	0.0173	1.77%
Be 234.861	77566.5	0.0500 mg/L	0.00094	0.0500 mg/L	0.00094	1.89%
Ca 227.549	11786.1	9.67 mg/L	0.062	9.67 mg/L	0.062	0.64%
Cd 228.802	19173.0	0.0464 mg/L	0.00038	0.0464 mg/L	0.00038	0.81%
Co 228.616	35292.5	0.195 mg/L	0.0035	0.195 mg/L	0.0035	1.79%
Cr 267.716	163409.4	0.493 mg/L	0.0088	0.493 mg/L	0.0088	1.78%
Cu 327.396	191340.7	0.479 mg/L	0.0092	0.479 mg/L	0.0092	1.92%
Fe 261.387	87245.5	3.87 mg/L	0.084	3.87 mg/L	0.084	2.17%
Mg 279.079	550648.9	9.38 mg/L	0.171	9.38 mg/L	0.171	1.82%
Mn 257.610	953130.5	0.485 mg/L	0.0095	0.485 mg/L	0.0095	1.95%
Mo 202.030	109939.8	0.968 mg/L	0.0178	0.968 mg/L	0.0178	1.84%
Ni 231.604	88523.9	0.480 mg/L	0.0082	0.480 mg/L	0.0082	1.71%
Pb 220.353	14271.8	0.486 mg/L	0.0034	0.486 mg/L	0.0034	0.71%
Sb 206.833	33850.9	1.14 mg/L	0.008	1.14 mg/L	0.008	0.68%
Se 196.026	6091.3	0.391 mg/L	0.0035	0.391 mg/L	0.0035	0.89%
Si 288.158	501433.7	4.96 mg/L	0.088	4.96 mg/L	0.088	1.76%
Sn 189.933	25414.8	0.937 mg/L	0.0149	0.937 mg/L	0.0149	1.59%
Ti 337.280	1659476.8	0.976 mg/L	0.0176	0.976 mg/L	0.0176	1.81%
Tl 190.800	62.1	0.450 mg/L	0.0141	0.450 mg/L	0.0141	3.14%
V 292.402	274856.2	0.969 mg/L	0.0160	0.969 mg/L	0.0160	1.65%
Zn 206.200	337215.5	0.974 mg/L	0.0146	0.974 mg/L	0.0146	1.50%
K 766.490	703089.1	46.6 mg/L	0.73	46.6 mg/L	0.73	1.57%
Na 589.592	1942979.4	48.5 mg/L	0.71	48.5 mg/L	0.71	1.46%
Sr 407.771	1072846.2	0.982 mg/L	0.0145	0.982 mg/L	0.0145	1.48%

Sequence No.: 13 **Autosampler Location: 11**
Sample ID: 0627002 WG99353-02 **Date Collected: 6/14/2001 11:05:08 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0627002 WG99353-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3876179.3						40664.73	1.05%
Ag 328.068	71.6	0.00011	mg/L	0.000060	0.00011	mg/L	0.000060	56.28%
Al 237.312	26.8	0.00191	mg/L	0.000645	0.00191	mg/L	0.000645	33.74%
As 188.979	2.9	0.00017	mg/L	0.000275	0.00017	mg/L	0.000275	163.32%
Ba 230.424	25.9	0.00007	mg/L	0.000018	0.00007	mg/L	0.000018	25.31%
Be 234.861	5.2	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	40.78%
Ca 227.549	78.3	0.0648	mg/L	0.00367	0.0648	mg/L	0.00367	5.67%
Cd 228.802	-1.0	0.00000	mg/L	0.000006	0.00000	mg/L	0.000006	191.49%
Co 228.616	54.0	0.00030	mg/L	0.000017	0.00030	mg/L	0.000017	5.77%
Cr 267.716	65.6	0.00020	mg/L	0.000082	0.00020	mg/L	0.000082	42.05%
Cu 327.396	117.8	0.00029	mg/L	0.000033	0.00029	mg/L	0.000033	11.35%
Fe 261.387	221.6	0.00978	mg/L	0.000203	0.00978	mg/L	0.000203	2.08%
Mg 279.079	535.4	0.00913	mg/L	0.000397	0.00913	mg/L	0.000397	4.35%
Mn 257.610	710.8	0.00036	mg/L	0.000007	0.00036	mg/L	0.000007	2.03%
Mo 202.030	118.8	0.00105	mg/L	0.000037	0.00105	mg/L	0.000037	3.51%
Ni 231.604	87.0	0.00047	mg/L	0.000009	0.00047	mg/L	0.000009	1.90%
Pb 220.353	15.9	0.00054	mg/L	0.000109	0.00054	mg/L	0.000109	20.34%
Sb 206.833	0.7	0.00002	mg/L	0.000161	0.00002	mg/L	0.000161	676.82%
Se 196.026	14.2	0.00092	mg/L	0.000487	0.00092	mg/L	0.000487	53.03%
Si 288.158	5769.5	0.0570	mg/L	0.00101	0.0570	mg/L	0.00101	1.78%
Sn 189.933	262.5	0.00963	mg/L	0.001004	0.00963	mg/L	0.001004	10.43%
Ti 337.280	169.6	0.00010	mg/L	0.000002	0.00010	mg/L	0.000002	2.27%
Tl 190.800	1.8	0.0132	mg/L	0.00499	0.0132	mg/L	0.00499	37.69%
V 292.402	2.6	0.00001	mg/L	0.000026	0.00001	mg/L	0.000026	264.27%
Zn 206.200	438.1	0.00127	mg/L	0.000023	0.00127	mg/L	0.000023	1.80%
K 766.490	428.5	0.0284	mg/L	0.01396	0.0284	mg/L	0.01396	49.19%
Na 589.592	2351.5	0.0588	mg/L	0.00697	0.0588	mg/L	0.00697	11.86%
Sr 407.771	443.9	0.00220	mg/L	0.000010	0.00220	mg/L	0.000010	0.45%

Sequence No.: 14 **Autosampler Location: 12**
Sample ID: 0627002SDL 0.2 **Date Collected: 6/14/2001 11:10:00 AM**

Analyst:
Sample Wt:
Dilution: 5X

Sample Prep Volume:
Data Type: Original

Mean Data: 0627002SDL 0.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3874553.7						56465.61	1.46%
Ag 328.068	91.2	0.00014	mg/L	0.000026	0.00068	mg/L	0.000132	19.54%
Al 237.312	-25.1	-0.00169	mg/L	0.000087	-0.00844	mg/L	0.000435	5.16%
As 188.979	-3.4	-0.00020	mg/L	0.000220	-0.00100	mg/L	0.001102	110.12%
Ba 230.424	-11.8	-0.00004	mg/L	0.000004	-0.00018	mg/L	0.000019	10.26%
Be 234.861	-2.2	0.00000	mg/L	0.000007	-0.00001	mg/L	0.000034	401.13%
Ca 227.549	11.4	0.00935	mg/L	0.000713	0.0468	mg/L	0.00357	7.62%
Cd 228.802	-1.8	0.00000	mg/L	0.000009	-0.00002	mg/L	0.000043	208.31%
Co 228.616	9.5	0.00005	mg/L	0.000015	0.00027	mg/L	0.000076	28.50%
Cr 267.716	25.4	0.00008	mg/L	0.000007	0.00038	mg/L	0.000037	9.74%
Cu 327.396	36.2	0.00009	mg/L	0.000007	0.00045	mg/L	0.000037	8.08%
Fe 261.387	130.2	0.00573	mg/L	0.000042	0.0287	mg/L	0.00021	0.73%
Mg 279.079	122.4	0.00209	mg/L	0.000106	0.0104	mg/L	0.00053	5.06%
Mn 257.610	169.5	0.00009	mg/L	0.000006	0.00043	mg/L	0.000032	7.50%
Mo 202.030	58.2	0.00051	mg/L	0.000010	0.00256	mg/L	0.000049	1.90%
Ni 231.604	24.0	0.00013	mg/L	0.000022	0.00065	mg/L	0.000109	16.81%
Pb 220.353	4.7	0.00016	mg/L	0.000007	0.00081	mg/L	0.000033	4.11%
Sb 206.833	6.4	0.00022	mg/L	0.000228	0.00108	mg/L	0.001138	105.18%
Se 196.026	3.2	0.00020	mg/L	0.000055	0.00102	mg/L	0.000273	26.86%
Si 288.158	1377.0	0.0136	mg/L	0.00000	0.0680	mg/L	0.00000	0.00%
Sn 189.933	65.4	0.00240	mg/L	0.000334	0.0120	mg/L	0.00167	13.94%
Ti 337.280	12.7	0.00001	mg/L	0.000053	0.00004	mg/L	0.000265	635.97%
Tl 190.800	1.7	0.0125	mg/L	0.00402	0.0627	mg/L	0.02009	32.02%
V 292.402	6.6	0.00002	mg/L	0.000011	0.00012	mg/L	0.000055	45.73%
Zn 206.200	127.1	0.00037	mg/L	0.000070	0.00184	mg/L	0.000348	18.95%
K 766.490	92.2	0.00610	mg/L	0.004753	0.0305	mg/L	0.02377	77.86%
Na 589.592	139.0	0.00347	mg/L	0.002143	0.0174	mg/L	0.01072	61.70%
Sr 407.771	28.9	0.00182	mg/L	0.000001	0.00912	mg/L	0.000005	0.06%

Duplicate Check: 0627002SDL 0.2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0132	0.0627	0.020	mg/L	130.3
K 766.490	0.0284	0.0305	0.024	mg/L	7.3
Na 589.592	0.0588	0.0174	0.011	mg/L	108.7
Sr 407.771	0.00220	0.00912	0.000	mg/L	122.2
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00011	0.00068	0.000	mg/L	145.7
Al 237.312	0.00191	-0.00844	0.000	mg/L	-317.3
As 188.979	0.00017	-0.00100	0.001	mg/L	-280.8
Ba 230.424	0.00007	-0.00018	0.000	mg/L	-463.4
Be 234.861	0.00000	-0.00001	0.000	mg/L	-401.7
Ca 227.549	0.0648	0.0468	0.004	mg/L	32.3
Cd 228.802	0.00000	-0.00002	0.000	mg/L	-147.8
Co 228.616	0.00030	0.00027	0.000	mg/L	11.6
Cr 267.716	0.00020	0.00038	0.000	mg/L	63.9
Cu 327.396	0.00029	0.00045	0.000	mg/L	42.3
Fe 261.387	0.00978	0.0287	0.000	mg/L	98.2
Mg 279.079	0.00913	0.0104	0.001	mg/L	13.4
Mn 257.610	0.00036	0.00043	0.000	mg/L	17.5
Mo 202.030	0.00105	0.00256	0.000	mg/L	84.0
Ni 231.604	0.00047	0.00065	0.000	mg/L	31.8
Pb 220.353	0.00054	0.00081	0.000	mg/L	40.0
Sb 206.833	0.00002	0.00108	0.001	mg/L	191.4
Se 196.026	0.00092	0.00102	0.000	mg/L	10.2
Si 288.158	0.0570	0.0680	0.000	mg/L	17.6
Sn 189.933	0.00963	0.0120	0.002	mg/L	21.8
Ti 337.280	0.00010	0.00004	0.000	mg/L	85.5
V 292.402	0.00001	0.00012	0.000	mg/L	169.9
Zn 206.200	0.00127	0.00184	0.000	mg/L	36.8

Sequence No.: 15
Sample ID: 0627002PS 0.9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 6/14/2001 11:14:54 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0627002PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4004442.3						12109.21	0.30%
Ag 328.068	131009.5	0.195	mg/L	0.0008	0.195	mg/L	0.0008	0.43%
Al 237.312	142115.6	9.78	mg/L	0.038	9.78	mg/L	0.038	0.39%
As 188.979	16021.2	0.942	mg/L	0.0038	0.942	mg/L	0.0038	0.40%
Ba 230.424	3111901.1	9.13	mg/L	0.012	9.13	mg/L	0.012	0.13%
Be 234.861	1510771.0	0.976	mg/L	0.0025	0.976	mg/L	0.0025	0.26%
Ca 227.549	11828.1	9.76	mg/L	0.149	9.76	mg/L	0.149	1.52%
Cd 228.802	375986.9	0.937	mg/L	0.0023	0.937	mg/L	0.0023	0.25%
Co 228.616	173907.0	0.964	mg/L	0.0004	0.964	mg/L	0.0004	0.04%
Cr 267.716	327132.7	0.979	mg/L	0.0019	0.979	mg/L	0.0019	0.20%
Cu 327.396	383437.7	0.960	mg/L	0.0035	0.960	mg/L	0.0035	0.36%
Fe 261.387	18341.2	0.935	mg/L	0.0082	0.935	mg/L	0.0082	0.87%
Mg 279.079	560428.8	9.55	mg/L	0.002	9.55	mg/L	0.002	0.02%
Mn 257.610	1909228.1	0.973	mg/L	0.0018	0.973	mg/L	0.0018	0.19%
Mo 202.030	107138.6	0.943	mg/L	0.0025	0.943	mg/L	0.0025	0.26%
Ni 231.604	177748.4	0.963	mg/L	0.0021	0.963	mg/L	0.0021	0.22%
Pb 220.353	28500.2	0.966	mg/L	0.0029	0.966	mg/L	0.0029	0.30%
Sb 206.833	28628.2	0.953	mg/L	0.0042	0.953	mg/L	0.0042	0.44%
Se 196.026	14488.0	0.932	mg/L	0.0069	0.932	mg/L	0.0069	0.74%
Si 288.158	960333.2	9.49	mg/L	0.017	9.49	mg/L	0.017	0.18%
Sn 189.933	-237.9	-0.00355	mg/L	0.000167	-0.00355	mg/L	0.000167	4.72%
Ti 337.280	1665536.6	0.982	mg/L	0.0028	0.982	mg/L	0.0028	0.29%
Tl 190.800	127.4	0.922	mg/L	0.0057	0.922	mg/L	0.0057	0.62%
V 292.402	272333.8	0.960	mg/L	0.0030	0.960	mg/L	0.0030	0.31%
Zn 206.200	339414.4	0.982	mg/L	0.0019	0.982	mg/L	0.0019	0.20%
K 766.490	719487.3	47.7	mg/L	0.81	47.7	mg/L	0.81	1.69%
Na 589.592	1969212.9	49.2	mg/L	0.99	49.2	mg/L	0.99	2.01%
Sr 407.771	1083875.9	0.992	mg/L	0.0176	0.992	mg/L	0.0176	1.78%

Recovery Check: 0627002PS 0.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.01	0.922	0.006	mg/L	90.9
K 766.490	50.0	47.7	0.806	mg/L	95.3
Na 589.592	50.1	49.2	0.987	mg/L	98.3
Sr 407.771	1.00	0.992	0.018	mg/L	99.0
Ag 328.068	0.200	0.195	0.001	mg/L	97.2
Al 237.312	10.0	9.78	0.038	mg/L	97.7
As 188.979	1.00	0.942	0.004	mg/L	94.2
Ba 230.424	10.0	9.13	0.012	mg/L	91.3
Be 234.861	1.00	0.976	0.003	mg/L	97.6
Ca 227.549	10.1	9.76	0.149	mg/L	97.0
Cd 228.802	1.000	0.937	0.002	mg/L	93.7
Co 228.616	1.00	0.964	0.000	mg/L	96.4
Cr 267.716	1.00	0.979	0.002	mg/L	97.9
Cu 327.396	1.00	0.960	0.004	mg/L	96.0
Fe 261.387	1.01	0.935	0.008	mg/L	92.5
Mg 279.079	10.0	9.55	0.002	mg/L	95.4
Mn 257.610	1.00	0.973	0.002	mg/L	97.2
Mo 202.030	0.996	0.943	0.002	mg/L	94.7
Ni 231.604	1.00	0.963	0.002	mg/L	96.3
Pb 220.353	1.00	0.966	0.003	mg/L	96.6
Sb 206.833	1.20	0.953	0.004	mg/L	79.2
Se 196.026	1.00	0.932	0.007	mg/L	93.1
Si 288.158	10.1	9.49	0.017	mg/L	94.3
Sn 189.933	1.01	-0.00355	0.000	mg/L	-1.3
Ti 337.280	1.000	0.982	0.003	mg/L	98.2
V 292.402	1.00	0.960	0.003	mg/L	96.0
Zn 206.200	1.00	0.982	0.002	mg/L	98.0

Sequence No.: 16
Sample ID: 0627002DP WG99353-07
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/14/2001 11:19:12 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0627002DP WG99353-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3895332.2						2289.71	0.06%
Ag 328.068	138.1	0.00020	mg/L	0.000014	0.00020	mg/L	0.000014	7.04%
Al 237.312	44.2	0.00310	mg/L	0.000997	0.00310	mg/L	0.000997	32.20%
As 188.979	-2.1	-0.00012	mg/L	0.000257	-0.00012	mg/L	0.000257	205.74%
Ba 230.424	43.2	0.00012	mg/L	0.000007	0.00012	mg/L	0.000007	5.40%
Be 234.861	10.2	0.00001	mg/L	0.000004	0.00001	mg/L	0.000004	61.68%
Ca 227.549	58.9	0.0487	mg/L	0.00637	0.0487	mg/L	0.00637	13.06%
Cd 228.802	17.1	0.00004	mg/L	0.000021	0.00004	mg/L	0.000021	48.35%
Co 228.616	59.7	0.00033	mg/L	0.000022	0.00033	mg/L	0.000022	6.57%
Cr 267.716	69.2	0.00021	mg/L	0.000014	0.00021	mg/L	0.000014	6.58%
Cu 327.396	152.5	0.00038	mg/L	0.000142	0.00038	mg/L	0.000142	37.11%
Fe 261.387	188.2	0.00832	mg/L	0.000043	0.00832	mg/L	0.000043	0.51%
Mg 279.079	598.8	0.0102	mg/L	0.00014	0.0102	mg/L	0.00014	1.33%
Mn 257.610	1407.3	0.00072	mg/L	0.000010	0.00072	mg/L	0.000010	1.34%
Mo 202.030	111.1	0.00098	mg/L	0.000088	0.00098	mg/L	0.000088	8.99%
Ni 231.604	94.2	0.00051	mg/L	0.000074	0.00051	mg/L	0.000074	14.57%
Pb 220.353	15.1	0.00051	mg/L	0.000017	0.00051	mg/L	0.000017	3.27%
Sb 206.833	9.9	0.00034	mg/L	0.000037	0.00034	mg/L	0.000037	10.97%
Se 196.026	17.3	0.00112	mg/L	0.000373	0.00112	mg/L	0.000373	33.41%
Si 288.158	4075.8	0.0403	mg/L	0.00029	0.0403	mg/L	0.00029	0.72%
Sn 189.933	2.9	0.00011	mg/L	0.000192	0.00011	mg/L	0.000192	176.56%
Ti 337.280	101.9	0.00007	mg/L	0.000038	0.00007	mg/L	0.000038	58.72%
Tl 190.800	2.3	0.0167	mg/L	0.00076	0.0167	mg/L	0.00076	4.58%
V 292.402	-9.0	-0.00003	mg/L	0.000155	-0.00003	mg/L	0.000155	496.82%
Zn 206.200	773.4	0.00223	mg/L	0.000011	0.00223	mg/L	0.000011	0.48%
K 766.490	586.9	0.0389	mg/L	0.00005	0.0389	mg/L	0.00005	0.12%
Na 589.592	2363.7	0.0591	mg/L	0.00064	0.0591	mg/L	0.00064	1.08%
Sr 407.771	423.0	0.00218	mg/L	0.000034	0.00218	mg/L	0.000034	1.56%

Duplicate Check: 0627002DP WG99353-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0132	0.0167	0.001	mg/L	23.0
K 766.490	0.0284	0.0389	0.000	mg/L	31.2
Na 589.592	0.0588	0.0591	0.001	mg/L	0.5
Sr 407.771	0.00220	0.00218	0.000	mg/L	0.9
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00011	0.00020	0.000	mg/L	63.4
Al 237.312	0.00191	0.00310	0.001	mg/L	47.3
As 188.979	0.00017	-0.00012	0.000	mg/L	1351.2
Ba 230.424	0.00007	0.00012	0.000	mg/L	52.0
Be 234.861	0.00000	0.00001	0.000	mg/L	73.0
Ca 227.549	0.0648	0.0487	0.006	mg/L	28.3
Cd 228.802	0.00000	0.00004	0.000	mg/L	231.2
Co 228.616	0.00030	0.00033	0.000	mg/L	10.1
Cr 267.716	0.00020	0.00021	0.000	mg/L	5.3
Cu 327.396	0.00029	0.00038	0.000	mg/L	25.7
Fe 261.387	0.00978	0.00832	0.000	mg/L	16.1
Mg 279.079	0.00913	0.0102	0.000	mg/L	11.2
Mn 257.610	0.00036	0.00072	0.000	mg/L	65.8
Mo 202.030	0.00105	0.00098	0.000	mg/L	6.7
Ni 231.604	0.00047	0.00051	0.000	mg/L	7.9
Pb 220.353	0.00054	0.00051	0.000	mg/L	4.8
Sb 206.833	0.00002	0.00034	0.000	mg/L	173.5
Se 196.026	0.00092	0.00112	0.000	mg/L	19.5
Si 288.158	0.0570	0.0403	0.000	mg/L	34.4
Sn 189.933	0.00963	0.00011	0.000	mg/L	195.5
Ti 337.280	0.00010	0.00007	0.000	mg/L	45.7
V 292.402	0.00001	-0.00003	0.000	mg/L	-381.9

Zn 206.200	0.00127	0.00223	0.000	mg/L	55.4

Sequence No.: 17
Sample ID: 0630821 WG99353-01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/14/2001 11:24:08 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0630821 WG99353-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3866022.4						24411.97	0.63%
Ag 328.068	42.2	0.00006	mg/L	0.000025	0.00006	mg/L	0.000025	39.47%
Al 237.312	60.4	0.00421	mg/L	0.000022	0.00421	mg/L	0.000022	0.51%
As 188.979	-0.1	-0.00001	mg/L	0.000057	-0.00001	mg/L	0.000057	640.97%
Ba 230.424	62.2	0.00018	mg/L	0.000009	0.00018	mg/L	0.000009	4.84%
Be 234.861	9.7	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	17.77%
Ca 227.549	35.7	0.0294	mg/L	0.00254	0.0294	mg/L	0.00254	8.62%
Cd 228.802	10.8	0.00003	mg/L	0.000013	0.00003	mg/L	0.000013	49.55%
Co 228.616	5.0	0.00003	mg/L	0.000031	0.00003	mg/L	0.000031	111.77%
Cr 267.716	36.0	0.00011	mg/L	0.000051	0.00011	mg/L	0.000051	47.55%
Cu 327.396	162.0	0.00041	mg/L	0.000005	0.00041	mg/L	0.000005	1.12%
Fe 261.387	190.7	0.00840	mg/L	0.000003	0.00840	mg/L	0.000003	0.03%
Mg 279.079	234.4	0.00399	mg/L	0.000058	0.00399	mg/L	0.000058	1.45%
Mn 257.610	1066.5	0.00054	mg/L	0.000001	0.00054	mg/L	0.000001	0.13%
Mo 202.030	37.4	0.00033	mg/L	0.000079	0.00033	mg/L	0.000079	24.09%
Ni 231.604	1.4	0.00001	mg/L	0.000079	0.00001	mg/L	0.000079	>999.9%
Pb 220.353	6.8	0.00023	mg/L	0.000059	0.00023	mg/L	0.000059	25.58%
Sb 206.833	6.9	0.00023	mg/L	0.000055	0.00023	mg/L	0.000055	23.65%
Se 196.026	10.4	0.00067	mg/L	0.000664	0.00067	mg/L	0.000664	98.95%
Si 288.158	5244.7	0.0518	mg/L	0.00032	0.0518	mg/L	0.00032	0.62%
Sn 189.933	-7.9	-0.00029	mg/L	0.000083	-0.00029	mg/L	0.000083	28.93%
Ti 337.280	283.5	0.00017	mg/L	0.000024	0.00017	mg/L	0.000024	14.38%
Tl 190.800	2.4	0.0171	mg/L	0.00645	0.0171	mg/L	0.00645	37.71%
V 292.402	-18.1	-0.00006	mg/L	0.000085	-0.00006	mg/L	0.000085	134.38%
Zn 206.200	492.7	0.00142	mg/L	0.000015	0.00142	mg/L	0.000015	1.06%
K 766.490	346.3	0.0230	mg/L	0.00012	0.0230	mg/L	0.00012	0.51%
Na 589.592	1496.2	0.0374	mg/L	0.00294	0.0374	mg/L	0.00294	7.85%
Sr 407.771	103.2	0.00189	mg/L	0.000011	0.00189	mg/L	0.000011	0.56%

Sequence No.: 18
Sample ID: 0630821S WG99353-05
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/14/2001 11:29:03 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0630821S WG99353-05

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4038095.3						41745.29	1.03%
Ag 328.068	257156.8	0.382	mg/L	0.0050	0.382	mg/L	0.0050	1.32%
Al 237.312	138429.1	9.55	mg/L	0.132	9.55	mg/L	0.132	1.38%
As 188.979	6500.6	0.379	mg/L	0.0014	0.379	mg/L	0.0014	0.38%
Ba 230.424	337074.5	0.987	mg/L	0.0110	0.987	mg/L	0.0110	1.11%
Be 234.861	78406.7	0.0505	mg/L	0.00061	0.0505	mg/L	0.00061	1.21%
Ca 227.549	11901.9	9.76	mg/L	0.015	9.76	mg/L	0.015	0.15%
Cd 228.802	19303.3	0.0467	mg/L	0.00001	0.0467	mg/L	0.00001	0.03%
Co 228.616	35752.0	0.197	mg/L	0.0020	0.197	mg/L	0.0020	1.02%
Cr 267.716	165603.9	0.499	mg/L	0.0053	0.499	mg/L	0.0053	1.06%
Cu 327.396	193599.4	0.485	mg/L	0.0063	0.485	mg/L	0.0063	1.29%
Fe 261.387	88279.8	3.92	mg/L	0.058	3.92	mg/L	0.058	1.48%
Mg 279.079	556997.7	9.49	mg/L	0.109	9.49	mg/L	0.109	1.15%
Mn 257.610	963411.0	0.491	mg/L	0.0056	0.491	mg/L	0.0056	1.14%
Mo 202.030	111880.3	0.985	mg/L	0.0105	0.985	mg/L	0.0105	1.06%
Ni 231.604	89780.8	0.487	mg/L	0.0059	0.487	mg/L	0.0059	1.21%
Pb 220.353	14355.4	0.489	mg/L	0.0009	0.489	mg/L	0.0009	0.18%
Sb 206.833	34054.4	1.15	mg/L	0.001	1.15	mg/L	0.001	0.06%

Se 196.026	6158.0	0.395 mg/L	0.0007	0.395 mg/L	0.0007	0.17%
Si 288.158	515899.3	5.10 mg/L	0.059	5.10 mg/L	0.059	1.16%
Sn 189.933	25877.0	0.954 mg/L	0.0111	0.954 mg/L	0.0111	1.17%
Ti 337.280	1678312.9	0.987 mg/L	0.0118	0.987 mg/L	0.0118	1.20%
Tl 190.800	62.6	0.454 mg/L	0.0043	0.454 mg/L	0.0043	0.94%
V 292.402	277090.3	0.977 mg/L	0.0118	0.977 mg/L	0.0118	1.20%
Zn 206.200	340063.5	0.983 mg/L	0.0079	0.983 mg/L	0.0079	0.81%
K 766.490	704425.4	46.7 mg/L	0.64	46.7 mg/L	0.64	1.36%
Na 589.592	1951223.4	48.8 mg/L	0.83	48.8 mg/L	0.83	1.71%
Sr 407.771	1075741.9	0.984 mg/L	0.0153	0.984 mg/L	0.0153	1.56%

Sequence No.: 19
Sample ID: 0630821SD WG99353-06
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/14/2001 11:34:01 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0630821SD WG99353-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4045896.5						9056.84	0.22%
Ag 328.068	257882.4	0.383	mg/L	0.0008	0.383	mg/L	0.0008	0.21%
Al 237.312	139417.1	9.61	mg/L	0.012	9.61	mg/L	0.012	0.13%
As 188.979	6534.7	0.381	mg/L	0.0002	0.381	mg/L	0.0002	0.05%
Ba 230.424	339595.4	0.994	mg/L	0.0010	0.994	mg/L	0.0010	0.10%
Be 234.861	78438.3	0.0505	mg/L	0.00005	0.0505	mg/L	0.00005	0.09%
Ca 227.549	11978.7	9.83	mg/L	0.027	9.83	mg/L	0.027	0.27%
Cd 228.802	19396.7	0.0470	mg/L	0.00004	0.0470	mg/L	0.00004	0.08%
Co 228.616	35986.5	0.199	mg/L	0.0007	0.199	mg/L	0.0007	0.34%
Cr 267.716	166988.5	0.503	mg/L	0.0004	0.503	mg/L	0.0004	0.08%
Cu 327.396	194621.5	0.487	mg/L	0.0010	0.487	mg/L	0.0010	0.20%
Fe 261.387	88707.5	3.94	mg/L	0.005	3.94	mg/L	0.005	0.11%
Mg 279.079	563321.8	9.60	mg/L	0.016	9.60	mg/L	0.016	0.16%
Mn 257.610	970628.3	0.494	mg/L	0.0011	0.494	mg/L	0.0011	0.22%
Mo 202.030	112732.5	0.992	mg/L	0.0036	0.992	mg/L	0.0036	0.36%
Ni 231.604	90842.7	0.492	mg/L	0.0002	0.492	mg/L	0.0002	0.04%
Pb 220.353	14459.4	0.492	mg/L	0.0010	0.492	mg/L	0.0010	0.21%
Sb 206.833	34208.0	1.15	mg/L	0.002	1.15	mg/L	0.002	0.16%
Se 196.026	6200.2	0.398	mg/L	0.0015	0.398	mg/L	0.0015	0.37%
Si 288.158	517549.4	5.12	mg/L	0.015	5.12	mg/L	0.015	0.29%
Sn 189.933	25994.5	0.958	mg/L	0.0071	0.958	mg/L	0.0071	0.74%
Ti 337.280	1687579.0	0.992	mg/L	0.0016	0.992	mg/L	0.0016	0.16%
Tl 190.800	61.5	0.445	mg/L	0.0052	0.445	mg/L	0.0052	1.16%
V 292.402	278660.5	0.983	mg/L	0.0014	0.983	mg/L	0.0014	0.14%
Zn 206.200	345003.8	0.997	mg/L	0.0027	0.997	mg/L	0.0027	0.27%
K 766.490	695057.9	46.1	mg/L	0.11	46.1	mg/L	0.11	0.24%
Na 589.592	1920573.6	48.0	mg/L	0.12	48.0	mg/L	0.12	0.26%
Sr 407.771	1059649.8	0.970	mg/L	0.0000	0.970	mg/L	0.0000	0.00%

Duplicate Check: 0630821SD WG99353-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.454	0.445	0.005	mg/L	1.9
K 766.490	46.7	46.1	0.111	mg/L	1.3
Na 589.592	48.8	48.0	0.124	mg/L	1.6
Sr 407.771	0.984	0.970	0.000	mg/L	1.5
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.382	0.383	0.001	mg/L	0.3
Al 237.312	9.55	9.61	0.012	mg/L	0.7
As 188.979	0.379	0.381	0.000	mg/L	0.5
Ba 230.424	0.987	0.994	0.001	mg/L	0.7
Be 234.861	0.0505	0.0505	0.000	mg/L	0.0
Ca 227.549	9.76	9.83	0.027	mg/L	0.6
Cd 228.802	0.0467	0.0470	0.000	mg/L	0.5
Co 228.616	0.197	0.199	0.001	mg/L	0.7
Cr 267.716	0.499	0.503	0.000	mg/L	0.8
Cu 327.396	0.485	0.487	0.001	mg/L	0.5
Fe 261.387	3.92	3.94	0.005	mg/L	0.5

Mg 279.079	9.49	9.60	0.016	mg/L	1.1
Mn 257.610	0.491	0.494	0.001	mg/L	0.7
Mo 202.030	0.985	0.992	0.004	mg/L	0.8
Ni 231.604	0.487	0.492	0.000	mg/L	1.2
Pb 220.353	0.489	0.492	0.001	mg/L	0.7
Sb 206.833	1.15	1.15	0.002	mg/L	0.4
Se 196.026	0.395	0.398	0.001	mg/L	0.7
Si 288.158	5.10	5.12	0.015	mg/L	0.3
Sn 189.933	0.954	0.958	0.007	mg/L	0.5
Ti 337.280	0.987	0.992	0.002	mg/L	0.6
V 292.402	0.977	0.983	0.001	mg/L	0.6
Zn 206.200	0.983	0.997	0.003	mg/L	1.4

Sequence No.: 20
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 11:38:51 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4137721.7						30761.24	0.74%
Ag 328.068	253288.5	0.376	mg/L	0.0029	0.376	mg/L	0.0029	0.78%
QC value within limits for Ag 328.068 Recovery = 94.01%								
Al 237.312	142775.6	9.85	mg/L	0.086	9.85	mg/L	0.086	0.87%
QC value within limits for Al 237.312 Recovery = 98.45%								
As 188.979	6533.1	0.381	mg/L	0.0017	0.381	mg/L	0.0017	0.45%
QC value within limits for As 188.979 Recovery = 95.28%								
Ba 230.424	348681.9	1.02	mg/L	0.008	1.02	mg/L	0.008	0.83%
QC value within limits for Ba 230.424 Recovery = 102.08%								
Be 234.861	79642.7	0.0513	mg/L	0.00058	0.0513	mg/L	0.00058	1.14%
QC value within limits for Be 234.861 Recovery = 102.58%								
Ca 227.549	12101.5	9.93	mg/L	0.045	9.93	mg/L	0.045	0.45%
QC value within limits for Ca 227.549 Recovery = 99.26%								
Cd 228.802	19843.6	0.0481	mg/L	0.00023	0.0481	mg/L	0.00023	0.49%
QC value within limits for Cd 228.802 Recovery = 96.13%								
Co 228.616	37203.9	0.205	mg/L	0.0016	0.205	mg/L	0.0016	0.77%
QC value within limits for Co 228.616 Recovery = 102.69%								
Cr 267.716	170731.4	0.515	mg/L	0.0039	0.515	mg/L	0.0039	0.76%
QC value within limits for Cr 267.716 Recovery = 102.91%								
Cu 327.396	200948.5	0.503	mg/L	0.0044	0.503	mg/L	0.0044	0.87%
QC value within limits for Cu 327.396 Recovery = 100.62%								
Fe 261.387	89961.5	3.99	mg/L	0.042	3.99	mg/L	0.042	1.05%
QC value within limits for Fe 261.387 Recovery = 99.79%								
Mg 279.079	582118.8	9.92	mg/L	0.102	9.92	mg/L	0.102	1.03%
QC value within limits for Mg 279.079 Recovery = 99.18%								
Mn 257.610	989168.8	0.504	mg/L	0.0040	0.504	mg/L	0.0040	0.80%
QC value within limits for Mn 257.610 Recovery = 100.75%								
Mo 202.030	113459.6	0.999	mg/L	0.0058	0.999	mg/L	0.0058	0.58%
QC value within limits for Mo 202.030 Recovery = 100.38%								
Ni 231.604	94599.4	0.513	mg/L	0.0044	0.513	mg/L	0.0044	0.86%
QC value within limits for Ni 231.604 Recovery = 102.53%								
Pb 220.353	14740.2	0.502	mg/L	0.0022	0.502	mg/L	0.0022	0.44%
QC value within limits for Pb 220.353 Recovery = 100.35%								
Sb 206.833	34997.1	1.18	mg/L	0.006	1.18	mg/L	0.006	0.53%
QC value within limits for Sb 206.833 Recovery = 97.97%								
Se 196.026	6103.9	0.392	mg/L	0.0026	0.392	mg/L	0.0026	0.67%
QC value within limits for Se 196.026 Recovery = 97.95%								
Si 288.158	503232.5	4.98	mg/L	0.057	4.98	mg/L	0.057	1.15%
QC value within limits for Si 288.158 Recovery = 99.56%								
Sn 189.933	26382.5	0.972	mg/L	0.0013	0.972	mg/L	0.0013	0.14%
QC value within limits for Sn 189.933 Recovery = 97.38%								
Ti 337.280	1682738.0	0.990	mg/L	0.0091	0.990	mg/L	0.0091	0.92%
QC value within limits for Ti 337.280 Recovery = 99.02%								
Tl 190.800	65.6	0.475	mg/L	0.0121	0.475	mg/L	0.0121	2.55%
QC value within limits for Tl 190.800 Recovery = 94.99%								
V 292.402	286401.4	1.01	mg/L	0.010	1.01	mg/L	0.010	0.94%
QC value within limits for V 292.402 Recovery = 101.01%								

Zn 206.200	350832.9	1.01 mg/L	0.010	1.01 mg/L	0.010	0.97%
QC value within limits for Zn 206.200 Recovery = 101.37%						
K 766.490	708840.0	47.0 mg/L	0.12	47.0 mg/L	0.12	0.25%
QC value within limits for K 766.490 Recovery = 93.94%						
Na 589.592	1946761.4	48.6 mg/L	0.00	48.6 mg/L	0.00	0.01%
QC value within limits for Na 589.592 Recovery = 97.28%						
Sr 407.771	1067813.8	0.977 mg/L	0.0027	0.977 mg/L	0.0027	0.28%
QC value within limits for Sr 407.771 Recovery = 97.72%						

All analytes passed QC.

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 11:43:46 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	3892195.6						17348.84	0.45%
Ag 328.068	49.5	0.00007	mg/L	0.000045	0.00007	mg/L	0.000045	60.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-28.8	-0.00195	mg/L	0.000601	-0.00195	mg/L	0.000601	30.90%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-5.9	-0.00035	mg/L	0.000207	-0.00035	mg/L	0.000207	59.26%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-10.8	-0.00004	mg/L	0.000002	-0.00004	mg/L	0.000002	4.20%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-5.2	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	55.67%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-6.9	-0.00581	mg/L	0.001022	-0.00581	mg/L	0.001022	17.57%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	6.6	0.00002	mg/L	0.000004	0.00002	mg/L	0.000004	22.76%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	3.4	0.00002	mg/L	0.000002	0.00002	mg/L	0.000002	11.65%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	54.6	0.00016	mg/L	0.000010	0.00016	mg/L	0.000010	5.99%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	35.0	0.00009	mg/L	0.000076	0.00009	mg/L	0.000076	87.17%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	107.0	0.00470	mg/L	0.000197	0.00470	mg/L	0.000197	4.20%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-18.8	-0.00032	mg/L	0.000114	-0.00032	mg/L	0.000114	35.60%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	3.6	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	29.60%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	179.5	0.00158	mg/L	0.000071	0.00158	mg/L	0.000071	4.50%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	-3.5	-0.00002	mg/L	0.000004	-0.00002	mg/L	0.000004	20.63%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-1.6	-0.00005	mg/L	0.000235	-0.00005	mg/L	0.000235	475.76%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	9.6	0.00033	mg/L	0.000338	0.00033	mg/L	0.000338	102.14%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	18.1	0.00116	mg/L	0.000630	0.00116	mg/L	0.000630	54.08%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	395.5	0.00390	mg/L	0.000054	0.00390	mg/L	0.000054	1.38%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	283.7	0.0104	mg/L	0.00076	0.0104	mg/L	0.00076	7.32%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-5.6	0.00000	mg/L	0.000060	0.00000	mg/L	0.000060	>999.9%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	1.7	0.0121	mg/L	0.01152	0.0121	mg/L	0.01152	95.48%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	6.3	0.00002	mg/L	0.000032	0.00002	mg/L	0.000032	140.09%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-72.1	-0.00021	mg/L	0.000004	-0.00021	mg/L	0.000004	2.03%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	853.9	0.0566	mg/L	0.00873	0.0566	mg/L	0.00873	15.42%

QC value within limits for K 766.490 Recovery = Not calculated

Na	589.592	1218.8	0.0305 mg/L	0.00243	0.0305 mg/L	0.00243	7.99%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr	407.771	30.9	0.00183 mg/L	0.000087	0.00183 mg/L	0.000087	4.79%

QC value within limits for Sr 407.771 Recovery = Not calculated

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 6/14/2001 12:15:50 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: PBW KR WG99385-03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 6/14/2001 12:15:51 PM

Sample Prep Volume:
Data Type: Original

Mean Data: PBW KR WG99385-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3973733.6						46144.20	1.16%
Ag 328.068	193.7	0.00029	mg/L	0.000101	0.00029	mg/L	0.000101	35.28%
Al 237.312	-232.0	-0.0160	mg/L	0.00070	-0.0160	mg/L	0.00070	4.35%
As 188.979	1.4	0.00009	mg/L	0.000144	0.00009	mg/L	0.000144	161.41%
Ba 230.424	-53.7	-0.00016	mg/L	0.000016	-0.00016	mg/L	0.000016	9.91%
Be 234.861	31.9	0.00002	mg/L	0.000002	0.00002	mg/L	0.000002	9.09%
Ca 227.549	-10.4	-0.00854	mg/L	0.007852	-0.00854	mg/L	0.007852	91.90%
Cd 228.802	28.4	0.00007	mg/L	0.000007	0.00007	mg/L	0.000007	9.99%
Co 228.616	20.9	0.00012	mg/L	0.000003	0.00012	mg/L	0.000003	2.35%
Cr 267.716	238.1	0.00071	mg/L	0.000094	0.00071	mg/L	0.000094	13.37%
Cu 327.396	4674.2	0.0117	mg/L	0.00022	0.0117	mg/L	0.00022	1.92%
Fe 261.387	-98.2	-0.00430	mg/L	0.001535	-0.00430	mg/L	0.001535	35.70%
Mg 279.079	-93.2	-0.00158	mg/L	0.000586	-0.00158	mg/L	0.000586	37.00%
Mn 257.610	224.8	0.00011	mg/L	0.000005	0.00011	mg/L	0.000005	4.07%
Mo 202.030	-6.6	-0.00006	mg/L	0.000009	-0.00006	mg/L	0.000009	14.90%
Ni 231.604	-6.2	-0.00003	mg/L	0.000033	-0.00003	mg/L	0.000033	98.07%
Pb 220.353	34.7	0.00117	mg/L	0.000075	0.00117	mg/L	0.000075	6.41%
Sb 206.833	7.3	0.00024	mg/L	0.000009	0.00024	mg/L	0.000009	3.80%
Se 196.026	24.4	0.00158	mg/L	0.000152	0.00158	mg/L	0.000152	9.63%
Si 288.158	326.0	0.00321	mg/L	0.001283	0.00321	mg/L	0.001283	39.96%
Sn 189.933	220.6	0.00809	mg/L	0.000434	0.00809	mg/L	0.000434	5.37%
Ti 337.280	-164.4	-0.00010	mg/L	0.000003	-0.00010	mg/L	0.000003	2.60%
Tl 190.800	3.1	0.0221	mg/L	0.00205	0.0221	mg/L	0.00205	9.27%
V 292.402	-98.9	-0.00035	mg/L	0.000069	-0.00035	mg/L	0.000069	19.75%
Zn 206.200	1786.2	0.00516	mg/L	0.000093	0.00516	mg/L	0.000093	1.81%
K 766.490	153.4	0.0102	mg/L	0.00905	0.0102	mg/L	0.00905	88.97%
Na 589.592	-6.7	-0.00017	mg/L	0.002358	-0.00017	mg/L	0.002358	>999.9%
Sr 407.771	-138.2	0.00167	mg/L	0.000034	0.00167	mg/L	0.000034	2.04%

Sequence No.: 2
Sample ID: LCSW KR WG99385-04
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/14/2001 12:20:40 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCSW KR WG99385-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4018437.0						19515.69	0.49%
Ag 328.068	132115.7	0.196	mg/L	0.0012	0.196	mg/L	0.0012	0.61%
Al 237.312	144679.5	9.95	mg/L	0.034	9.95	mg/L	0.034	0.34%
As 188.979	17147.4	1.01	mg/L	0.005	1.01	mg/L	0.005	0.49%
Ba 230.424	3215098.1	9.44	mg/L	0.001	9.44	mg/L	0.001	0.01%
Be 234.861	1559468.3	1.01	mg/L	0.003	1.01	mg/L	0.003	0.29%
Ca 227.549	12123.2	10.0	mg/L	0.01	10.0	mg/L	0.01	0.14%
Cd 228.802	384018.7	0.957	mg/L	0.0019	0.957	mg/L	0.0019	0.20%

Co 228.616	180659.3	1.00 mg/L	0.001	1.00 mg/L	0.001	0.14%
Cr 267.716	338325.9	1.01 mg/L	0.000	1.01 mg/L	0.000	0.04%
Cu 327.396	351535.5	0.880 mg/L	0.0044	0.880 mg/L	0.0044	0.50%
Fe 261.387	19011.8	0.969 mg/L	0.0074	0.969 mg/L	0.0074	0.76%
Mg 279.079	586902.4	10.00 mg/L	0.026	10.00 mg/L	0.026	0.26%
Mn 257.610	1958982.4	0.998 mg/L	0.0022	0.998 mg/L	0.0022	0.22%
Mo 202.030	114348.3	1.01 mg/L	0.001	1.01 mg/L	0.001	0.12%
Ni 231.604	185724.2	1.01 mg/L	0.003	1.01 mg/L	0.003	0.32%
Pb 220.353	30210.7	1.02 mg/L	0.001	1.02 mg/L	0.001	0.07%
Sb 206.833	29966.6	0.997 mg/L	0.0030	0.997 mg/L	0.0030	0.30%
Se 196.026	15196.7	0.978 mg/L	0.0114	0.978 mg/L	0.0114	1.16%
Si 288.158	908387.4	8.98 mg/L	0.026	8.98 mg/L	0.026	0.29%
Sn 189.933	-113.9	0.00110 mg/L	0.000963	0.00110 mg/L	0.000963	87.49%
Ti 337.280	1697843.9	1.00 mg/L	0.004	1.00 mg/L	0.004	0.41%
Tl 190.800	108.1	0.783 mg/L	0.0633	0.783 mg/L	0.0633	8.09%
V 292.402	281708.3	0.993 mg/L	0.0031	0.993 mg/L	0.0031	0.31%
Zn 206.200	365018.9	1.06 mg/L	0.010	1.06 mg/L	0.010	0.92%
K 766.490	708993.3	47.0 mg/L	0.90	47.0 mg/L	0.90	1.91%
Na 589.592	1935890.5	48.4 mg/L	0.97	48.4 mg/L	0.97	2.00%
Sr 407.771	1080667.7	0.989 mg/L	0.0159	0.989 mg/L	0.0159	1.60%

Recovery Check: LCSW KR WG99385-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.783	0.063	mg/L	76.1
K 766.490	50.0	47.0	0.898	mg/L	93.9
Na 589.592	50.0	48.4	0.968	mg/L	96.7
Sr 407.771	1.00	0.989	0.016	mg/L	98.7
Ag 328.068	0.200	0.196	0.001	mg/L	97.9
Al 237.312	9.98	9.95	0.034	mg/L	99.7
As 188.979	1.00	1.01	0.005	mg/L	100.8
Ba 230.424	10.00	9.44	0.001	mg/L	94.4
Be 234.861	1.00	1.01	0.003	mg/L	100.8
Ca 227.549	9.99	10.0	0.014	mg/L	100.1
Cd 228.802	1.00	0.957	0.002	mg/L	95.6
Co 228.616	1.00	1.00	0.001	mg/L	100.2
Cr 267.716	1.00	1.01	0.000	mg/L	101.2
Cu 327.396	1.01	0.880	0.004	mg/L	86.9
Fe 261.387	0.996	0.969	0.007	mg/L	97.3
Mg 279.079	10.00	10.00	0.026	mg/L	100.0
Mn 257.610	1.00	0.998	0.002	mg/L	99.8
Mo 202.030	0.995	1.01	0.001	mg/L	101.2
Ni 231.604	1.000	1.01	0.003	mg/L	100.6
Pb 220.353	1.00	1.02	0.001	mg/L	102.3
Sb 206.833	1.20	0.997	0.003	mg/L	82.9
Se 196.026	1.00	0.978	0.011	mg/L	97.6
Si 288.158	10.0	8.98	0.026	mg/L	89.8
Sn 189.933	1.01	0.00110	0.001	mg/L	-0.7
Ti 337.280	0.999	1.00	0.004	mg/L	100.1
V 292.402	1.000	0.993	0.003	mg/L	99.4
Zn 206.200	1.01	1.06	0.010	mg/L	105.0

Sequence No.: 3
Sample ID: TC BLK 6/13 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 20
Date Collected: 6/14/2001 12:24:54 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC BLK 6/13 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4164885.3						28035.86	0.67%
Ag 328.068	172.5	0.00026	mg/L	0.000043	0.00256	mg/L	0.000432	16.88%
Al 237.312	-216.3	-0.0148	mg/L	0.00074	-0.148	mg/L	0.0074	5.01%
As 188.979	1.0	0.00008	mg/L	0.000144	0.00079	mg/L	0.001444	182.15%
Ba 230.424	344.3	0.00101	mg/L	0.000270	0.0101	mg/L	0.00270	26.73%
Be 234.861	330.2	0.00021	mg/L	0.000014	0.00213	mg/L	0.000140	6.57%
Ca 227.549	3.5	0.00267	mg/L	0.002992	0.0267	mg/L	0.02992	111.97%

Cd 228.802	70.3	0.00018 mg/L	0.000030	0.00175 mg/L	0.000297	16.96%
Co 228.616	46.8	0.00026 mg/L	0.000008	0.00260 mg/L	0.000079	3.02%
Cr 267.716	730.0	0.00217 mg/L	0.000055	0.0217 mg/L	0.00055	2.52%
Cu 327.396	696.6	0.00174 mg/L	0.000150	0.0174 mg/L	0.00150	8.59%
Fe 261.387	290.3	0.0128 mg/L	0.00053	0.128 mg/L	0.0053	4.12%
Mg 279.079	-72.8	-0.00124 mg/L	0.000287	-0.0124 mg/L	0.00287	23.10%
Mn 257.610	377.5	0.00019 mg/L	0.000025	0.00191 mg/L	0.000250	13.06%
Mo 202.030	62.8	0.00055 mg/L	0.000045	0.00553 mg/L	0.000453	8.20%
Ni 231.604	27.4	0.00015 mg/L	0.000012	0.00149 mg/L	0.000115	7.72%
Pb 220.353	114.7	0.00387 mg/L	0.000027	0.0387 mg/L	0.00027	0.69%
Sb 206.833	27.4	0.00089 mg/L	0.000375	0.00887 mg/L	0.003753	42.29%
Se 196.026	26.0	0.00168 mg/L	0.000319	0.0168 mg/L	0.00319	19.01%
Si 288.158	103.9	0.00102 mg/L	0.000095	0.0102 mg/L	0.00095	9.31%
Sn 189.933	-1.1	-0.00004 mg/L	0.000148	-0.00038 mg/L	0.001481	393.30%
Ti 337.280	182.6	0.00011 mg/L	0.000050	0.00108 mg/L	0.000505	46.73%
Tl 190.800	6.1	0.0439 mg/L	0.00391	0.439 mg/L	0.0391	8.90%
V 292.402	-49.4	-0.00017 mg/L	0.000032	-0.00173 mg/L	0.000321	18.56%
Zn 206.200	3393.2	0.00981 mg/L	0.000243	0.0981 mg/L	0.00243	2.47%
K 766.490	6438.0	0.427 mg/L	0.0352	4.27 mg/L	0.352	8.26%
Na 589.592	4818385.8	120 mg/L	0.7	1200 mg/L	7.2	0.60%
Sr 407.771	284.8	0.00206 mg/L	0.000015	0.0206 mg/L	0.00015	0.72%

Sequence No.: 4
Sample ID: TC0626601 WG99385-02
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 21
Date Collected: 6/14/2001 12:29:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626601 WG99385-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3983013.3						84861.66	2.13%
Ag 328.068	755.3	0.00112	mg/L	0.000128	0.0112	mg/L	0.00128	11.41%
Al 237.312	-187.7	-0.0163	mg/L	0.00074	-0.163	mg/L	0.0074	4.54%
As 188.979	7.6	0.00046	mg/L	0.000051	0.00458	mg/L	0.000507	11.08%
Ba 230.424	5874.6	0.0175	mg/L	0.00007	0.175	mg/L	0.0007	0.40%
Be 234.861	98.1	0.00006	mg/L	0.000006	0.00063	mg/L	0.000062	9.77%
Ca 227.549	80705.0	67.0	mg/L	0.62	670	mg/L	6.2	0.92%
Cd 228.802	425.1	0.00101	mg/L	0.000019	0.0101	mg/L	0.00019	1.88%
Co 228.616	57.3	0.00035	mg/L	0.000015	0.00352	mg/L	0.000146	4.15%
Cr 267.716	530.5	0.00160	mg/L	0.000219	0.0160	mg/L	0.00219	13.68%
Cu 327.396	31009.3	0.0777	mg/L	0.00627	0.777	mg/L	0.0627	8.07%
Fe 261.387	55.7	0.00413	mg/L	0.002189	0.0413	mg/L	0.02189	52.97%
Mg 279.079	66872.7	1.13	mg/L	0.026	11.3	mg/L	0.26	2.28%
Mn 257.610	107166.5	0.0546	mg/L	0.00086	0.546	mg/L	0.0086	1.58%
Mo 202.030	14.5	0.00013	mg/L	0.000018	0.00128	mg/L	0.000183	14.27%
Ni 231.604	267.9	0.00145	mg/L	0.000041	0.0145	mg/L	0.00041	2.82%
Pb 220.353	144.2	0.00487	mg/L	0.000256	0.0487	mg/L	0.00256	5.26%
Sb 206.833	43.8	0.00102	mg/L	0.000166	0.0102	mg/L	0.00166	16.20%
Se 196.026	56.6	0.00364	mg/L	0.000462	0.0364	mg/L	0.00462	12.67%
Si 288.158	39791.8	0.426	mg/L	0.0098	4.26	mg/L	0.098	2.29%
Sn 189.933	-78.2	-0.00220	mg/L	0.002325	-0.0220	mg/L	0.02325	105.87%
Ti 337.280	39.2	0.00293	mg/L	0.000062	0.0293	mg/L	0.00062	2.13%
Tl 190.800	10.4	0.0750	mg/L	0.01161	0.750	mg/L	0.1161	15.47%
V 292.402	1305.1	0.00460	mg/L	0.000015	0.0460	mg/L	0.00015	0.33%
Zn 206.200	15223.3	0.0440	mg/L	0.00161	0.440	mg/L	0.0161	3.65%
K 766.490	16820.7	1.11	mg/L	0.138	11.1	mg/L	1.38	12.40%
Na 589.592	5546520.4	139	mg/L	0.3	1390	mg/L	3.4	0.24%
Sr 407.771	120794.4	0.112	mg/L	0.0027	1.12	mg/L	0.027	2.43%

Sequence No.: 5
Sample ID: TC0626601SDL 0.2
Analyst:
Sample Wt:
Dilution: 50X

Autosampler Location: 22
Date Collected: 6/14/2001 12:34:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626601SDL 0.2

Method: 3B

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4134821.1						17113.64	0.41%
Ag 328.068	245.0	0.00036	mg/L	0.000041	0.0182	mg/L	0.00206	11.33%
Al 237.312	-117.4	-0.00873	mg/L	0.001681	-0.437	mg/L	0.0841	19.25%
As 188.979	2.3	0.00015	mg/L	0.000074	0.00744	mg/L	0.003684	49.53%
Ba 230.424	1176.5	0.00351	mg/L	0.000093	0.176	mg/L	0.0046	2.63%
Be 234.861	38.4	0.00002	mg/L	0.000001	0.00120	mg/L	0.000062	5.16%
Ca 227.549	18023.2	15.0	mg/L	0.33	748	mg/L	16.7	2.23%
Cd 228.802	77.1	0.00018	mg/L	0.000014	0.00898	mg/L	0.000699	7.79%
Co 228.616	18.6	0.00011	mg/L	0.000012	0.00560	mg/L	0.000621	11.09%
Cr 267.716	512.1	0.00153	mg/L	0.000046	0.0765	mg/L	0.00229	2.99%
Cu 327.396	595.5	0.00149	mg/L	0.000184	0.0746	mg/L	0.00919	12.33%
Fe 261.387	330.1	0.0149	mg/L	0.00048	0.744	mg/L	0.0240	3.23%
Mg 279.079	13936.0	0.236	mg/L	0.0087	11.8	mg/L	0.43	3.68%
Mn 257.610	23021.2	0.0117	mg/L	0.00028	0.586	mg/L	0.0139	2.37%
Mo 202.030	83.1	0.00073	mg/L	0.000007	0.0366	mg/L	0.00034	0.94%
Ni 231.604	45.2	0.00025	mg/L	0.000027	0.0123	mg/L	0.00137	11.16%
Pb 220.353	48.8	0.00165	mg/L	0.000092	0.0825	mg/L	0.00459	5.56%
Sb 206.833	16.5	0.00044	mg/L	0.000277	0.0218	mg/L	0.01385	63.41%
Se 196.026	25.0	0.00161	mg/L	0.000638	0.0804	mg/L	0.03189	39.64%
Si 288.158	5436.7	0.0612	mg/L	0.00157	3.06	mg/L	0.078	2.56%
Sn 189.933	-228.4	-0.00822	mg/L	0.000116	-0.411	mg/L	0.0058	1.41%
Ti 337.280	-60.5	0.00061	mg/L	0.000025	0.0306	mg/L	0.00124	4.05%
Tl 190.800	2.9	0.0208	mg/L	0.00959	1.04	mg/L	0.480	46.06%
V 292.402	308.2	0.00109	mg/L	0.000043	0.0544	mg/L	0.00217	3.99%
Zn 206.200	3019.6	0.00872	mg/L	0.000207	0.436	mg/L	0.0104	2.38%
K 766.490	6280.0	0.416	mg/L	0.0142	20.8	mg/L	0.71	3.43%
Na 589.592	1249408.8	31.2	mg/L	0.10	1560	mg/L	4.8	0.31%
Sr 407.771	27601.9	0.0270	mg/L	0.00056	1.35	mg/L	0.028	2.07%

Sequence No.: 6
Sample ID: TC0626601PS 0.9
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 23
Date Collected: 6/14/2001 12:39:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626601PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3977182.6						23014.23	0.58%
Ag 328.068	131433.6	0.195	mg/L	0.0019	1.95	mg/L	0.019	0.99%
Al 237.312	145191.2	9.99	mg/L	0.092	99.9	mg/L	0.92	0.92%
As 188.979	16611.5	0.977	mg/L	0.0115	9.77	mg/L	0.115	1.18%
Ba 230.424	2988308.5	8.77	mg/L	0.058	87.7	mg/L	0.58	0.66%
Be 234.861	1537341.7	0.994	mg/L	0.0076	9.94	mg/L	0.076	0.77%
Ca 227.549	80057.4	66.4	mg/L	0.98	664	mg/L	9.8	1.48%
Cd 228.802	376235.9	0.937	mg/L	0.0074	9.37	mg/L	0.074	0.79%
Co 228.616	169857.0	0.942	mg/L	0.0085	9.42	mg/L	0.085	0.90%
Cr 267.716	318197.3	0.953	mg/L	0.0076	9.53	mg/L	0.076	0.80%
Cu 327.396	351158.1	0.879	mg/L	0.0099	8.79	mg/L	0.099	1.13%
Fe 261.387	19228.0	0.972	mg/L	0.0118	9.72	mg/L	0.118	1.21%
Mg 279.079	607556.5	10.3	mg/L	0.07	103	mg/L	0.7	0.64%
Mn 257.610	1945477.1	0.991	mg/L	0.0075	9.91	mg/L	0.075	0.76%
Mo 202.030	105909.3	0.932	mg/L	0.0084	9.32	mg/L	0.084	0.90%
Ni 231.604	174098.3	0.943	mg/L	0.0063	9.43	mg/L	0.063	0.66%
Pb 220.353	28207.5	0.956	mg/L	0.0009	9.56	mg/L	0.009	0.09%
Sb 206.833	28934.8	0.963	mg/L	0.0060	9.63	mg/L	0.060	0.62%
Se 196.026	12694.8	0.817	mg/L	0.0032	8.17	mg/L	0.032	0.40%
Si 288.158	819669.2	8.13	mg/L	0.065	81.3	mg/L	0.65	0.80%
Sn 189.933	-425.3	-0.0100	mg/L	0.00164	-0.100	mg/L	0.0164	16.37%
Ti 337.280	1617032.5	0.956	mg/L	0.0078	9.56	mg/L	0.078	0.82%
Tl 190.800	104.4	0.756	mg/L	0.0469	7.56	mg/L	0.469	6.21%
V 292.402	268963.4	0.948	mg/L	0.0060	9.48	mg/L	0.060	0.63%
Zn 206.200	347688.8	1.01	mg/L	0.004	10.1	mg/L	0.04	0.41%
K 766.490	758526.3	50.3	mg/L	0.09	503	mg/L	0.9	0.18%
Na 589.592	6830636.0	171	mg/L	0.3	1710	mg/L	2.7	0.16%
Sr 407.771	1145050.2	1.05	mg/L	0.005	10.5	mg/L	0.05	0.44%

Sequence No.: 7
Sample ID: TC0626601DP WG99385-07
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 24
Date Collected: 6/14/2001 12:43:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC0626601DP WG99385-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4326914.4						103467.71	2.39%
Ag 328.068	733.3	0.00109	mg/L	0.000031	0.0109	mg/L	0.00031	2.82%
Al 237.312	-169.7	-0.0151	mg/L	0.00056	-0.151	mg/L	0.0056	3.71%
As 188.979	5.6	0.00034	mg/L	0.000349	0.00339	mg/L	0.003489	102.93%
Ba 230.424	5900.5	0.0176	mg/L	0.00012	0.176	mg/L	0.0012	0.70%
Be 234.861	123.3	0.00008	mg/L	0.000012	0.00079	mg/L	0.000118	14.89%
Ca 227.549	81042.0	67.3	mg/L	0.92	673	mg/L	9.2	1.37%
Cd 228.802	435.0	0.00103	mg/L	0.000005	0.0103	mg/L	0.00005	0.47%
Co 228.616	59.4	0.00036	mg/L	0.000021	0.00364	mg/L	0.000210	5.76%
Cr 267.716	493.1	0.00149	mg/L	0.000179	0.0149	mg/L	0.00179	12.01%
Cu 327.396	28148.9	0.0705	mg/L	0.00304	0.705	mg/L	0.0304	4.32%
Fe 261.387	105.4	0.00632	mg/L	0.002577	0.0632	mg/L	0.02577	40.75%
Mg 279.079	66830.9	1.13	mg/L	0.002	11.3	mg/L	0.02	0.15%
Mn 257.610	107439.6	0.0547	mg/L	0.00047	0.547	mg/L	0.0047	0.86%
Mo 202.030	69.9	0.00062	mg/L	0.000010	0.00615	mg/L	0.000103	1.68%
Ni 231.604	254.0	0.00138	mg/L	0.000019	0.0138	mg/L	0.00019	1.37%
Pb 220.353	144.5	0.00488	mg/L	0.000144	0.0488	mg/L	0.00144	2.95%
Sb 206.833	46.4	0.00112	mg/L	0.000151	0.0112	mg/L	0.00151	13.55%
Se 196.026	76.7	0.00494	mg/L	0.000245	0.0494	mg/L	0.00245	4.96%
Si 288.158	39590.9	0.425	mg/L	0.0037	4.25	mg/L	0.037	0.87%
Sn 189.933	-76.1	-0.00211	mg/L	0.003092	-0.0211	mg/L	0.03092	146.30%
Ti 337.280	270.6	0.00308	mg/L	0.000065	0.0308	mg/L	0.00065	2.11%
Tl 190.800	14.3	0.104	mg/L	0.0218	1.04	mg/L	0.218	21.02%
V 292.402	1302.3	0.00460	mg/L	0.000055	0.0460	mg/L	0.00055	1.19%
Zn 206.200	15730.8	0.0454	mg/L	0.00059	0.454	mg/L	0.0059	1.30%
K 766.490	20813.6	1.38	mg/L	0.125	13.8	mg/L	1.25	9.09%
Na 589.592	5573504.7	139	mg/L	1.5	1390	mg/L	15.3	1.10%
Sr 407.771	122651.9	0.114	mg/L	0.0029	1.14	mg/L	0.029	2.59%

Duplicate Check: TC0626601DP WG99385-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.750	1.04	0.218	mg/L	32.0
K 766.490	11.1	13.8	1.251	mg/L	21.3
Na 589.592	1390	1390	15.337	mg/L	0.5
Sr 407.771	1.12	1.14	0.029	mg/L	1.5
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0112	0.0109	0.000	mg/L	3.0
Al 237.312	-0.163	-0.151	0.006	mg/L	-7.9
As 188.979	0.00458	0.00339	0.003	mg/L	29.8
Ba 230.424	0.175	0.176	0.001	mg/L	0.4
Be 234.861	0.00063	0.00079	0.000	mg/L	22.6
Ca 227.549	670	673	9.243	mg/L	0.4
Cd 228.802	0.0101	0.0103	0.000	mg/L	2.4
Co 228.616	0.00352	0.00364	0.000	mg/L	3.4
Cr 267.716	0.0160	0.0149	0.002	mg/L	7.2
Cu 327.396	0.777	0.705	0.030	mg/L	9.7
Fe 261.387	0.0413	0.0632	0.026	mg/L	41.9
Mg 279.079	11.3	11.3	0.017	mg/L	0.1
Mn 257.610	0.546	0.547	0.005	mg/L	0.3
Mo 202.030	0.00128	0.00615	0.000	mg/L	131.1
Ni 231.604	0.0145	0.0138	0.000	mg/L	5.3
Pb 220.353	0.0487	0.0488	0.001	mg/L	0.2
Sb 206.833	0.0102	0.0112	0.002	mg/L	8.6
Se 196.026	0.0364	0.0494	0.002	mg/L	30.2
Si 288.158	4.26	4.25	0.037	mg/L	0.4
Sn 189.933	-0.0220	-0.0211	0.031	mg/L	-3.8
Ti 337.280	0.0293	0.0308	0.001	mg/L	4.9
V 292.402	0.0460	0.0460	0.001	mg/L	0.2

Zn 206.200	0.440	0.454	0.006	mg/L	3.3

Sequence No.: 8
Sample ID: TC0626602
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 25
Date Collected: 6/14/2001 12:48:50 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626602

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4110512.3						15530.46	0.38%
Ag 328.068	650.5	0.00097	mg/L	0.000059	0.00966	mg/L	0.000590	6.11%
Al 237.312	-338.7	-0.0265	mg/L	0.00152	-0.265	mg/L	0.0152	5.73%
As 188.979	1.5	0.00010	mg/L	0.000593	0.00096	mg/L	0.005926	620.34%
Ba 230.424	3646.1	0.0109	mg/L	0.00004	0.109	mg/L	0.0004	0.39%
Be 234.861	94.0	0.00006	mg/L	0.000000	0.00062	mg/L	0.000003	0.45%
Ca 227.549	73168.6	60.7	mg/L	0.09	607	mg/L	0.9	0.15%
Cd 228.802	591.1	0.00143	mg/L	0.000006	0.0143	mg/L	0.00006	0.45%
Co 228.616	119.2	0.00069	mg/L	0.000030	0.00693	mg/L	0.000304	4.39%
Cr 267.716	369.4	0.00112	mg/L	0.000065	0.0112	mg/L	0.00065	5.81%
Cu 327.396	33044.0	0.0828	mg/L	0.00274	0.828	mg/L	0.0274	3.31%
Fe 261.387	-271.6	-0.00939	mg/L	0.002056	-0.0939	mg/L	0.02056	21.88%
Mg 279.079	73641.4	1.25	mg/L	0.013	12.5	mg/L	0.13	1.05%
Mn 257.610	160761.8	0.0819	mg/L	0.00014	0.819	mg/L	0.0014	0.17%
Mo 202.030	19.0	0.00017	mg/L	0.000004	0.00167	mg/L	0.000045	2.67%
Ni 231.604	368.1	0.00199	mg/L	0.000069	0.0199	mg/L	0.00069	3.44%
Pb 220.353	363.7	0.0123	mg/L	0.00013	0.123	mg/L	0.0013	1.07%
Sb 206.833	102.9	0.00307	mg/L	0.000308	0.0307	mg/L	0.00308	10.04%
Se 196.026	44.6	0.00287	mg/L	0.000431	0.0287	mg/L	0.00431	15.01%
Si 288.158	36001.2	0.386	mg/L	0.0018	3.86	mg/L	0.018	0.47%
Sn 189.933	123.4	0.00513	mg/L	0.004689	0.0513	mg/L	0.04689	91.33%
Ti 337.280	-188.2	0.00267	mg/L	0.000031	0.0267	mg/L	0.00031	1.16%
Tl 190.800	7.4	0.0537	mg/L	0.03194	0.537	mg/L	0.3194	59.49%
V 292.402	1210.3	0.00427	mg/L	0.000009	0.0427	mg/L	0.00009	0.20%
Zn 206.200	17002.9	0.0491	mg/L	0.00038	0.491	mg/L	0.0038	0.76%
K 766.490	23584.0	1.56	mg/L	0.190	15.6	mg/L	1.90	12.20%
Na 589.592	5513508.8	138	mg/L	1.9	1380	mg/L	18.9	1.37%
Sr 407.771	143086.3	0.132	mg/L	0.0024	1.32	mg/L	0.024	1.80%

Sequence No.: 9
Sample ID: TC0626603
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 26
Date Collected: 6/14/2001 12:53:47 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626603

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4672940.6						222353.98	4.76%
Ag 328.068	786.6	0.00117	mg/L	0.000151	0.0117	mg/L	0.00151	12.96%
Al 237.312	-216.4	-0.0184	mg/L	0.00212	-0.184	mg/L	0.0212	11.48%
As 188.979	16.7	0.00099	mg/L	0.000589	0.00991	mg/L	0.005892	59.48%
Ba 230.424	4944.7	0.0148	mg/L	0.00007	0.148	mg/L	0.0007	0.47%
Be 234.861	93.1	0.00006	mg/L	0.000000	0.00061	mg/L	0.000003	0.51%
Ca 227.549	82256.4	68.3	mg/L	0.77	683	mg/L	7.7	1.13%
Cd 228.802	455.3	0.00108	mg/L	0.000002	0.0108	mg/L	0.00002	0.22%
Co 228.616	71.4	0.00043	mg/L	0.000008	0.00431	mg/L	0.000081	1.88%
Cr 267.716	355.9	0.00108	mg/L	0.000116	0.0108	mg/L	0.00116	10.70%
Cu 327.396	15019.8	0.0376	mg/L	0.00155	0.376	mg/L	0.0155	4.13%
Fe 261.387	-173.0	-0.00574	mg/L	0.002950	-0.0574	mg/L	0.02950	51.42%
Mg 279.079	73977.0	1.25	mg/L	0.016	12.5	mg/L	0.16	1.28%
Mn 257.610	118323.2	0.0603	mg/L	0.00095	0.603	mg/L	0.0095	1.57%
Mo 202.030	1.7	0.00002	mg/L	0.000047	0.00015	mg/L	0.000474	309.95%
Ni 231.604	301.4	0.00163	mg/L	0.000014	0.0163	mg/L	0.00014	0.87%
Pb 220.353	95.9	0.00324	mg/L	0.000101	0.0324	mg/L	0.00101	3.14%
Sb 206.833	27.3	0.00046	mg/L	0.000218	0.00465	mg/L	0.002183	46.96%

Se 196.026	46.9	0.00302 mg/L	0.000356	0.0302 mg/L	0.00356	11.77%
Si 288.158	33175.8	0.362 mg/L	0.0053	3.62 mg/L	0.053	1.47%
Sn 189.933	-18.1	0.00002 mg/L	0.003831	0.00019 mg/L	0.038311	>999.9%
Ti 337.280	-70.6	0.00294 mg/L	0.000019	0.0294 mg/L	0.00019	0.65%
Tl 190.800	6.8	0.0495 mg/L	0.00895	0.495 mg/L	0.0895	18.09%
V 292.402	1391.5	0.00491 mg/L	0.000038	0.0491 mg/L	0.00038	0.77%
Zn 206.200	18013.4	0.0520 mg/L	0.00017	0.520 mg/L	0.0017	0.34%
K 766.490	23132.1	1.53 mg/L	0.188	15.3 mg/L	1.88	12.29%
Na 589.592	5604796.6	140 mg/L	3.7	1400 mg/L	37.4	2.67%
Sr 407.771	139551.2	0.129 mg/L	0.0002	1.29 mg/L	0.002	0.17%

Sequence No.: 10
Sample ID: TC0626604
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 27
Date Collected: 6/14/2001 12:58:44 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626604

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3962301.4						20388.47	0.51%
Ag 328.068	696.9	0.00103	mg/L	0.000090	0.0103	mg/L	0.00090	8.65%
Al 237.312	179.8	0.00896	mg/L	0.000227	0.0896	mg/L	0.00227	2.53%
As 188.979	13.6	0.00081	mg/L	0.000202	0.00808	mg/L	0.002019	24.99%
Ba 230.424	4670.4	0.0140	mg/L	0.00010	0.140	mg/L	0.0010	0.68%
Be 234.861	99.8	0.00006	mg/L	0.000003	0.00064	mg/L	0.000032	5.03%
Ca 227.549	81862.2	67.9	mg/L	0.83	679	mg/L	8.3	1.22%
Cd 228.802	399.7	0.00094	mg/L	0.000006	0.00940	mg/L	0.000060	0.64%
Co 228.616	63.3	0.00039	mg/L	0.000027	0.00385	mg/L	0.000269	6.98%
Cr 267.716	296.1	0.00091	mg/L	0.000091	0.00906	mg/L	0.000913	10.07%
Cu 327.396	14031.5	0.0351	mg/L	0.00101	0.351	mg/L	0.0101	2.86%
Fe 261.387	214.5	0.0111	mg/L	0.00071	0.111	mg/L	0.0071	6.43%
Mg 279.079	70750.6	1.20	mg/L	0.011	12.0	mg/L	0.11	0.92%
Mn 257.610	104423.4	0.0532	mg/L	0.00068	0.532	mg/L	0.0068	1.27%
Mo 202.030	-14.6	-0.00013	mg/L	0.000019	-0.00128	mg/L	0.000195	15.21%
Ni 231.604	277.2	0.00150	mg/L	0.000055	0.0150	mg/L	0.00055	3.65%
Pb 220.353	110.0	0.00371	mg/L	0.000117	0.0371	mg/L	0.00117	3.14%
Sb 206.833	38.4	0.00084	mg/L	0.000280	0.00843	mg/L	0.002798	33.18%
Se 196.026	30.7	0.00198	mg/L	0.000402	0.0198	mg/L	0.00402	20.36%
Si 288.158	40577.3	0.435	mg/L	0.0082	4.35	mg/L	0.082	1.89%
Sn 189.933	-12.0	0.00024	mg/L	0.001875	0.00243	mg/L	0.018748	771.16%
Ti 337.280	889.7	0.00346	mg/L	0.000092	0.0346	mg/L	0.00092	2.66%
Tl 190.800	8.5	0.0614	mg/L	0.03842	0.614	mg/L	0.3842	62.53%
V 292.402	1355.5	0.00478	mg/L	0.000007	0.0478	mg/L	0.00007	0.14%
Zn 206.200	15005.9	0.0433	mg/L	0.00015	0.433	mg/L	0.0015	0.34%
K 766.490	25392.7	1.68	mg/L	0.120	16.8	mg/L	1.20	7.17%
Na 589.592	5564840.3	139	mg/L	1.0	1390	mg/L	10.4	0.75%
Sr 407.771	138886.6	0.129	mg/L	0.0006	1.29	mg/L	0.006	0.48%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 1:03:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4102416.8						24204.19	0.59%
Ag 328.068	251814.5	0.374	mg/L	0.0029	0.374	mg/L	0.0029	0.78%
QC value within limits for Ag 328.068 Recovery = 93.47%								
Al 237.312	142926.1	9.86	mg/L	0.086	9.86	mg/L	0.086	0.87%
QC value within limits for Al 237.312 Recovery = 98.55%								
As 188.979	6607.6	0.385	mg/L	0.0017	0.385	mg/L	0.0017	0.44%
QC value within limits for As 188.979 Recovery = 96.37%								
Ba 230.424	348675.4	1.02	mg/L	0.006	1.02	mg/L	0.006	0.63%
QC value within limits for Ba 230.424 Recovery = 102.08%								

Be 234.861	79510.9	0.0512 mg/L	0.00038	0.0512 mg/L	0.00038	0.75%
QC value within limits for Be 234.861 Recovery = 102.42%						
Ca 227.549	12268.7	10.1 mg/L	0.03	10.1 mg/L	0.03	0.32%
QC value within limits for Ca 227.549 Recovery = 100.65%						
Cd 228.802	20012.2	0.0485 mg/L	0.00022	0.0485 mg/L	0.00022	0.46%
QC value within limits for Cd 228.802 Recovery = 96.95%						
Co 228.616	37482.5	0.207 mg/L	0.0010	0.207 mg/L	0.0010	0.49%
QC value within limits for Co 228.616 Recovery = 103.46%						
Cr 267.716	171198.5	0.516 mg/L	0.0028	0.516 mg/L	0.0028	0.54%
QC value within limits for Cr 267.716 Recovery = 103.19%						
Cu 327.396	199303.5	0.499 mg/L	0.0044	0.499 mg/L	0.0044	0.88%
QC value within limits for Cu 327.396 Recovery = 99.79%						
Fe 261.387	89398.5	3.97 mg/L	0.020	3.97 mg/L	0.020	0.50%
QC value within limits for Fe 261.387 Recovery = 99.18%						
Mg 279.079	584408.3	9.96 mg/L	0.019	9.96 mg/L	0.019	0.20%
QC value within limits for Mg 279.079 Recovery = 99.57%						
Mn 257.610	989026.2	0.504 mg/L	0.0030	0.504 mg/L	0.0030	0.60%
QC value within limits for Mn 257.610 Recovery = 100.74%						
Mo 202.030	113434.4	0.999 mg/L	0.0051	0.999 mg/L	0.0051	0.51%
QC value within limits for Mo 202.030 Recovery = 100.36%						
Ni 231.604	94882.4	0.514 mg/L	0.0010	0.514 mg/L	0.0010	0.19%
QC value within limits for Ni 231.604 Recovery = 102.84%						
Pb 220.353	14933.5	0.508 mg/L	0.0028	0.508 mg/L	0.0028	0.56%
QC value within limits for Pb 220.353 Recovery = 101.65%						
Sb 206.833	35287.7	1.19 mg/L	0.004	1.19 mg/L	0.004	0.35%
QC value within limits for Sb 206.833 Recovery = 98.79%						
Se 196.026	6129.0	0.393 mg/L	0.0017	0.393 mg/L	0.0017	0.44%
QC value within limits for Se 196.026 Recovery = 98.36%						
Si 288.158	499830.3	4.94 mg/L	0.035	4.94 mg/L	0.035	0.72%
QC value within limits for Si 288.158 Recovery = 98.89%						
Sn 189.933	26738.4	0.985 mg/L	0.0101	0.985 mg/L	0.0101	1.03%
QC value within limits for Sn 189.933 Recovery = 98.69%						
Ti 337.280	1678112.8	0.987 mg/L	0.0061	0.987 mg/L	0.0061	0.62%
QC value within limits for Ti 337.280 Recovery = 98.75%						
Tl 190.800	64.3	0.466 mg/L	0.0112	0.466 mg/L	0.0112	2.41%
QC value within limits for Tl 190.800 Recovery = 93.21%						
V 292.402	285840.4	1.01 mg/L	0.005	1.01 mg/L	0.005	0.52%
QC value within limits for V 292.402 Recovery = 100.81%						
Zn 206.200	351454.2	1.02 mg/L	0.002	1.02 mg/L	0.002	0.18%
QC value within limits for Zn 206.200 Recovery = 101.55%						
K 766.490	709391.7	47.0 mg/L	0.51	47.0 mg/L	0.51	1.08%
QC value within limits for K 766.490 Recovery = 94.02%						
Na 589.592	1968090.5	49.2 mg/L	0.56	49.2 mg/L	0.56	1.13%
QC value within limits for Na 589.592 Recovery = 98.35%						
Sr 407.771	1068249.6	0.978 mg/L	0.0094	0.978 mg/L	0.0094	0.96%
QC value within limits for Sr 407.771 Recovery = 97.76%						

All analytes passed QC.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 1:08:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3803379.2						10657.44	0.28%
Ag 328.068	74.8	0.00011	mg/L	0.000081	0.00011	mg/L	0.000081	73.26%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-23.5	-0.00163	mg/L	0.000311	-0.00163	mg/L	0.000311	19.11%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-4.2	-0.00025	mg/L	0.000048	-0.00025	mg/L	0.000048	19.44%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-15.1	-0.00005	mg/L	0.000006	-0.00005	mg/L	0.000006	11.60%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	7.1	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	23.04%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-10.6	-0.00880	mg/L	0.002448	-0.00880	mg/L	0.002448	27.84%

QC value within limits for Ca 227.549 Recovery = Not calculated

Cd 228.802	-2.2	0.00000 mg/L	0.000009	0.00000 mg/L	0.000009	184.27%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616	9.4	0.00005 mg/L	0.000014	0.00005 mg/L	0.000014	26.71%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716	95.0	0.00028 mg/L	0.000056	0.00028 mg/L	0.000056	19.92%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.396	48.7	0.00012 mg/L	0.000172	0.00012 mg/L	0.000172	140.95%
QC value within limits for Cu 327.396 Recovery = Not calculated							
Fe 261.387	-30.6	-0.00134 mg/L	0.000533	-0.00134 mg/L	0.000533	39.82%
QC value within limits for Fe 261.387 Recovery = Not calculated							
Mg 279.079	-28.6	-0.00049 mg/L	0.000032	-0.00049 mg/L	0.000032	6.53%
QC value within limits for Mg 279.079 Recovery = Not calculated							
Mn 257.610	-3.0	0.00000 mg/L	0.000004	0.00000 mg/L	0.000004	253.03%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.030	123.3	0.00109 mg/L	0.000146	0.00109 mg/L	0.000146	13.49%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	5.5	0.00003 mg/L	0.000002	0.00003 mg/L	0.000002	7.92%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	1.6	0.00005 mg/L	0.000107	0.00005 mg/L	0.000107	194.46%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	9.5	0.00032 mg/L	0.000067	0.00032 mg/L	0.000067	20.97%
QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	16.7	0.00108 mg/L	0.000120	0.00108 mg/L	0.000120	11.15%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 288.158	260.0	0.00256 mg/L	0.000084	0.00256 mg/L	0.000084	3.28%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	82.6	0.00303 mg/L	0.000494	0.00303 mg/L	0.000494	16.31%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	-82.6	-0.00005 mg/L	0.000012	-0.00005 mg/L	0.000012	23.66%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	1.0	0.00742 mg/L	0.000463	0.00742 mg/L	0.000463	6.25%
QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	-10.4	-0.00004 mg/L	0.000031	-0.00004 mg/L	0.000031	82.98%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200	-437.3	-0.00126 mg/L	0.000014	-0.00126 mg/L	0.000014	1.09%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490	2877.7	0.191 mg/L	0.0023	0.191 mg/L	0.0023	1.23%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592	8176.0	0.204 mg/L	0.0070	0.204 mg/L	0.0070	3.43%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771	-61.4	0.00174 mg/L	0.000064	0.00174 mg/L	0.000064	3.69%
QC value within limits for Sr 407.771 Recovery = Not calculated							

All analytes passed QC.

Sequence No.: 13
Sample ID: W0621401 0.1
Analyst:
Sample Wt:
Dilution: 500X

Autosampler Location: 28
Date Collected: 6/14/2001 1:13:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: W0621401 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3785823.9						40884.10	1.08%
Ag 328.068	10544.5	0.0157	mg/L	0.00002	7.83	mg/L	0.008	0.10%
Al 237.312	24.2	0.00169	mg/L	0.000367	0.843	mg/L	0.1836	21.77%
As 188.979	1.5	0.00009	mg/L	0.000280	0.0457	mg/L	0.14015	306.78%
Ba 230.424	11.3	0.00003	mg/L	0.000006	0.0156	mg/L	0.00325	20.80%
Be 234.861	1.2	0.00000	mg/L	0.000002	0.00029	mg/L	0.001134	389.62%
Ca 227.549	44.1	0.0366	mg/L	0.00798	18.3	mg/L	3.99	21.82%
Cd 228.802	5.4	0.00001	mg/L	0.000003	0.00650	mg/L	0.001340	20.61%
Co 228.616	7.0	0.00004	mg/L	0.000038	0.0196	mg/L	0.01920	98.03%
Cr 267.716	164.6	0.00049	mg/L	0.000037	0.245	mg/L	0.0184	7.54%
Cu 327.396	113.7	0.00028	mg/L	0.000140	0.142	mg/L	0.0699	49.06%
Fe 261.387	90.3	0.00397	mg/L	0.000066	1.99	mg/L	0.033	1.67%
Mg 279.079	1927.1	0.0329	mg/L	0.00106	16.4	mg/L	0.53	3.21%
Mn 257.610	147.7	0.00007	mg/L	0.000004	0.0371	mg/L	0.00188	5.06%
Mo 202.030	61.3	0.00054	mg/L	0.000087	0.270	mg/L	0.0434	16.09%

Ni 231.604	2.1	0.00001 mg/L	0.000045	0.00578 mg/L	0.022265	385.44%
Pb 220.353	-0.8	-0.00003 mg/L	0.000135	-0.0133 mg/L	0.06733	505.06%
Sb 206.833	11.7	0.00039 mg/L	0.000204	0.195 mg/L	0.1021	52.44%
Se 196.026	8.7	0.00056 mg/L	0.000375	0.280 mg/L	0.1876	67.12%
Si 288.158	593.3	0.00588 mg/L	0.000911	2.94 mg/L	0.455	15.49%
Sn 189.933	22.6	0.00083 mg/L	0.000080	0.415 mg/L	0.0399	9.62%
Ti 337.280	139.0	0.00008 mg/L	0.000039	0.0414 mg/L	0.01967	47.53%
Tl 190.800	1.7	0.0125 mg/L	0.01008	6.26 mg/L	5.042	80.56%
V 292.402	-2.5	-0.00001 mg/L	0.000093	-0.00424 mg/L	0.046601	>999.9%
Zn 206.200	327.9	0.00095 mg/L	0.000014	0.474 mg/L	0.0068	1.44%
K 766.490	2427.7	0.161 mg/L	0.0067	80.4 mg/L	3.37	4.19%
Na 589.592	12270.0	0.307 mg/L	0.0000	153 mg/L	0.0	0.00%
Sr 407.771	193.8	0.00197 mg/L	0.000039	0.987 mg/L	0.0194	1.96%

Sequence No.: 14
Sample ID: W0621402 0.1
Analyst:
Sample Wt:
Dilution: 500X

Autosampler Location: 29
Date Collected: 6/14/2001 1:18:20 PM
Sample Prep Volume:
Data Type: Original

Mean Data: W0621402 0.1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3783647.9						14592.19	0.39%
Ag 328.068	27898.9	0.0414	mg/L	0.00025	20.7	mg/L	0.12	0.60%
Al 237.312	47.4	0.00329	mg/L	0.000807	1.64	mg/L	0.403	24.54%
As 188.979	5.2	0.00031	mg/L	0.000026	0.153	mg/L	0.0128	8.33%
Ba 230.424	4.9	0.00001	mg/L	0.000020	0.00680	mg/L	0.010247	150.59%
Be 234.861	0.8	0.00000	mg/L	0.000003	0.00011	mg/L	0.001286	>999.9%
Ca 227.549	37.0	0.0306	mg/L	0.00575	15.3	mg/L	2.88	18.81%
Cd 228.802	-6.5	-0.00002	mg/L	0.000003	-0.00857	mg/L	0.001734	20.24%
Co 228.616	10.7	0.00006	mg/L	0.000006	0.0294	mg/L	0.00315	10.71%
Cr 267.716	166.7	0.00050	mg/L	0.000041	0.248	mg/L	0.0206	8.30%
Cu 327.396	98.6	0.00025	mg/L	0.000059	0.123	mg/L	0.0297	24.03%
Fe 261.387	111.0	0.00489	mg/L	0.000024	2.44	mg/L	0.012	0.48%
Mg 279.079	2719.5	0.0464	mg/L	0.00074	23.2	mg/L	0.37	1.60%
Mn 257.610	154.4	0.00008	mg/L	0.000002	0.0387	mg/L	0.00113	2.92%
Mo 202.030	40.7	0.00036	mg/L	0.000041	0.179	mg/L	0.0207	11.54%
Ni 231.604	16.5	0.00009	mg/L	0.000055	0.0447	mg/L	0.02742	61.29%
Pb 220.353	4.0	0.00014	mg/L	0.000060	0.0680	mg/L	0.02999	44.12%
Sb 206.833	6.2	0.00020	mg/L	0.000168	0.0995	mg/L	0.08418	84.59%
Se 196.026	9.1	0.00059	mg/L	0.000389	0.293	mg/L	0.1943	66.39%
Si 288.158	447.6	0.00444	mg/L	0.000170	2.22	mg/L	0.085	3.84%
Sn 189.933	-3.8	-0.00014	mg/L	0.000015	-0.0683	mg/L	0.00768	11.24%
Ti 337.280	624.7	0.00037	mg/L	0.000030	0.184	mg/L	0.0149	8.13%
Tl 190.800	1.5	0.0108	mg/L	0.00041	5.39	mg/L	0.203	3.76%
V 292.402	7.6	0.00003	mg/L	0.000133	0.0135	mg/L	0.06633	490.21%
Zn 206.200	940.3	0.00272	mg/L	0.000106	1.36	mg/L	0.053	3.89%
K 766.490	2385.9	0.158	mg/L	0.0000	79.0	mg/L	0.01	0.01%
Na 589.592	15139.3	0.378	mg/L	0.0053	189	mg/L	2.6	1.40%
Sr 407.771	195.6	0.00198	mg/L	0.000027	0.988	mg/L	0.0133	1.35%

Sequence No.: 15
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 1:23:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4110693.7						26645.99	0.65%
Ag 328.068	250738.5	0.372	mg/L	0.0028	0.372	mg/L	0.0028	0.76%
QC value within limits for Ag 328.068 Recovery = 93.07%								
Al 237.312	141648.1	9.77	mg/L	0.078	9.77	mg/L	0.078	0.80%
QC value within limits for Al 237.312 Recovery = 97.67%								
As 188.979	6465.9	0.377	mg/L	0.0012	0.377	mg/L	0.0012	0.32%

	QC value within limits for As 188.979 Recovery = 94.30%					
Ba 230.424	344292.0	1.01 mg/L	0.005	1.01 mg/L	0.005	0.53%
	QC value within limits for Ba 230.424 Recovery = 100.80%					
Be 234.861	78406.7	0.0505 mg/L	0.00029	0.0505 mg/L	0.00029	0.58%
	QC value within limits for Be 234.861 Recovery = 100.99%					
Ca 227.549	12074.0	9.90 mg/L	0.006	9.90 mg/L	0.006	0.06%
	QC value within limits for Ca 227.549 Recovery = 99.05%					
Cd 228.802	19707.7	0.0477 mg/L	0.00009	0.0477 mg/L	0.00009	0.19%
	QC value within limits for Cd 228.802 Recovery = 95.48%					
Co 228.616	36809.4	0.203 mg/L	0.0012	0.203 mg/L	0.0012	0.61%
	QC value within limits for Co 228.616 Recovery = 101.60%					
Cr 267.716	168760.9	0.509 mg/L	0.0027	0.509 mg/L	0.0027	0.53%
	QC value within limits for Cr 267.716 Recovery = 101.72%					
Cu 327.396	197403.2	0.494 mg/L	0.0045	0.494 mg/L	0.0045	0.92%
	QC value within limits for Cu 327.396 Recovery = 98.84%					
Fe 261.387	88736.2	3.94 mg/L	0.013	3.94 mg/L	0.013	0.33%
	QC value within limits for Fe 261.387 Recovery = 98.44%					
Mg 279.079	573181.9	9.77 mg/L	0.043	9.77 mg/L	0.043	0.44%
	QC value within limits for Mg 279.079 Recovery = 97.66%					
Mn 257.610	979093.8	0.499 mg/L	0.0031	0.499 mg/L	0.0031	0.62%
	QC value within limits for Mn 257.610 Recovery = 99.73%					
Mo 202.030	112256.0	0.988 mg/L	0.0073	0.988 mg/L	0.0073	0.74%
	QC value within limits for Mo 202.030 Recovery = 99.31%					
Ni 231.604	93335.9	0.506 mg/L	0.0028	0.506 mg/L	0.0028	0.56%
	QC value within limits for Ni 231.604 Recovery = 101.16%					
Pb 220.353	14603.0	0.497 mg/L	0.0010	0.497 mg/L	0.0010	0.20%
	QC value within limits for Pb 220.353 Recovery = 99.41%					
Sb 206.833	34611.8	1.17 mg/L	0.001	1.17 mg/L	0.001	0.07%
	QC value within limits for Sb 206.833 Recovery = 96.89%					
Se 196.026	5995.0	0.385 mg/L	0.0002	0.385 mg/L	0.0002	0.05%
	QC value within limits for Se 196.026 Recovery = 96.20%					
Si 288.158	496833.1	4.91 mg/L	0.022	4.91 mg/L	0.022	0.44%
	QC value within limits for Si 288.158 Recovery = 98.30%					
Sn 189.933	26315.8	0.970 mg/L	0.0130	0.970 mg/L	0.0130	1.34%
	QC value within limits for Sn 189.933 Recovery = 97.13%					
Ti 337.280	1664354.4	0.979 mg/L	0.0063	0.979 mg/L	0.0063	0.64%
	QC value within limits for Ti 337.280 Recovery = 97.94%					
Tl 190.800	59.6	0.432 mg/L	0.0039	0.432 mg/L	0.0039	0.90%
	QC value less than the lower limit for Tl 190.800 Recovery = 86.31%					
V 292.402	282109.7	0.995 mg/L	0.0060	0.995 mg/L	0.0060	0.60%
	QC value within limits for V 292.402 Recovery = 99.49%					
Zn 206.200	342628.0	0.990 mg/L	0.0021	0.990 mg/L	0.0021	0.21%
	QC value within limits for Zn 206.200 Recovery = 99.00%					
K 766.490	702210.2	46.5 mg/L	0.23	46.5 mg/L	0.23	0.49%
	QC value within limits for K 766.490 Recovery = 93.07%					
Na 589.592	1922031.4	48.0 mg/L	0.20	48.0 mg/L	0.20	0.43%
	QC value within limits for Na 589.592 Recovery = 96.05%					
Sr 407.771	1054523.9	0.965 mg/L	0.0052	0.965 mg/L	0.0052	0.54%
	QC value within limits for Sr 407.771 Recovery = 96.50%					

QC Failed. Continue with analysis.

Sequence No.: 16
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 1:28:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3767892.6						9823.82	0.26%
Ag 328.068	46.4	0.00007	mg/L	0.000003	0.00007	mg/L	0.000003	3.90%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	3.0	0.00021	mg/L	0.000650	0.00021	mg/L	0.000650	305.19%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.6	0.00015	mg/L	0.000193	0.00015	mg/L	0.000193	128.37%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	5.8	0.00001	mg/L	0.000018	0.00001	mg/L	0.000018	142.62%
QC value within limits for Ba 230.424 Recovery = Not calculated								

Be 234.861	10.4	0.00001 mg/L	0.000001	0.00001 mg/L	0.000001	17.54%
QC value within limits for Be 234.861 Recovery = Not calculated						
Ca 227.549	-0.5	-0.00044 mg/L	0.003119	-0.00044 mg/L	0.003119	710.07%
QC value within limits for Ca 227.549 Recovery = Not calculated						
Cd 228.802	-0.1	0.00000 mg/L	0.000001	0.00000 mg/L	0.000001	223.71%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	6.0	0.00003 mg/L	0.000010	0.00003 mg/L	0.000010	30.14%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	41.0	0.00012 mg/L	0.000005	0.00012 mg/L	0.000005	4.33%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.396	-2.9	-0.00001 mg/L	0.000028	-0.00001 mg/L	0.000028	373.69%
QC value within limits for Cu 327.396 Recovery = Not calculated						
Fe 261.387	11.4	0.00050 mg/L	0.000188	0.00050 mg/L	0.000188	37.42%
QC value within limits for Fe 261.387 Recovery = Not calculated						
Mg 279.079	-5.4	-0.00009 mg/L	0.000134	-0.00009 mg/L	0.000134	145.61%
QC value within limits for Mg 279.079 Recovery = Not calculated						
Mn 257.610	3.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	32.33%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	127.1	0.00112 mg/L	0.000104	0.00112 mg/L	0.000104	9.25%
QC value within limits for Mo 202.030 Recovery = Not calculated						
Ni 231.604	8.0	0.00004 mg/L	0.000032	0.00004 mg/L	0.000032	74.15%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	-1.4	-0.00005 mg/L	0.000109	-0.00005 mg/L	0.000109	236.40%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	5.1	0.00018 mg/L	0.000465	0.00018 mg/L	0.000465	263.95%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	16.0	0.00103 mg/L	0.000504	0.00103 mg/L	0.000504	48.97%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	246.9	0.00244 mg/L	0.000001	0.00244 mg/L	0.000001	0.05%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	70.1	0.00257 mg/L	0.000265	0.00257 mg/L	0.000265	10.32%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	-11.7	-0.00001 mg/L	0.000020	-0.00001 mg/L	0.000020	297.86%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	2.5	0.0182 mg/L	0.01157	0.0182 mg/L	0.01157	63.59%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated						
V 292.402	4.6	0.00002 mg/L	0.000106	0.00002 mg/L	0.000106	654.24%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	-448.8	-0.00130 mg/L	0.000027	-0.00130 mg/L	0.000027	2.10%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	1744.7	0.116 mg/L	0.0036	0.116 mg/L	0.0036	3.14%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	4135.9	0.103 mg/L	0.0001	0.103 mg/L	0.0001	0.12%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-42.0	0.00176 mg/L	0.000057	0.00176 mg/L	0.000057	3.23%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 6/14/2001 1:49:00 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: TC BLK F 6/13
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 6/14/2001 1:49:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC BLK F 6/13

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3908877.3						53067.80	1.36%
Ag 328.068	158.3	0.00024	mg/L	0.000026	0.00024	mg/L	0.000026	11.09%
Al 237.312	-260.7	-0.0180	mg/L	0.00012	-0.0180	mg/L	0.00012	0.65%
As 188.979	-4.0	-0.00023	mg/L	0.000334	-0.00023	mg/L	0.000334	145.81%
Ba 230.424	-29.1	-0.00008	mg/L	0.000023	-0.00008	mg/L	0.000023	26.78%
Be 234.861	42.6	0.00003	mg/L	0.000003	0.00003	mg/L	0.000003	12.54%
Ca 227.549	68.7	0.0571	mg/L	0.00406	0.0571	mg/L	0.00406	7.11%
Cd 228.802	46.7	0.00012	mg/L	0.000005	0.00012	mg/L	0.000005	4.48%
Co 228.616	21.9	0.00012	mg/L	0.000019	0.00012	mg/L	0.000019	16.07%
Cr 267.716	210.9	0.00062	mg/L	0.000143	0.00062	mg/L	0.000143	22.95%
Cu 327.396	6611.5	0.0166	mg/L	0.00009	0.0166	mg/L	0.00009	0.52%
Fe 261.387	-98.4	-0.00431	mg/L	0.001439	-0.00431	mg/L	0.001439	33.39%
Mg 279.079	-66.2	-0.00113	mg/L	0.000132	-0.00113	mg/L	0.000132	11.67%
Mn 257.610	253.3	0.00013	mg/L	0.000006	0.00013	mg/L	0.000006	4.88%
Mo 202.030	-22.0	-0.00019	mg/L	0.000041	-0.00019	mg/L	0.000041	21.01%
Ni 231.604	52.3	0.00028	mg/L	0.000051	0.00028	mg/L	0.000051	17.96%
Pb 220.353	29.6	0.00100	mg/L	0.000239	0.00100	mg/L	0.000239	23.97%
Sb 206.833	15.3	0.00051	mg/L	0.000149	0.00051	mg/L	0.000149	29.41%
Se 196.026	6.8	0.00044	mg/L	0.000222	0.00044	mg/L	0.000222	50.30%
Si 288.158	1145.5	0.0113	mg/L	0.00108	0.0113	mg/L	0.00108	9.51%
Sn 189.933	105.3	0.00386	mg/L	0.000852	0.00386	mg/L	0.000852	22.05%
Ti 337.280	-237.9	-0.00014	mg/L	0.000000	-0.00014	mg/L	0.000000	0.15%
Tl 190.800	5.6	0.0403	mg/L	0.00359	0.0403	mg/L	0.00359	8.92%
V 292.402	-136.1	-0.00048	mg/L	0.000095	-0.00048	mg/L	0.000095	19.87%
Zn 206.200	8741.7	0.0253	mg/L	0.00040	0.0253	mg/L	0.00040	1.58%
K 766.490	1615.0	0.107	mg/L	0.0050	0.107	mg/L	0.0050	4.62%
Na 589.592	542015.4	13.5	mg/L	0.08	13.5	mg/L	0.08	0.56%
Sr 407.771	-44.7	0.00176	mg/L	0.000017	0.00176	mg/L	0.000017	0.97%

Sequence No.: 2
Sample ID: TC0626901
Analyst:
Sample Wt:
Dilution: 10X
Autosampler Location: 31
Date Collected: 6/14/2001 1:53:58 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC0626901

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3818884.9						4303.53	0.11%
Ag 328.068	135.3	0.00020	mg/L	0.000130	0.00201	mg/L	0.001305	64.93%
Al 237.312	-235.7	-0.0164	mg/L	0.00179	-0.164	mg/L	0.0179	10.94%
As 188.979	-4.5	-0.00026	mg/L	0.000205	-0.00262	mg/L	0.002050	78.11%
Ba 230.424	1322.5	0.00389	mg/L	0.000000	0.0389	mg/L	0.00000	0.00%
Be 234.861	36.1	0.00002	mg/L	0.000002	0.00023	mg/L	0.000021	9.07%
Ca 227.549	3595.9	2.98	mg/L	0.018	29.8	mg/L	0.18	0.60%
Cd 228.802	40.1	0.00010	mg/L	0.000024	0.00098	mg/L	0.000237	24.23%

Co 228.616	17.0	0.00010 mg/L	0.000016	0.00096 mg/L	0.000161	16.79%
Cr 267.716	111.7	0.00033 mg/L	0.000022	0.00326 mg/L	0.000220	6.73%
Cu 327.396	3908.8	0.00979 mg/L	0.000163	0.0979 mg/L	0.00163	1.67%
Fe 261.387	97.4	0.00490 mg/L	0.001491	0.0490 mg/L	0.01491	30.40%
Mg 279.079	47695.6	0.813 mg/L	0.0013	8.13 mg/L	0.013	0.16%
Mn 257.610	40398.3	0.0206 mg/L	0.00008	0.206 mg/L	0.0008	0.39%
Mo 202.030	-22.6	-0.00020 mg/L	0.000063	-0.00199 mg/L	0.000629	31.57%
Ni 231.604	39.2	0.00021 mg/L	0.000039	0.00212 mg/L	0.000388	18.28%
Pb 220.353	21.5	0.00072 mg/L	0.000176	0.00722 mg/L	0.001761	24.38%
Sb 206.833	5.8	0.00016 mg/L	0.000481	0.00155 mg/L	0.004812	309.51%
Se 196.026	22.3	0.00144 mg/L	0.000593	0.0144 mg/L	0.00593	41.12%
Si 288.158	15552.3	0.155 mg/L	0.0006	1.55 mg/L	0.006	0.38%
Sn 189.933	47.8	0.00179 mg/L	0.000849	0.0179 mg/L	0.00849	47.57%
Ti 337.280	-2.0	0.00020 mg/L	0.000031	0.00195 mg/L	0.000312	16.00%
Tl 190.800	5.1	0.0370 mg/L	0.00300	0.370 mg/L	0.0300	8.12%
V 292.402	-91.0	-0.00032 mg/L	0.000117	-0.00320 mg/L	0.001171	36.56%
Zn 206.200	4968.9	0.0143 mg/L	0.00025	0.143 mg/L	0.0025	1.74%
K 766.490	3514.2	0.231 mg/L	0.0088	2.31 mg/L	0.088	3.80%
Na 589.592	104202.1	2.60 mg/L	0.005	26.0 mg/L	0.05	0.21%
Sr 407.771	17216.9	0.0175 mg/L	0.00012	0.175 mg/L	0.0012	0.71%

Sequence No.: 3
Sample ID: TC0626901S
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 32
Date Collected: 6/14/2001 1:58:54 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0626901S

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3971848.2						48057.54	1.21%
Ag 328.068	132968.6	0.197	mg/L	0.0019	1.97	mg/L	0.019	0.94%
Al 237.312	147143.2	10.1	mg/L	0.10	101	mg/L	1.0	0.96%
As 188.979	17068.7	1.00	mg/L	0.011	10.0	mg/L	0.11	1.10%
Ba 230.424	3219244.8	9.45	mg/L	0.080	94.5	mg/L	0.80	0.84%
Be 234.861	1559212.7	1.01	mg/L	0.010	10.1	mg/L	0.10	0.97%
Ca 227.549	15869.4	13.1	mg/L	0.23	131	mg/L	2.3	1.75%
Cd 228.802	387621.5	0.966	mg/L	0.0082	9.66	mg/L	0.082	0.85%
Co 228.616	180158.4	0.999	mg/L	0.0088	9.99	mg/L	0.088	0.88%
Cr 267.716	337446.7	1.01	mg/L	0.009	10.1	mg/L	0.09	0.89%
Cu 327.396	353250.5	0.885	mg/L	0.0137	8.85	mg/L	0.137	1.55%
Fe 261.387	19445.2	0.988	mg/L	0.0119	9.88	mg/L	0.119	1.21%
Mg 279.079	640564.9	10.9	mg/L	0.11	109	mg/L	1.1	0.96%
Mn 257.610	2008973.1	1.02	mg/L	0.009	10.2	mg/L	0.09	0.90%
Mo 202.030	114391.6	1.01	mg/L	0.010	10.1	mg/L	0.10	0.99%
Ni 231.604	184602.9	1.00	mg/L	0.008	10.0	mg/L	0.08	0.84%
Pb 220.353	30131.1	1.02	mg/L	0.011	10.2	mg/L	0.11	1.05%
Sb 206.833	30120.4	1.00	mg/L	0.011	10.0	mg/L	0.11	1.09%
Se 196.026	15038.0	0.968	mg/L	0.0040	9.68	mg/L	0.040	0.42%
Si 288.158	931985.2	9.21	mg/L	0.091	92.1	mg/L	0.91	0.98%
Sn 189.933	-302.4	-0.00577	mg/L	0.001010	-0.0577	mg/L	0.01010	17.49%
Ti 337.280	1703230.6	1.00	mg/L	0.009	10.0	mg/L	0.09	0.90%
Tl 190.800	112.2	0.813	mg/L	0.0312	8.13	mg/L	0.312	3.84%
V 292.402	281407.0	0.992	mg/L	0.0076	9.92	mg/L	0.076	0.77%
Zn 206.200	364160.2	1.05	mg/L	0.009	10.5	mg/L	0.09	0.85%
K 766.490	746571.6	49.5	mg/L	0.81	495	mg/L	8.1	1.63%
Na 589.592	2104435.0	52.6	mg/L	0.86	526	mg/L	8.6	1.64%
Sr 407.771	1127488.1	1.03	mg/L	0.014	10.3	mg/L	0.14	1.35%

Sequence No.: 4
Sample ID: TC0627003
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 33
Date Collected: 6/14/2001 2:03:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0627003

Analyte	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	3853365.5						106108.62	2.75%
Ag 328.068	714.8	0.00106	mg/L	0.000061	0.0106	mg/L	0.00061	5.73%
Al 237.312	3353.1	0.228	mg/L	0.0018	2.28	mg/L	0.018	0.80%
As 188.979	10.2	0.00059	mg/L	0.000055	0.00595	mg/L	0.000550	9.25%
Ba 230.424	6734.9	0.0201	mg/L	0.00010	0.201	mg/L	0.0010	0.51%
Be 234.861	112.5	0.00006	mg/L	0.000020	0.00063	mg/L	0.000196	31.25%
Ca 227.549	91563.7	76.0	mg/L	1.59	760	mg/L	15.9	2.09%
Cd 228.802	243.3	0.00054	mg/L	0.000011	0.00543	mg/L	0.000109	2.02%
Co 228.616	90.8	0.00053	mg/L	0.000001	0.00534	mg/L	0.000012	0.23%
Cr 267.716	421.6	0.00127	mg/L	0.000111	0.0127	mg/L	0.00111	8.78%
Cu 327.396	18504.3	0.0464	mg/L	0.00116	0.464	mg/L	0.0116	2.50%
Fe 261.387	3141.6	0.141	mg/L	0.0022	1.41	mg/L	0.022	1.60%
Mg 279.079	55959.5	0.947	mg/L	0.0220	9.47	mg/L	0.220	2.33%
Mn 257.610	165762.4	0.0845	mg/L	0.00191	0.845	mg/L	0.0191	2.26%
Mo 202.030	40.7	0.00036	mg/L	0.000030	0.00358	mg/L	0.000297	8.30%
Ni 231.604	118.2	0.00064	mg/L	0.000068	0.00643	mg/L	0.000680	10.57%
Pb 220.353	562.7	0.0190	mg/L	0.00003	0.190	mg/L	0.0003	0.14%
Sb 206.833	35.9	0.00065	mg/L	0.000217	0.00647	mg/L	0.002172	33.59%
Se 196.026	58.1	0.00372	mg/L	0.000057	0.0372	mg/L	0.00057	1.54%
Si 288.158	114377.6	1.17	mg/L	0.031	11.7	mg/L	0.31	2.63%
Sn 189.933	-160.6	-0.00511	mg/L	0.001607	-0.0511	mg/L	0.01607	31.42%
Ti 337.280	8978.6	0.00869	mg/L	0.000094	0.0869	mg/L	0.00094	1.08%
Tl 190.800	14.3	0.103	mg/L	0.0060	1.03	mg/L	0.060	5.76%
V 292.402	578.5	0.00204	mg/L	0.000009	0.0204	mg/L	0.00009	0.46%
Zn 206.200	13749.4	0.0397	mg/L	0.00046	0.397	mg/L	0.0046	1.15%
K 766.490	24098.0	1.60	mg/L	0.105	16.0	mg/L	1.05	6.60%
Na 589.592	5572227.2	139	mg/L	4.1	1390	mg/L	41.2	2.96%
Sr 407.771	31005.9	0.0301	mg/L	0.00034	0.301	mg/L	0.0034	1.13%

Sequence No.: 5
Sample ID: TC0627004 WG99385-01
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 34
Date Collected: 6/14/2001 2:07:59 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0627004 WG99385-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4028725.0						16835.44	0.42%
Ag 328.068	1258.0	0.00187	mg/L	0.000045	0.0187	mg/L	0.00045	2.41%
Al 237.312	-273.9	-0.0281	mg/L	0.00030	-0.281	mg/L	0.0030	1.08%
As 188.979	8.1	0.00048	mg/L	0.000196	0.00483	mg/L	0.001963	40.61%
Ba 230.424	6622.9	0.0202	mg/L	0.00001	0.202	mg/L	0.0001	0.05%
Be 234.861	118.3	0.00008	mg/L	0.000001	0.00077	mg/L	0.000013	1.63%
Ca 227.549	218954.9	182	mg/L	2.5	1820	mg/L	25.2	1.38%
Cd 228.802	446.3	0.00097	mg/L	0.000007	0.00966	mg/L	0.000069	0.71%
Co 228.616	48.2	0.00036	mg/L	0.000022	0.00360	mg/L	0.000216	6.00%
Cr 267.716	221.4	0.00069	mg/L	0.000019	0.00686	mg/L	0.000190	2.77%
Cu 327.396	8924.3	0.0224	mg/L	0.00031	0.224	mg/L	0.0031	1.41%
Fe 261.387	-134.6	-0.00432	mg/L	0.001751	-0.0432	mg/L	0.01751	40.50%
Mg 279.079	143804.3	2.43	mg/L	0.044	24.3	mg/L	0.44	1.79%
Mn 257.610	100915.3	0.0513	mg/L	0.00088	0.513	mg/L	0.0088	1.71%
Mo 202.030	-23.8	-0.00021	mg/L	0.000091	-0.00210	mg/L	0.000909	43.33%
Ni 231.604	338.1	0.00183	mg/L	0.000054	0.0183	mg/L	0.00054	2.97%
Pb 220.353	224.4	0.00757	mg/L	0.000150	0.0757	mg/L	0.00150	1.98%
Sb 206.833	36.7	0.00010	mg/L	0.000074	0.00104	mg/L	0.000736	70.68%
Se 196.026	48.1	0.00310	mg/L	0.000540	0.0310	mg/L	0.00540	17.46%
Si 288.158	90134.4	0.981	mg/L	0.0176	9.81	mg/L	0.176	1.80%
Sn 189.933	-292.6	-0.00891	mg/L	0.001177	-0.0891	mg/L	0.01177	13.21%
Ti 337.280	-540.1	0.00714	mg/L	0.000118	0.0714	mg/L	0.00118	1.66%
Tl 190.800	5.5	0.0396	mg/L	0.00236	0.396	mg/L	0.0236	5.96%
V 292.402	1739.1	0.00614	mg/L	0.000048	0.0614	mg/L	0.00048	0.78%
Zn 206.200	11944.9	0.0345	mg/L	0.00009	0.345	mg/L	0.0009	0.27%
K 766.490	9586.5	0.628	mg/L	0.0113	6.28	mg/L	0.113	1.80%
Na 589.592	189156.8	4.73	mg/L	0.005	47.3	mg/L	0.05	0.10%
Sr 407.771	259550.9	0.239	mg/L	0.0020	2.39	mg/L	0.020	0.82%

Sequence No.: 6
Sample ID: TC0627005S WG99385-05
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 35
Date Collected: 6/14/2001 2:12:51 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0627005S WG99385-05

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3810866.6						14787.37	0.39%
Ag 328.068	134430.0	0.200	mg/L	0.0006	2.00	mg/L	0.006	0.32%
Al 237.312	150449.2	10.3	mg/L	0.04	103	mg/L	0.4	0.37%
As 188.979	16995.0	0.999	mg/L	0.0084	9.99	mg/L	0.084	0.84%
Ba 230.424	2990719.7	8.78	mg/L	0.020	87.8	mg/L	0.20	0.23%
Be 234.861	1575766.1	1.02	mg/L	0.003	10.2	mg/L	0.03	0.30%
Ca 227.549	218958.9	182	mg/L	0.7	1820	mg/L	7.2	0.40%
Cd 228.802	378284.4	0.942	mg/L	0.0035	9.42	mg/L	0.035	0.37%
Co 228.616	163246.8	0.905	mg/L	0.0030	9.05	mg/L	0.030	0.33%
Cr 267.716	317619.0	0.951	mg/L	0.0026	9.51	mg/L	0.026	0.28%
Cu 327.396	255925.6	0.641	mg/L	0.0076	6.41	mg/L	0.076	1.19%
Fe 261.387	19282.5	0.971	mg/L	0.0029	9.71	mg/L	0.029	0.29%
Mg 279.079	690284.1	11.7	mg/L	0.03	117	mg/L	0.3	0.23%
Mn 257.610	1977077.6	1.01	mg/L	0.003	10.1	mg/L	0.03	0.31%
Mo 202.030	110494.1	0.973	mg/L	0.0031	9.73	mg/L	0.031	0.32%
Ni 231.604	166860.6	0.904	mg/L	0.0031	9.04	mg/L	0.031	0.34%
Pb 220.353	28173.5	0.955	mg/L	0.0000	9.55	mg/L	0.000	0.00%
Sb 206.833	29562.9	0.984	mg/L	0.0043	9.84	mg/L	0.043	0.43%
Se 196.026	14329.2	0.922	mg/L	0.0051	9.22	mg/L	0.051	0.56%
Si 288.158	866202.1	8.65	mg/L	0.048	86.5	mg/L	0.48	0.56%
Sn 189.933	-520.0	-0.0123	mg/L	0.00041	-0.123	mg/L	0.0041	3.33%
Ti 337.280	1650637.5	0.980	mg/L	0.0028	9.80	mg/L	0.028	0.28%
Tl 190.800	76.7	0.556	mg/L	0.0332	5.56	mg/L	0.332	5.98%
V 292.402	276072.4	0.973	mg/L	0.0037	9.73	mg/L	0.037	0.38%
Zn 206.200	313309.4	0.906	mg/L	0.0041	9.06	mg/L	0.041	0.45%
K 766.490	762559.5	50.5	mg/L	0.11	505	mg/L	1.1	0.22%
Na 589.592	2184676.8	54.6	mg/L	0.39	546	mg/L	3.9	0.72%
Sr 407.771	1315444.1	1.20	mg/L	0.007	12.0	mg/L	0.07	0.61%

Sequence No.: 7
Sample ID: TC0627006 SD WG99385-06
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 36
Date Collected: 6/14/2001 2:17:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0627006 SD WG99385-06

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3793331.3						4325.96	0.11%
Ag 328.068	134798.6	0.200	mg/L	0.0012	2.00	mg/L	0.012	0.60%
Al 237.312	150349.0	10.3	mg/L	0.05	103	mg/L	0.5	0.48%
As 188.979	16922.8	0.995	mg/L	0.0035	9.95	mg/L	0.035	0.35%
Ba 230.424	2994120.8	8.79	mg/L	0.022	87.9	mg/L	0.22	0.25%
Be 234.861	1576629.2	1.02	mg/L	0.004	10.2	mg/L	0.04	0.42%
Ca 227.549	219159.2	182	mg/L	1.2	1820	mg/L	12.4	0.68%
Cd 228.802	378867.0	0.944	mg/L	0.0043	9.44	mg/L	0.043	0.46%
Co 228.616	162901.7	0.903	mg/L	0.0002	9.03	mg/L	0.002	0.02%
Cr 267.716	318198.5	0.953	mg/L	0.0034	9.53	mg/L	0.034	0.36%
Cu 327.396	262763.3	0.658	mg/L	0.0102	6.58	mg/L	0.102	1.56%
Fe 261.387	19414.2	0.977	mg/L	0.0029	9.77	mg/L	0.029	0.30%
Mg 279.079	655531.6	11.2	mg/L	0.01	112	mg/L	0.1	0.11%
Mn 257.610	1976435.5	1.01	mg/L	0.003	10.1	mg/L	0.03	0.31%
Mo 202.030	110315.6	0.971	mg/L	0.0016	9.71	mg/L	0.016	0.16%
Ni 231.604	166943.6	0.904	mg/L	0.0014	9.04	mg/L	0.014	0.15%
Pb 220.353	28346.0	0.961	mg/L	0.0001	9.61	mg/L	0.001	0.01%
Sb 206.833	29348.7	0.977	mg/L	0.0027	9.77	mg/L	0.027	0.27%
Se 196.026	14016.4	0.902	mg/L	0.0032	9.02	mg/L	0.032	0.35%
Si 288.158	843508.7	8.42	mg/L	0.059	84.2	mg/L	0.59	0.70%
Sn 189.933	-542.4	-0.0131	mg/L	0.00100	-0.131	mg/L	0.0100	7.67%

Ti 337.280	1654555.5	0.982 mg/L	0.0055	9.82 mg/L	0.055	0.56%
Tl 190.800	84.8	0.614 mg/L	0.0293	6.14 mg/L	0.293	4.77%
V 292.402	276273.4	0.974 mg/L	0.0038	9.74 mg/L	0.038	0.39%
Zn 206.200	313325.5	0.906 mg/L	0.0009	9.06 mg/L	0.009	0.10%
K 766.490	765276.9	50.7 mg/L	0.56	507 mg/L	5.6	1.10%
Na 589.592	2162540.8	54.0 mg/L	0.81	540 mg/L	8.1	1.50%
Sr 407.771	1260805.7	1.15 mg/L	0.016	11.5 mg/L	0.16	1.39%

Sequence No.: 8
Sample ID: TC0627007
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 37
Date Collected: 6/14/2001 2:21:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0627007

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4013034.5						54122.27	1.35%
Ag 328.068	1164.0	0.00173	mg/L	0.000014	0.0173	mg/L	0.00014	0.79%
Al 237.312	621.4	0.0344	mg/L	0.00006	0.344	mg/L	0.0006	0.17%
As 188.979	-7.4	-0.00043	mg/L	0.000011	-0.00426	mg/L	0.000110	2.58%
Ba 230.424	10747.5	0.0322	mg/L	0.00000	0.322	mg/L	0.0000	0.01%
Be 234.861	147.7	0.00009	mg/L	0.000002	0.00094	mg/L	0.000021	2.24%
Ca 227.549	202882.2	168	mg/L	0.4	1680	mg/L	4.3	0.26%
Cd 228.802	520.9	0.00117	mg/L	0.000004	0.0117	mg/L	0.00004	0.36%
Co 228.616	103.9	0.00066	mg/L	0.000001	0.00661	mg/L	0.000012	0.18%
Cr 267.716	414.3	0.00124	mg/L	0.000176	0.0124	mg/L	0.00176	14.15%
Cu 327.396	41043.3	0.103	mg/L	0.0075	1.03	mg/L	0.075	7.31%
Fe 261.387	449.8	0.0230	mg/L	0.00240	0.230	mg/L	0.0240	10.47%
Mg 279.079	62904.3	1.06	mg/L	0.008	10.6	mg/L	0.08	0.72%
Mn 257.610	204835.5	0.104	mg/L	0.0006	1.04	mg/L	0.006	0.61%
Mo 202.030	35.2	0.00031	mg/L	0.000106	0.00310	mg/L	0.001057	34.09%
Ni 231.604	265.3	0.00144	mg/L	0.000044	0.0144	mg/L	0.00044	3.09%
Pb 220.353	236.8	0.00800	mg/L	0.000253	0.0800	mg/L	0.00253	3.17%
Sb 206.833	49.0	0.00057	mg/L	0.000042	0.00573	mg/L	0.000424	7.41%
Se 196.026	81.1	0.00522	mg/L	0.000798	0.0522	mg/L	0.00798	15.28%
Si 288.158	70734.2	0.783	mg/L	0.0042	7.83	mg/L	0.042	0.54%
Sn 189.933	-306.7	-0.00956	mg/L	0.001586	-0.0956	mg/L	0.01586	16.60%
Ti 337.280	1607.2	0.00815	mg/L	0.000107	0.0815	mg/L	0.00107	1.31%
Tl 190.800	12.3	0.0888	mg/L	0.00314	0.888	mg/L	0.0314	3.53%
V 292.402	561.5	0.00198	mg/L	0.000022	0.0198	mg/L	0.00022	1.13%
Zn 206.200	12535.0	0.0362	mg/L	0.00013	0.362	mg/L	0.0013	0.36%
K 766.490	13796.7	0.912	mg/L	0.0348	9.12	mg/L	0.348	3.82%
Na 589.592	82775.8	2.07	mg/L	0.060	20.7	mg/L	0.60	2.92%
Sr 407.771	65432.4	0.0616	mg/L	0.00155	0.616	mg/L	0.0155	2.52%

Sequence No.: 9
Sample ID: TC0616302 0.2
Analyst:
Sample Wt:
Dilution: 50X

Autosampler Location: 38
Date Collected: 6/14/2001 2:26:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0616302 0.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4009396.7						39134.14	0.98%
Ag 328.068	146.9	0.00022	mg/L	0.000062	0.0109	mg/L	0.00308	28.26%
Al 237.312	144.1	0.00971	mg/L	0.000449	0.486	mg/L	0.0224	4.62%
As 188.979	-62.0	-0.00162	mg/L	0.000083	-0.0811	mg/L	0.00414	5.11%
Ba 230.424	118.3	0.00036	mg/L	0.000000	0.0179	mg/L	0.00002	0.10%
Be 234.861	30.5	0.00002	mg/L	0.000007	0.00097	mg/L	0.000335	34.56%
Ca 227.549	6104.6	5.07	mg/L	0.088	253	mg/L	4.4	1.74%
Cd 228.802	43.2	0.00006	mg/L	0.000012	0.00309	mg/L	0.000621	20.07%
Co 228.616	42.0	0.00022	mg/L	0.000001	0.0112	mg/L	0.00007	0.65%
Cr 267.716	67999.9	0.202	mg/L	0.0035	10.1	mg/L	0.17	1.72%
Cu 327.396	3398.3	0.00851	mg/L	0.000190	0.426	mg/L	0.0095	2.23%
Fe 261.387	188.2	0.00862	mg/L	0.000214	0.431	mg/L	0.0107	2.49%

Mg 279.079	7165.7	0.122	mg/L	0.0020	6.09	mg/L	0.101	1.67%
Mn 257.610	21604.5	0.0109	mg/L	0.00013	0.545	mg/L	0.0063	1.16%
Mo 202.030	272.7	0.00240	mg/L	0.000010	0.120	mg/L	0.0005	0.41%
Ni 231.604	38.2	0.00022	mg/L	0.000007	0.0112	mg/L	0.00033	3.00%
Pb 220.353	29.5	0.00112	mg/L	0.000077	0.0558	mg/L	0.00383	6.87%
Sb 206.833	129.4	0.00012	mg/L	0.000156	0.00584	mg/L	0.007819	133.95%
Se 196.026	29.5	0.00190	mg/L	0.000903	0.0952	mg/L	0.04517	47.45%
Si 288.158	7346.9	0.0751	mg/L	0.00100	3.75	mg/L	0.050	1.34%
Sn 189.933	-158.1	-0.00575	mg/L	0.000205	-0.287	mg/L	0.0103	3.57%
Ti 337.280	-214.8	0.00013	mg/L	0.000061	0.00632	mg/L	0.003026	47.90%
Tl 190.800	3.0	0.0216	mg/L	0.01186	1.08	mg/L	0.593	54.90%
V 292.402	-331.6	-0.00117	mg/L	0.000064	-0.0585	mg/L	0.00319	5.45%
Zn 206.200	22982.5	0.0667	mg/L	0.00079	3.34	mg/L	0.040	1.18%
K 766.490	4033.0	0.267	mg/L	0.0110	13.4	mg/L	0.55	4.11%
Na 589.592	1221659.7	30.5	mg/L	0.34	1530	mg/L	16.8	1.10%
Sr 407.771	319525.1	0.294	mg/L	0.0032	14.7	mg/L	0.16	1.10%

Sequence No.: 10
Sample ID: TC0616302PS 0.2
Analyst:
Sample Wt:
Dilution: 50X

Autosampler Location: 39
Date Collected: 6/14/2001 2:31:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0616302PS 0.2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3975562.7						26740.29	0.67%
Ag 328.068	129856.5	0.193	mg/L	0.0018	9.64	mg/L	0.090	0.93%
Al 237.312	141475.4	9.73	mg/L	0.102	487	mg/L	5.1	1.05%
As 188.979	15953.4	0.940	mg/L	0.0055	47.0	mg/L	0.28	0.59%
Ba 230.424	3066452.9	9.00	mg/L	0.082	450	mg/L	4.1	0.91%
Be 234.861	1513253.5	0.978	mg/L	0.0093	48.9	mg/L	0.46	0.95%
Ca 227.549	16940.3	14.0	mg/L	0.17	700	mg/L	8.5	1.21%
Cd 228.802	373714.7	0.931	mg/L	0.0089	46.5	mg/L	0.44	0.95%
Co 228.616	175424.5	0.973	mg/L	0.0091	48.6	mg/L	0.46	0.94%
Cr 267.716	385436.0	1.15	mg/L	0.010	57.6	mg/L	0.52	0.90%
Cu 327.396	389519.3	0.975	mg/L	0.0099	48.8	mg/L	0.49	1.01%
Fe 261.387	19564.4	0.990	mg/L	0.0136	49.5	mg/L	0.68	1.37%
Mg 279.079	563212.5	9.60	mg/L	0.094	480	mg/L	4.7	0.98%
Mn 257.610	1922401.1	0.979	mg/L	0.0098	49.0	mg/L	0.49	1.00%
Mo 202.030	99958.4	0.880	mg/L	0.0071	44.0	mg/L	0.36	0.81%
Ni 231.604	179252.4	0.971	mg/L	0.0098	48.6	mg/L	0.49	1.01%
Pb 220.353	28243.5	0.957	mg/L	0.0092	47.9	mg/L	0.46	0.96%
Sb 206.833	27922.2	0.925	mg/L	0.0130	46.2	mg/L	0.65	1.41%
Se 196.026	11832.3	0.761	mg/L	0.0089	38.1	mg/L	0.45	1.17%
Si 288.158	832474.8	8.23	mg/L	0.074	412	mg/L	3.7	0.90%
Sn 189.933	-401.2	-0.00957	mg/L	0.000575	-0.479	mg/L	0.0288	6.01%
Ti 337.280	1641272.0	0.968	mg/L	0.0088	48.4	mg/L	0.44	0.91%
Tl 190.800	133.0	0.963	mg/L	0.0465	48.2	mg/L	2.33	4.83%
V 292.402	267269.2	0.942	mg/L	0.0093	47.1	mg/L	0.47	0.99%
Zn 206.200	357427.1	1.03	mg/L	0.010	51.7	mg/L	0.48	0.93%
K 766.490	714116.4	47.3	mg/L	0.20	2370	mg/L	9.9	0.42%
Na 589.592	2968838.0	74.2	mg/L	0.29	3710	mg/L	14.6	0.39%
Sr 407.771	1324926.1	1.21	mg/L	0.006	60.6	mg/L	0.28	0.47%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 2:35:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4110100.4						4817.31	0.12%
Ag 328.068	253268.0	0.376	mg/L	0.0003	0.376	mg/L	0.0003	0.07%

QC value within limits for Ag 328.068 Recovery = 94.01%

Al 237.312	142995.8	9.86 mg/L	0.000	9.86 mg/L	0.000	0.00%
QC value within limits for Al 237.312 Recovery = 98.60%						
As 188.979	6517.2	0.380 mg/L	0.0004	0.380 mg/L	0.0004	0.09%
QC value within limits for As 188.979 Recovery = 95.04%						
Ba 230.424	347567.9	1.02 mg/L	0.001	1.02 mg/L	0.001	0.10%
QC value within limits for Ba 230.424 Recovery = 101.75%						
Be 234.861	79422.6	0.0512 mg/L	0.00000	0.0512 mg/L	0.00000	0.01%
QC value within limits for Be 234.861 Recovery = 102.30%						
Ca 227.549	12189.5	10.0 mg/L	0.05	10.0 mg/L	0.05	0.47%
QC value within limits for Ca 227.549 Recovery = 100.00%						
Cd 228.802	19887.7	0.0482 mg/L	0.00013	0.0482 mg/L	0.00013	0.28%
QC value within limits for Cd 228.802 Recovery = 96.36%						
Co 228.616	37173.5	0.205 mg/L	0.0003	0.205 mg/L	0.0003	0.13%
QC value within limits for Co 228.616 Recovery = 102.60%						
Cr 267.716	169853.7	0.512 mg/L	0.0012	0.512 mg/L	0.0012	0.24%
QC value within limits for Cr 267.716 Recovery = 102.38%						
Cu 327.396	199787.9	0.500 mg/L	0.0008	0.500 mg/L	0.0008	0.15%
QC value within limits for Cu 327.396 Recovery = 100.03%						
Fe 261.387	88981.3	3.95 mg/L	0.017	3.95 mg/L	0.017	0.43%
QC value within limits for Fe 261.387 Recovery = 98.72%						
Mg 279.079	577188.0	9.83 mg/L	0.046	9.83 mg/L	0.046	0.47%
QC value within limits for Mg 279.079 Recovery = 98.34%						
Mn 257.610	988338.5	0.503 mg/L	0.0006	0.503 mg/L	0.0006	0.13%
QC value within limits for Mn 257.610 Recovery = 100.67%						
Mo 202.030	113284.0	0.997 mg/L	0.0024	0.997 mg/L	0.0024	0.24%
QC value within limits for Mo 202.030 Recovery = 100.22%						
Ni 231.604	93883.9	0.509 mg/L	0.0016	0.509 mg/L	0.0016	0.32%
QC value within limits for Ni 231.604 Recovery = 101.76%						
Pb 220.353	14699.4	0.500 mg/L	0.0010	0.500 mg/L	0.0010	0.20%
QC value within limits for Pb 220.353 Recovery = 100.07%						
Sb 206.833	34880.5	1.17 mg/L	0.002	1.17 mg/L	0.002	0.16%
QC value within limits for Sb 206.833 Recovery = 97.65%						
Se 196.026	6101.6	0.392 mg/L	0.0014	0.392 mg/L	0.0014	0.36%
QC value within limits for Se 196.026 Recovery = 97.92%						
Si 288.158	496962.7	4.92 mg/L	0.005	4.92 mg/L	0.005	0.11%
QC value within limits for Si 288.158 Recovery = 98.32%						
Sn 189.933	26511.8	0.977 mg/L	0.0106	0.977 mg/L	0.0106	1.09%
QC value within limits for Sn 189.933 Recovery = 97.86%						
Ti 337.280	1677356.1	0.987 mg/L	0.0007	0.987 mg/L	0.0007	0.08%
QC value within limits for Ti 337.280 Recovery = 98.71%						
Tl 190.800	63.6	0.461 mg/L	0.0137	0.461 mg/L	0.0137	2.97%
QC value within limits for Tl 190.800 Recovery = 92.19%						
V 292.402	284595.4	1.00 mg/L	0.002	1.00 mg/L	0.002	0.17%
QC value within limits for V 292.402 Recovery = 100.37%						
Zn 206.200	344065.7	0.994 mg/L	0.0074	0.994 mg/L	0.0074	0.74%
QC value within limits for Zn 206.200 Recovery = 99.41%						
K 766.490	715220.2	47.4 mg/L	0.67	47.4 mg/L	0.67	1.41%
QC value within limits for K 766.490 Recovery = 94.79%						
Na 589.592	1938484.7	48.4 mg/L	0.77	48.4 mg/L	0.77	1.58%
QC value within limits for Na 589.592 Recovery = 96.87%						
Sr 407.771	1059128.4	0.969 mg/L	0.0162	0.969 mg/L	0.0162	1.67%
QC value within limits for Sr 407.771 Recovery = 96.92%						

All analytes passed QC.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 2:40:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3807774.9						5133.34	0.13%
Ag 328.068	-26.1	-0.00004	mg/L	0.000074	-0.00004	mg/L	0.000074	191.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	1.6	0.00011	mg/L	0.000392	0.00011	mg/L	0.000392	361.24%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-5.3	-0.00032	mg/L	0.000293	-0.00032	mg/L	0.000293	92.78%

QC value within limits for As 188.979 Recovery = Not calculated

Ba 230.424	7.0	0.00001 mg/L	0.000002	0.00001 mg/L	0.000002	10.88%

QC value within limits for Ba 230.424 Recovery = Not calculated

Be 234.861	4.5	0.00000 mg/L	0.000006	0.00000 mg/L	0.000006	189.41%

QC value within limits for Be 234.861 Recovery = Not calculated

Ca 227.549	-0.8	-0.00069 mg/L	0.001921	-0.00069 mg/L	0.001921	278.76%

QC value within limits for Ca 227.549 Recovery = Not calculated

Cd 228.802	15.2	0.00004 mg/L	0.000021	0.00004 mg/L	0.000021	55.01%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616	4.2	0.00002 mg/L	0.000003	0.00002 mg/L	0.000003	10.37%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716	99.0	0.00029 mg/L	0.000000	0.00029 mg/L	0.000000	0.11%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 327.396	83.4	0.00021 mg/L	0.000105	0.00021 mg/L	0.000105	50.34%

QC value within limits for Cu 327.396 Recovery = Not calculated

Fe 261.387	-4.4	-0.00019 mg/L	0.000335	-0.00019 mg/L	0.000335	176.91%

QC value within limits for Fe 261.387 Recovery = Not calculated

Mg 279.079	1.5	0.00002 mg/L	0.000394	0.00002 mg/L	0.000394	>999.9%

QC value within limits for Mg 279.079 Recovery = Not calculated

Mn 257.610	2.7	0.00000 mg/L	0.000002	0.00000 mg/L	0.000002	168.79%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	168.7	0.00148 mg/L	0.000019	0.00148 mg/L	0.000019	1.25%

QC value within limits for Mo 202.030 Recovery = Not calculated

Ni 231.604	1.7	0.00001 mg/L	0.000062	0.00001 mg/L	0.000062	664.27%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	-0.8	-0.00002 mg/L	0.000014	-0.00002 mg/L	0.000014	58.80%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	-0.3	-0.00001 mg/L	0.000133	-0.00001 mg/L	0.000133	>999.9%

QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	25.7	0.00166 mg/L	0.000549	0.00166 mg/L	0.000549	33.15%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 288.158	339.1	0.00335 mg/L	0.000193	0.00335 mg/L	0.000193	5.75%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	61.9	0.00227 mg/L	0.000093	0.00227 mg/L	0.000093	4.10%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	-21.6	-0.00001 mg/L	0.000001	-0.00001 mg/L	0.000001	7.17%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	0.6	0.00450 mg/L	0.013128	0.00450 mg/L	0.013128	291.74%

QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	-2.5	-0.00001 mg/L	0.000038	-0.00001 mg/L	0.000038	430.44%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	-423.0	-0.00122 mg/L	0.000011	-0.00122 mg/L	0.000011	0.94%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	1979.2	0.131 mg/L	0.0027	0.131 mg/L	0.0027	2.08%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	4942.1	0.123 mg/L	0.0011	0.123 mg/L	0.0011	0.92%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771	-60.8	0.00174 mg/L	0.000008	0.00174 mg/L	0.000008	0.44%

QC value within limits for Sr 407.771 Recovery = Not calculated

All analytes passed QC.

Analysis Begun

Start Time: 6/14/2001 3:17:41 PM **Plasma On Time: 6/14/2001 8:07:41 AM**
Logged In Analyst: Administrator **Technique: ICP Continuous**
Spectrometer Model: Optima 3000 DV **Autosampler Model: AS-90**

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 40**
Sample ID: 0624601 **Date Collected: 6/14/2001 3:17:41 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624601

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3943452.6						70992.59	1.80%
Ag 328.068	671.8	0.00100	mg/L	0.000063	0.00100	mg/L	0.000063	6.35%
Al 237.312	14279.5	0.981	mg/L	0.0024	0.981	mg/L	0.0024	0.24%
As 188.979	128.3	0.00747	mg/L	0.000410	0.00747	mg/L	0.000410	5.48%
Ba 230.424	72455.6	0.213	mg/L	0.0076	0.213	mg/L	0.0076	3.56%
Be 234.861	219.6	0.00011	mg/L	0.000011	0.00011	mg/L	0.000011	10.36%
Ca 227.549	110977.2	92.1	mg/L	3.24	92.1	mg/L	3.24	3.52%
Cd 228.802	66.5	0.00006	mg/L	0.000021	0.00006	mg/L	0.000021	37.08%
Co 228.616	9.4	0.00007	mg/L	0.000019	0.00007	mg/L	0.000019	27.28%
Cr 267.716	426.2	0.00139	mg/L	0.000034	0.00139	mg/L	0.000034	2.44%
Cu 327.396	572.3	0.00143	mg/L	0.000143	0.00143	mg/L	0.000143	9.99%
Fe 261.387	11156.8	0.491	mg/L	0.0003	0.491	mg/L	0.0003	0.07%
Mg 279.079	517586.5	8.82	mg/L	0.136	8.82	mg/L	0.136	1.54%
Mn 257.610	22657.7	0.0113	mg/L	0.00036	0.0113	mg/L	0.00036	3.22%
Mo 202.030	164.4	0.00144	mg/L	0.000109	0.00144	mg/L	0.000109	7.55%
Ni 231.604	12.3	0.00008	mg/L	0.000004	0.00008	mg/L	0.000004	4.85%
Pb 220.353	96.8	0.00338	mg/L	0.000211	0.00338	mg/L	0.000211	6.24%
Sb 206.833	24.5	-0.00003	mg/L	0.000123	-0.00003	mg/L	0.000123	370.23%
Se 196.026	7.9	0.00041	mg/L	0.000416	0.00041	mg/L	0.000416	100.55%
Si 288.158	1826497.9	18.1	mg/L	0.26	18.1	mg/L	0.26	1.44%
Sn 189.933	-428.7	-0.0147	mg/L	0.00021	-0.0147	mg/L	0.00021	1.40%
Ti 337.280	35850.1	0.0246	mg/L	0.00088	0.0246	mg/L	0.00088	3.56%
Tl 190.800	1.3	0.00943	mg/L	0.004821	0.00943	mg/L	0.004821	51.15%
V 292.402	6187.6	0.0218	mg/L	0.00066	0.0218	mg/L	0.00066	3.04%
Zn 206.200	1675.6	0.00468	mg/L	0.000027	0.00468	mg/L	0.000027	0.58%
K 766.490	108466.5	7.17	mg/L	0.193	7.17	mg/L	0.193	2.70%
Na 589.592	529776.9	13.2	mg/L	0.41	13.2	mg/L	0.41	3.12%
Sr 407.771	545430.2	0.500	mg/L	0.0156	0.500	mg/L	0.0156	3.13%

Sequence No.: 2 **Autosampler Location: 41**
Sample ID: PBW P WG99226-03 **Date Collected: 6/14/2001 3:22:34 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: PBW P WG99226-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3855427.1						5168.86	0.13%
Ag 328.068	51.8	0.00008	mg/L	0.000016	0.00008	mg/L	0.000016	20.25%
Al 237.312	-7.4	-0.00050	mg/L	0.000777	-0.00050	mg/L	0.000777	155.74%
As 188.979	-5.9	-0.00034	mg/L	0.000294	-0.00034	mg/L	0.000294	85.44%
Ba 230.424	50.1	0.00015	mg/L	0.000006	0.00015	mg/L	0.000006	3.77%
Be 234.861	2.0	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	302.23%
Ca 227.549	-9.5	-0.00792	mg/L	0.000826	-0.00792	mg/L	0.000826	10.43%
Cd 228.802	5.3	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012	82.06%

Co 228.616	1.5	0.00001 mg/L	0.000012	0.00001 mg/L	0.000012	137.76%
Cr 267.716	80.7	0.00024 mg/L	0.000019	0.00024 mg/L	0.000019	7.99%
Cu 327.396	87.1	0.00022 mg/L	0.000100	0.00022 mg/L	0.000100	45.95%
Fe 261.387	32.6	0.00144 mg/L	0.000237	0.00144 mg/L	0.000237	16.37%
Mg 279.079	89.9	0.00153 mg/L	0.000070	0.00153 mg/L	0.000070	4.59%
Mn 257.610	680.5	0.00035 mg/L	0.000000	0.00035 mg/L	0.000000	0.10%
Mo 202.030	36.5	0.00032 mg/L	0.000036	0.00032 mg/L	0.000036	11.12%
Ni 231.604	12.9	0.00007 mg/L	0.000151	0.00007 mg/L	0.000151	215.24%
Pb 220.353	2.2	0.00008 mg/L	0.000176	0.00008 mg/L	0.000176	231.87%
Sb 206.833	-5.2	-0.00018 mg/L	0.000057	-0.00018 mg/L	0.000057	31.44%
Se 196.026	6.7	0.00043 mg/L	0.000525	0.00043 mg/L	0.000525	121.46%
Si 288.158	5256.4	0.0519 mg/L	0.00008	0.0519 mg/L	0.00008	0.15%
Sn 189.933	-37.5	-0.00138 mg/L	0.000185	-0.00138 mg/L	0.000185	13.43%
Ti 337.280	93.3	0.00006 mg/L	0.000004	0.00006 mg/L	0.000004	6.35%
Tl 190.800	1.4	0.0100 mg/L	0.00128	0.0100 mg/L	0.00128	12.74%
V 292.402	-23.2	-0.00008 mg/L	0.000158	-0.00008 mg/L	0.000158	193.62%
Zn 206.200	0.6	0.00000 mg/L	0.000029	0.00000 mg/L	0.000029	>999.9%
K 766.490	1142.8	0.0758 mg/L	0.01468	0.0758 mg/L	0.01468	19.38%
Na 589.592	3703.1	0.0925 mg/L	0.00427	0.0925 mg/L	0.00427	4.62%
Sr 407.771	-63.3	0.00174 mg/L	0.000007	0.00174 mg/L	0.000007	0.38%

Sequence No.: 3 **Autosampler Location: 42**
Sample ID: LCSW P WG99226-04 **Date Collected: 6/14/2001 3:27:28 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCSW P WG99226-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4030650.8						55321.47	1.37%
Ag 328.068	133818.3	0.199	mg/L	0.0042	0.199	mg/L	0.0042	2.12%
Al 237.312	145280.2	9.99	mg/L	0.200	9.99	mg/L	0.200	2.00%
As 188.979	16393.8	0.964	mg/L	0.0058	0.964	mg/L	0.0058	0.60%
Ba 230.424	3161979.4	9.28	mg/L	0.142	9.28	mg/L	0.142	1.53%
Be 234.861	1529768.8	0.989	mg/L	0.0178	0.989	mg/L	0.0178	1.80%
Ca 227.549	12210.3	10.1	mg/L	0.01	10.1	mg/L	0.01	0.10%
Cd 228.802	384605.1	0.958	mg/L	0.0167	0.958	mg/L	0.0167	1.74%
Co 228.616	176672.8	0.980	mg/L	0.0171	0.980	mg/L	0.0171	1.74%
Cr 267.716	331980.8	0.994	mg/L	0.0161	0.994	mg/L	0.0161	1.62%
Cu 327.396	388211.9	0.972	mg/L	0.0210	0.972	mg/L	0.0210	2.16%
Fe 261.387	18308.8	0.935	mg/L	0.0025	0.935	mg/L	0.0025	0.27%
Mg 279.079	570045.2	9.71	mg/L	0.155	9.71	mg/L	0.155	1.60%
Mn 257.610	1942656.4	0.990	mg/L	0.0174	0.990	mg/L	0.0174	1.76%
Mo 202.030	106788.2	0.940	mg/L	0.0106	0.940	mg/L	0.0106	1.13%
Ni 231.604	180008.9	0.975	mg/L	0.0137	0.975	mg/L	0.0137	1.40%
Pb 220.353	29047.3	0.985	mg/L	0.0038	0.985	mg/L	0.0038	0.38%
Sb 206.833	28869.1	0.960	mg/L	0.0039	0.960	mg/L	0.0039	0.41%
Se 196.026	14503.9	0.933	mg/L	0.0032	0.933	mg/L	0.0032	0.34%
Si 288.158	1003496.5	9.92	mg/L	0.179	9.92	mg/L	0.179	1.80%
Sn 189.933	25821.3	0.952	mg/L	0.0016	0.952	mg/L	0.0016	0.17%
Ti 337.280	1697841.2	1.00	mg/L	0.018	1.00	mg/L	0.018	1.83%
Tl 190.800	111.3	0.806	mg/L	0.0441	0.806	mg/L	0.0441	5.47%
V 292.402	275453.4	0.971	mg/L	0.0152	0.971	mg/L	0.0152	1.56%
Zn 206.200	343306.7	0.993	mg/L	0.0105	0.993	mg/L	0.0105	1.06%
K 766.490	727006.5	48.2	mg/L	0.16	48.2	mg/L	0.16	0.33%
Na 589.592	1965259.9	49.1	mg/L	0.04	49.1	mg/L	0.04	0.07%
Sr 407.771	1078826.2	0.987	mg/L	0.0019	0.987	mg/L	0.0019	0.20%

Recovery Check: LCSW P WG99226-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.01	0.806	0.044	mg/L	79.6
K 766.490	50.1	48.2	0.161	mg/L	96.2
Na 589.592	50.1	49.1	0.036	mg/L	98.0
Sr 407.771	1.00	0.987	0.002	mg/L	98.5
Ag 328.068	0.200	0.199	0.004	mg/L	99.3
Al 237.312	10.00	9.99	0.200	mg/L	99.9

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As 188.979	1.000	0.964	0.006	mg/L	96.5
Ba 230.424	10.0	9.28	0.142	mg/L	92.8
Be 234.861	1.00	0.989	0.018	mg/L	98.9
Ca 227.549	9.99	10.1	0.010	mg/L	100.9
Cd 228.802	1.00	0.958	0.017	mg/L	95.8
Co 228.616	1.00	0.980	0.017	mg/L	98.0
Cr 267.716	1.00	0.994	0.016	mg/L	99.4
Cu 327.396	1.00	0.972	0.021	mg/L	97.2
Fe 261.387	1.00	0.935	0.003	mg/L	93.4
Mg 279.079	10.0	9.71	0.155	mg/L	97.1
Mn 257.610	1.00	0.990	0.017	mg/L	98.9
Mo 202.030	0.995	0.940	0.011	mg/L	94.4
Ni 231.604	1.00	0.975	0.014	mg/L	97.5
Pb 220.353	1.00	0.985	0.004	mg/L	98.5
Sb 206.833	1.20	0.960	0.004	mg/L	79.8
Se 196.026	1.00	0.933	0.003	mg/L	93.3
Si 288.158	10.1	9.92	0.179	mg/L	98.7
Sn 189.933	0.997	0.952	0.002	mg/L	95.5
Ti 337.280	1.000	1.00	0.018	mg/L	100.1
V 292.402	1.000	0.971	0.015	mg/L	97.1
Zn 206.200	1.00	0.993	0.011	mg/L	99.3

Sequence No.: 4 **Autosampler Location: 43**
Sample ID: 0624401 WG99226-02 **Date Collected: 6/14/2001 3:31:45 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624401 WG99226-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3841584.7						18425.69	0.48%
Ag 328.068	66.7	0.00010	mg/L	0.000028	0.00010	mg/L	0.000028	28.07%
Al 237.312	1349.1	0.0929	mg/L	0.00068	0.0929	mg/L	0.00068	0.73%
As 188.979	-3.1	-0.00017	mg/L	0.000220	-0.00017	mg/L	0.000220	126.26%
Ba 230.424	5690.5	0.0167	mg/L	0.00007	0.0167	mg/L	0.00007	0.44%
Be 234.861	190.7	0.00012	mg/L	0.000015	0.00012	mg/L	0.000015	12.26%
Ca 227.549	947.7	0.786	mg/L	0.0147	0.786	mg/L	0.0147	1.87%
Cd 228.802	101.2	0.00025	mg/L	0.000001	0.00025	mg/L	0.000001	0.56%
Co 228.616	288.6	0.00160	mg/L	0.000013	0.00160	mg/L	0.000013	0.79%
Cr 267.716	427.4	0.00127	mg/L	0.000003	0.00127	mg/L	0.000003	0.27%
Cu 327.396	18052.8	0.0452	mg/L	0.00010	0.0452	mg/L	0.00010	0.22%
Fe 261.387	493.1	0.0220	mg/L	0.00017	0.0220	mg/L	0.00017	0.79%
Mg 279.079	25782.8	0.440	mg/L	0.0007	0.440	mg/L	0.0007	0.17%
Mn 257.610	12252.7	0.00624	mg/L	0.000001	0.00624	mg/L	0.000001	0.02%
Mo 202.030	196.2	0.00173	mg/L	0.000074	0.00173	mg/L	0.000074	4.26%
Ni 231.604	465.1	0.00252	mg/L	0.000029	0.00252	mg/L	0.000029	1.13%
Pb 220.353	74.7	0.00253	mg/L	0.000011	0.00253	mg/L	0.000011	0.44%
Sb 206.833	-3.5	-0.00016	mg/L	0.000045	-0.00016	mg/L	0.000045	27.83%
Se 196.026	23.3	0.00149	mg/L	0.000361	0.00149	mg/L	0.000361	24.23%
Si 288.158	397554.4	3.93	mg/L	0.031	3.93	mg/L	0.031	0.78%
Sn 189.933	80.9	0.00297	mg/L	0.000786	0.00297	mg/L	0.000786	26.51%
Ti 337.280	249.5	0.00020	mg/L	0.000040	0.00020	mg/L	0.000040	19.78%
Tl 190.800	3.0	0.0219	mg/L	0.00035	0.0219	mg/L	0.00035	1.58%
V 292.402	120.3	0.00042	mg/L	0.000003	0.00042	mg/L	0.000003	0.73%
Zn 206.200	15175.9	0.0438	mg/L	0.00004	0.0438	mg/L	0.00004	0.10%
K 766.490	12586.4	0.833	mg/L	0.0010	0.833	mg/L	0.0010	0.12%
Na 589.592	114548.5	2.86	mg/L	0.002	2.86	mg/L	0.002	0.08%
Sr 407.771	7419.5	0.00857	mg/L	0.000015	0.00857	mg/L	0.000015	0.18%

Sequence No.: 5 **Autosampler Location: 44**
Sample ID: 0624401PS 0.9 **Date Collected: 6/14/2001 3:36:39 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624401PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3913655.4						2280.84	0.06%
Ag 328.068	129688.6	0.193	mg/L	0.0004	0.193	mg/L	0.0004	0.20%
Al 237.312	142721.7	9.82	mg/L	0.010	9.82	mg/L	0.010	0.10%
As 188.979	15882.7	0.934	mg/L	0.0049	0.934	mg/L	0.0049	0.53%
Ba 230.424	3095738.9	9.09	mg/L	0.000	9.09	mg/L	0.000	0.00%
Be 234.861	1506421.7	0.974	mg/L	0.0010	0.974	mg/L	0.0010	0.10%
Ca 227.549	12500.7	10.3	mg/L	0.19	10.3	mg/L	0.19	1.82%
Cd 228.802	374487.9	0.933	mg/L	0.0006	0.933	mg/L	0.0006	0.07%
Co 228.616	172035.5	0.954	mg/L	0.0009	0.954	mg/L	0.0009	0.10%
Cr 267.716	321837.8	0.963	mg/L	0.0005	0.963	mg/L	0.0005	0.06%
Cu 327.396	393277.2	0.985	mg/L	0.0044	0.985	mg/L	0.0044	0.44%
Fe 261.387	18128.8	0.924	mg/L	0.0118	0.924	mg/L	0.0118	1.28%
Mg 279.079	578704.5	9.86	mg/L	0.010	9.86	mg/L	0.010	0.10%
Mn 257.610	1908895.8	0.973	mg/L	0.0008	0.973	mg/L	0.0008	0.08%
Mo 202.030	103984.5	0.915	mg/L	0.0006	0.915	mg/L	0.0006	0.07%
Ni 231.604	174526.1	0.946	mg/L	0.0019	0.946	mg/L	0.0019	0.20%
Pb 220.353	28332.1	0.960	mg/L	0.0048	0.960	mg/L	0.0048	0.50%
Sb 206.833	28417.2	0.946	mg/L	0.0081	0.946	mg/L	0.0081	0.85%
Se 196.026	13935.8	0.897	mg/L	0.0050	0.897	mg/L	0.0050	0.55%
Si 288.158	1299510.4	12.8	mg/L	0.02	12.8	mg/L	0.02	0.12%
Sn 189.933	-314.7	-0.00642	mg/L	0.000621	-0.00642	mg/L	0.000621	9.67%
Ti 337.280	1648223.6	0.972	mg/L	0.0013	0.972	mg/L	0.0013	0.13%
Tl 190.800	121.8	0.882	mg/L	0.0266	0.882	mg/L	0.0266	3.01%
V 292.402	267816.3	0.944	mg/L	0.0002	0.944	mg/L	0.0002	0.02%
Zn 206.200	343810.6	0.994	mg/L	0.0034	0.994	mg/L	0.0034	0.35%
K 766.490	723126.0	47.9	mg/L	0.82	47.9	mg/L	0.82	1.71%
Na 589.592	2027131.6	50.6	mg/L	0.95	50.6	mg/L	0.95	1.87%
Sr 407.771	1062590.6	0.972	mg/L	0.0178	0.972	mg/L	0.0178	1.83%

Recovery Check: 0624401PS 0.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.882	0.027	mg/L	86.0
K 766.490	50.8	47.9	0.822	mg/L	94.2
Na 589.592	52.9	50.6	0.946	mg/L	95.6
Sr 407.771	1.01	0.972	0.018	mg/L	96.4
Ag 328.068	0.200	0.193	0.000	mg/L	96.2
Al 237.312	10.1	9.82	0.010	mg/L	97.3
As 188.979	1.000	0.934	0.005	mg/L	93.4
Ba 230.424	10.0	9.09	0.000	mg/L	90.7
Be 234.861	1.00	0.974	0.001	mg/L	97.4
Ca 227.549	10.8	10.3	0.188	mg/L	95.3
Cd 228.802	1.00	0.933	0.001	mg/L	93.3
Co 228.616	1.00	0.954	0.001	mg/L	95.2
Cr 267.716	1.00	0.963	0.001	mg/L	96.2
Cu 327.396	1.05	0.985	0.004	mg/L	94.0
Fe 261.387	1.02	0.924	0.012	mg/L	90.2
Mg 279.079	10.4	9.86	0.010	mg/L	94.2
Mn 257.610	1.01	0.973	0.001	mg/L	96.6
Mo 202.030	0.997	0.915	0.001	mg/L	91.8
Ni 231.604	1.00	0.946	0.002	mg/L	94.3
Pb 220.353	1.00	0.960	0.005	mg/L	95.8
Sb 206.833	1.20	0.946	0.008	mg/L	78.6
Se 196.026	1.00	0.897	0.005	mg/L	89.5
Si 288.158	13.9	12.8	0.016	mg/L	89.2
Sn 189.933	1.00	-0.00642	0.001	mg/L	-0.9
Ti 337.280	1.000	0.972	0.001	mg/L	97.2
V 292.402	1.00	0.944	0.000	mg/L	94.4
Zn 206.200	1.04	0.994	0.003	mg/L	95.0

Sequence No.: 6
Sample ID: 0624401DP WG99226-07
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 6/14/2001 3:40:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0624401DP WG99226-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3803595.5						32516.79	0.85%
Ag 328.068	100.8	0.00015	mg/L	0.000042	0.00015	mg/L	0.000042	27.98%
Al 237.312	1378.1	0.0949	mg/L	0.00070	0.0949	mg/L	0.00070	0.73%
As 188.979	-6.6	-0.00038	mg/L	0.000413	-0.00038	mg/L	0.000413	108.58%
Ba 230.424	5535.0	0.0162	mg/L	0.00011	0.0162	mg/L	0.00011	0.69%
Be 234.861	161.4	0.00010	mg/L	0.000016	0.00010	mg/L	0.000016	15.54%
Ca 227.549	945.1	0.784	mg/L	0.0003	0.784	mg/L	0.0003	0.03%
Cd 228.802	110.8	0.00028	mg/L	0.000016	0.00028	mg/L	0.000016	5.89%
Co 228.616	287.0	0.00160	mg/L	0.000027	0.00160	mg/L	0.000027	1.70%
Cr 267.716	440.9	0.00131	mg/L	0.000019	0.00131	mg/L	0.000019	1.43%
Cu 327.396	17606.3	0.0441	mg/L	0.00062	0.0441	mg/L	0.00062	1.41%
Fe 261.387	478.2	0.0214	mg/L	0.00086	0.0214	mg/L	0.00086	4.02%
Mg 279.079	25360.8	0.433	mg/L	0.0051	0.433	mg/L	0.0051	1.17%
Mn 257.610	11841.3	0.00603	mg/L	0.000074	0.00603	mg/L	0.000074	1.23%
Mo 202.030	240.8	0.00212	mg/L	0.000063	0.00212	mg/L	0.000063	2.96%
Ni 231.604	444.8	0.00241	mg/L	0.000008	0.00241	mg/L	0.000008	0.33%
Pb 220.353	81.2	0.00275	mg/L	0.000023	0.00275	mg/L	0.000023	0.84%
Sb 206.833	1.5	0.00001	mg/L	0.000075	0.00001	mg/L	0.000075	848.29%
Se 196.026	20.2	0.00129	mg/L	0.000928	0.00129	mg/L	0.000928	71.67%
Si 288.158	400172.2	3.95	mg/L	0.020	3.95	mg/L	0.020	0.51%
Sn 189.933	-46.1	-0.00169	mg/L	0.000071	-0.00169	mg/L	0.000071	4.19%
Ti 337.280	261.5	0.00021	mg/L	0.000042	0.00021	mg/L	0.000042	20.13%
Tl 190.800	3.1	0.0227	mg/L	0.00255	0.0227	mg/L	0.00255	11.26%
V 292.402	118.1	0.00042	mg/L	0.000049	0.00042	mg/L	0.000049	11.88%
Zn 206.200	14866.0	0.0429	mg/L	0.00057	0.0429	mg/L	0.00057	1.33%
K 766.490	12435.4	0.823	mg/L	0.0066	0.823	mg/L	0.0066	0.80%
Na 589.592	113342.9	2.83	mg/L	0.077	2.83	mg/L	0.077	2.71%
Sr 407.771	7207.9	0.00838	mg/L	0.000196	0.00838	mg/L	0.000196	2.34%

Duplicate Check: 0624401DP WG99226-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0219	0.0227	0.003	mg/L	3.3
K 766.490	0.833	0.823	0.007	mg/L	1.2
Na 589.592	2.86	2.83	0.077	mg/L	1.1
Sr 407.771	0.00857	0.00838	0.000	mg/L	2.3
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00010	0.00015	0.000	mg/L	40.7
Al 237.312	0.0929	0.0949	0.001	mg/L	2.1
As 188.979	-0.00017	-0.00038	0.000	mg/L	-74.4
Ba 230.424	0.0167	0.0162	0.000	mg/L	2.8
Be 234.861	0.00012	0.00010	0.000	mg/L	16.8
Ca 227.549	0.786	0.784	0.000	mg/L	0.3
Cd 228.802	0.00025	0.00028	0.000	mg/L	9.3
Co 228.616	0.00160	0.00160	0.000	mg/L	0.5
Cr 267.716	0.00127	0.00131	0.000	mg/L	3.1
Cu 327.396	0.0452	0.0441	0.001	mg/L	2.5
Fe 261.387	0.0220	0.0214	0.001	mg/L	3.0
Mg 279.079	0.440	0.433	0.005	mg/L	1.7
Mn 257.610	0.00624	0.00603	0.000	mg/L	3.4
Mo 202.030	0.00173	0.00212	0.000	mg/L	20.4
Ni 231.604	0.00252	0.00241	0.000	mg/L	4.5
Pb 220.353	0.00253	0.00275	0.000	mg/L	8.4
Sb 206.833	-0.00016	0.00001	0.000	mg/L	-223.1
Se 196.026	0.00149	0.00129	0.001	mg/L	14.2
Si 288.158	3.93	3.95	0.020	mg/L	0.7
Sn 189.933	0.00297	-0.00169	0.000	mg/L	730.0
Ti 337.280	0.00020	0.00021	0.000	mg/L	3.0
V 292.402	0.00042	0.00042	0.000	mg/L	1.9
Zn 206.200	0.0438	0.0429	0.001	mg/L	2.1

Sequence No.: 7
Sample ID: 0623601 WG99226-01
Analyst:
Sample Wt:
Dilution: 2X

Autosampler Location: 46
Date Collected: 6/14/2001 3:45:53 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623601 WG99226-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3719650.6						3468.79	0.09%
Ag 328.068	-239.7	-0.00036	mg/L	0.000069	-0.00071	mg/L	0.000139	19.51%
Al 237.312	482989.7	34.1	mg/L	0.04	68.2	mg/L	0.07	0.11%
As 188.979	211.2	0.0133	mg/L	0.00052	0.0266	mg/L	0.00103	3.89%
Ba 230.424	43603.3	0.130	mg/L	0.0004	0.259	mg/L	0.0008	0.29%
Be 234.861	13784.9	0.00090	mg/L	0.000021	0.00180	mg/L	0.000041	2.29%
Ca 227.549	105266.1	85.1	mg/L	0.08	170	mg/L	0.2	0.10%
Cd 228.802	6568.6	0.0164	mg/L	0.00005	0.0327	mg/L	0.00010	0.32%
Co 228.616	1219.0	0.00914	mg/L	0.000065	0.0183	mg/L	0.00013	0.71%
Cr 267.716	34706.0	0.109	mg/L	0.0002	0.217	mg/L	0.0004	0.21%
Cu 327.396	50789.3	0.127	mg/L	0.0004	0.254	mg/L	0.0008	0.32%
Fe 261.387	2746614.8	121	mg/L	0.3	241	mg/L	0.6	0.27%
Mg 279.079	202701.0	3.44	mg/L	0.011	6.89	mg/L	0.023	0.33%
Mn 257.610	2297376.9	1.17	mg/L	0.001	2.34	mg/L	0.002	0.10%
Mo 202.030	720.5	0.00626	mg/L	0.000311	0.0125	mg/L	0.00062	4.98%
Ni 231.604	4172.4	0.0242	mg/L	0.00001	0.0484	mg/L	0.00002	0.04%
Pb 220.353	5882.9	0.202	mg/L	0.0002	0.403	mg/L	0.0004	0.09%
Sb 206.833	615.7	0.00159	mg/L	0.000594	0.00318	mg/L	0.001189	37.37%
Se 196.026	-49.5	-0.00587	mg/L	0.000987	-0.0117	mg/L	0.00197	16.82%
Si 288.158	2696794.9	26.7	mg/L	0.01	53.4	mg/L	0.03	0.05%
Sn 189.933	6.1	-0.00115	mg/L	0.000371	-0.00231	mg/L	0.000742	32.16%
Ti 337.280	115142.0	0.0826	mg/L	0.00008	0.165	mg/L	0.0002	0.10%
Tl 190.800	1.8	0.0130	mg/L	0.01183	0.0260	mg/L	0.02365	90.86%
V 292.402	9759.2	0.0434	mg/L	0.00007	0.0868	mg/L	0.00013	0.15%
Zn 206.200	243512.1	0.694	mg/L	0.0078	1.39	mg/L	0.016	1.13%
K 766.490	49267.9	3.26	mg/L	0.122	6.51	mg/L	0.244	3.75%
Na 589.592	136563.3	3.41	mg/L	0.154	6.82	mg/L	0.308	4.52%
Sr 407.771	496005.4	0.455	mg/L	0.0183	0.910	mg/L	0.0365	4.01%

Sequence No.: 8
Sample ID: 0623601S WG99226-05
Analyst:
Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 6/14/2001 3:50:50 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0623601S WG99226-05

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3666523.2						15149.01	0.41%
Ag 328.068	61726.7	0.0916	mg/L	0.00036	0.183	mg/L	0.0007	0.39%
Al 237.312	949199.1	66.1	mg/L	0.15	132	mg/L	0.3	0.22%
As 188.979	7534.9	0.444	mg/L	0.0001	0.888	mg/L	0.0003	0.03%
Ba 230.424	1516110.7	4.45	mg/L	0.002	8.90	mg/L	0.005	0.05%
Be 234.861	744122.1	0.473	mg/L	0.0050	0.947	mg/L	0.0100	1.05%
Ca 227.549	106591.4	86.3	mg/L	0.56	173	mg/L	1.1	0.65%
Cd 228.802	180562.6	0.450	mg/L	0.0011	0.900	mg/L	0.0022	0.25%
Co 228.616	80097.0	0.446	mg/L	0.0028	0.893	mg/L	0.0057	0.63%
Cr 267.716	179631.0	0.542	mg/L	0.0001	1.08	mg/L	0.000	0.02%
Cu 327.396	229856.7	0.576	mg/L	0.0036	1.15	mg/L	0.007	0.62%
Fe 261.387	2538858.0	112	mg/L	0.0	223	mg/L	0.0	0.01%
Mg 279.079	486255.1	8.27	mg/L	0.028	16.5	mg/L	0.06	0.34%
Mn 257.610	3041101.0	1.55	mg/L	0.001	3.10	mg/L	0.003	0.09%
Mo 202.030	49084.3	0.432	mg/L	0.0024	0.864	mg/L	0.0047	0.55%
Ni 231.604	85914.4	0.467	mg/L	0.0037	0.934	mg/L	0.0074	0.79%
Pb 220.353	18245.4	0.623	mg/L	0.0038	1.25	mg/L	0.008	0.61%
Sb 206.833	11475.7	0.359	mg/L	0.0015	0.719	mg/L	0.0030	0.42%
Se 196.026	6972.4	0.444	mg/L	0.0095	0.887	mg/L	0.0190	2.15%
Si 288.158	5486563.9	54.2	mg/L	0.55	108	mg/L	1.1	1.01%
Sn 189.933	14820.0	0.542	mg/L	0.0115	1.08	mg/L	0.023	2.13%
Ti 337.280	837606.9	0.509	mg/L	0.0010	1.02	mg/L	0.002	0.20%
Tl 190.800	55.8	0.404	mg/L	0.0072	0.808	mg/L	0.0144	1.78%
V 292.402	137829.3	0.494	mg/L	0.0000	0.987	mg/L	0.0000	0.00%
Zn 206.200	372286.2	1.07	mg/L	0.009	2.13	mg/L	0.018	0.84%
K 766.490	393527.7	26.1	mg/L	0.21	52.1	mg/L	0.41	0.79%

Na 589.592	1029405.9	25.7	mg/L	0.22	51.4	mg/L	0.45	0.87%
Sr 407.771	1009559.7	0.924	mg/L	0.0038	1.85	mg/L	0.008	0.41%

Sequence No.: 9
Sample ID: 0623601SD WG99226-06
Analyst:
Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 6/14/2001 3:55:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623601SD WG99226-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3538718.3						33219.06	0.94%
Ag 328.068	59627.8	0.0885	mg/L	0.00070	0.177	mg/L	0.0014	0.79%
Al 237.312	696416.2	48.6	mg/L	0.30	97.3	mg/L	0.60	0.62%
As 188.979	7320.6	0.431	mg/L	0.0054	0.863	mg/L	0.0108	1.25%
Ba 230.424	1470286.7	4.32	mg/L	0.031	8.63	mg/L	0.063	0.73%
Be 234.861	720146.6	0.459	mg/L	0.0069	0.917	mg/L	0.0139	1.51%
Ca 227.549	102948.4	83.5	mg/L	0.47	167	mg/L	0.9	0.56%
Cd 228.802	176201.8	0.439	mg/L	0.0028	0.878	mg/L	0.0055	0.63%
Co 228.616	77398.5	0.431	mg/L	0.0035	0.863	mg/L	0.0070	0.81%
Cr 267.716	171527.1	0.518	mg/L	0.0033	1.04	mg/L	0.007	0.64%
Cu 327.396	221802.0	0.555	mg/L	0.0004	1.11	mg/L	0.001	0.06%
Fe 261.387	2333111.2	103	mg/L	0.7	205	mg/L	1.4	0.70%
Mg 279.079	447055.2	7.61	mg/L	0.080	15.2	mg/L	0.16	1.05%
Mn 257.610	2909562.7	1.48	mg/L	0.009	2.96	mg/L	0.017	0.59%
Mo 202.030	47525.5	0.418	mg/L	0.0019	0.836	mg/L	0.0038	0.45%
Ni 231.604	82632.7	0.449	mg/L	0.0032	0.898	mg/L	0.0063	0.70%
Pb 220.353	17497.0	0.596	mg/L	0.0073	1.19	mg/L	0.015	1.23%
Sb 206.833	11186.7	0.353	mg/L	0.0025	0.706	mg/L	0.0050	0.71%
Se 196.026	6486.2	0.414	mg/L	0.0106	0.828	mg/L	0.0212	2.56%
Si 288.158	3695930.2	36.6	mg/L	0.50	73.1	mg/L	1.01	1.38%
Sn 189.933	13850.8	0.507	mg/L	0.0053	1.01	mg/L	0.011	1.05%
Ti 337.280	773780.8	0.470	mg/L	0.0027	0.940	mg/L	0.0053	0.57%
Tl 190.800	56.6	0.410	mg/L	0.0187	0.820	mg/L	0.0374	4.56%
V 292.402	132039.1	0.473	mg/L	0.0044	0.946	mg/L	0.0088	0.93%
Zn 206.200	352456.3	1.01	mg/L	0.017	2.02	mg/L	0.035	1.73%
K 766.490	396608.1	26.3	mg/L	0.84	52.6	mg/L	1.68	3.20%
Na 589.592	1058896.2	26.5	mg/L	1.00	52.9	mg/L	2.01	3.80%
Sr 407.771	1012303.5	0.926	mg/L	0.0293	1.85	mg/L	0.059	3.17%

Sequence No.: 10
Sample ID: 0624402
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 6/14/2001 3:59:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624402

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3832675.5						38833.80	1.01%
Ag 328.068	118.7	0.00018	mg/L	0.000082	0.00018	mg/L	0.000082	46.70%
Al 237.312	310.8	0.0218	mg/L	0.00017	0.0218	mg/L	0.00017	0.77%
As 188.979	-1.2	-0.00006	mg/L	0.000035	-0.00006	mg/L	0.000035	57.64%
Ba 230.424	2311.8	0.00679	mg/L	0.000041	0.00679	mg/L	0.000041	0.60%
Be 234.861	143.8	0.00009	mg/L	0.000018	0.00009	mg/L	0.000018	20.71%
Ca 227.549	662.9	0.549	mg/L	0.0069	0.549	mg/L	0.0069	1.26%
Cd 228.802	88.9	0.00022	mg/L	0.000002	0.00022	mg/L	0.000002	1.03%
Co 228.616	37.9	0.00021	mg/L	0.000011	0.00021	mg/L	0.000011	5.20%
Cr 267.716	439.9	0.00131	mg/L	0.000017	0.00131	mg/L	0.000017	1.26%
Cu 327.396	3178.9	0.00796	mg/L	0.000002	0.00796	mg/L	0.000002	0.02%
Fe 261.387	1530.8	0.0673	mg/L	0.00045	0.0673	mg/L	0.00045	0.66%
Mg 279.079	15522.5	0.265	mg/L	0.0012	0.265	mg/L	0.0012	0.46%
Mn 257.610	4475.5	0.00228	mg/L	0.000023	0.00228	mg/L	0.000023	0.99%
Mo 202.030	73.7	0.00065	mg/L	0.000004	0.00065	mg/L	0.000004	0.55%
Ni 231.604	173.6	0.00094	mg/L	0.000031	0.00094	mg/L	0.000031	3.26%
Pb 220.353	25.1	0.00085	mg/L	0.000129	0.00085	mg/L	0.000129	15.10%

Sb 206.833	10.2	0.00031 mg/L	0.000385	0.00031 mg/L	0.000385	125.89%
Se 196.026	12.9	0.00083 mg/L	0.001321	0.00083 mg/L	0.001321	158.90%
Si 288.158	420084.4	4.15 mg/L	0.039	4.15 mg/L	0.039	0.94%
Sn 189.933	70.3	0.00259 mg/L	0.000788	0.00259 mg/L	0.000788	30.47%
Ti 337.280	1228.2	0.00075 mg/L	0.000045	0.00075 mg/L	0.000045	6.03%
Tl 190.800	4.0	0.0287 mg/L	0.00568	0.0287 mg/L	0.00568	19.79%
V 292.402	110.8	0.00040 mg/L	0.000148	0.00040 mg/L	0.000148	37.32%
Zn 206.200	6446.3	0.0186 mg/L	0.00021	0.0186 mg/L	0.00021	1.12%
K 766.490	10985.4	0.728 mg/L	0.0001	0.728 mg/L	0.0001	0.01%
Na 589.592	471408.5	11.8 mg/L	0.30	11.8 mg/L	0.30	2.58%
Sr 407.771	4301.4	0.00573 mg/L	0.000388	0.00573 mg/L	0.000388	6.77%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 4:04:15 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	4089102.3				4348.09	0.11%
Ag 328.068	254512.0	0.378 mg/L	0.0009	0.378 mg/L	0.0009	0.23%
QC value within limits for Ag 328.068 Recovery = 94.47%						
Al 237.312	142870.0	9.85 mg/L	0.007	9.85 mg/L	0.007	0.07%
QC value within limits for Al 237.312 Recovery = 98.51%						
As 188.979	6443.3	0.376 mg/L	0.0012	0.376 mg/L	0.0012	0.31%
QC value within limits for As 188.979 Recovery = 93.96%						
Ba 230.424	347718.7	1.02 mg/L	0.000	1.02 mg/L	0.000	0.00%
QC value within limits for Ba 230.424 Recovery = 101.80%						
Be 234.861	80225.6	0.0517 mg/L	0.00002	0.0517 mg/L	0.00002	0.03%
QC value within limits for Be 234.861 Recovery = 103.33%						
Ca 227.549	12099.7	9.92 mg/L	0.008	9.92 mg/L	0.008	0.08%
QC value within limits for Ca 227.549 Recovery = 99.25%						
Cd 228.802	19680.8	0.0477 mg/L	0.00004	0.0477 mg/L	0.00004	0.08%
QC value within limits for Cd 228.802 Recovery = 95.34%						
Co 228.616	37040.9	0.204 mg/L	0.0007	0.204 mg/L	0.0007	0.34%
QC value within limits for Co 228.616 Recovery = 102.23%						
Cr 267.716	168836.5	0.509 mg/L	0.0001	0.509 mg/L	0.0001	0.02%
QC value within limits for Cr 267.716 Recovery = 101.78%						
Cu 327.396	200052.7	0.501 mg/L	0.0017	0.501 mg/L	0.0017	0.34%
QC value within limits for Cu 327.396 Recovery = 100.17%						
Fe 261.387	89573.5	3.97 mg/L	0.006	3.97 mg/L	0.006	0.14%
QC value within limits for Fe 261.387 Recovery = 99.36%						
Mg 279.079	572856.0	9.76 mg/L	0.003	9.76 mg/L	0.003	0.03%
QC value within limits for Mg 279.079 Recovery = 97.60%						
Mn 257.610	986299.0	0.502 mg/L	0.0005	0.502 mg/L	0.0005	0.11%
QC value within limits for Mn 257.610 Recovery = 100.46%						
Mo 202.030	111730.6	0.984 mg/L	0.0033	0.984 mg/L	0.0033	0.33%
QC value within limits for Mo 202.030 Recovery = 98.85%						
Ni 231.604	93020.1	0.504 mg/L	0.0008	0.504 mg/L	0.0008	0.15%
QC value within limits for Ni 231.604 Recovery = 100.82%						
Pb 220.353	14491.8	0.493 mg/L	0.0008	0.493 mg/L	0.0008	0.16%
QC value within limits for Pb 220.353 Recovery = 98.66%						
Sb 206.833	34500.5	1.16 mg/L	0.001	1.16 mg/L	0.001	0.12%
QC value within limits for Sb 206.833 Recovery = 96.58%						
Se 196.026	5917.7	0.380 mg/L	0.0013	0.380 mg/L	0.0013	0.34%
QC value within limits for Se 196.026 Recovery = 94.95%						
Si 288.158	500068.9	4.95 mg/L	0.004	4.95 mg/L	0.004	0.08%
QC value within limits for Si 288.158 Recovery = 98.94%						
Sn 189.933	26212.9	0.966 mg/L	0.0043	0.966 mg/L	0.0043	0.44%
QC value within limits for Sn 189.933 Recovery = 96.76%						
Ti 337.280	1681430.7	0.989 mg/L	0.0019	0.989 mg/L	0.0019	0.19%
QC value within limits for Ti 337.280 Recovery = 98.94%						
Tl 190.800	61.9	0.449 mg/L	0.0133	0.449 mg/L	0.0133	2.96%
QC value less than the lower limit for Tl 190.800 Recovery = 89.72%						
V 292.402	285607.9	1.01 mg/L	0.001	1.01 mg/L	0.001	0.13%
QC value within limits for V 292.402 Recovery = 100.73%						
Zn 206.200	340703.8	0.984 mg/L	0.0020	0.984 mg/L	0.0020	0.20%

QC value within limits for Zn 206.200 Recovery = 98.44%

K 766.490	717683.3	47.6 mg/L	0.45	47.6 mg/L	0.45	0.95%

QC value within limits for K 766.490 Recovery = 95.12%

Na 589.592	1947620.6	48.7 mg/L	0.36	48.7 mg/L	0.36	0.75%

QC value within limits for Na 589.592 Recovery = 97.33%

Sr 407.771	1071089.9	0.980 mg/L	0.0090	0.980 mg/L	0.0090	0.92%

QC value within limits for Sr 407.771 Recovery = 98.02%

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 4:09:09 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3768902.9						27053.16	0.72%
Ag 328.068	-3.3	0.00000	mg/L	0.000091	0.00000	mg/L	0.000091	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	27.9	0.00197	mg/L	0.000641	0.00197	mg/L	0.000641	32.60%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.4	0.00013	mg/L	0.000070	0.00013	mg/L	0.000070	51.78%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	31.3	0.00009	mg/L	0.000010	0.00009	mg/L	0.000010	11.57%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-7.9	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	40.34%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-6.5	-0.00549	mg/L	0.006657	-0.00549	mg/L	0.006657	121.18%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	7.3	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	52.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	2.6	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	59.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.1	0.00006	mg/L	0.000043	0.00006	mg/L	0.000043	68.18%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	81.0	0.00020	mg/L	0.000016	0.00020	mg/L	0.000016	7.86%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	142.0	0.00624	mg/L	0.000081	0.00624	mg/L	0.000081	1.30%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	46.6	0.00080	mg/L	0.000350	0.00080	mg/L	0.000350	44.00%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	21.3	0.00001	mg/L	0.000005	0.00001	mg/L	0.000005	47.06%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	113.5	0.00100	mg/L	0.000107	0.00100	mg/L	0.000107	10.69%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	-5.2	-0.00003	mg/L	0.000004	-0.00003	mg/L	0.000004	15.45%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	4.4	0.00015	mg/L	0.000020	0.00015	mg/L	0.000020	13.00%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	3.9	0.00014	mg/L	0.000042	0.00014	mg/L	0.000042	30.64%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	8.5	0.00055	mg/L	0.000423	0.00055	mg/L	0.000423	77.11%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	391.7	0.00387	mg/L	0.000188	0.00387	mg/L	0.000188	4.86%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	129.5	0.00475	mg/L	0.000386	0.00475	mg/L	0.000386	8.14%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-60.1	-0.00004	mg/L	0.000055	-0.00004	mg/L	0.000055	157.95%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	1.7	0.0121	mg/L	0.01424	0.0121	mg/L	0.01424	118.08%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	-11.4	-0.00004	mg/L	0.000004	-0.00004	mg/L	0.000004	10.94%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-378.9	-0.00110	mg/L	0.000000	-0.00110	mg/L	0.000000	0.02%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	493.4	0.0327	mg/L	0.00557	0.0327	mg/L	0.00557	17.02%
QC value within limits for K 766.490 Recovery = Not calculated								

Na 589.592	814.5	0.0204 mg/L	0.00181	0.0204 mg/L	0.00181	8.87%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-55.9	0.00175 mg/L	0.000038	0.00175 mg/L	0.000038	2.18%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 13
Sample ID: 0624403
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/14/2001 4:13:59 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624403

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3766216.9						10665.59	0.28%
Ag 328.068	10.3	0.00002	mg/L	0.000057	0.00002	mg/L	0.000057	368.85%
Al 237.312	122.8	0.00867	mg/L	0.000116	0.00867	mg/L	0.000116	1.34%
As 188.979	-5.0	-0.00029	mg/L	0.000537	-0.00029	mg/L	0.000537	185.31%
Ba 230.424	1926.6	0.00565	mg/L	0.000040	0.00565	mg/L	0.000040	0.71%
Be 234.861	77.9	0.00005	mg/L	0.000008	0.00005	mg/L	0.000008	15.65%
Ca 227.549	331.0	0.274	mg/L	0.0063	0.274	mg/L	0.0063	2.31%
Cd 228.802	79.6	0.00020	mg/L	0.000015	0.00020	mg/L	0.000015	7.51%
Co 228.616	73.7	0.00041	mg/L	0.000003	0.00041	mg/L	0.000003	0.80%
Cr 267.716	218.6	0.00065	mg/L	0.000059	0.00065	mg/L	0.000059	9.11%
Cu 327.396	5427.3	0.0136	mg/L	0.00001	0.0136	mg/L	0.00001	0.06%
Fe 261.387	758.6	0.0334	mg/L	0.00013	0.0334	mg/L	0.00013	0.38%
Mg 279.079	8951.4	0.153	mg/L	0.0010	0.153	mg/L	0.0010	0.63%
Mn 257.610	2153.5	0.00109	mg/L	0.000005	0.00109	mg/L	0.000005	0.46%
Mo 202.030	85.9	0.00076	mg/L	0.000026	0.00076	mg/L	0.000026	3.40%
Ni 231.604	174.9	0.00095	mg/L	0.000085	0.00095	mg/L	0.000085	8.99%
Pb 220.353	34.1	0.00115	mg/L	0.000089	0.00115	mg/L	0.000089	7.68%
Sb 206.833	11.2	0.00036	mg/L	0.000160	0.00036	mg/L	0.000160	44.16%
Se 196.026	14.6	0.00094	mg/L	0.001010	0.00094	mg/L	0.001010	107.15%
Si 288.158	413019.8	4.08	mg/L	0.024	4.08	mg/L	0.024	0.58%
Sn 189.933	83.6	0.00307	mg/L	0.000217	0.00307	mg/L	0.000217	7.07%
Ti 337.280	323.8	0.00020	mg/L	0.000066	0.00020	mg/L	0.000066	32.15%
Tl 190.800	3.5	0.0252	mg/L	0.01785	0.0252	mg/L	0.01785	70.88%
V 292.402	42.5	0.00015	mg/L	0.000004	0.00015	mg/L	0.000004	2.85%
Zn 206.200	13405.9	0.0387	mg/L	0.00032	0.0387	mg/L	0.00032	0.81%
K 766.490	8254.6	0.547	mg/L	0.0056	0.547	mg/L	0.0056	1.01%
Na 589.592	137414.2	3.43	mg/L	0.010	3.43	mg/L	0.010	0.29%
Sr 407.771	2012.9	0.00364	mg/L	0.000035	0.00364	mg/L	0.000035	0.96%

Sequence No.: 14
Sample ID: 0624404
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 6/14/2001 4:18:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624404

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3792338.7						32304.89	0.85%
Ag 328.068	83.0	0.00012	mg/L	0.000038	0.00012	mg/L	0.000038	30.49%
Al 237.312	296.5	0.0207	mg/L	0.00047	0.0207	mg/L	0.00047	2.30%
As 188.979	-3.8	-0.00022	mg/L	0.000135	-0.00022	mg/L	0.000135	61.93%
Ba 230.424	3256.9	0.00956	mg/L	0.000054	0.00956	mg/L	0.000054	0.56%
Be 234.861	216.1	0.00014	mg/L	0.000038	0.00014	mg/L	0.000038	27.79%
Ca 227.549	506.6	0.420	mg/L	0.0003	0.420	mg/L	0.0003	0.07%
Cd 228.802	130.7	0.00033	mg/L	0.000009	0.00033	mg/L	0.000009	2.86%
Co 228.616	121.3	0.00067	mg/L	0.000026	0.00067	mg/L	0.000026	3.92%
Cr 267.716	169.0	0.00050	mg/L	0.000021	0.00050	mg/L	0.000021	4.25%
Cu 327.396	4277.1	0.0107	mg/L	0.00016	0.0107	mg/L	0.00016	1.46%
Fe 261.387	969.7	0.0428	mg/L	0.00010	0.0428	mg/L	0.00010	0.24%
Mg 279.079	12933.7	0.221	mg/L	0.0010	0.221	mg/L	0.0010	0.47%
Mn 257.610	6910.9	0.00352	mg/L	0.000030	0.00352	mg/L	0.000030	0.85%

Mo 202.030	69.5	0.00061 mg/L	0.000000	0.00061 mg/L	0.000000	0.03%
Ni 231.604	676.2	0.00366 mg/L	0.000026	0.00366 mg/L	0.000026	0.72%
Pb 220.353	46.7	0.00158 mg/L	0.000014	0.00158 mg/L	0.000014	0.89%
Sb 206.833	16.7	0.00055 mg/L	0.000348	0.00055 mg/L	0.000348	63.59%
Se 196.026	8.6	0.00055 mg/L	0.001020	0.00055 mg/L	0.001020	183.89%
Si 288.158	436070.6	4.31 mg/L	0.010	4.31 mg/L	0.010	0.23%
Sn 189.933	15.1	0.00056 mg/L	0.000033	0.00056 mg/L	0.000033	5.90%
Ti 337.280	277.8	0.00019 mg/L	0.000004	0.00019 mg/L	0.000004	1.87%
Tl 190.800	2.6	0.0189 mg/L	0.00301	0.0189 mg/L	0.00301	15.98%
V 292.402	40.9	0.00015 mg/L	0.000005	0.00015 mg/L	0.000005	3.49%
Zn 206.200	6799.5	0.0196 mg/L	0.00001	0.0196 mg/L	0.00001	0.06%
K 766.490	9460.4	0.627 mg/L	0.0130	0.627 mg/L	0.0130	2.07%
Na 589.592	57438.1	1.44 mg/L	0.016	1.44 mg/L	0.016	1.09%
Sr 407.771	2917.8	0.00446 mg/L	0.000028	0.00446 mg/L	0.000028	0.63%

Sequence No.: 15
Sample ID: 0624405
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/14/2001 4:23:39 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624405

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3766224.2						7268.27	0.19%
Ag 328.068	119.9	0.00018	mg/L	0.000025	0.00018	mg/L	0.000025	14.27%
Al 237.312	134.2	0.0114	mg/L	0.00001	0.0114	mg/L	0.00001	0.05%
As 188.979	-3.6	-0.00021	mg/L	0.000160	-0.00021	mg/L	0.000160	76.98%
Ba 230.424	4753.5	0.0140	mg/L	0.00001	0.0140	mg/L	0.00001	0.07%
Be 234.861	469.8	0.00028	mg/L	0.000021	0.00028	mg/L	0.000021	7.43%
Ca 227.549	470.4	0.385	mg/L	0.0011	0.385	mg/L	0.0011	0.29%
Cd 228.802	122.8	0.00031	mg/L	0.000004	0.00031	mg/L	0.000004	1.25%
Co 228.616	170.3	0.00095	mg/L	0.000019	0.00095	mg/L	0.000019	1.98%
Cr 267.716	165.2	0.00050	mg/L	0.000033	0.00050	mg/L	0.000033	6.55%
Cu 327.396	9030.8	0.0226	mg/L	0.00009	0.0226	mg/L	0.00009	0.38%
Fe 261.387	6824.9	0.300	mg/L	0.0010	0.300	mg/L	0.0010	0.35%
Mg 279.079	13866.4	0.236	mg/L	0.0008	0.236	mg/L	0.0008	0.35%
Mn 257.610	19106.4	0.00974	mg/L	0.000050	0.00974	mg/L	0.000050	0.52%
Mo 202.030	57.9	0.00051	mg/L	0.000018	0.00051	mg/L	0.000018	3.55%
Ni 231.604	324.8	0.00176	mg/L	0.000027	0.00176	mg/L	0.000027	1.52%
Pb 220.353	104.5	0.00353	mg/L	0.000352	0.00353	mg/L	0.000352	9.98%
Sb 206.833	7.2	0.00020	mg/L	0.000196	0.00020	mg/L	0.000196	100.58%
Se 196.026	10.4	0.00067	mg/L	0.000142	0.00067	mg/L	0.000142	21.19%
Si 288.158	476392.7	4.70	mg/L	0.013	4.70	mg/L	0.013	0.28%
Sn 189.933	-11.8	-0.00043	mg/L	0.000060	-0.00043	mg/L	0.000060	13.91%
Ti 337.280	190.2	0.00018	mg/L	0.000059	0.00018	mg/L	0.000059	32.71%
Tl 190.800	2.6	0.0187	mg/L	0.02107	0.0187	mg/L	0.02107	112.55%
V 292.402	29.5	0.00013	mg/L	0.000012	0.00013	mg/L	0.000012	9.39%
Zn 206.200	8595.5	0.0248	mg/L	0.00036	0.0248	mg/L	0.00036	1.45%
K 766.490	12700.6	0.841	mg/L	0.0174	0.841	mg/L	0.0174	2.07%
Na 589.592	72601.4	1.81	mg/L	0.042	1.81	mg/L	0.042	2.31%
Sr 407.771	3619.3	0.00510	mg/L	0.000073	0.00510	mg/L	0.000073	1.43%

Sequence No.: 16
Sample ID: 0624406
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/14/2001 4:28:29 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624406

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3813235.7						37583.62	0.99%
Ag 328.068	116.8	0.00017	mg/L	0.000148	0.00017	mg/L	0.000148	85.21%
Al 237.312	266.4	0.0189	mg/L	0.00129	0.0189	mg/L	0.00129	6.81%
As 188.979	-0.7	-0.00004	mg/L	0.000014	-0.00004	mg/L	0.000014	40.07%
Ba 230.424	3068.4	0.00901	mg/L	0.000017	0.00901	mg/L	0.000017	0.18%

Be 234.861	274.2	0.00017 mg/L	0.000009	0.00017 mg/L	0.000009	5.32%
Ca 227.549	528.1	0.437 mg/L	0.0146	0.437 mg/L	0.0146	3.34%
Cd 228.802	58.6	0.00015 mg/L	0.000012	0.00015 mg/L	0.000012	8.07%
Co 228.616	68.8	0.00038 mg/L	0.000035	0.00038 mg/L	0.000035	9.22%
Cr 267.716	237.1	0.00071 mg/L	0.000012	0.00071 mg/L	0.000012	1.73%
Cu 327.396	4041.3	0.0101 mg/L	0.00004	0.0101 mg/L	0.00004	0.42%
Fe 261.387	1855.8	0.0820 mg/L	0.00013	0.0820 mg/L	0.00013	0.16%
Mg 279.079	12858.5	0.219 mg/L	0.0012	0.219 mg/L	0.0012	0.55%
Mn 257.610	24978.4	0.0127 mg/L	0.00008	0.0127 mg/L	0.00008	0.60%
Mo 202.030	50.2	0.00044 mg/L	0.000004	0.00044 mg/L	0.000004	0.86%
Ni 231.604	224.8	0.00122 mg/L	0.000045	0.00122 mg/L	0.000045	3.71%
Pb 220.353	30.1	0.00102 mg/L	0.000111	0.00102 mg/L	0.000111	10.92%
Sb 206.833	18.2	0.00058 mg/L	0.000283	0.00058 mg/L	0.000283	48.40%
Se 196.026	12.1	0.00078 mg/L	0.000391	0.00078 mg/L	0.000391	50.26%
Si 288.158	430979.0	4.26 mg/L	0.051	4.26 mg/L	0.051	1.21%
Sn 189.933	-20.0	-0.00073 mg/L	0.000019	-0.00073 mg/L	0.000019	2.55%
Ti 337.280	659.1	0.00046 mg/L	0.000006	0.00046 mg/L	0.000006	1.25%
Tl 190.800	2.3	0.0164 mg/L	0.01530	0.0164 mg/L	0.01530	93.01%
V 292.402	39.0	0.00014 mg/L	0.000023	0.00014 mg/L	0.000023	15.87%
Zn 206.200	3992.2	0.0115 mg/L	0.00006	0.0115 mg/L	0.00006	0.52%
K 766.490	10773.0	0.714 mg/L	0.0028	0.714 mg/L	0.0028	0.40%
Na 589.592	206831.9	5.17 mg/L	0.079	5.17 mg/L	0.079	1.53%
Sr 407.771	3169.4	0.00469 mg/L	0.000017	0.00469 mg/L	0.000017	0.36%

Sequence No.: 17 **Autosampler Location: 54**
Sample ID: 0624407 **Date Collected: 6/14/2001 4:33:23 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624407

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3811266.4						16761.12	0.44%
Ag 328.068	193.7	0.00029	mg/L	0.000062	0.00029	mg/L	0.000062	21.43%
Al 237.312	1470.1	0.101	mg/L	0.0001	0.101	mg/L	0.0001	0.15%
As 188.979	-0.4	-0.00002	mg/L	0.000106	-0.00002	mg/L	0.000106	637.62%
Ba 230.424	5351.5	0.0157	mg/L	0.00001	0.0157	mg/L	0.00001	0.05%
Be 234.861	189.7	0.00012	mg/L	0.000011	0.00012	mg/L	0.000011	8.94%
Ca 227.549	947.0	0.785	mg/L	0.0097	0.785	mg/L	0.0097	1.23%
Cd 228.802	52.8	0.00013	mg/L	0.000016	0.00013	mg/L	0.000016	12.29%
Co 228.616	261.1	0.00145	mg/L	0.000013	0.00145	mg/L	0.000013	0.92%
Cr 267.716	344.3	0.00103	mg/L	0.000025	0.00103	mg/L	0.000025	2.41%
Cu 327.396	7334.7	0.0184	mg/L	0.00023	0.0184	mg/L	0.00023	1.27%
Fe 261.387	799.4	0.0355	mg/L	0.00034	0.0355	mg/L	0.00034	0.95%
Mg 279.079	25806.9	0.440	mg/L	0.0056	0.440	mg/L	0.0056	1.27%
Mn 257.610	12303.0	0.00626	mg/L	0.000117	0.00626	mg/L	0.000117	1.88%
Mo 202.030	52.6	0.00046	mg/L	0.000004	0.00046	mg/L	0.000004	0.79%
Ni 231.604	448.5	0.00243	mg/L	0.000019	0.00243	mg/L	0.000019	0.79%
Pb 220.353	72.7	0.00247	mg/L	0.000030	0.00247	mg/L	0.000030	1.21%
Sb 206.833	8.4	0.00024	mg/L	0.000215	0.00024	mg/L	0.000215	90.80%
Se 196.026	5.6	0.00035	mg/L	0.000348	0.00035	mg/L	0.000348	99.16%
Si 288.158	429387.2	4.24	mg/L	0.004	4.24	mg/L	0.004	0.11%
Sn 189.933	-52.1	-0.00191	mg/L	0.000323	-0.00191	mg/L	0.000323	16.92%
Ti 337.280	315.6	0.00024	mg/L	0.000001	0.00024	mg/L	0.000001	0.58%
Tl 190.800	2.4	0.0175	mg/L	0.00807	0.0175	mg/L	0.00807	46.04%
V 292.402	68.4	0.00024	mg/L	0.000076	0.00024	mg/L	0.000076	31.57%
Zn 206.200	9205.3	0.0266	mg/L	0.00060	0.0266	mg/L	0.00060	2.24%
K 766.490	11320.0	0.749	mg/L	0.0102	0.749	mg/L	0.0102	1.36%
Na 589.592	259774.7	6.49	mg/L	0.036	6.49	mg/L	0.036	0.55%
Sr 407.771	7047.4	0.00823	mg/L	0.000109	0.00823	mg/L	0.000109	1.32%

Sequence No.: 18 **Autosampler Location: 55**
Sample ID: 0624408 **Date Collected: 6/14/2001 4:38:16 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624408

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3884351.1						28286.79	0.73%
Ag 328.068	37.0	0.00005	mg/L	0.000012	0.00005	mg/L	0.000012	21.43%
Al 237.312	102.2	0.00726	mg/L	0.000266	0.00726	mg/L	0.000266	3.66%
As 188.979	-1.4	-0.00007	mg/L	0.000134	-0.00007	mg/L	0.000134	192.00%
Ba 230.424	1416.5	0.00416	mg/L	0.000097	0.00416	mg/L	0.000097	2.34%
Be 234.861	63.9	0.00004	mg/L	0.000004	0.00004	mg/L	0.000004	11.10%
Ca 227.549	539.5	0.447	mg/L	0.0082	0.447	mg/L	0.0082	1.84%
Cd 228.802	23.7	0.00006	mg/L	0.000007	0.00006	mg/L	0.000007	11.54%
Co 228.616	2.4	0.00001	mg/L	0.000008	0.00001	mg/L	0.000008	54.58%
Cr 267.716	511.4	0.00152	mg/L	0.000001	0.00152	mg/L	0.000001	0.08%
Cu 327.396	1466.3	0.00367	mg/L	0.000113	0.00367	mg/L	0.000113	3.07%
Fe 261.387	837.4	0.0368	mg/L	0.00040	0.0368	mg/L	0.00040	1.09%
Mg 279.079	12566.8	0.214	mg/L	0.0022	0.214	mg/L	0.0022	1.01%
Mn 257.610	841.1	0.00042	mg/L	0.000001	0.00042	mg/L	0.000001	0.26%
Mo 202.030	68.4	0.00060	mg/L	0.000020	0.00060	mg/L	0.000020	3.32%
Ni 231.604	97.1	0.00053	mg/L	0.000042	0.00053	mg/L	0.000042	8.04%
Pb 220.353	38.2	0.00129	mg/L	0.000227	0.00129	mg/L	0.000227	17.58%
Sb 206.833	4.4	0.00011	mg/L	0.000066	0.00011	mg/L	0.000066	59.95%
Se 196.026	-0.7	-0.00004	mg/L	0.000384	-0.00004	mg/L	0.000384	878.51%
Si 288.158	415512.0	4.10	mg/L	0.026	4.10	mg/L	0.026	0.64%
Sn 189.933	-25.0	-0.00091	mg/L	0.000053	-0.00091	mg/L	0.000053	5.80%
Ti 337.280	90.8	0.00007	mg/L	0.000004	0.00007	mg/L	0.000004	5.84%
Tl 190.800	2.3	0.0163	mg/L	0.00534	0.0163	mg/L	0.00534	32.69%
V 292.402	143.0	0.00051	mg/L	0.000034	0.00051	mg/L	0.000034	6.74%
Zn 206.200	3412.4	0.00986	mg/L	0.000043	0.00986	mg/L	0.000043	0.44%
K 766.490	9739.8	0.645	mg/L	0.0234	0.645	mg/L	0.0234	3.63%
Na 589.592	489739.5	12.2	mg/L	0.15	12.2	mg/L	0.15	1.23%
Sr 407.771	2986.0	0.00452	mg/L	0.000136	0.00452	mg/L	0.000136	3.00%

Sequence No.: 19
Sample ID: 0624409
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 6/14/2001 4:43:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624409

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4193231.8						56210.83	1.34%
Ag 328.068	100.5	0.00015	mg/L	0.000029	0.00015	mg/L	0.000029	19.46%
Al 237.312	127.6	0.00898	mg/L	0.001759	0.00898	mg/L	0.001759	19.59%
As 188.979	-3.0	-0.00017	mg/L	0.000082	-0.00017	mg/L	0.000082	48.22%
Ba 230.424	1807.3	0.00531	mg/L	0.000003	0.00531	mg/L	0.000003	0.05%
Be 234.861	126.0	0.00008	mg/L	0.000002	0.00008	mg/L	0.000002	3.12%
Ca 227.549	385.5	0.319	mg/L	0.0056	0.319	mg/L	0.0056	1.77%
Cd 228.802	135.3	0.00034	mg/L	0.000008	0.00034	mg/L	0.000008	2.49%
Co 228.616	55.7	0.00031	mg/L	0.000012	0.00031	mg/L	0.000012	3.88%
Cr 267.716	235.4	0.00070	mg/L	0.000025	0.00070	mg/L	0.000025	3.57%
Cu 327.396	3128.4	0.00784	mg/L	0.000133	0.00784	mg/L	0.000133	1.70%
Fe 261.387	705.0	0.0311	mg/L	0.00077	0.0311	mg/L	0.00077	2.49%
Mg 279.079	7924.2	0.135	mg/L	0.0015	0.135	mg/L	0.0015	1.11%
Mn 257.610	3021.5	0.00154	mg/L	0.000004	0.00154	mg/L	0.000004	0.24%
Mo 202.030	47.2	0.00042	mg/L	0.000058	0.00042	mg/L	0.000058	13.86%
Ni 231.604	275.0	0.00149	mg/L	0.000026	0.00149	mg/L	0.000026	1.75%
Pb 220.353	112.3	0.00379	mg/L	0.000091	0.00379	mg/L	0.000091	2.39%
Sb 206.833	2.2	0.00005	mg/L	0.000104	0.00005	mg/L	0.000104	194.16%
Se 196.026	6.6	0.00043	mg/L	0.000136	0.00043	mg/L	0.000136	31.91%
Si 288.158	403201.0	3.98	mg/L	0.033	3.98	mg/L	0.033	0.84%
Sn 189.933	-33.5	-0.00123	mg/L	0.000284	-0.00123	mg/L	0.000284	23.19%
Ti 337.280	280.8	0.00018	mg/L	0.000015	0.00018	mg/L	0.000015	8.30%
Tl 190.800	1.7	0.0121	mg/L	0.00816	0.0121	mg/L	0.00816	67.19%
V 292.402	61.1	0.00022	mg/L	0.000080	0.00022	mg/L	0.000080	36.91%
Zn 206.200	15710.0	0.0454	mg/L	0.00078	0.0454	mg/L	0.00078	1.71%
K 766.490	7120.8	0.472	mg/L	0.0098	0.472	mg/L	0.0098	2.08%
Na 589.592	220202.9	5.50	mg/L	0.115	5.50	mg/L	0.115	2.09%

Sr 407.771	1756.0	0.00340	mg/L	0.000037	0.00340	mg/L	0.000037	1.09%

Sequence No.: 20 **Autosampler Location: 57**
Sample ID: 0624410 **Date Collected: 6/14/2001 4:48:04 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624410

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3750612.0						77626.81	2.07%
Ag 328.068	109.0	0.00016	mg/L	0.000157	0.00016	mg/L	0.000157	97.14%
Al 237.312	341.8	0.0237	mg/L	0.00159	0.0237	mg/L	0.00159	6.69%
As 188.979	-11.6	-0.00068	mg/L	0.000268	-0.00068	mg/L	0.000268	39.62%
Ba 230.424	3646.5	0.0107	mg/L	0.00002	0.0107	mg/L	0.00002	0.17%
Be 234.861	282.0	0.00018	mg/L	0.000003	0.00018	mg/L	0.000003	1.63%
Ca 227.549	509.6	0.422	mg/L	0.0011	0.422	mg/L	0.0011	0.27%
Cd 228.802	120.3	0.00030	mg/L	0.000004	0.00030	mg/L	0.000004	1.37%
Co 228.616	109.8	0.00061	mg/L	0.000018	0.00061	mg/L	0.000018	2.97%
Cr 267.716	175.0	0.00052	mg/L	0.000019	0.00052	mg/L	0.000019	3.71%
Cu 327.396	8027.8	0.0201	mg/L	0.00005	0.0201	mg/L	0.00005	0.25%
Fe 261.387	822.8	0.0363	mg/L	0.00046	0.0363	mg/L	0.00046	1.28%
Mg 279.079	12835.7	0.219	mg/L	0.0025	0.219	mg/L	0.0025	1.16%
Mn 257.610	7776.0	0.00396	mg/L	0.000017	0.00396	mg/L	0.000017	0.43%
Mo 202.030	49.0	0.00043	mg/L	0.000009	0.00043	mg/L	0.000009	2.20%
Ni 231.604	235.7	0.00128	mg/L	0.000043	0.00128	mg/L	0.000043	3.36%
Pb 220.353	408.7	0.0138	mg/L	0.00000	0.0138	mg/L	0.00000	0.02%
Sb 206.833	10.2	0.00033	mg/L	0.000196	0.00033	mg/L	0.000196	60.08%
Se 196.026	3.1	0.00020	mg/L	0.000658	0.00020	mg/L	0.000658	328.00%
Si 288.158	440371.3	4.35	mg/L	0.069	4.35	mg/L	0.069	1.60%
Sn 189.933	-46.2	-0.00169	mg/L	0.000068	-0.00169	mg/L	0.000068	4.04%
Ti 337.280	184.9	0.00014	mg/L	0.000010	0.00014	mg/L	0.000010	7.04%
Tl 190.800	2.7	0.0197	mg/L	0.00214	0.0197	mg/L	0.00214	10.87%
V 292.402	21.0	0.00008	mg/L	0.000115	0.00008	mg/L	0.000115	151.12%
Zn 206.200	8403.1	0.0243	mg/L	0.00052	0.0243	mg/L	0.00052	2.14%
K 766.490	9865.7	0.654	mg/L	0.0193	0.654	mg/L	0.0193	2.96%
Na 589.592	83423.1	2.08	mg/L	0.024	2.08	mg/L	0.024	1.13%
Sr 407.771	2984.8	0.00452	mg/L	0.000008	0.00452	mg/L	0.000008	0.19%

Sequence No.: 21 **Autosampler Location: 58**
Sample ID: 0624411 **Date Collected: 6/14/2001 4:52:57 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624411

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3856659.8						5726.68	0.15%
Ag 328.068	162.9	0.00024	mg/L	0.000035	0.00024	mg/L	0.000035	14.59%
Al 237.312	585.7	0.0412	mg/L	0.00024	0.0412	mg/L	0.00024	0.59%
As 188.979	-3.4	-0.00020	mg/L	0.000101	-0.00020	mg/L	0.000101	51.42%
Ba 230.424	4971.7	0.0146	mg/L	0.00004	0.0146	mg/L	0.00004	0.28%
Be 234.861	541.6	0.00034	mg/L	0.000009	0.00034	mg/L	0.000009	2.55%
Ca 227.549	479.3	0.395	mg/L	0.0046	0.395	mg/L	0.0046	1.16%
Cd 228.802	65.1	0.00016	mg/L	0.000009	0.00016	mg/L	0.000009	5.27%
Co 228.616	171.9	0.00096	mg/L	0.000030	0.00096	mg/L	0.000030	3.12%
Cr 267.716	220.5	0.00066	mg/L	0.000054	0.00066	mg/L	0.000054	8.16%
Cu 327.396	2720.9	0.00682	mg/L	0.000187	0.00682	mg/L	0.000187	2.75%
Fe 261.387	3036.7	0.134	mg/L	0.0005	0.134	mg/L	0.0005	0.36%
Mg 279.079	14045.1	0.240	mg/L	0.0038	0.240	mg/L	0.0038	1.60%
Mn 257.610	17036.8	0.00868	mg/L	0.000077	0.00868	mg/L	0.000077	0.89%
Mo 202.030	66.6	0.00059	mg/L	0.000097	0.00059	mg/L	0.000097	16.61%
Ni 231.604	258.4	0.00140	mg/L	0.000010	0.00140	mg/L	0.000010	0.69%
Pb 220.353	72.8	0.00246	mg/L	0.000149	0.00246	mg/L	0.000149	6.04%
Sb 206.833	6.7	0.00019	mg/L	0.000049	0.00019	mg/L	0.000049	25.63%

Se 196.026	4.7	0.00030 mg/L	0.000040	0.00030 mg/L	0.000040	13.30%
Si 288.158	477947.1	4.72 mg/L	0.012	4.72 mg/L	0.012	0.26%
Sn 189.933	-32.6	-0.00119 mg/L	0.000024	-0.00119 mg/L	0.000024	2.00%
Ti 337.280	907.5	0.00059 mg/L	0.000081	0.00059 mg/L	0.000081	13.67%
Tl 190.800	3.5	0.0252 mg/L	0.00703	0.0252 mg/L	0.00703	27.84%
V 292.402	76.3	0.00028 mg/L	0.000018	0.00028 mg/L	0.000018	6.56%
Zn 206.200	7950.5	0.0230 mg/L	0.00001	0.0230 mg/L	0.00001	0.06%
K 766.490	14549.6	0.964 mg/L	0.0201	0.964 mg/L	0.0201	2.08%
Na 589.592	1314580.6	32.8 mg/L	0.19	32.8 mg/L	0.19	0.58%
Sr 407.771	3717.8	0.00519 mg/L	0.000055	0.00519 mg/L	0.000055	1.06%

Sequence No.: 22 **Autosampler Location: 59**
Sample ID: 0624412 **Date Collected: 6/14/2001 4:57:54 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624412

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3869606.3						46276.54	1.20%
Ag 328.068	65.7	0.00010	mg/L	0.000074	0.00010	mg/L	0.000074	75.37%
Al 237.312	755.1	0.0523	mg/L	0.00062	0.0523	mg/L	0.00062	1.18%
As 188.979	-8.9	-0.00052	mg/L	0.000157	-0.00052	mg/L	0.000157	30.38%
Ba 230.424	1177.1	0.00346	mg/L	0.000010	0.00346	mg/L	0.000010	0.29%
Be 234.861	383.8	0.00024	mg/L	0.000020	0.00024	mg/L	0.000020	8.16%
Ca 227.549	263.0	0.217	mg/L	0.0040	0.217	mg/L	0.0040	1.86%
Cd 228.802	21.7	0.00005	mg/L	0.000003	0.00005	mg/L	0.000003	5.42%
Co 228.616	38.1	0.00021	mg/L	0.000023	0.00021	mg/L	0.000023	10.99%
Cr 267.716	279.3	0.00083	mg/L	0.000020	0.00083	mg/L	0.000020	2.43%
Cu 327.396	2466.2	0.00618	mg/L	0.000053	0.00618	mg/L	0.000053	0.86%
Fe 261.387	1188.2	0.0523	mg/L	0.00013	0.0523	mg/L	0.00013	0.24%
Mg 279.079	6192.4	0.106	mg/L	0.0009	0.106	mg/L	0.0009	0.84%
Mn 257.610	4668.3	0.00238	mg/L	0.000025	0.00238	mg/L	0.000025	1.06%
Mo 202.030	52.1	0.00046	mg/L	0.000003	0.00046	mg/L	0.000003	0.65%
Ni 231.604	117.3	0.00064	mg/L	0.000011	0.00064	mg/L	0.000011	1.80%
Pb 220.353	32.0	0.00109	mg/L	0.000059	0.00109	mg/L	0.000059	5.47%
Sb 206.833	2.4	0.00005	mg/L	0.000167	0.00005	mg/L	0.000167	321.25%
Se 196.026	6.7	0.00043	mg/L	0.000362	0.00043	mg/L	0.000362	84.97%
Si 288.158	407358.5	4.02	mg/L	0.058	4.02	mg/L	0.058	1.45%
Sn 189.933	-33.8	-0.00124	mg/L	0.000166	-0.00124	mg/L	0.000166	13.45%
Ti 337.280	672.0	0.00042	mg/L	0.000023	0.00042	mg/L	0.000023	5.51%
Tl 190.800	2.9	0.0207	mg/L	0.01182	0.0207	mg/L	0.01182	57.01%
V 292.402	64.4	0.00023	mg/L	0.000001	0.00023	mg/L	0.000001	0.27%
Zn 206.200	2127.2	0.00614	mg/L	0.000005	0.00614	mg/L	0.000005	0.09%
K 766.490	8245.3	0.546	mg/L	0.0117	0.546	mg/L	0.0117	2.15%
Na 589.592	782973.2	19.6	mg/L	0.08	19.6	mg/L	0.08	0.39%
Sr 407.771	1305.0	0.00299	mg/L	0.000008	0.00299	mg/L	0.000008	0.26%

Sequence No.: 23 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 6/14/2001 5:02:50 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4092218.3						77742.18	1.90%
Ag 328.068	254304.6	0.378	mg/L	0.0081	0.378	mg/L	0.0081	2.15%
QC value within limits for Ag 328.068 Recovery = 94.39%								
Al 237.312	143605.2	9.90	mg/L	0.181	9.90	mg/L	0.181	1.83%
QC value within limits for Al 237.312 Recovery = 99.02%								
As 188.979	6495.8	0.379	mg/L	0.0006	0.379	mg/L	0.0006	0.16%
QC value within limits for As 188.979 Recovery = 94.73%								
Ba 230.424	349089.6	1.02	mg/L	0.018	1.02	mg/L	0.018	1.74%
QC value within limits for Ba 230.424 Recovery = 102.20%								

Be 234.861	80150.6	0.0516 mg/L	0.00105	0.0516 mg/L	0.00105	2.02%
QC value within limits for Be 234.861 Recovery = 103.24%						
Ca 227.549	12152.9	9.97 mg/L	0.013	9.97 mg/L	0.013	0.13%
QC value within limits for Ca 227.549 Recovery = 99.69%						
Cd 228.802	19770.5	0.0479 mg/L	0.00000	0.0479 mg/L	0.00000	0.01%
QC value within limits for Cd 228.802 Recovery = 95.77%						
Co 228.616	37399.1	0.206 mg/L	0.0035	0.206 mg/L	0.0035	1.69%
QC value within limits for Co 228.616 Recovery = 103.22%						
Cr 267.716	169673.0	0.511 mg/L	0.0092	0.511 mg/L	0.0092	1.79%
QC value within limits for Cr 267.716 Recovery = 102.28%						
Cu 327.396	199581.7	0.500 mg/L	0.0100	0.500 mg/L	0.0100	2.00%
QC value within limits for Cu 327.396 Recovery = 99.93%						
Fe 261.387	89872.9	3.99 mg/L	0.078	3.99 mg/L	0.078	1.95%
QC value within limits for Fe 261.387 Recovery = 99.70%						
Mg 279.079	578308.1	9.85 mg/L	0.164	9.85 mg/L	0.164	1.67%
QC value within limits for Mg 279.079 Recovery = 98.53%						
Mn 257.610	990334.3	0.504 mg/L	0.0094	0.504 mg/L	0.0094	1.87%
QC value within limits for Mn 257.610 Recovery = 100.87%						
Mo 202.030	112708.1	0.992 mg/L	0.0158	0.992 mg/L	0.0158	1.59%
QC value within limits for Mo 202.030 Recovery = 99.71%						
Ni 231.604	93696.9	0.508 mg/L	0.0079	0.508 mg/L	0.0079	1.55%
QC value within limits for Ni 231.604 Recovery = 101.55%						
Pb 220.353	14554.5	0.495 mg/L	0.0003	0.495 mg/L	0.0003	0.06%
QC value within limits for Pb 220.353 Recovery = 99.09%						
Sb 206.833	34673.3	1.17 mg/L	0.001	1.17 mg/L	0.001	0.09%
QC value within limits for Sb 206.833 Recovery = 97.06%						
Se 196.026	5972.5	0.383 mg/L	0.0007	0.383 mg/L	0.0007	0.18%
QC value within limits for Se 196.026 Recovery = 95.83%						
Si 288.158	505151.4	5.00 mg/L	0.088	5.00 mg/L	0.088	1.76%
QC value within limits for Si 288.158 Recovery = 99.94%						
Sn 189.933	26284.4	0.969 mg/L	0.0072	0.969 mg/L	0.0072	0.75%
QC value within limits for Sn 189.933 Recovery = 97.02%						
Ti 337.280	1685069.0	0.991 mg/L	0.0194	0.991 mg/L	0.0194	1.96%
QC value within limits for Ti 337.280 Recovery = 99.16%						
Tl 190.800	60.0	0.434 mg/L	0.0030	0.434 mg/L	0.0030	0.69%
QC value less than the lower limit for Tl 190.800 Recovery = 86.86%						
V 292.402	286199.5	1.01 mg/L	0.018	1.01 mg/L	0.018	1.76%
QC value within limits for V 292.402 Recovery = 100.94%						
Zn 206.200	345416.7	0.998 mg/L	0.0123	0.998 mg/L	0.0123	1.23%
QC value within limits for Zn 206.200 Recovery = 99.80%						
K 766.490	721913.5	47.8 mg/L	0.64	47.8 mg/L	0.64	1.33%
QC value within limits for K 766.490 Recovery = 95.68%						
Na 589.592	1946377.5	48.6 mg/L	0.82	48.6 mg/L	0.82	1.69%
QC value within limits for Na 589.592 Recovery = 97.26%						
Sr 407.771	1071751.5	0.981 mg/L	0.0145	0.981 mg/L	0.0145	1.48%
QC value within limits for Sr 407.771 Recovery = 98.08%						

QC Failed. Continue with analysis.

Sequence No.: 24 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 5:07:44 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3716004.5						15108.84	0.41%
Ag 328.068	-2.5	0.00000	mg/L	0.000071	0.00000	mg/L	0.000071	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	39.6	0.00276	mg/L	0.000805	0.00276	mg/L	0.000805	29.18%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-6.4	-0.00038	mg/L	0.000491	-0.00038	mg/L	0.000491	130.34%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	28.1	0.00008	mg/L	0.000002	0.00008	mg/L	0.000002	2.68%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-11.9	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	20.00%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-14.2	-0.0119	mg/L	0.00455	-0.0119	mg/L	0.00455	38.22%

QC value within limits for Ca 227.549 Recovery = Not calculated

Cd 228.802	-4.4	-0.00001 mg/L	0.000022	-0.00001 mg/L	0.000022	222.31%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616	5.9	0.00003 mg/L	0.000035	0.00003 mg/L	0.000035	105.31%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716	3.6	0.00001 mg/L	0.000018	0.00001 mg/L	0.000018	169.04%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 327.396	17.2	0.00004 mg/L	0.000001	0.00004 mg/L	0.000001	1.22%

QC value within limits for Cu 327.396 Recovery = Not calculated

Fe 261.387	102.1	0.00449 mg/L	0.000227	0.00449 mg/L	0.000227	5.05%

QC value within limits for Fe 261.387 Recovery = Not calculated

Mg 279.079	79.2	0.00135 mg/L	0.000297	0.00135 mg/L	0.000297	21.97%

QC value within limits for Mg 279.079 Recovery = Not calculated

Mn 257.610	18.0	0.00001 mg/L	0.000005	0.00001 mg/L	0.000005	56.40%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	107.6	0.00095 mg/L	0.000057	0.00095 mg/L	0.000057	6.06%

QC value within limits for Mo 202.030 Recovery = Not calculated

Ni 231.604	4.6	0.00002 mg/L	0.000075	0.00002 mg/L	0.000075	302.63%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	3.0	0.00010 mg/L	0.000102	0.00010 mg/L	0.000102	99.58%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	4.5	0.00016 mg/L	0.000175	0.00016 mg/L	0.000175	112.16%

QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	10.2	0.00065 mg/L	0.000017	0.00065 mg/L	0.000017	2.60%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 288.158	265.3	0.00261 mg/L	0.000152	0.00261 mg/L	0.000152	5.80%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	128.5	0.00471 mg/L	0.000167	0.00471 mg/L	0.000167	3.55%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	53.3	0.00003 mg/L	0.000063	0.00003 mg/L	0.000063	203.33%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	1.0	0.00740 mg/L	0.016811	0.00740 mg/L	0.016811	227.24%

QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	-9.2	-0.00003 mg/L	0.000007	-0.00003 mg/L	0.000007	21.15%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	-431.2	-0.00125 mg/L	0.000010	-0.00125 mg/L	0.000010	0.78%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	163.6	0.0108 mg/L	0.00235	0.0108 mg/L	0.00235	21.66%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	452.1	0.0113 mg/L	0.00057	0.0113 mg/L	0.00057	5.04%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771	40.0	0.00183 mg/L	0.000084	0.00183 mg/L	0.000084	4.60%

QC value within limits for Sr 407.771 Recovery = Not calculated

All analytes passed QC.

Sequence No.: 25 **Autosampler Location: 60**
Sample ID: 0624413 **Date Collected: 6/14/2001 5:12:34 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624413

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3756081.5						47902.99	1.28%
Ag 328.068	43.7	0.00006	mg/L	0.000086	0.00006	mg/L	0.000086	132.40%
Al 237.312	1569.6	0.108	mg/L	0.0006	0.108	mg/L	0.0006	0.52%
As 188.979	-7.9	-0.00046	mg/L	0.000105	-0.00046	mg/L	0.000105	23.01%
Ba 230.424	6301.8	0.0185	mg/L	0.00053	0.0185	mg/L	0.00053	2.87%
Be 234.861	199.8	0.00013	mg/L	0.000023	0.00013	mg/L	0.000023	18.08%
Ca 227.549	911.9	0.756	mg/L	0.0042	0.756	mg/L	0.0042	0.55%
Cd 228.802	26.8	0.00007	mg/L	0.000004	0.00007	mg/L	0.000004	6.22%
Co 228.616	250.6	0.00139	mg/L	0.000036	0.00139	mg/L	0.000036	2.55%
Cr 267.716	350.9	0.00104	mg/L	0.000037	0.00104	mg/L	0.000037	3.55%
Cu 327.396	16689.4	0.0418	mg/L	0.00117	0.0418	mg/L	0.00117	2.79%
Fe 261.387	1068.9	0.0473	mg/L	0.00026	0.0473	mg/L	0.00026	0.54%
Mg 279.079	26442.3	0.451	mg/L	0.0111	0.451	mg/L	0.0111	2.46%
Mn 257.610	11286.5	0.00575	mg/L	0.000174	0.00575	mg/L	0.000174	3.03%
Mo 202.030	80.3	0.00071	mg/L	0.000055	0.00071	mg/L	0.000055	7.73%

Ni 231.604	508.9	0.00276	mg/L	0.000008	0.00276	mg/L	0.000008	0.31%
Pb 220.353	83.4	0.00282	mg/L	0.000247	0.00282	mg/L	0.000247	8.74%
Sb 206.833	10.0	0.00029	mg/L	0.000234	0.00029	mg/L	0.000234	80.49%
Se 196.026	11.8	0.00075	mg/L	0.000468	0.00075	mg/L	0.000468	62.23%
Si 288.158	398279.6	3.93	mg/L	0.045	3.93	mg/L	0.045	1.14%
Sn 189.933	72.9	0.00267	mg/L	0.000544	0.00267	mg/L	0.000544	20.35%
Ti 337.280	349.3	0.00026	mg/L	0.000014	0.00026	mg/L	0.000014	5.28%
Tl 190.800	1.7	0.0122	mg/L	0.01310	0.0122	mg/L	0.01310	107.11%
V 292.402	48.0	0.00017	mg/L	0.000001	0.00017	mg/L	0.000001	0.31%
Zn 206.200	10004.4	0.0289	mg/L	0.00057	0.0289	mg/L	0.00057	1.97%
K 766.490	11080.0	0.733	mg/L	0.0218	0.733	mg/L	0.0218	2.98%
Na 589.592	111548.8	2.79	mg/L	0.068	2.79	mg/L	0.068	2.44%
Sr 407.771	7381.2	0.00854	mg/L	0.000122	0.00854	mg/L	0.000122	1.42%

Sequence No.: 26 **Autosampler Location: 61**
Sample ID: 0624414 **Date Collected: 6/14/2001 5:17:28 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624414

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3781039.6						34335.61	0.91%
Ag 328.068	106.0	0.00016	mg/L	0.000069	0.00016	mg/L	0.000069	44.08%
Al 237.312	1504.4	0.104	mg/L	0.0002	0.104	mg/L	0.0002	0.16%
As 188.979	0.6	0.00004	mg/L	0.000141	0.00004	mg/L	0.000141	329.11%
Ba 230.424	6375.6	0.0187	mg/L	0.00015	0.0187	mg/L	0.00015	0.78%
Be 234.861	171.9	0.00011	mg/L	0.000004	0.00011	mg/L	0.000004	3.81%
Ca 227.549	1004.3	0.833	mg/L	0.0050	0.833	mg/L	0.0050	0.60%
Cd 228.802	143.3	0.00036	mg/L	0.000003	0.00036	mg/L	0.000003	0.74%
Co 228.616	272.3	0.00151	mg/L	0.000012	0.00151	mg/L	0.000012	0.81%
Cr 267.716	372.8	0.00111	mg/L	0.000039	0.00111	mg/L	0.000039	3.48%
Cu 327.396	11880.6	0.0298	mg/L	0.00016	0.0298	mg/L	0.00016	0.55%
Fe 261.387	787.4	0.0349	mg/L	0.00017	0.0349	mg/L	0.00017	0.49%
Mg 279.079	27090.0	0.462	mg/L	0.0018	0.462	mg/L	0.0018	0.39%
Mn 257.610	11449.3	0.00583	mg/L	0.000053	0.00583	mg/L	0.000053	0.91%
Mo 202.030	75.7	0.00067	mg/L	0.000053	0.00067	mg/L	0.000053	8.01%
Ni 231.604	476.3	0.00258	mg/L	0.000011	0.00258	mg/L	0.000011	0.43%
Pb 220.353	62.4	0.00212	mg/L	0.000140	0.00212	mg/L	0.000140	6.59%
Sb 206.833	2.4	0.00003	mg/L	0.000421	0.00003	mg/L	0.000421	>999.9%
Se 196.026	-0.2	-0.00002	mg/L	0.000184	-0.00002	mg/L	0.000184	828.31%
Si 288.158	420165.5	4.15	mg/L	0.022	4.15	mg/L	0.022	0.53%
Sn 189.933	-9.9	-0.00036	mg/L	0.000436	-0.00036	mg/L	0.000436	120.28%
Ti 337.280	514.7	0.00036	mg/L	0.000135	0.00036	mg/L	0.000135	37.74%
Tl 190.800	2.8	0.0206	mg/L	0.00616	0.0206	mg/L	0.00616	29.86%
V 292.402	66.0	0.00023	mg/L	0.000100	0.00023	mg/L	0.000100	43.02%
Zn 206.200	11561.9	0.0334	mg/L	0.00023	0.0334	mg/L	0.00023	0.68%
K 766.490	11392.8	0.754	mg/L	0.0011	0.754	mg/L	0.0011	0.15%
Na 589.592	115869.1	2.90	mg/L	0.020	2.90	mg/L	0.020	0.71%
Sr 407.771	7615.5	0.00875	mg/L	0.000104	0.00875	mg/L	0.000104	1.19%

Sequence No.: 27 **Autosampler Location: 62**
Sample ID: 0624415 **Date Collected: 6/14/2001 5:22:23 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624415

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3863706.2						10219.07	0.26%
Ag 328.068	107.3	0.00016	mg/L	0.000127	0.00016	mg/L	0.000127	79.64%
Al 237.312	3720.8	0.281	mg/L	0.0027	0.281	mg/L	0.0027	0.98%
As 188.979	0.8	0.00006	mg/L	0.000058	0.00006	mg/L	0.000058	103.77%
Ba 230.424	3202.7	0.00944	mg/L	0.000036	0.00944	mg/L	0.000036	0.38%
Be 234.861	532.3	0.00012	mg/L	0.000024	0.00012	mg/L	0.000024	20.94%

Ca 227.549	834.8	0.626	mg/L	0.0053	0.626	mg/L	0.0053	0.85%
Cd 228.802	16.3	0.00004	mg/L	0.000005	0.00004	mg/L	0.000005	12.97%
Co 228.616	138.9	0.00083	mg/L	0.000001	0.00083	mg/L	0.000001	0.15%
Cr 267.716	654.3	0.00210	mg/L	0.000005	0.00210	mg/L	0.000005	0.24%
Cu 327.396	6344.0	0.0159	mg/L	0.00012	0.0159	mg/L	0.00012	0.75%
Fe 261.387	79609.8	3.50	mg/L	0.021	3.50	mg/L	0.021	0.59%
Mg 279.079	16892.7	0.288	mg/L	0.0000	0.288	mg/L	0.0000	0.01%
Mn 257.610	28420.1	0.0145	mg/L	0.00008	0.0145	mg/L	0.00008	0.55%
Mo 202.030	57.9	0.00051	mg/L	0.000003	0.00051	mg/L	0.000003	0.55%
Ni 231.604	895.3	0.00490	mg/L	0.000016	0.00490	mg/L	0.000016	0.32%
Pb 220.353	104.7	0.00356	mg/L	0.000370	0.00356	mg/L	0.000370	10.38%
Sb 206.833	16.7	0.00013	mg/L	0.000333	0.00013	mg/L	0.000333	260.05%
Se 196.026	11.2	0.00070	mg/L	0.000037	0.00070	mg/L	0.000037	5.33%
Si 288.158	507313.1	5.01	mg/L	0.019	5.01	mg/L	0.019	0.38%
Sn 189.933	91.7	0.00337	mg/L	0.000211	0.00337	mg/L	0.000211	6.25%
Ti 337.280	6967.3	0.00432	mg/L	0.000045	0.00432	mg/L	0.000045	1.03%
Tl 190.800	1.0	0.00688	mg/L	0.007548	0.00688	mg/L	0.007548	109.68%
V 292.402	374.4	0.00159	mg/L	0.000006	0.00159	mg/L	0.000006	0.37%
Zn 206.200	5798.1	0.0165	mg/L	0.00001	0.0165	mg/L	0.00001	0.04%
K 766.490	10669.0	0.707	mg/L	0.0047	0.707	mg/L	0.0047	0.66%
Na 589.592	454798.4	11.4	mg/L	0.12	11.4	mg/L	0.12	1.09%
Sr 407.771	5082.0	0.00644	mg/L	0.000045	0.00644	mg/L	0.000045	0.70%

Sequence No.: 28
Sample ID: 0624416
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 6/14/2001 5:27:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624416

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3826833.5						19747.91	0.52%
Ag 328.068	158.6	0.00024	mg/L	0.000009	0.00024	mg/L	0.000009	4.02%
Al 237.312	344.4	0.0241	mg/L	0.00069	0.0241	mg/L	0.00069	2.87%
As 188.979	-7.2	-0.00042	mg/L	0.000225	-0.00042	mg/L	0.000225	53.88%
Ba 230.424	3719.8	0.0109	mg/L	0.00004	0.0109	mg/L	0.00004	0.38%
Be 234.861	123.8	0.00008	mg/L	0.000011	0.00008	mg/L	0.000011	14.55%
Ca 227.549	813.4	0.674	mg/L	0.0059	0.674	mg/L	0.0059	0.87%
Cd 228.802	56.9	0.00014	mg/L	0.000004	0.00014	mg/L	0.000004	2.82%
Co 228.616	43.1	0.00024	mg/L	0.000005	0.00024	mg/L	0.000005	1.98%
Cr 267.716	299.6	0.00089	mg/L	0.000019	0.00089	mg/L	0.000019	2.08%
Cu 327.396	3534.9	0.00885	mg/L	0.000083	0.00885	mg/L	0.000083	0.93%
Fe 261.387	1358.0	0.0598	mg/L	0.00090	0.0598	mg/L	0.00090	1.50%
Mg 279.079	16527.4	0.282	mg/L	0.0039	0.282	mg/L	0.0039	1.39%
Mn 257.610	7574.3	0.00386	mg/L	0.000040	0.00386	mg/L	0.000040	1.03%
Mo 202.030	59.3	0.00052	mg/L	0.000004	0.00052	mg/L	0.000004	0.84%
Ni 231.604	395.0	0.00214	mg/L	0.000023	0.00214	mg/L	0.000023	1.08%
Pb 220.353	42.4	0.00144	mg/L	0.000215	0.00144	mg/L	0.000215	14.95%
Sb 206.833	9.5	0.00029	mg/L	0.000011	0.00029	mg/L	0.000011	3.83%
Se 196.026	0.6	0.00004	mg/L	0.000757	0.00004	mg/L	0.000757	>999.9%
Si 288.158	413462.3	4.08	mg/L	0.014	4.08	mg/L	0.014	0.34%
Sn 189.933	-27.8	-0.00101	mg/L	0.000122	-0.00101	mg/L	0.000122	12.05%
Ti 337.280	638.7	0.00042	mg/L	0.000041	0.00042	mg/L	0.000041	9.93%
Tl 190.800	2.2	0.0159	mg/L	0.00937	0.0159	mg/L	0.00937	58.88%
V 292.402	103.4	0.00037	mg/L	0.000163	0.00037	mg/L	0.000163	44.18%
Zn 206.200	11399.2	0.0329	mg/L	0.00016	0.0329	mg/L	0.00016	0.47%
K 766.490	12993.3	0.861	mg/L	0.0206	0.861	mg/L	0.0206	2.39%
Na 589.592	815810.1	20.4	mg/L	0.33	20.4	mg/L	0.33	1.60%
Sr 407.771	4865.5	0.00624	mg/L	0.000062	0.00624	mg/L	0.000062	0.99%

Sequence No.: 29
Sample ID: 0624417
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 6/14/2001 5:32:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624417

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3760219.9						26594.33	0.71%
Ag 328.068	18.2	0.00003	mg/L	0.000016	0.00003	mg/L	0.000016	58.23%
Al 237.312	168.9	0.0118	mg/L	0.00089	0.0118	mg/L	0.00089	7.55%
As 188.979	-5.9	-0.00034	mg/L	0.000306	-0.00034	mg/L	0.000306	89.20%
Ba 230.424	3213.5	0.00943	mg/L	0.000010	0.00943	mg/L	0.000010	0.10%
Be 234.861	136.8	0.00009	mg/L	0.000016	0.00009	mg/L	0.000016	17.94%
Ca 227.549	521.1	0.432	mg/L	0.0153	0.432	mg/L	0.0153	3.53%
Cd 228.802	38.4	0.00010	mg/L	0.000011	0.00010	mg/L	0.000011	11.79%
Co 228.616	75.2	0.00042	mg/L	0.000045	0.00042	mg/L	0.000045	10.78%
Cr 267.716	219.9	0.00066	mg/L	0.000023	0.00066	mg/L	0.000023	3.55%
Cu 327.396	3255.6	0.00816	mg/L	0.000066	0.00816	mg/L	0.000066	0.81%
Fe 261.387	645.4	0.0284	mg/L	0.00037	0.0284	mg/L	0.00037	1.29%
Mg 279.079	15238.8	0.260	mg/L	0.0005	0.260	mg/L	0.0005	0.20%
Mn 257.610	2691.9	0.00137	mg/L	0.000003	0.00137	mg/L	0.000003	0.22%
Mo 202.030	56.4	0.00050	mg/L	0.000032	0.00050	mg/L	0.000032	6.49%
Ni 231.604	216.3	0.00117	mg/L	0.000069	0.00117	mg/L	0.000069	5.87%
Pb 220.353	66.7	0.00225	mg/L	0.000081	0.00225	mg/L	0.000081	3.57%
Sb 206.833	-2.0	-0.00009	mg/L	0.000170	-0.00009	mg/L	0.000170	187.13%
Se 196.026	8.2	0.00052	mg/L	0.000062	0.00052	mg/L	0.000062	11.79%
Si 288.158	425299.5	4.20	mg/L	0.022	4.20	mg/L	0.022	0.53%
Sn 189.933	-41.9	-0.00153	mg/L	0.000039	-0.00153	mg/L	0.000039	2.54%
Ti 337.280	351.3	0.00023	mg/L	0.000076	0.00023	mg/L	0.000076	33.80%
Tl 190.800	1.5	0.0107	mg/L	0.00577	0.0107	mg/L	0.00577	53.80%
V 292.402	76.5	0.00027	mg/L	0.000043	0.00027	mg/L	0.000043	15.65%
Zn 206.200	8949.5	0.0259	mg/L	0.00005	0.0259	mg/L	0.00005	0.18%
K 766.490	12569.7	0.833	mg/L	0.0082	0.833	mg/L	0.0082	0.99%
Na 589.592	86252.0	2.16	mg/L	0.001	2.16	mg/L	0.001	0.05%
Sr 407.771	3244.5	0.00476	mg/L	0.000079	0.00476	mg/L	0.000079	1.67%

Sequence No.: 30
Sample ID: 0624418
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 6/14/2001 5:37:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0624418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3731218.6						42067.48	1.13%
Ag 328.068	105.7	0.00016	mg/L	0.000070	0.00016	mg/L	0.000070	44.77%
Al 237.312	182.5	0.0128	mg/L	0.00022	0.0128	mg/L	0.00022	1.73%
As 188.979	-2.2	-0.00012	mg/L	0.000092	-0.00012	mg/L	0.000092	75.34%
Ba 230.424	1493.1	0.00438	mg/L	0.000003	0.00438	mg/L	0.000003	0.07%
Be 234.861	87.4	0.00005	mg/L	0.000009	0.00005	mg/L	0.000009	16.35%
Ca 227.549	246.3	0.204	mg/L	0.0002	0.204	mg/L	0.0002	0.11%
Cd 228.802	54.8	0.00014	mg/L	0.000005	0.00014	mg/L	0.000005	3.52%
Co 228.616	45.4	0.00025	mg/L	0.000001	0.00025	mg/L	0.000001	0.29%
Cr 267.716	199.7	0.00060	mg/L	0.000014	0.00060	mg/L	0.000014	2.39%
Cu 327.396	2257.4	0.00565	mg/L	0.000031	0.00565	mg/L	0.000031	0.56%
Fe 261.387	668.6	0.0294	mg/L	0.00027	0.0294	mg/L	0.00027	0.91%
Mg 279.079	7143.0	0.122	mg/L	0.0028	0.122	mg/L	0.0028	2.27%
Mn 257.610	2483.9	0.00126	mg/L	0.000007	0.00126	mg/L	0.000007	0.58%
Mo 202.030	38.6	0.00034	mg/L	0.000003	0.00034	mg/L	0.000003	0.76%
Ni 231.604	101.3	0.00055	mg/L	0.000019	0.00055	mg/L	0.000019	3.39%
Pb 220.353	29.3	0.00099	mg/L	0.000115	0.00099	mg/L	0.000115	11.57%
Sb 206.833	7.8	0.00025	mg/L	0.000078	0.00025	mg/L	0.000078	31.67%
Se 196.026	3.4	0.00022	mg/L	0.000058	0.00022	mg/L	0.000058	26.72%
Si 288.158	412729.8	4.08	mg/L	0.062	4.08	mg/L	0.062	1.52%
Sn 189.933	-33.2	-0.00121	mg/L	0.000040	-0.00121	mg/L	0.000040	3.28%
Ti 337.280	220.9	0.00014	mg/L	0.000005	0.00014	mg/L	0.000005	3.86%
Tl 190.800	2.5	0.0184	mg/L	0.00819	0.0184	mg/L	0.00819	44.61%
V 292.402	50.5	0.00018	mg/L	0.000013	0.00018	mg/L	0.000013	6.96%
Zn 206.200	6792.4	0.0196	mg/L	0.00029	0.0196	mg/L	0.00029	1.50%
K 766.490	5130.8	0.340	mg/L	0.0118	0.340	mg/L	0.0118	3.47%
Na 589.592	168767.4	4.22	mg/L	0.056	4.22	mg/L	0.056	1.34%
Sr 407.771	1451.1	0.00312	mg/L	0.000037	0.00312	mg/L	0.000037	1.20%

Sequence No.: 31
Sample ID: 0624419
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 6/14/2001 5:41:50 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624419

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3840579.9						8621.46	0.22%
Ag 328.068	65.9	0.00010	mg/L	0.000095	0.00010	mg/L	0.000095	97.16%
Al 237.312	129.1	0.00952	mg/L	0.001542	0.00952	mg/L	0.001542	16.20%
As 188.979	-8.5	-0.00049	mg/L	0.000125	-0.00049	mg/L	0.000125	25.33%
Ba 230.424	885.2	0.00260	mg/L	0.000026	0.00260	mg/L	0.000026	0.99%
Be 234.861	99.7	0.00006	mg/L	0.000000	0.00006	mg/L	0.000000	0.05%
Ca 227.549	266.1	0.219	mg/L	0.0068	0.219	mg/L	0.0068	3.09%
Cd 228.802	18.2	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	23.53%
Co 228.616	12.1	0.00007	mg/L	0.000010	0.00007	mg/L	0.000010	14.29%
Cr 267.716	218.9	0.00065	mg/L	0.000002	0.00065	mg/L	0.000002	0.36%
Cu 327.396	1110.4	0.00278	mg/L	0.000168	0.00278	mg/L	0.000168	6.05%
Fe 261.387	2022.4	0.0889	mg/L	0.00024	0.0889	mg/L	0.00024	0.27%
Mg 279.079	4911.0	0.0837	mg/L	0.00140	0.0837	mg/L	0.00140	1.67%
Mn 257.610	2283.7	0.00116	mg/L	0.000005	0.00116	mg/L	0.000005	0.40%
Mo 202.030	46.8	0.00041	mg/L	0.000001	0.00041	mg/L	0.000001	0.28%
Ni 231.604	229.4	0.00124	mg/L	0.000043	0.00124	mg/L	0.000043	3.44%
Pb 220.353	36.5	0.00123	mg/L	0.000159	0.00123	mg/L	0.000159	12.87%
Sb 206.833	11.7	0.00037	mg/L	0.000047	0.00037	mg/L	0.000047	12.67%
Se 196.026	6.1	0.00039	mg/L	0.000363	0.00039	mg/L	0.000363	92.12%
Si 288.158	424230.8	4.19	mg/L	0.025	4.19	mg/L	0.025	0.60%
Sn 189.933	-22.7	-0.00083	mg/L	0.000107	-0.00083	mg/L	0.000107	12.87%
Ti 337.280	141.1	0.00010	mg/L	0.000075	0.00010	mg/L	0.000075	75.35%
Tl 190.800	1.9	0.0139	mg/L	0.00951	0.0139	mg/L	0.00951	68.19%
V 292.402	25.5	0.00010	mg/L	0.000048	0.00010	mg/L	0.000048	49.59%
Zn 206.200	14611.6	0.0422	mg/L	0.00046	0.0422	mg/L	0.00046	1.09%
K 766.490	5808.5	0.385	mg/L	0.0260	0.385	mg/L	0.0260	6.76%
Na 589.592	237504.3	5.93	mg/L	0.009	5.93	mg/L	0.009	0.15%
Sr 407.771	894.8	0.00261	mg/L	0.000018	0.00261	mg/L	0.000018	0.68%

Sequence No.: 32
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 5:46:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4023417.9						7623.43	0.19%
Ag 328.068	250114.4	0.371	mg/L	0.0001	0.371	mg/L	0.0001	0.01%
QC value within limits for Ag 328.068 Recovery = 92.84%								
Al 237.312	141040.6	9.73	mg/L	0.010	9.73	mg/L	0.010	0.10%
QC value within limits for Al 237.312 Recovery = 97.25%								
As 188.979	6429.2	0.375	mg/L	0.0001	0.375	mg/L	0.0001	0.04%
QC value within limits for As 188.979 Recovery = 93.76%								
Ba 230.424	343665.3	1.01	mg/L	0.001	1.01	mg/L	0.001	0.06%
QC value within limits for Ba 230.424 Recovery = 100.62%								
Be 234.861	79259.8	0.0510	mg/L	0.00007	0.0510	mg/L	0.00007	0.14%
QC value within limits for Be 234.861 Recovery = 102.10%								
Ca 227.549	12045.8	9.88	mg/L	0.010	9.88	mg/L	0.010	0.11%
QC value within limits for Ca 227.549 Recovery = 98.82%								
Cd 228.802	19560.8	0.0474	mg/L	0.00010	0.0474	mg/L	0.00010	0.22%
QC value within limits for Cd 228.802 Recovery = 94.76%								
Co 228.616	36801.1	0.203	mg/L	0.0008	0.203	mg/L	0.0008	0.41%
QC value within limits for Co 228.616 Recovery = 101.57%								
Cr 267.716	167015.4	0.503	mg/L	0.0009	0.503	mg/L	0.0009	0.18%
QC value within limits for Cr 267.716 Recovery = 100.68%								

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Cu 327.396	196053.0	0.491 mg/L	0.0003	0.491 mg/L	0.0003	0.05%
QC value within limits for Cu 327.396 Recovery = 98.16%						
Fe 261.387	87925.4	3.90 mg/L	0.007	3.90 mg/L	0.007	0.19%
QC value within limits for Fe 261.387 Recovery = 97.54%						
Mg 279.079	568402.3	9.68 mg/L	0.008	9.68 mg/L	0.008	0.08%
QC value within limits for Mg 279.079 Recovery = 96.84%						
Mn 257.610	973530.2	0.496 mg/L	0.0005	0.496 mg/L	0.0005	0.11%
QC value within limits for Mn 257.610 Recovery = 99.16%						
Mo 202.030	110853.3	0.976 mg/L	0.0020	0.976 mg/L	0.0020	0.21%
QC value within limits for Mo 202.030 Recovery = 98.07%						
Ni 231.604	91868.1	0.498 mg/L	0.0015	0.498 mg/L	0.0015	0.31%
QC value within limits for Ni 231.604 Recovery = 99.57%						
Pb 220.353	14406.8	0.490 mg/L	0.0003	0.490 mg/L	0.0003	0.06%
QC value within limits for Pb 220.353 Recovery = 98.08%						
Sb 206.833	34337.5	1.16 mg/L	0.001	1.16 mg/L	0.001	0.08%
QC value within limits for Sb 206.833 Recovery = 96.13%						
Se 196.026	5913.6	0.380 mg/L	0.0006	0.380 mg/L	0.0006	0.15%
QC value within limits for Se 196.026 Recovery = 94.89%						
Si 288.158	496864.3	4.92 mg/L	0.005	4.92 mg/L	0.005	0.10%
QC value within limits for Si 288.158 Recovery = 98.30%						
Sn 189.933	26105.7	0.962 mg/L	0.0085	0.962 mg/L	0.0085	0.88%
QC value within limits for Sn 189.933 Recovery = 96.36%						
Ti 337.280	1658465.7	0.975 mg/L	0.0008	0.975 mg/L	0.0008	0.08%
QC value within limits for Ti 337.280 Recovery = 97.59%						
Tl 190.800	60.6	0.439 mg/L	0.0007	0.439 mg/L	0.0007	0.16%
QC value less than the lower limit for Tl 190.800 Recovery = 87.82%						
V 292.402	281970.1	0.994 mg/L	0.0006	0.994 mg/L	0.0006	0.06%
QC value within limits for V 292.402 Recovery = 99.44%						
Zn 206.200	340395.5	0.984 mg/L	0.0001	0.984 mg/L	0.0001	0.01%
QC value within limits for Zn 206.200 Recovery = 98.35%						
K 766.490	722326.8	47.9 mg/L	0.15	47.9 mg/L	0.15	0.31%
QC value within limits for K 766.490 Recovery = 95.73%						
Na 589.592	1949525.6	48.7 mg/L	0.14	48.7 mg/L	0.14	0.29%
QC value within limits for Na 589.592 Recovery = 97.42%						
Sr 407.771	1072379.0	0.981 mg/L	0.0047	0.981 mg/L	0.0047	0.48%
QC value within limits for Sr 407.771 Recovery = 98.13%						

QC Failed. Continue with analysis.

Sequence No.: 33 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 5:51:36 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3767339.6						38467.93	1.02%
Ag 328.068	37.2	0.00006	mg/L	0.000008	0.00006	mg/L	0.000008	13.78%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	34.4	0.00239	mg/L	0.000091	0.00239	mg/L	0.000091	3.81%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	4.1	0.00024	mg/L	0.000343	0.00024	mg/L	0.000343	144.95%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	18.9	0.00005	mg/L	0.000008	0.00005	mg/L	0.000008	15.49%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-1.4	0.00000	mg/L	0.000005	0.00000	mg/L	0.000005	470.91%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-2.5	-0.00216	mg/L	0.002098	-0.00216	mg/L	0.002098	97.35%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-2.3	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	39.08%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	2.9	0.00002	mg/L	0.000006	0.00002	mg/L	0.000006	33.38%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.3	0.00006	mg/L	0.000004	0.00006	mg/L	0.000004	6.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	36.9	0.00009	mg/L	0.000043	0.00009	mg/L	0.000043	47.00%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	86.4	0.00380	mg/L	0.000015	0.00380	mg/L	0.000015	0.39%

QC value within limits for Fe 261.387 Recovery = Not calculated

Mg	279.079	66.3	0.00113 mg/L	0.000086	0.00113 mg/L	0.000086	7.63%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn	257.610	24.3	0.00001 mg/L	0.000004	0.00001 mg/L	0.000004	33.15%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo	202.030	106.3	0.00094 mg/L	0.000130	0.00094 mg/L	0.000130	13.91%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni	231.604	8.9	0.00005 mg/L	0.000015	0.00005 mg/L	0.000015	30.88%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb	220.353	2.5	0.00009 mg/L	0.000211	0.00009 mg/L	0.000211	241.28%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb	206.833	1.3	0.00005 mg/L	0.000169	0.00005 mg/L	0.000169	362.06%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se	196.026	15.9	0.00103 mg/L	0.000536	0.00103 mg/L	0.000536	52.20%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si	288.158	189.7	0.00187 mg/L	0.000081	0.00187 mg/L	0.000081	4.33%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn	189.933	123.8	0.00454 mg/L	0.000047	0.00454 mg/L	0.000047	1.03%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti	337.280	67.6	0.00004 mg/L	0.000021	0.00004 mg/L	0.000021	53.10%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl	190.800	0.9	0.00654 mg/L	0.008212	0.00654 mg/L	0.008212	125.52%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V	292.402	-17.1	-0.00006 mg/L	0.000007	-0.00006 mg/L	0.000007	11.92%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn	206.200	-434.9	-0.00126 mg/L	0.000014	-0.00126 mg/L	0.000014	1.09%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K	766.490	180.4	0.0120 mg/L	0.00737	0.0120 mg/L	0.00737	61.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Na	589.592	594.6	0.0149 mg/L	0.00044	0.0149 mg/L	0.00044	2.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr	407.771	-11.6	0.00179 mg/L	0.000016	0.00179 mg/L	0.000016	0.89%
QC value within limits for Sr 407.771 Recovery = Not calculated								

All analytes passed QC.

Analysis Begun

Start Time: 6/14/2001 6:40:12 PM **Plasma On Time: 6/14/2001 8:07:41 AM**
Logged In Analyst: Administrator **Technique: ICP Continuous**
Spectrometer Model: Optima 3000 DV **Autosampler Model: AS-90**

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 9**
Sample ID: 0623601DL.01 WG99226-01 **Date Collected: 6/14/2001 6:40:12 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: 100X **Data Type: Original**

Mean Data: 0623601DL.01 WG99226-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3717400.5						69003.01	1.86%
Ag 328.068	-28.1	-0.00004	mg/L	0.000035	-0.00417	mg/L	0.003489	83.65%
Al 237.312	9177.5	0.647	mg/L	0.0048	64.7	mg/L	0.48	0.74%
As 188.979	2.7	0.00018	mg/L	0.000116	0.0180	mg/L	0.01155	64.22%
Ba 230.424	905.1	0.00269	mg/L	0.000018	0.269	mg/L	0.0018	0.67%
Be 234.861	213.5	-0.00001	mg/L	0.000007	-0.00081	mg/L	0.000674	83.10%
Ca 227.549	2033.5	1.65	mg/L	0.000	165	mg/L	0.0	0.01%
Cd 228.802	118.8	0.00030	mg/L	0.000007	0.0296	mg/L	0.00071	2.40%
Co 228.616	31.1	0.00022	mg/L	0.000016	0.0216	mg/L	0.00164	7.58%
Cr 267.716	767.2	0.00238	mg/L	0.000026	0.238	mg/L	0.0026	1.10%
Cu 327.396	949.3	0.00238	mg/L	0.000028	0.238	mg/L	0.0028	1.17%
Fe 261.387	50067.1	2.20	mg/L	0.015	220	mg/L	1.5	0.68%
Mg 279.079	4165.4	0.0708	mg/L	0.00245	7.08	mg/L	0.245	3.45%
Mn 257.610	47492.5	0.0242	mg/L	0.00016	2.42	mg/L	0.016	0.65%
Mo 202.030	25.3	0.00022	mg/L	0.000017	0.0221	mg/L	0.00166	7.51%
Ni 231.604	119.0	0.00067	mg/L	0.000038	0.0673	mg/L	0.00378	5.61%
Pb 220.353	125.5	0.00429	mg/L	0.000117	0.429	mg/L	0.0117	2.73%
Sb 206.833	9.1	-0.00006	mg/L	0.000074	-0.00571	mg/L	0.007436	130.14%
Se 196.026	4.5	0.00024	mg/L	0.000140	0.0239	mg/L	0.01400	58.57%
Si 288.158	51866.7	0.513	mg/L	0.0050	51.3	mg/L	0.50	0.97%
Sn 189.933	-109.9	-0.00405	mg/L	0.000128	-0.405	mg/L	0.0128	3.15%
Ti 337.280	2246.1	0.00161	mg/L	0.000028	0.161	mg/L	0.0028	1.77%
Tl 190.800	1.9	0.0134	mg/L	0.00702	1.34	mg/L	0.702	52.22%
V 292.402	182.5	0.00081	mg/L	0.000022	0.0807	mg/L	0.00222	2.75%
Zn 206.200	6224.8	0.0178	mg/L	0.00011	1.78	mg/L	0.011	0.61%
K 766.490	653.0	0.0431	mg/L	0.00217	4.31	mg/L	0.217	5.05%
Na 589.592	2126.9	0.0531	mg/L	0.00060	5.31	mg/L	0.060	1.13%
Sr 407.771	9311.1	0.0103	mg/L	0.00005	1.03	mg/L	0.005	0.50%

Sequence No.: 2 **Autosampler Location: 10**
Sample ID: PBW GO WG99227-03 **Date Collected: 6/14/2001 6:45:02 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: PBW GO WG99227-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3949524.2						11207.50	0.28%
Ag 328.068	25.8	0.00004	mg/L	0.000037	0.00004	mg/L	0.000037	95.37%
Al 237.312	100.1	0.00696	mg/L	0.000117	0.00696	mg/L	0.000117	1.68%
As 188.979	-1.5	-0.00009	mg/L	0.000295	-0.00009	mg/L	0.000295	342.52%
Ba 230.424	114.0	0.00033	mg/L	0.000008	0.00033	mg/L	0.000008	2.37%
Be 234.861	-0.8	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	211.96%
Ca 227.549	51.1	0.0422	mg/L	0.01165	0.0422	mg/L	0.01165	27.58%
Cd 228.802	5.2	0.00001	mg/L	0.000013	0.00001	mg/L	0.000013	101.13%

Co 228.616	6.1	0.00003 mg/L	0.000018	0.00003 mg/L	0.000018	52.98%
Cr 267.716	41.0	0.00012 mg/L	0.000003	0.00012 mg/L	0.000003	2.72%
Cu 327.396	160.6	0.00040 mg/L	0.000020	0.00040 mg/L	0.000020	5.02%
Fe 261.387	254.9	0.0112 mg/L	0.00008	0.0112 mg/L	0.00008	0.68%
Mg 279.079	298.8	0.00509 mg/L	0.000309	0.00509 mg/L	0.000309	6.06%
Mn 257.610	1219.2	0.00062 mg/L	0.000004	0.00062 mg/L	0.000004	0.57%
Mo 202.030	11.1	0.00010 mg/L	0.000081	0.00010 mg/L	0.000081	82.93%
Ni 231.604	125.9	0.00068 mg/L	0.000035	0.00068 mg/L	0.000035	5.11%
Pb 220.353	9.2	0.00031 mg/L	0.000049	0.00031 mg/L	0.000049	15.60%
Sb 206.833	2.9	0.00009 mg/L	0.000094	0.00009 mg/L	0.000094	101.88%
Se 196.026	5.4	0.00035 mg/L	0.000090	0.00035 mg/L	0.000090	25.70%
Si 288.158	17892.1	0.177 mg/L	0.0027	0.177 mg/L	0.0027	1.53%
Sn 189.933	-41.3	-0.00151 mg/L	0.000044	-0.00151 mg/L	0.000044	2.88%
Ti 337.280	233.8	0.00014 mg/L	0.000004	0.00014 mg/L	0.000004	3.05%
Tl 190.800	0.8	0.00555 mg/L	0.001393	0.00555 mg/L	0.001393	25.08%
V 292.402	-19.8	-0.00007 mg/L	0.000013	-0.00007 mg/L	0.000013	18.69%
Zn 206.200	2119.1	0.00612 mg/L	0.000028	0.00612 mg/L	0.000028	0.45%
K 766.490	380.7	0.0252 mg/L	0.00086	0.0252 mg/L	0.00086	3.40%
Na 589.592	5701.0	0.142 mg/L	0.0038	0.142 mg/L	0.0038	2.66%
Sr 407.771	5.7	0.00180 mg/L	0.000039	0.00180 mg/L	0.000039	2.14%

Sequence No.: 3
Sample ID: LCSWGO WG99227-04
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 6/14/2001 6:49:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCSWGO WG99227-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3897098.8						2030.31	0.05%
Ag 328.068	128084.4	0.190	mg/L	0.0001	0.190	mg/L	0.0001	0.06%
Al 237.312	139557.0	9.60	mg/L	0.024	9.60	mg/L	0.024	0.25%
As 188.979	15668.0	0.922	mg/L	0.0083	0.922	mg/L	0.0083	0.90%
Ba 230.424	3044456.8	8.93	mg/L	0.014	8.93	mg/L	0.014	0.15%
Be 234.861	1487642.0	0.962	mg/L	0.0008	0.962	mg/L	0.0008	0.08%
Ca 227.549	11578.5	9.56	mg/L	0.149	9.56	mg/L	0.149	1.56%
Cd 228.802	366891.4	0.914	mg/L	0.0015	0.914	mg/L	0.0015	0.16%
Co 228.616	169519.7	0.940	mg/L	0.0016	0.940	mg/L	0.0016	0.17%
Cr 267.716	316186.3	0.947	mg/L	0.0013	0.947	mg/L	0.0013	0.13%
Cu 327.396	370975.9	0.929	mg/L	0.0006	0.929	mg/L	0.0006	0.06%
Fe 261.387	17737.9	0.905	mg/L	0.0031	0.905	mg/L	0.0031	0.35%
Mg 279.079	542164.2	9.24	mg/L	0.022	9.24	mg/L	0.022	0.24%
Mn 257.610	1863384.4	0.949	mg/L	0.0011	0.949	mg/L	0.0011	0.12%
Mo 202.030	102383.0	0.901	mg/L	0.0019	0.901	mg/L	0.0019	0.21%
Ni 231.604	170684.9	0.925	mg/L	0.0017	0.925	mg/L	0.0017	0.18%
Pb 220.353	27568.6	0.935	mg/L	0.0099	0.935	mg/L	0.0099	1.06%
Sb 206.833	27486.4	0.914	mg/L	0.0107	0.914	mg/L	0.0107	1.17%
Se 196.026	14050.9	0.904	mg/L	0.0089	0.904	mg/L	0.0089	0.98%
Si 288.158	1032191.5	10.2	mg/L	0.02	10.2	mg/L	0.02	0.20%
Sn 189.933	25553.0	0.942	mg/L	0.0070	0.942	mg/L	0.0070	0.74%
Ti 337.280	1629508.6	0.960	mg/L	0.0007	0.960	mg/L	0.0007	0.08%
Tl 190.800	92.7	0.671	mg/L	0.0043	0.671	mg/L	0.0043	0.65%
V 292.402	264924.9	0.934	mg/L	0.0012	0.934	mg/L	0.0012	0.13%
Zn 206.200	324217.3	0.938	mg/L	0.0018	0.938	mg/L	0.0018	0.20%
K 766.490	704930.4	46.7	mg/L	0.53	46.7	mg/L	0.53	1.14%
Na 589.592	1899122.2	47.5	mg/L	0.60	47.5	mg/L	0.60	1.27%
Sr 407.771	1043286.1	0.955	mg/L	0.0150	0.955	mg/L	0.0150	1.57%

Recovery Check: LCSWGO WG99227-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.01	0.671	0.004	mg/L	66.6
K 766.490	50.0	46.7	0.534	mg/L	93.4
Na 589.592	50.1	47.5	0.600	mg/L	94.6
Sr 407.771	1.00	0.955	0.015	mg/L	95.3
Ag 328.068	0.200	0.190	0.000	mg/L	95.1
Al 237.312	10.0	9.60	0.024	mg/L	95.9

As 188.979	1.000	0.922	0.008	mg/L	92.2
Ba 230.424	10.0	8.93	0.014	mg/L	89.3
Be 234.861	1.000	0.962	0.001	mg/L	96.2
Ca 227.549	10.0	9.56	0.149	mg/L	95.1
Cd 228.802	1.00	0.914	0.001	mg/L	91.4
Co 228.616	1.00	0.940	0.002	mg/L	94.0
Cr 267.716	1.00	0.947	0.001	mg/L	94.6
Cu 327.396	1.00	0.929	0.001	mg/L	92.9
Fe 261.387	1.01	0.905	0.003	mg/L	89.4
Mg 279.079	10.0	9.24	0.022	mg/L	92.3
Mn 257.610	1.00	0.949	0.001	mg/L	94.9
Mo 202.030	0.995	0.901	0.002	mg/L	90.6
Ni 231.604	1.00	0.925	0.002	mg/L	92.4
Pb 220.353	1.00	0.935	0.010	mg/L	93.4
Sb 206.833	1.20	0.914	0.011	mg/L	76.0
Se 196.026	1.00	0.904	0.009	mg/L	90.4
Si 288.158	10.2	10.2	0.020	mg/L	100.2
Sn 189.933	0.997	0.942	0.007	mg/L	94.5
Ti 337.280	1.000	0.960	0.001	mg/L	96.1
V 292.402	1.000	0.934	0.001	mg/L	93.4
Zn 206.200	1.01	0.938	0.002	mg/L	93.2

Sequence No.: 4
Sample ID: 0621801
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 6/14/2001 6:54:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0621801

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3819328.0						16834.22	0.44%
Ag 328.068	460.6	0.00068	mg/L	0.000107	0.00068	mg/L	0.000107	15.58%
Al 237.312	10211.5	0.708	mg/L	0.0045	0.708	mg/L	0.0045	0.64%
As 188.979	19.6	0.00105	mg/L	0.000382	0.00105	mg/L	0.000382	36.31%
Ba 230.424	18819.4	0.0555	mg/L	0.00067	0.0555	mg/L	0.00067	1.21%
Be 234.861	382.2	0.00016	mg/L	0.000006	0.00016	mg/L	0.000006	3.90%
Ca 227.549	61269.7	50.8	mg/L	0.75	50.8	mg/L	0.75	1.47%
Cd 228.802	59.4	0.00008	mg/L	0.000010	0.00008	mg/L	0.000010	12.25%
Co 228.616	218.7	0.00120	mg/L	0.000014	0.00120	mg/L	0.000014	1.18%
Cr 267.716	820.4	0.00246	mg/L	0.000031	0.00246	mg/L	0.000031	1.26%
Cu 327.396	1940.9	0.00485	mg/L	0.000001	0.00485	mg/L	0.000001	0.01%
Fe 261.387	29427.7	1.30	mg/L	0.018	1.30	mg/L	0.018	1.39%
Mg 279.079	708229.8	12.1	mg/L	0.05	12.1	mg/L	0.05	0.42%
Mn 257.610	311964.7	0.159	mg/L	0.0021	0.159	mg/L	0.0021	1.31%
Mo 202.030	541.2	0.00476	mg/L	0.000102	0.00476	mg/L	0.000102	2.15%
Ni 231.604	827.9	0.00451	mg/L	0.000002	0.00451	mg/L	0.000002	0.03%
Pb 220.353	97.2	0.00338	mg/L	0.000021	0.00338	mg/L	0.000021	0.63%
Sb 206.833	19.5	-0.00014	mg/L	0.000048	-0.00014	mg/L	0.000048	34.43%
Se 196.026	45.7	0.00289	mg/L	0.000544	0.00289	mg/L	0.000544	18.79%
Si 288.158	384959.0	3.83	mg/L	0.019	3.83	mg/L	0.019	0.49%
Sn 189.933	-77.0	-0.00216	mg/L	0.001454	-0.00216	mg/L	0.001454	67.19%
Ti 337.280	58648.5	0.0370	mg/L	0.00044	0.0370	mg/L	0.00044	1.18%
Tl 190.800	7.4	0.0533	mg/L	0.00319	0.0533	mg/L	0.00319	5.97%
V 292.402	1081.4	0.00389	mg/L	0.000036	0.00389	mg/L	0.000036	0.91%
Zn 206.200	7549.9	0.0216	mg/L	0.00015	0.0216	mg/L	0.00015	0.71%
K 766.490	49268.1	3.23	mg/L	0.013	3.23	mg/L	0.013	0.42%
Na 589.592	1726578.5	43.1	mg/L	0.77	43.1	mg/L	0.77	1.79%
Sr 407.771	268992.8	0.248	mg/L	0.0047	0.248	mg/L	0.0047	1.90%

Sequence No.: 5
Sample ID: 0623702 WG99227-01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 6/14/2001 6:59:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623702 WG99227-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3810581.1						976.53	0.03%
Ag 328.068	156.3	0.00023	mg/L	0.000031	0.00023	mg/L	0.000031	13.27%
Al 237.312	1061.9	0.0731	mg/L	0.00071	0.0731	mg/L	0.00071	0.98%
As 188.979	4.2	0.00025	mg/L	0.000198	0.00025	mg/L	0.000198	78.65%
Ba 230.424	63133.5	0.185	mg/L	0.0017	0.185	mg/L	0.0017	0.94%
Be 234.861	451.5	0.00029	mg/L	0.000024	0.00029	mg/L	0.000024	8.37%
Ca 227.549	8907.4	7.39	mg/L	0.046	7.39	mg/L	0.046	0.63%
Cd 228.802	60.9	0.00014	mg/L	0.000009	0.00014	mg/L	0.000009	6.63%
Co 228.616	931.7	0.00517	mg/L	0.000095	0.00517	mg/L	0.000095	1.84%
Cr 267.716	843.1	0.00250	mg/L	0.000014	0.00250	mg/L	0.000014	0.54%
Cu 327.396	1846.5	0.00462	mg/L	0.000129	0.00462	mg/L	0.000129	2.80%
Fe 261.387	1665.9	0.0865	mg/L	0.00009	0.0865	mg/L	0.00009	0.10%
Mg 279.079	105767.7	1.80	mg/L	0.020	1.80	mg/L	0.020	1.09%
Mn 257.610	837463.8	0.427	mg/L	0.0004	0.427	mg/L	0.0004	0.08%
Mo 202.030	123.8	0.00109	mg/L	0.000010	0.00109	mg/L	0.000010	0.94%
Ni 231.604	236.0	0.00128	mg/L	0.000001	0.00128	mg/L	0.000001	0.05%
Pb 220.353	44.7	0.00152	mg/L	0.000084	0.00152	mg/L	0.000084	5.49%
Sb 206.833	13.9	0.00017	mg/L	0.000139	0.00017	mg/L	0.000139	79.80%
Se 196.026	10.7	0.00068	mg/L	0.000079	0.00068	mg/L	0.000079	11.57%
Si 288.158	606189.3	5.99	mg/L	0.012	5.99	mg/L	0.012	0.20%
Sn 189.933	-156.6	-0.00564	mg/L	0.000047	-0.00564	mg/L	0.000047	0.83%
Ti 337.280	9235.9	0.00768	mg/L	0.000050	0.00768	mg/L	0.000050	0.66%
Tl 190.800	2.4	0.0175	mg/L	0.00161	0.0175	mg/L	0.00161	9.18%
V 292.402	78.6	0.00028	mg/L	0.000043	0.00028	mg/L	0.000043	15.41%
Zn 206.200	8796.4	0.0254	mg/L	0.00033	0.0254	mg/L	0.00033	1.30%
K 766.490	45255.8	3.00	mg/L	0.004	3.00	mg/L	0.004	0.15%
Na 589.592	300414.3	7.51	mg/L	0.046	7.51	mg/L	0.046	0.62%
Sr 407.771	83204.8	0.0778	mg/L	0.00022	0.0778	mg/L	0.00022	0.29%

Sequence No.: 6
Sample ID: 0623702SDL.2
Analyst:
Sample Wt:
Dilution: 5X

Autosampler Location: 14
Date Collected: 6/14/2001 7:04:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0623702SDL.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3747724.7						67951.57	1.81%
Ag 328.068	10.7	0.00002	mg/L	0.000009	0.00008	mg/L	0.000046	57.60%
Al 237.312	263.4	0.0182	mg/L	0.00038	0.0910	mg/L	0.00188	2.06%
As 188.979	-6.7	-0.00039	mg/L	0.000011	-0.00195	mg/L	0.000054	2.77%
Ba 230.424	12660.3	0.0372	mg/L	0.00038	0.186	mg/L	0.0019	1.01%
Be 234.861	82.1	0.00005	mg/L	0.000002	0.00026	mg/L	0.000009	3.63%
Ca 227.549	1714.6	1.42	mg/L	0.003	7.11	mg/L	0.015	0.21%
Cd 228.802	12.3	0.00003	mg/L	0.000009	0.00015	mg/L	0.000043	29.00%
Co 228.616	190.1	0.00106	mg/L	0.000012	0.00528	mg/L	0.000059	1.11%
Cr 267.716	192.0	0.00057	mg/L	0.000032	0.00285	mg/L	0.000159	5.56%
Cu 327.396	455.0	0.00114	mg/L	0.000027	0.00570	mg/L	0.000133	2.34%
Fe 261.387	563.6	0.0275	mg/L	0.00015	0.137	mg/L	0.0008	0.55%
Mg 279.079	21041.7	0.359	mg/L	0.0008	1.79	mg/L	0.004	0.23%
Mn 257.610	169949.7	0.0867	mg/L	0.00138	0.433	mg/L	0.0069	1.59%
Mo 202.030	41.4	0.00036	mg/L	0.000104	0.00182	mg/L	0.000521	28.60%
Ni 231.604	61.7	0.00033	mg/L	0.000036	0.00167	mg/L	0.000179	10.67%
Pb 220.353	10.9	0.00037	mg/L	0.000312	0.00186	mg/L	0.001560	83.96%
Sb 206.833	0.6	-0.00004	mg/L	0.000264	-0.00020	mg/L	0.001319	650.27%
Se 196.026	16.0	0.00103	mg/L	0.000473	0.00516	mg/L	0.002365	45.84%
Si 288.158	116846.7	1.15	mg/L	0.008	5.77	mg/L	0.041	0.71%
Sn 189.933	-80.7	-0.00294	mg/L	0.000191	-0.0147	mg/L	0.00095	6.49%
Ti 337.280	1847.3	0.00154	mg/L	0.000043	0.00770	mg/L	0.000214	2.78%
Tl 190.800	1.6	0.0117	mg/L	0.00450	0.0584	mg/L	0.02248	38.48%
V 292.402	20.2	0.00007	mg/L	0.000008	0.00036	mg/L	0.000039	10.67%
Zn 206.200	3619.6	0.0105	mg/L	0.00006	0.0523	mg/L	0.00032	0.61%
K 766.490	8683.9	0.575	mg/L	0.0138	2.87	mg/L	0.069	2.41%
Na 589.592	59895.9	1.50	mg/L	0.000	7.48	mg/L	0.000	0.00%
Sr 407.771	16574.5	0.0169	mg/L	0.00004	0.0847	mg/L	0.00018	0.21%

Duplicate Check: 0623702SDL.2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0175	0.0584	0.022	mg/L	107.7
K 766.490	3.00	2.87	0.069	mg/L	4.1
Na 589.592	7.51	7.48	0.000	mg/L	0.3
Sr 407.771	0.0778	0.0847	0.000	mg/L	8.5
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00023	0.00008	0.000	mg/L	97.9
Al 237.312	0.0731	0.0910	0.002	mg/L	21.9
As 188.979	0.00025	-0.00195	0.000	mg/L	-259.3
Ba 230.424	0.185	0.186	0.002	mg/L	0.3
Be 234.861	0.00029	0.00026	0.000	mg/L	10.9
Ca 227.549	7.39	7.11	0.015	mg/L	3.8
Cd 228.802	0.00014	0.00015	0.000	mg/L	4.4
Co 228.616	0.00517	0.00528	0.000	mg/L	2.1
Cr 267.716	0.00250	0.00285	0.000	mg/L	13.1
Cu 327.396	0.00462	0.00570	0.000	mg/L	20.8
Fe 261.387	0.0865	0.137	0.001	mg/L	45.4
Mg 279.079	1.80	1.79	0.004	mg/L	0.5
Mn 257.610	0.427	0.433	0.007	mg/L	1.5
Mo 202.030	0.00109	0.00182	0.001	mg/L	50.3
Ni 231.604	0.00128	0.00167	0.000	mg/L	26.7
Pb 220.353	0.00152	0.00186	0.002	mg/L	19.9
Sb 206.833	0.00017	-0.00020	0.001	mg/L	-2652.2
Se 196.026	0.00068	0.00516	0.002	mg/L	153.2
Si 288.158	5.99	5.77	0.041	mg/L	3.7
Sn 189.933	-0.00564	-0.0147	0.001	mg/L	-89.0
Ti 337.280	0.00768	0.00770	0.000	mg/L	0.3
V 292.402	0.00028	0.00036	0.000	mg/L	26.1
Zn 206.200	0.0254	0.0523	0.000	mg/L	69.2

Sequence No.: 7
Sample ID: 0623702PS.9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/14/2001 7:08:56 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623702PS.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3890442.0						61425.45	1.58%
Ag 328.068	130609.2	0.194	mg/L	0.0024	0.194	mg/L	0.0024	1.23%
Al 237.312	142871.9	9.83	mg/L	0.122	9.83	mg/L	0.122	1.24%
As 188.979	15747.1	0.926	mg/L	0.0139	0.926	mg/L	0.0139	1.50%
Ba 230.424	3112477.6	9.13	mg/L	0.067	9.13	mg/L	0.067	0.74%
Be 234.861	1521864.2	0.984	mg/L	0.0094	0.984	mg/L	0.0094	0.95%
Ca 227.549	19027.6	15.7	mg/L	0.24	15.7	mg/L	0.24	1.50%
Cd 228.802	372541.7	0.928	mg/L	0.0082	0.928	mg/L	0.0082	0.89%
Co 228.616	170874.0	0.947	mg/L	0.0083	0.947	mg/L	0.0083	0.87%
Cr 267.716	317921.2	0.952	mg/L	0.0071	0.952	mg/L	0.0071	0.75%
Cu 327.396	379669.6	0.951	mg/L	0.0113	0.951	mg/L	0.0113	1.19%
Fe 261.387	18786.7	0.964	mg/L	0.0160	0.964	mg/L	0.0160	1.66%
Mg 279.079	650749.5	11.1	mg/L	0.08	11.1	mg/L	0.08	0.76%
Mn 257.610	2617790.9	1.33	mg/L	0.012	1.33	mg/L	0.012	0.89%
Mo 202.030	102733.6	0.904	mg/L	0.0075	0.904	mg/L	0.0075	0.83%
Ni 231.604	171194.3	0.927	mg/L	0.0067	0.927	mg/L	0.0067	0.72%
Pb 220.353	27572.6	0.935	mg/L	0.0161	0.935	mg/L	0.0161	1.72%
Sb 206.833	27909.1	0.928	mg/L	0.0227	0.928	mg/L	0.0227	2.44%
Se 196.026	13681.0	0.880	mg/L	0.0141	0.880	mg/L	0.0141	1.61%
Si 288.158	1481428.3	14.6	mg/L	0.14	14.6	mg/L	0.14	0.98%
Sn 189.933	-410.8	-0.00986	mg/L	0.000770	-0.00986	mg/L	0.000770	7.80%
Ti 337.280	1654927.2	0.977	mg/L	0.0096	0.977	mg/L	0.0096	0.99%
Tl 190.800	120.4	0.872	mg/L	0.0263	0.872	mg/L	0.0263	3.01%
V 292.402	267729.2	0.944	mg/L	0.0083	0.944	mg/L	0.0083	0.88%
Zn 206.200	330729.0	0.956	mg/L	0.0047	0.956	mg/L	0.0047	0.49%
K 766.490	738185.7	48.9	mg/L	0.84	48.9	mg/L	0.84	1.71%
Na 589.592	2136088.3	53.4	mg/L	0.89	53.4	mg/L	0.89	1.66%

Sr 407.771	1101635.6	1.01 mg/L	0.018	1.01 mg/L	0.018	1.78%

Recovery Check: 0623702PS.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.872	0.026	mg/L	85.4
K 766.490	53.0	48.9	0.837	mg/L	91.8
Na 589.592	57.5	53.4	0.889	mg/L	91.7
Sr 407.771	1.08	1.01	0.018	mg/L	93.0
Ag 328.068	0.200	0.194	0.002	mg/L	96.8
Al 237.312	10.1	9.83	0.122	mg/L	97.6
As 188.979	1.00	0.926	0.014	mg/L	92.6
Ba 230.424	10.2	9.13	0.067	mg/L	89.5
Be 234.861	1.00	0.984	0.009	mg/L	98.3
Ca 227.549	17.4	15.7	0.237	mg/L	83.4
Cd 228.802	1.00	0.928	0.008	mg/L	92.8
Co 228.616	1.01	0.947	0.008	mg/L	94.2
Cr 267.716	1.00	0.952	0.007	mg/L	94.9
Cu 327.396	1.00	0.951	0.011	mg/L	94.6
Fe 261.387	1.09	0.964	0.016	mg/L	87.7
Mg 279.079	11.8	11.1	0.084	mg/L	92.9
Mn 257.610	1.43	1.33	0.012	mg/L	90.7
Mo 202.030	0.996	0.904	0.007	mg/L	90.8
Ni 231.604	1.00	0.927	0.007	mg/L	92.6
Pb 220.353	1.00	0.935	0.016	mg/L	93.3
Sb 206.833	1.20	0.928	0.023	mg/L	77.2
Se 196.026	1.00	0.880	0.014	mg/L	87.9
Si 288.158	16.0	14.6	0.144	mg/L	86.5
Sn 189.933	0.993	-0.00986	0.001	mg/L	-0.4
Ti 337.280	1.01	0.977	0.010	mg/L	97.0
V 292.402	1.00	0.944	0.008	mg/L	94.4
Zn 206.200	1.03	0.956	0.005	mg/L	93.1

Sequence No.: 8
Sample ID: 0623703S WG99227-05
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/14/2001 7:13:15 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623703S WG99227-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3851273.7						43808.85	1.14%
Ag 328.068	130575.4	0.194	mg/L	0.0032	0.194	mg/L	0.0032	1.63%
Al 237.312	145275.3	9.99	mg/L	0.141	9.99	mg/L	0.141	1.41%
As 188.979	15990.1	0.940	mg/L	0.0169	0.940	mg/L	0.0169	1.80%
Ba 230.424	3135979.3	9.20	mg/L	0.104	9.20	mg/L	0.104	1.13%
Be 234.861	1525703.2	0.986	mg/L	0.0146	0.986	mg/L	0.0146	1.48%
Ca 227.549	20359.2	16.8	mg/L	0.26	16.8	mg/L	0.26	1.54%
Cd 228.802	373944.6	0.932	mg/L	0.0144	0.932	mg/L	0.0144	1.55%
Co 228.616	171744.5	0.952	mg/L	0.0125	0.952	mg/L	0.0125	1.32%
Cr 267.716	318775.8	0.954	mg/L	0.0128	0.954	mg/L	0.0128	1.35%
Cu 327.396	380774.4	0.954	mg/L	0.0167	0.954	mg/L	0.0167	1.75%
Fe 261.387	19060.7	0.978	mg/L	0.0208	0.978	mg/L	0.0208	2.13%
Mg 279.079	668842.9	11.4	mg/L	0.14	11.4	mg/L	0.14	1.25%
Mn 257.610	2719341.4	1.39	mg/L	0.019	1.39	mg/L	0.019	1.36%
Mo 202.030	102805.3	0.905	mg/L	0.0096	0.905	mg/L	0.0096	1.06%
Ni 231.604	172265.5	0.933	mg/L	0.0107	0.933	mg/L	0.0107	1.15%
Pb 220.353	27945.3	0.947	mg/L	0.0141	0.947	mg/L	0.0141	1.49%
Sb 206.833	28072.1	0.934	mg/L	0.0175	0.934	mg/L	0.0175	1.88%
Se 196.026	13911.0	0.895	mg/L	0.0229	0.895	mg/L	0.0229	2.55%
Si 288.158	1606479.9	15.9	mg/L	0.24	15.9	mg/L	0.24	1.53%
Sn 189.933	26478.1	0.976	mg/L	0.0150	0.976	mg/L	0.0150	1.53%
Ti 337.280	1669630.7	0.986	mg/L	0.0150	0.986	mg/L	0.0150	1.53%
Tl 190.800	103.1	0.747	mg/L	0.0209	0.747	mg/L	0.0209	2.80%
V 292.402	268836.4	0.948	mg/L	0.0139	0.948	mg/L	0.0139	1.47%
Zn 206.200	334086.7	0.966	mg/L	0.0093	0.966	mg/L	0.0093	0.96%
K 766.490	765049.2	50.7	mg/L	0.85	50.7	mg/L	0.85	1.67%

Na 589.592	2229863.4	55.7	mg/L	0.96	55.7	mg/L	0.96	1.72%
Sr 407.771	1141142.5	1.04	mg/L	0.017	1.04	mg/L	0.017	1.65%

Recovery Check: 0623703S WG99227-05

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.747	0.021	mg/L	72.9
K 766.490	53.0	50.7	0.846	mg/L	95.4
Na 589.592	57.5	55.7	0.957	mg/L	96.4
Sr 407.771	1.08	1.04	0.017	mg/L	96.6
Ag 328.068	0.200	0.194	0.003	mg/L	96.8
Al 237.312	10.1	9.99	0.141	mg/L	99.2
As 188.979	1.00	0.940	0.017	mg/L	94.0
Ba 230.424	10.2	9.20	0.104	mg/L	90.2
Be 234.861	1.00	0.986	0.015	mg/L	98.6
Ca 227.549	17.4	16.8	0.259	mg/L	94.5
Cd 228.802	1.00	0.932	0.014	mg/L	93.1
Co 228.616	1.01	0.952	0.013	mg/L	94.7
Cr 267.716	1.00	0.954	0.013	mg/L	95.2
Cu 327.396	1.00	0.954	0.017	mg/L	94.9
Fe 261.387	1.09	0.978	0.021	mg/L	89.1
Mg 279.079	11.8	11.4	0.143	mg/L	95.9
Mn 257.610	1.43	1.39	0.019	mg/L	95.9
Mo 202.030	0.996	0.905	0.010	mg/L	90.8
Ni 231.604	1.00	0.933	0.011	mg/L	93.2
Pb 220.353	1.00	0.947	0.014	mg/L	94.6
Sb 206.833	1.20	0.934	0.018	mg/L	77.6
Se 196.026	1.00	0.895	0.023	mg/L	89.4
Si 288.158	16.0	15.9	0.242	mg/L	98.9
Sn 189.933	0.993	0.976	0.015	mg/L	98.3
Ti 337.280	1.01	0.986	0.015	mg/L	97.9
V 292.402	1.00	0.948	0.014	mg/L	94.8
Zn 206.200	1.03	0.966	0.009	mg/L	94.1

Sequence No.: 9
Sample ID: 0623704SD WG99227-06
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/14/2001 7:17:35 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0623704SD WG99227-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4989985.4						36263.01	0.73%
Ag 328.068	132281.1	0.196	mg/L	0.0004	0.196	mg/L	0.0004	0.21%
Al 237.312	145581.0	10.0	mg/L	0.01	10.0	mg/L	0.01	0.14%
As 188.979	16170.8	0.951	mg/L	0.0106	0.951	mg/L	0.0106	1.11%
Ba 230.424	3151124.6	9.25	mg/L	0.011	9.25	mg/L	0.011	0.12%
Be 234.861	1535049.2	0.992	mg/L	0.0010	0.992	mg/L	0.0010	0.10%
Ca 227.549	20394.9	16.9	mg/L	0.29	16.9	mg/L	0.29	1.73%
Cd 228.802	378364.5	0.943	mg/L	0.0011	0.943	mg/L	0.0011	0.12%
Co 228.616	173016.8	0.959	mg/L	0.0008	0.959	mg/L	0.0008	0.09%
Cr 267.716	321585.7	0.963	mg/L	0.0014	0.963	mg/L	0.0014	0.14%
Cu 327.396	386358.9	0.968	mg/L	0.0008	0.968	mg/L	0.0008	0.08%
Fe 261.387	19591.8	1.00	mg/L	0.013	1.00	mg/L	0.013	1.34%
Mg 279.079	672991.4	11.5	mg/L	0.02	11.5	mg/L	0.02	0.16%
Mn 257.610	2727430.3	1.39	mg/L	0.002	1.39	mg/L	0.002	0.11%
Mo 202.030	102733.5	0.904	mg/L	0.0012	0.904	mg/L	0.0012	0.14%
Ni 231.604	174075.1	0.943	mg/L	0.0023	0.943	mg/L	0.0023	0.24%
Pb 220.353	28220.2	0.957	mg/L	0.0075	0.957	mg/L	0.0075	0.78%
Sb 206.833	28116.9	0.935	mg/L	0.0149	0.935	mg/L	0.0149	1.59%
Se 196.026	13896.0	0.894	mg/L	0.0117	0.894	mg/L	0.0117	1.31%
Si 288.158	1573329.9	15.5	mg/L	0.02	15.5	mg/L	0.02	0.12%
Sn 189.933	26295.1	0.969	mg/L	0.0062	0.969	mg/L	0.0062	0.64%
Ti 337.280	1675335.0	0.990	mg/L	0.0005	0.990	mg/L	0.0005	0.05%
Tl 190.800	120.7	0.874	mg/L	0.0277	0.874	mg/L	0.0277	3.17%
V 292.402	270422.3	0.953	mg/L	0.0020	0.953	mg/L	0.0020	0.21%
Zn 206.200	336836.9	0.974	mg/L	0.0029	0.974	mg/L	0.0029	0.29%

K 766.490	769203.5	51.0 mg/L	0.48	51.0 mg/L	0.48	0.94%
Na 589.592	2237991.0	55.9 mg/L	0.66	55.9 mg/L	0.66	1.18%
Sr 407.771	1143184.4	1.05 mg/L	0.009	1.05 mg/L	0.009	0.84%

Duplicate Check: 0623704SD WG99227-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.747	0.874	0.028	mg/L	15.7
K 766.490	50.7	51.0	0.480	mg/L	0.5
Na 589.592	55.7	55.9	0.659	mg/L	0.4
Sr 407.771	1.04	1.05	0.009	mg/L	0.2
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.194	0.196	0.000	mg/L	1.3
Al 237.312	9.99	10.0	0.014	mg/L	0.2
As 188.979	0.940	0.951	0.011	mg/L	1.1
Ba 230.424	9.20	9.25	0.011	mg/L	0.5
Be 234.861	0.986	0.992	0.001	mg/L	0.6
Ca 227.549	16.8	16.9	0.292	mg/L	0.2
Cd 228.802	0.932	0.943	0.001	mg/L	1.2
Co 228.616	0.952	0.959	0.001	mg/L	0.7
Cr 267.716	0.954	0.963	0.001	mg/L	0.9
Cu 327.396	0.954	0.968	0.001	mg/L	1.5
Fe 261.387	0.978	1.00	0.013	mg/L	2.4
Mg 279.079	11.4	11.5	0.018	mg/L	0.6
Mn 257.610	1.39	1.39	0.002	mg/L	0.3
Mo 202.030	0.905	0.904	0.001	mg/L	0.1
Ni 231.604	0.933	0.943	0.002	mg/L	1.0
Pb 220.353	0.947	0.957	0.007	mg/L	1.0
Sb 206.833	0.934	0.935	0.015	mg/L	0.1
Se 196.026	0.895	0.894	0.012	mg/L	0.1
Si 288.158	15.9	15.5	0.019	mg/L	2.1
Sn 189.933	0.976	0.969	0.006	mg/L	0.7
Ti 337.280	0.986	0.990	0.001	mg/L	0.3
V 292.402	0.948	0.953	0.002	mg/L	0.6
Zn 206.200	0.966	0.974	0.003	mg/L	0.8

Sequence No.: 10
Sample ID: 0623901 WG99227-02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 6/14/2001 7:21:49 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0623901 WG99227-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3819769.8						19118.32	0.50%
Ag 328.068	843.8	0.00125	mg/L	0.000112	0.00125	mg/L	0.000112	8.97%
Al 237.312	9183.5	0.633	mg/L	0.0007	0.633	mg/L	0.0007	0.10%
As 188.979	9.8	0.00052	mg/L	0.000221	0.00052	mg/L	0.000221	42.10%
Ba 230.424	13386.5	0.0397	mg/L	0.00007	0.0397	mg/L	0.00007	0.18%
Be 234.861	318.4	0.00013	mg/L	0.000020	0.00013	mg/L	0.000020	14.86%
Ca 227.549	128129.6	106	mg/L	0.5	106	mg/L	0.5	0.43%
Cd 228.802	113.2	0.00018	mg/L	0.000004	0.00018	mg/L	0.000004	2.08%
Co 228.616	277.8	0.00162	mg/L	0.000013	0.00162	mg/L	0.000013	0.81%
Cr 267.716	870.4	0.00255	mg/L	0.000056	0.00255	mg/L	0.000056	2.21%
Cu 327.396	1503.9	0.00376	mg/L	0.000149	0.00376	mg/L	0.000149	3.96%
Fe 261.387	25472.8	1.13	mg/L	0.010	1.13	mg/L	0.010	0.92%
Mg 279.079	1193279.1	20.3	mg/L	0.05	20.3	mg/L	0.05	0.27%
Mn 257.610	992959.9	0.506	mg/L	0.0011	0.506	mg/L	0.0011	0.23%
Mo 202.030	1394.9	0.0123	mg/L	0.00002	0.0123	mg/L	0.00002	0.17%
Ni 231.604	592.8	0.00323	mg/L	0.000111	0.00323	mg/L	0.000111	3.43%
Pb 220.353	169.2	0.00580	mg/L	0.000019	0.00580	mg/L	0.000019	0.33%
Sb 206.833	32.3	-0.00014	mg/L	0.000306	-0.00014	mg/L	0.000306	218.53%
Se 196.026	74.3	0.00474	mg/L	0.001119	0.00474	mg/L	0.001119	23.60%
Si 288.158	430138.6	4.30	mg/L	0.006	4.30	mg/L	0.006	0.13%
Sn 189.933	-174.0	-0.00530	mg/L	0.000591	-0.00530	mg/L	0.000591	11.16%
Ti 337.280	18188.5	0.0169	mg/L	0.00009	0.0169	mg/L	0.00009	0.51%
Tl 190.800	10.2	0.0737	mg/L	0.00183	0.0737	mg/L	0.00183	2.49%

V 292.402	516.6	0.00189 mg/L	0.000024	0.00189 mg/L	0.000024	1.25%
Zn 206.200	13830.0	0.0397 mg/L	0.00033	0.0397 mg/L	0.00033	0.82%
K 766.490	711522.9	47.1 mg/L	0.84	47.1 mg/L	0.84	1.78%
Na 589.592	1634384.8	40.8 mg/L	0.78	40.8 mg/L	0.78	1.91%
Sr 407.771	485838.9	0.446 mg/L	0.0077	0.446 mg/L	0.0077	1.72%

Sequence No.: 11 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 6/14/2001 7:26:40 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4047029.1						1586.03	0.04%
Ag 328.068	253847.2	0.377	mg/L	0.0002	0.377	mg/L	0.0002	0.05%
QC value within limits for Ag 328.068 Recovery = 94.22%								
Al 237.312	143093.3	9.87	mg/L	0.000	9.87	mg/L	0.000	0.00%
QC value within limits for Al 237.312 Recovery = 98.67%								
As 188.979	6483.3	0.378	mg/L	0.0016	0.378	mg/L	0.0016	0.43%
QC value within limits for As 188.979 Recovery = 94.54%								
Ba 230.424	348222.4	1.02	mg/L	0.002	1.02	mg/L	0.002	0.16%
QC value within limits for Ba 230.424 Recovery = 101.95%								
Be 234.861	80175.4	0.0516	mg/L	0.00005	0.0516	mg/L	0.00005	0.10%
QC value within limits for Be 234.861 Recovery = 103.28%								
Ca 227.549	12103.0	9.93	mg/L	0.038	9.93	mg/L	0.038	0.39%
QC value within limits for Ca 227.549 Recovery = 99.28%								
Cd 228.802	19693.4	0.0477	mg/L	0.00025	0.0477	mg/L	0.00025	0.53%
QC value within limits for Cd 228.802 Recovery = 95.40%								
Co 228.616	37184.8	0.205	mg/L	0.0007	0.205	mg/L	0.0007	0.32%
QC value within limits for Co 228.616 Recovery = 102.63%								
Cr 267.716	168783.3	0.509	mg/L	0.0001	0.509	mg/L	0.0001	0.02%
QC value within limits for Cr 267.716 Recovery = 101.75%								
Cu 327.396	200423.7	0.502	mg/L	0.0009	0.502	mg/L	0.0009	0.18%
QC value within limits for Cu 327.396 Recovery = 100.35%								
Fe 261.387	88920.8	3.95	mg/L	0.016	3.95	mg/L	0.016	0.41%
QC value within limits for Fe 261.387 Recovery = 98.65%								
Mg 279.079	575553.2	9.81	mg/L	0.012	9.81	mg/L	0.012	0.12%
QC value within limits for Mg 279.079 Recovery = 98.06%								
Mn 257.610	986320.0	0.502	mg/L	0.0004	0.502	mg/L	0.0004	0.08%
QC value within limits for Mn 257.610 Recovery = 100.46%								
Mo 202.030	112457.6	0.990	mg/L	0.0042	0.990	mg/L	0.0042	0.42%
QC value within limits for Mo 202.030 Recovery = 99.49%								
Ni 231.604	92894.9	0.503	mg/L	0.0002	0.503	mg/L	0.0002	0.04%
QC value within limits for Ni 231.604 Recovery = 100.69%								
Pb 220.353	14445.1	0.492	mg/L	0.0026	0.492	mg/L	0.0026	0.53%
QC value within limits for Pb 220.353 Recovery = 98.35%								
Sb 206.833	34485.0	1.16	mg/L	0.005	1.16	mg/L	0.005	0.47%
QC value within limits for Sb 206.833 Recovery = 96.54%								
Se 196.026	5977.5	0.384	mg/L	0.0022	0.384	mg/L	0.0022	0.58%
QC value within limits for Se 196.026 Recovery = 95.92%								
Si 288.158	503270.7	4.98	mg/L	0.003	4.98	mg/L	0.003	0.06%
QC value within limits for Si 288.158 Recovery = 99.57%								
Sn 189.933	25364.7	0.935	mg/L	0.0006	0.935	mg/L	0.0006	0.06%
QC value within limits for Sn 189.933 Recovery = 93.65%								
Ti 337.280	1679041.8	0.988	mg/L	0.0000	0.988	mg/L	0.0000	0.00%
QC value within limits for Ti 337.280 Recovery = 98.80%								
Tl 190.800	64.1	0.464	mg/L	0.0141	0.464	mg/L	0.0141	3.05%
QC value within limits for Tl 190.800 Recovery = 92.80%								
V 292.402	285532.9	1.01	mg/L	0.000	1.01	mg/L	0.000	0.03%
QC value within limits for V 292.402 Recovery = 100.70%								
Zn 206.200	341315.2	0.986	mg/L	0.0003	0.986	mg/L	0.0003	0.03%
QC value within limits for Zn 206.200 Recovery = 98.62%								
K 766.490	724004.9	48.0	mg/L	0.19	48.0	mg/L	0.19	0.40%
QC value within limits for K 766.490 Recovery = 95.96%								
Na 589.592	1944089.1	48.6	mg/L	0.27	48.6	mg/L	0.27	0.55%
QC value within limits for Na 589.592 Recovery = 97.15%								
Sr 407.771	1066907.9	0.976	mg/L	0.0045	0.976	mg/L	0.0045	0.46%

QC value within limits for Sr 407.771 Recovery = 97.63%
All analytes passed QC.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 7:31:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3759081.1						27559.19	0.73%
Ag 328.068	49.7	0.00007	mg/L	0.000069	0.00007	mg/L	0.000069	93.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	47.3	0.00329	mg/L	0.000686	0.00329	mg/L	0.000686	20.85%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-0.1	-0.00001	mg/L	0.000268	-0.00001	mg/L	0.000268	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	38.7	0.00011	mg/L	0.000021	0.00011	mg/L	0.000021	19.00%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	2.3	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	189.85%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-0.7	-0.00071	mg/L	0.002636	-0.00071	mg/L	0.002636	373.44%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	6.5	0.00002	mg/L	0.000013	0.00002	mg/L	0.000013	80.35%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	3.7	0.00002	mg/L	0.000021	0.00002	mg/L	0.000021	95.77%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	33.2	0.00010	mg/L	0.000041	0.00010	mg/L	0.000041	41.86%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-45.1	-0.00011	mg/L	0.000031	-0.00011	mg/L	0.000031	27.49%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	106.1	0.00466	mg/L	0.000139	0.00466	mg/L	0.000139	2.98%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	73.3	0.00125	mg/L	0.000243	0.00125	mg/L	0.000243	19.41%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	15.1	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	17.15%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	140.3	0.00124	mg/L	0.000001	0.00124	mg/L	0.000001	0.08%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	5.9	0.00003	mg/L	0.000019	0.00003	mg/L	0.000019	59.60%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	2.2	0.00008	mg/L	0.000245	0.00008	mg/L	0.000245	319.62%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-4.7	-0.00016	mg/L	0.000188	-0.00016	mg/L	0.000188	120.86%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	19.6	0.00126	mg/L	0.000195	0.00126	mg/L	0.000195	15.40%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	213.2	0.00211	mg/L	0.000157	0.00211	mg/L	0.000157	7.45%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	112.0	0.00411	mg/L	0.000209	0.00411	mg/L	0.000209	5.08%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	30.5	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	153.90%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	0.1	0.00104	mg/L	0.010710	0.00104	mg/L	0.010710	>999.9%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	7.8	0.00003	mg/L	0.000021	0.00003	mg/L	0.000021	76.23%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-432.1	-0.00125	mg/L	0.000021	-0.00125	mg/L	0.000021	1.66%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	1075.2	0.0713	mg/L	0.00058	0.0713	mg/L	0.00058	0.81%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	2003.8	0.0501	mg/L	0.00464	0.0501	mg/L	0.00464	9.27%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-52.6	0.00175	mg/L	0.000066	0.00175	mg/L	0.000066	3.75%
QC value within limits for Sr 407.771 Recovery = Not calculated								

All analytes passed QC.

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Sequence No.: 13
Sample ID: 0623901DP WG99227-07
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/14/2001 7:36:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623901DP WG99227-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4570391.1						71618.52	1.57%
Ag 328.068	890.8	0.00132	mg/L	0.000069	0.00132	mg/L	0.000069	5.21%
Al 237.312	7807.6	0.538	mg/L	0.0001	0.538	mg/L	0.0001	0.01%
As 188.979	4.0	0.00018	mg/L	0.000266	0.00018	mg/L	0.000266	144.02%
Ba 230.424	13542.4	0.0402	mg/L	0.00082	0.0402	mg/L	0.00082	2.03%
Be 234.861	281.5	0.00011	mg/L	0.000018	0.00011	mg/L	0.000018	16.52%
Ca 227.549	132542.9	110	mg/L	2.3	110	mg/L	2.3	2.13%
Cd 228.802	66.9	0.00006	mg/L	0.000021	0.00006	mg/L	0.000021	35.15%
Co 228.616	277.7	0.00162	mg/L	0.000014	0.00162	mg/L	0.000014	0.89%
Cr 267.716	790.8	0.00230	mg/L	0.000025	0.00230	mg/L	0.000025	1.09%
Cu 327.396	1548.4	0.00388	mg/L	0.000002	0.00388	mg/L	0.000002	0.04%
Fe 261.387	25060.0	1.12	mg/L	0.022	1.12	mg/L	0.022	1.97%
Mg 279.079	1231808.9	21.0	mg/L	0.37	21.0	mg/L	0.37	1.74%
Mn 257.610	1026029.3	0.523	mg/L	0.0086	0.523	mg/L	0.0086	1.64%
Mo 202.030	1330.0	0.0117	mg/L	0.00004	0.0117	mg/L	0.00004	0.35%
Ni 231.604	595.0	0.00324	mg/L	0.000021	0.00324	mg/L	0.000021	0.66%
Pb 220.353	174.5	0.00597	mg/L	0.000109	0.00597	mg/L	0.000109	1.82%
Sb 206.833	35.7	-0.00004	mg/L	0.000344	-0.00004	mg/L	0.000344	815.43%
Se 196.026	58.5	0.00373	mg/L	0.001010	0.00373	mg/L	0.001010	27.09%
Si 288.158	426135.6	4.26	mg/L	0.087	4.26	mg/L	0.087	2.04%
Sn 189.933	-279.7	-0.00914	mg/L	0.000367	-0.00914	mg/L	0.000367	4.02%
Ti 337.280	15981.2	0.0158	mg/L	0.00036	0.0158	mg/L	0.00036	2.28%
Tl 190.800	3.3	0.0242	mg/L	0.00870	0.0242	mg/L	0.00870	35.89%
V 292.402	455.6	0.00168	mg/L	0.000029	0.00168	mg/L	0.000029	1.71%
Zn 206.200	8047.6	0.0229	mg/L	0.00015	0.0229	mg/L	0.00015	0.64%
K 766.490	733947.5	48.6	mg/L	0.29	48.6	mg/L	0.29	0.59%
Na 589.592	1690155.1	42.2	mg/L	0.33	42.2	mg/L	0.33	0.78%
Sr 407.771	504084.4	0.462	mg/L	0.0017	0.462	mg/L	0.0017	0.36%

Duplicate Check: 0623901DP WG99227-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0737	0.0242	0.009	mg/L	101.0
K 766.490	47.1	48.6	0.288	mg/L	3.1
Na 589.592	40.8	42.2	0.331	mg/L	3.4
Sr 407.771	0.446	0.462	0.002	mg/L	3.7
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00125	0.00132	0.000	mg/L	5.4
Al 237.312	0.633	0.538	0.000	mg/L	16.2
As 188.979	0.00052	0.00018	0.000	mg/L	95.9
Ba 230.424	0.0397	0.0402	0.001	mg/L	1.2
Be 234.861	0.00013	0.00011	0.000	mg/L	18.5
Ca 227.549	106	110	2.344	mg/L	3.4
Cd 228.802	0.00018	0.00006	0.000	mg/L	100.1
Co 228.616	0.00162	0.00162	0.000	mg/L	0.2
Cr 267.716	0.00255	0.00230	0.000	mg/L	10.0
Cu 327.396	0.00376	0.00388	0.000	mg/L	2.9
Fe 261.387	1.13	1.12	0.022	mg/L	1.6
Mg 279.079	20.3	21.0	0.366	mg/L	3.2
Mn 257.610	0.506	0.523	0.009	mg/L	3.3
Mo 202.030	0.0123	0.0117	0.000	mg/L	4.8
Ni 231.604	0.00323	0.00324	0.000	mg/L	0.4
Pb 220.353	0.00580	0.00597	0.000	mg/L	2.8
Sb 206.833	-0.00014	-0.00004	0.000	mg/L	-107.5
Se 196.026	0.00474	0.00373	0.001	mg/L	23.9
Si 288.158	4.30	4.26	0.087	mg/L	0.9
Sn 189.933	-0.00530	-0.00914	0.000	mg/L	-53.1
Ti 337.280	0.0169	0.0158	0.000	mg/L	6.7
V 292.402	0.00189	0.00168	0.000	mg/L	12.0

Zn 206.200	0.0397	0.0229	0.000	mg/L	53.4

Sequence No.: 14
Sample ID: 0624001DL.2
Analyst:
Sample Wt:
Dilution: 5X

Autosampler Location: 20
Date Collected: 6/14/2001 7:41:16 PM

Sample Prep Volume:
Data Type: Original

CRC 06-14-01 Rerun at 1/10

Mean Data: 0624001DL.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1864000.2						22083.06	1.18%
Ag 328.068	1852.6	0.00275	mg/L	0.000090	0.0138	mg/L	0.00045	3.28%
Al 237.312	-426.3	-0.134	mg/L	0.0036	-0.671	mg/L	0.0181	2.69%
As 188.979	92.4	0.00542	mg/L	0.000910	0.0271	mg/L	0.00455	16.80%
Ba 230.424	779604.4	2.30	mg/L	0.023	11.5	mg/L	0.12	1.01%
Be 234.861	663.1	0.00043	mg/L	0.000007	0.00216	mg/L	0.000036	1.67%
Ca 227.549	2232690.4	1850	mg/L	30.4	9270	mg/L	151.9	1.64%
Cd 228.802	403.4	-0.00064	mg/L	0.000021	-0.00321	mg/L	0.000103	3.21%
Co 228.616	-249.2	-0.00036	mg/L	0.000017	-0.00178	mg/L	0.000084	4.74%
Cr 267.716	-47.0	-0.00113	mg/L	0.000014	-0.00564	mg/L	0.000072	1.28%
Cu 327.396	299.2	0.00075	mg/L	0.000115	0.00375	mg/L	0.000573	15.29%
Fe 261.387	-1372.2	-0.0599	mg/L	0.00038	-0.299	mg/L	0.0019	0.63%
Mg 279.079	11409518.5	194	mg/L	1.5	972	mg/L	7.7	0.79%
Mn 257.610	35321.9	0.0134	mg/L	0.00017	0.0669	mg/L	0.00087	1.31%
Mo 202.030	89.5	0.00079	mg/L	0.000148	0.00394	mg/L	0.000739	18.76%
Ni 231.604	-148.1	-0.00080	mg/L	0.000025	-0.00402	mg/L	0.000123	3.07%
Pb 220.353	440.9	0.0149	mg/L	0.00002	0.0744	mg/L	0.00008	0.11%
Sb 206.833	108.9	-0.00936	mg/L	0.000751	-0.0468	mg/L	0.00375	8.02%
Se 196.026	75.7	0.00488	mg/L	0.000748	0.0244	mg/L	0.00374	15.33%
Si 288.158	4051.7	0.967	mg/L	0.0154	4.83	mg/L	0.077	1.59%
Sn 189.933	-185.6	0.0117	mg/L	0.00191	0.0586	mg/L	0.00957	16.32%
Ti 337.280	-2672.4	0.0680	mg/L	0.00109	0.340	mg/L	0.0055	1.61%
Tl 190.800	2.8	0.0202	mg/L	0.00796	0.101	mg/L	0.0398	39.42%
V 292.402	-509.9	-0.00180	mg/L	0.000068	-0.00901	mg/L	0.000340	3.77%
Zn 206.200	3191.5	0.00728	mg/L	0.000110	0.0364	mg/L	0.00055	1.50%
K 766.490	1412378.8	93.1	mg/L	6.34	465	mg/L	31.7	6.82%
Na 589.592	Saturated3							
Saturated in preshot (code 3)								
Sr 407.771	Saturated2							
Saturated in preshot (code 2)								

Sequence No.: 15
Sample ID: 0624420
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 6/14/2001 7:46:09 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624420

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3909581.5						6931.02	0.18%
Ag 328.068	128.7	0.00019	mg/L	0.000186	0.00019	mg/L	0.000186	97.33%
Al 237.312	549.3	0.0384	mg/L	0.00010	0.0384	mg/L	0.00010	0.26%
As 188.979	4.6	0.00027	mg/L	0.000012	0.00027	mg/L	0.000012	4.51%
Ba 230.424	403.3	0.00118	mg/L	0.000119	0.00118	mg/L	0.000119	10.05%
Be 234.861	118.5	0.00007	mg/L	0.000016	0.00007	mg/L	0.000016	22.37%
Ca 227.549	449.0	0.371	mg/L	0.0257	0.371	mg/L	0.0257	6.94%
Cd 228.802	54.9	0.00014	mg/L	0.000004	0.00014	mg/L	0.000004	2.90%
Co 228.616	38.9	0.00022	mg/L	0.000026	0.00022	mg/L	0.000026	11.72%
Cr 267.716	268.5	0.00080	mg/L	0.000019	0.00080	mg/L	0.000019	2.41%
Cu 327.396	784.1	0.00196	mg/L	0.000078	0.00196	mg/L	0.000078	3.97%
Fe 261.387	2080.2	0.0915	mg/L	0.00002	0.0915	mg/L	0.00002	0.02%
Mg 279.079	5694.4	0.0971	mg/L	0.00819	0.0971	mg/L	0.00819	8.44%
Mn 257.610	3570.7	0.00182	mg/L	0.000002	0.00182	mg/L	0.000002	0.11%
Mo 202.030	109.3	0.00096	mg/L	0.000035	0.00096	mg/L	0.000035	3.67%
Ni 231.604	218.3	0.00118	mg/L	0.000020	0.00118	mg/L	0.000020	1.65%

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Pb 220.353	72.9	0.00247 mg/L	0.000086	0.00247 mg/L	0.000086	3.51%
Sb 206.833	14.9	0.00048 mg/L	0.000324	0.00048 mg/L	0.000324	68.01%
Se 196.026	7.8	0.00050 mg/L	0.000557	0.00050 mg/L	0.000557	111.39%
Si 288.158	459972.3	4.54 mg/L	0.035	4.54 mg/L	0.035	0.77%
Sn 189.933	105.0	0.00385 mg/L	0.000120	0.00385 mg/L	0.000120	3.11%
Ti 337.280	790.9	0.00049 mg/L	0.000036	0.00049 mg/L	0.000036	7.40%
Tl 190.800	1.5	0.0109 mg/L	0.00172	0.0109 mg/L	0.00172	15.74%
V 292.402	38.4	0.00014 mg/L	0.000011	0.00014 mg/L	0.000011	8.01%
Zn 206.200	5414.0	0.0156 mg/L	0.00004	0.0156 mg/L	0.00004	0.27%
K 766.490	23456.4	1.56 mg/L	0.033	1.56 mg/L	0.033	2.11%
Na 589.592	743573.0	18.6 mg/L	0.17	18.6 mg/L	0.17	0.90%
Sr 407.771	6559.5	0.00779 mg/L	0.001070	0.00779 mg/L	0.001070	13.73%

Sequence No.: 16 **Autosampler Location: 22**
Sample ID: 0624421 **Date Collected: 6/14/2001 7:51:03 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624421

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3895865.2						58702.86	1.51%
Ag 328.068	121.0	0.00018	mg/L	0.000023	0.00018	mg/L	0.000023	12.59%
Al 237.312	-5.8	0.00329	mg/L	0.002213	0.00329	mg/L	0.002213	67.33%
As 188.979	-7.5	-0.00043	mg/L	0.000357	-0.00043	mg/L	0.000357	82.05%
Ba 230.424	5089.9	0.0149	mg/L	0.00005	0.0149	mg/L	0.00005	0.36%
Be 234.861	548.6	0.00032	mg/L	0.000016	0.00032	mg/L	0.000016	4.99%
Ca 227.549	448.0	0.362	mg/L	0.0027	0.362	mg/L	0.0027	0.73%
Cd 228.802	26.2	0.00007	mg/L	0.000021	0.00007	mg/L	0.000021	31.01%
Co 228.616	125.9	0.00071	mg/L	0.000021	0.00071	mg/L	0.000021	2.99%
Cr 267.716	348.5	0.00106	mg/L	0.000065	0.00106	mg/L	0.000065	6.12%
Cu 327.396	8321.5	0.0208	mg/L	0.00018	0.0208	mg/L	0.00018	0.88%
Fe 261.387	11608.3	0.511	mg/L	0.0061	0.511	mg/L	0.0061	1.19%
Mg 279.079	14076.8	0.240	mg/L	0.0014	0.240	mg/L	0.0014	0.59%
Mn 257.610	43405.1	0.0221	mg/L	0.00020	0.0221	mg/L	0.00020	0.88%
Mo 202.030	81.3	0.00072	mg/L	0.000030	0.00072	mg/L	0.000030	4.20%
Ni 231.604	215.1	0.00117	mg/L	0.000103	0.00117	mg/L	0.000103	8.81%
Pb 220.353	102.8	0.00347	mg/L	0.000031	0.00347	mg/L	0.000031	0.89%
Sb 206.833	4.1	0.00006	mg/L	0.000266	0.00006	mg/L	0.000266	480.85%
Se 196.026	3.3	0.00021	mg/L	0.000651	0.00021	mg/L	0.000651	305.16%
Si 288.158	512483.8	5.06	mg/L	0.064	5.06	mg/L	0.064	1.27%
Sn 189.933	61.6	0.00226	mg/L	0.000160	0.00226	mg/L	0.000160	7.09%
Ti 337.280	535.2	0.00045	mg/L	0.000061	0.00045	mg/L	0.000061	13.68%
Tl 190.800	2.6	0.0187	mg/L	0.00630	0.0187	mg/L	0.00630	33.59%
V 292.402	49.1	0.00021	mg/L	0.000051	0.00021	mg/L	0.000051	23.79%
Zn 206.200	8997.8	0.0260	mg/L	0.00045	0.0260	mg/L	0.00045	1.74%
K 766.490	22493.3	1.49	mg/L	0.006	1.49	mg/L	0.006	0.39%
Na 589.592	104646.5	2.61	mg/L	0.026	2.61	mg/L	0.026	0.99%
Sr 407.771	3746.0	0.00522	mg/L	0.000113	0.00522	mg/L	0.000113	2.17%

Sequence No.: 17 **Autosampler Location: 23**
Sample ID: 0624422 **Date Collected: 6/14/2001 7:55:55 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624422

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3753059.3						14791.19	0.39%
Ag 328.068	63.7	0.00009	mg/L	0.000035	0.00009	mg/L	0.000035	37.43%
Al 237.312	54.9	0.00622	mg/L	0.000777	0.00622	mg/L	0.000777	12.49%
As 188.979	-7.4	-0.00043	mg/L	0.000150	-0.00043	mg/L	0.000150	35.20%
Ba 230.424	4437.5	0.0130	mg/L	0.00003	0.0130	mg/L	0.00003	0.19%
Be 234.861	479.6	0.00029	mg/L	0.000011	0.00029	mg/L	0.000011	3.91%
Ca 227.549	463.2	0.378	mg/L	0.0041	0.378	mg/L	0.0041	1.07%

Cd 228.802	167.0	0.00042 mg/L	0.000005	0.00042 mg/L	0.000005	1.15%
Co 228.616	205.6	0.00115 mg/L	0.000036	0.00115 mg/L	0.000036	3.13%
Cr 267.716	221.6	0.00067 mg/L	0.000008	0.00067 mg/L	0.000008	1.15%
Cu 327.396	7104.4	0.0178 mg/L	0.00022	0.0178 mg/L	0.00022	1.25%
Fe 261.387	7723.6	0.340 mg/L	0.0071	0.340 mg/L	0.0071	2.09%
Mg 279.079	13532.6	0.231 mg/L	0.0035	0.231 mg/L	0.0035	1.53%
Mn 257.610	26216.4	0.0134 mg/L	0.00019	0.0134 mg/L	0.00019	1.39%
Mo 202.030	67.5	0.00059 mg/L	0.000035	0.00059 mg/L	0.000035	5.93%
Ni 231.604	430.7	0.00234 mg/L	0.000081	0.00234 mg/L	0.000081	3.45%
Pb 220.353	62.6	0.00211 mg/L	0.000170	0.00211 mg/L	0.000170	8.06%
Sb 206.833	5.4	0.00013 mg/L	0.000241	0.00013 mg/L	0.000241	188.83%
Se 196.026	4.6	0.00030 mg/L	0.000293	0.00030 mg/L	0.000293	98.34%
Si 288.158	463091.9	4.57 mg/L	0.004	4.57 mg/L	0.004	0.09%
Sn 189.933	-0.8	-0.00002 mg/L	0.000230	-0.00002 mg/L	0.000230	962.28%
Ti 337.280	151.0	0.00017 mg/L	0.000010	0.00017 mg/L	0.000010	5.89%
Tl 190.800	1.6	0.0113 mg/L	0.00193	0.0113 mg/L	0.00193	17.03%
V 292.402	61.8	0.00025 mg/L	0.000055	0.00025 mg/L	0.000055	22.52%
Zn 206.200	12790.5	0.0369 mg/L	0.00036	0.0369 mg/L	0.00036	0.97%
K 766.490	19574.1	1.30 mg/L	0.023	1.30 mg/L	0.023	1.76%
Na 589.592	97500.7	2.44 mg/L	0.027	2.44 mg/L	0.027	1.12%
Sr 407.771	3327.7	0.00484 mg/L	0.000072	0.00484 mg/L	0.000072	1.48%

Sequence No.: 18 **Autosampler Location: 24**
Sample ID: 0624423 **Date Collected: 6/14/2001 8:00:47 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624423

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3909333.2						24262.26	0.62%
Ag 328.068	169.1	0.00025	mg/L	0.000027	0.00025	mg/L	0.000027	10.83%
Al 237.312	862.8	0.0615	mg/L	0.00102	0.0615	mg/L	0.00102	1.65%
As 188.979	-5.4	-0.00031	mg/L	0.000241	-0.00031	mg/L	0.000241	79.04%
Ba 230.424	2625.2	0.00771	mg/L	0.000023	0.00771	mg/L	0.000023	0.30%
Be 234.861	441.5	0.00027	mg/L	0.000001	0.00027	mg/L	0.000001	0.27%
Ca 227.549	409.8	0.334	mg/L	0.0088	0.334	mg/L	0.0088	2.63%
Cd 228.802	7.1	0.00002	mg/L	0.000007	0.00002	mg/L	0.000007	42.36%
Co 228.616	60.6	0.00034	mg/L	0.000014	0.00034	mg/L	0.000014	4.04%
Cr 267.716	514.6	0.00154	mg/L	0.000020	0.00154	mg/L	0.000020	1.31%
Cu 327.396	6088.3	0.0153	mg/L	0.00005	0.0153	mg/L	0.00005	0.36%
Fe 261.387	6825.9	0.300	mg/L	0.0001	0.300	mg/L	0.0001	0.03%
Mg 279.079	10491.8	0.179	mg/L	0.0021	0.179	mg/L	0.0021	1.16%
Mn 257.610	25092.8	0.0128	mg/L	0.00008	0.0128	mg/L	0.00008	0.61%
Mo 202.030	68.7	0.00060	mg/L	0.000062	0.00060	mg/L	0.000062	10.30%
Ni 231.604	198.7	0.00108	mg/L	0.000007	0.00108	mg/L	0.000007	0.63%
Pb 220.353	86.3	0.00292	mg/L	0.000255	0.00292	mg/L	0.000255	8.72%
Sb 206.833	5.2	0.00010	mg/L	0.000393	0.00010	mg/L	0.000393	390.35%
Se 196.026	10.2	0.00066	mg/L	0.000289	0.00066	mg/L	0.000289	44.08%
Si 288.158	460373.2	4.55	mg/L	0.027	4.55	mg/L	0.027	0.60%
Sn 189.933	94.8	0.00348	mg/L	0.000089	0.00348	mg/L	0.000089	2.57%
Ti 337.280	1734.9	0.00110	mg/L	0.000005	0.00110	mg/L	0.000005	0.46%
Tl 190.800	2.3	0.0166	mg/L	0.00859	0.0166	mg/L	0.00859	51.63%
V 292.402	38.8	0.00016	mg/L	0.000019	0.00016	mg/L	0.000019	12.13%
Zn 206.200	3608.9	0.0104	mg/L	0.00007	0.0104	mg/L	0.00007	0.70%
K 766.490	14208.6	0.942	mg/L	0.0282	0.942	mg/L	0.0282	2.99%
Na 589.592	304752.2	7.61	mg/L	0.002	7.61	mg/L	0.002	0.03%
Sr 407.771	2738.3	0.00430	mg/L	0.000048	0.00430	mg/L	0.000048	1.11%

Sequence No.: 19 **Autosampler Location: 25**
Sample ID: 0624424 **Date Collected: 6/14/2001 8:05:42 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0624424

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3777900.2						11321.02	0.30%
Ag 328.068	157.8	0.00023	mg/L	0.000088	0.00023	mg/L	0.000088	37.69%
Al 237.312	219.3	0.0153	mg/L	0.00096	0.0153	mg/L	0.00096	6.28%
As 188.979	-6.5	-0.00037	mg/L	0.000134	-0.00037	mg/L	0.000134	35.91%
Ba 230.424	1236.6	0.00363	mg/L	0.000003	0.00363	mg/L	0.000003	0.07%
Be 234.861	336.1	0.00022	mg/L	0.000012	0.00022	mg/L	0.000012	5.61%
Ca 227.549	314.6	0.261	mg/L	0.0133	0.261	mg/L	0.0133	5.12%
Cd 228.802	175.6	0.00044	mg/L	0.000007	0.00044	mg/L	0.000007	1.63%
Co 228.616	70.0	0.00039	mg/L	0.000001	0.00039	mg/L	0.000001	0.19%
Cr 267.716	336.4	0.00100	mg/L	0.000035	0.00100	mg/L	0.000035	3.53%
Cu 327.396	3733.3	0.00935	mg/L	0.000062	0.00935	mg/L	0.000062	0.66%
Fe 261.387	716.0	0.0315	mg/L	0.00052	0.0315	mg/L	0.00052	1.66%
Mg 279.079	6846.2	0.117	mg/L	0.0004	0.117	mg/L	0.0004	0.34%
Mn 257.610	1401.5	0.00071	mg/L	0.000001	0.00071	mg/L	0.000001	0.19%
Mo 202.030	73.8	0.00065	mg/L	0.000002	0.00065	mg/L	0.000002	0.35%
Ni 231.604	173.3	0.00094	mg/L	0.000010	0.00094	mg/L	0.000010	1.06%
Pb 220.353	44.8	0.00151	mg/L	0.000103	0.00151	mg/L	0.000103	6.80%
Sb 206.833	7.0	0.00021	mg/L	0.000091	0.00021	mg/L	0.000091	42.88%
Se 196.026	11.7	0.00075	mg/L	0.000218	0.00075	mg/L	0.000218	28.95%
Si 288.158	445005.6	4.39	mg/L	0.012	4.39	mg/L	0.012	0.28%
Sn 189.933	-12.0	-0.00044	mg/L	0.000089	-0.00044	mg/L	0.000089	20.32%
Ti 337.280	300.0	0.00019	mg/L	0.000005	0.00019	mg/L	0.000005	2.71%
Tl 190.800	0.4	0.00294	mg/L	0.001184	0.00294	mg/L	0.001184	40.23%
V 292.402	68.5	0.00024	mg/L	0.000047	0.00024	mg/L	0.000047	19.35%
Zn 206.200	5621.7	0.0162	mg/L	0.00013	0.0162	mg/L	0.00013	0.81%
K 766.490	12797.5	0.848	mg/L	0.0243	0.848	mg/L	0.0243	2.86%
Na 589.592	273269.8	6.83	mg/L	0.012	6.83	mg/L	0.012	0.18%
Sr 407.771	1503.4	0.00317	mg/L	0.000002	0.00317	mg/L	0.000002	0.06%

Sequence No.: 20
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 8:10:38 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4114928.3						16644.17	0.40%
Ag 328.068	258640.6	0.384	mg/L	0.0007	0.384	mg/L	0.0007	0.19%
QC value within limits for Ag 328.068 Recovery = 96.00%								
Al 237.312	144801.0	9.98	mg/L	0.039	9.98	mg/L	0.039	0.40%
QC value within limits for Al 237.312 Recovery = 99.84%								
As 188.979	6569.9	0.383	mg/L	0.0025	0.383	mg/L	0.0025	0.64%
QC value within limits for As 188.979 Recovery = 95.80%								
Ba 230.424	351266.2	1.03	mg/L	0.004	1.03	mg/L	0.004	0.40%
QC value within limits for Ba 230.424 Recovery = 102.84%								
Be 234.861	81699.8	0.0526	mg/L	0.00007	0.0526	mg/L	0.00007	0.13%
QC value within limits for Be 234.861 Recovery = 105.24%								
Ca 227.549	12291.6	10.1	mg/L	0.04	10.1	mg/L	0.04	0.36%
QC value within limits for Ca 227.549 Recovery = 100.83%								
Cd 228.802	20011.2	0.0485	mg/L	0.00029	0.0485	mg/L	0.00029	0.59%
QC value within limits for Cd 228.802 Recovery = 96.95%								
Co 228.616	37469.3	0.207	mg/L	0.0007	0.207	mg/L	0.0007	0.32%
QC value within limits for Co 228.616 Recovery = 103.41%								
Cr 267.716	170655.2	0.514	mg/L	0.0020	0.514	mg/L	0.0020	0.38%
QC value within limits for Cr 267.716 Recovery = 102.88%								
Cu 327.396	205119.9	0.514	mg/L	0.0014	0.514	mg/L	0.0014	0.27%
QC value within limits for Cu 327.396 Recovery = 102.70%								
Fe 261.387	90264.8	4.01	mg/L	0.030	4.01	mg/L	0.030	0.74%
QC value within limits for Fe 261.387 Recovery = 100.13%								
Mg 279.079	582127.6	9.92	mg/L	0.043	9.92	mg/L	0.043	0.43%
QC value within limits for Mg 279.079 Recovery = 99.18%								
Mn 257.610	995931.4	0.507	mg/L	0.0023	0.507	mg/L	0.0023	0.44%
QC value within limits for Mn 257.610 Recovery = 101.44%								
Mo 202.030	113757.8	1.00	mg/L	0.005	1.00	mg/L	0.005	0.51%
QC value within limits for Mo 202.030 Recovery = 100.64%								

Ni 231.604	93569.1	0.507 mg/L	0.0019	0.507 mg/L	0.0019	0.38%
QC value within limits for Ni 231.604 Recovery = 101.42%						
Pb 220.353	14628.2	0.498 mg/L	0.0031	0.498 mg/L	0.0031	0.63%
QC value within limits for Pb 220.353 Recovery = 99.60%						
Sb 206.833	35069.6	1.18 mg/L	0.006	1.18 mg/L	0.006	0.50%
QC value within limits for Sb 206.833 Recovery = 98.18%						
Se 196.026	6070.8	0.390 mg/L	0.0028	0.390 mg/L	0.0028	0.73%
QC value within limits for Se 196.026 Recovery = 97.42%						
Si 288.158	513358.0	5.08 mg/L	0.020	5.08 mg/L	0.020	0.39%
QC value within limits for Si 288.158 Recovery = 101.56%						
Sn 189.933	23682.7	0.873 mg/L	0.0121	0.873 mg/L	0.0121	1.38%
QC value less than the lower limit for Sn 189.933 Recovery = 87.48%						
Ti 337.280	1701112.9	1.00 mg/L	0.002	1.00 mg/L	0.002	0.25%
QC value within limits for Ti 337.280 Recovery = 100.10%						
Tl 190.800	61.8	0.447 mg/L	0.0256	0.447 mg/L	0.0256	5.71%
QC value less than the lower limit for Tl 190.800 Recovery = 89.49%						
V 292.402	288834.3	1.02 mg/L	0.002	1.02 mg/L	0.002	0.15%
QC value within limits for V 292.402 Recovery = 101.87%						
Zn 206.200	342930.8	0.991 mg/L	0.0064	0.991 mg/L	0.0064	0.65%
QC value within limits for Zn 206.200 Recovery = 99.08%						
K 766.490	711268.5	47.1 mg/L	0.59	47.1 mg/L	0.59	1.24%
QC value within limits for K 766.490 Recovery = 94.27%						
Na 589.592	1944008.6	48.6 mg/L	0.49	48.6 mg/L	0.49	1.01%
QC value within limits for Na 589.592 Recovery = 97.15%						
Sr 407.771	1053775.0	0.964 mg/L	0.0118	0.964 mg/L	0.0118	1.22%
QC value within limits for Sr 407.771 Recovery = 96.43%						

QC Failed. Continue with analysis.

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 8:15:32 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3716206.3						21425.66	0.58%
Ag 328.068	89.1	0.00013	mg/L	0.000010	0.00013	mg/L	0.000010	7.48%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-31.0	-0.00212	mg/L	0.000405	-0.00212	mg/L	0.000405	19.09%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-1.6	-0.00009	mg/L	0.000366	-0.00009	mg/L	0.000366	388.02%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-4.6	-0.00002	mg/L	0.000003	-0.00002	mg/L	0.000003	15.45%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	8.4	0.00001	mg/L	0.000011	0.00001	mg/L	0.000011	197.37%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	3.9	0.00318	mg/L	0.001088	0.00318	mg/L	0.001088	34.21%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-5.7	-0.00001	mg/L	0.000023	-0.00001	mg/L	0.000023	162.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	9.6	0.00005	mg/L	0.000016	0.00005	mg/L	0.000016	28.71%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	61.1	0.00018	mg/L	0.000031	0.00018	mg/L	0.000031	17.11%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-16.6	-0.00004	mg/L	0.000097	-0.00004	mg/L	0.000097	233.65%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	35.1	0.00155	mg/L	0.000226	0.00155	mg/L	0.000226	14.60%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	8.6	0.00015	mg/L	0.000237	0.00015	mg/L	0.000237	161.42%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	7.0	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	43.99%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	102.6	0.00090	mg/L	0.000031	0.00090	mg/L	0.000031	3.44%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	8.0	0.00004	mg/L	0.000015	0.00004	mg/L	0.000015	35.40%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	1.6	0.00006	mg/L	0.000031	0.00006	mg/L	0.000031	54.07%

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   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.833                -5.1    -0.00017 mg/L      0.000083    -0.00017 mg/L      0.000083  47.66%
   QC value within limits for Sb 206.833  Recovery = Not calculated
Se 196.026                 9.4     0.00060 mg/L      0.000474     0.00060 mg/L      0.000474  78.46%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 288.158               144.5     0.00143 mg/L      0.000038     0.00143 mg/L      0.000038   2.68%
   QC value within limits for Si 288.158  Recovery = Not calculated
Sn 189.933               164.2     0.00602 mg/L      0.000592     0.00602 mg/L      0.000592   9.83%
   QC value within limits for Sn 189.933  Recovery = Not calculated
Ti 337.280                12.0     0.00001 mg/L      0.000069     0.00001 mg/L      0.000069 962.25%
   QC value within limits for Ti 337.280  Recovery = Not calculated
Tl 190.800                 1.5      0.0107 mg/L       0.00091      0.0107 mg/L       0.00091   8.53%
   QC value greater than the upper limit for Tl 190.800  Recovery = Not calculated
V 292.402                -22.7    -0.00008 mg/L      0.000015    -0.00008 mg/L      0.000015  18.89%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200              -464.0    -0.00134 mg/L      0.000017    -0.00134 mg/L      0.000017   1.27%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490               2767.2       0.183 mg/L        0.0112       0.183 mg/L        0.0112   6.08%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592             10182.9        0.254 mg/L        0.0002       0.254 mg/L        0.0002   0.08%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771              -115.9     0.00169 mg/L      0.000018     0.00169 mg/L      0.000018   1.06%
   QC value within limits for Sr 407.771  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Analysis Begun

Start Time: 6/14/2001 8:19:12 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: LCSW GO WG99227-03
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 6/14/2001 8:19:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCSW GO WG99227-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4024277.8						23667.80	0.59%
Ag 328.068	134637.5	0.200	mg/L	0.0002	0.200	mg/L	0.0002	0.09%
Al 237.312	145731.1	10.0	mg/L	0.02	10.0	mg/L	0.02	0.20%
As 188.979	16278.2	0.957	mg/L	0.0028	0.957	mg/L	0.0028	0.30%
Ba 230.424	3156554.5	9.26	mg/L	0.019	9.26	mg/L	0.019	0.20%
Be 234.861	1551544.1	1.00	mg/L	0.002	1.00	mg/L	0.002	0.19%
Ca 227.549	12074.8	9.96	mg/L	0.000	9.96	mg/L	0.000	0.00%
Cd 228.802	383911.9	0.956	mg/L	0.0026	0.956	mg/L	0.0026	0.28%
Co 228.616	176272.5	0.977	mg/L	0.0022	0.977	mg/L	0.0022	0.23%
Cr 267.716	329944.4	0.988	mg/L	0.0032	0.988	mg/L	0.0032	0.32%
Cu 327.396	393349.6	0.985	mg/L	0.0001	0.985	mg/L	0.0001	0.01%
Fe 261.387	18615.7	0.949	mg/L	0.0012	0.949	mg/L	0.0012	0.12%
Mg 279.079	568412.0	9.68	mg/L	0.023	9.68	mg/L	0.023	0.24%
Mn 257.610	1940878.7	0.989	mg/L	0.0019	0.989	mg/L	0.0019	0.19%
Mo 202.030	107360.9	0.945	mg/L	0.0015	0.945	mg/L	0.0015	0.16%
Ni 231.604	178583.8	0.968	mg/L	0.0038	0.968	mg/L	0.0038	0.40%
Pb 220.353	28691.6	0.973	mg/L	0.0073	0.973	mg/L	0.0073	0.75%
Sb 206.833	28509.3	0.948	mg/L	0.0073	0.948	mg/L	0.0073	0.77%
Se 196.026	14759.5	0.950	mg/L	0.0054	0.950	mg/L	0.0054	0.57%
Si 288.158	1089187.3	10.8	mg/L	0.03	10.8	mg/L	0.03	0.28%
Sn 189.933	24934.7	0.919	mg/L	0.0038	0.919	mg/L	0.0038	0.41%
Ti 337.280	1700224.3	1.00	mg/L	0.002	1.00	mg/L	0.002	0.23%
Tl 190.800	106.9	0.774	mg/L	0.0256	0.774	mg/L	0.0256	3.31%
V 292.402	276460.3	0.975	mg/L	0.0011	0.975	mg/L	0.0011	0.12%
Zn 206.200	336270.6	0.973	mg/L	0.0022	0.973	mg/L	0.0022	0.23%
K 766.490	732379.9	48.5	mg/L	0.68	48.5	mg/L	0.68	1.40%
Na 589.592	1997095.5	49.9	mg/L	0.91	49.9	mg/L	0.91	1.83%
Sr 407.771	1081292.4	0.989	mg/L	0.0150	0.989	mg/L	0.0150	1.52%

Sequence No.: 2
Sample ID: 0624001DL.1
Analyst:
Sample Wt:
Dilution: 10X
Autosampler Location: 27
Date Collected: 6/14/2001 8:23:29 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0624001DL.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2368087.1						5055.67	0.21%
Ag 328.068	1900.5	0.00282	mg/L	0.000053	0.0282	mg/L	0.00053	1.86%
Al 237.312	-481.5	-0.0955	mg/L	0.00250	-0.955	mg/L	0.0250	2.61%
As 188.979	94.0	0.00551	mg/L	0.000674	0.0551	mg/L	0.00674	12.24%
Ba 230.424	549891.4	1.62	mg/L	0.002	16.2	mg/L	0.02	0.11%
Be 234.861	416.0	0.00027	mg/L	0.000001	0.00271	mg/L	0.000010	0.38%
Ca 227.549	1282717.1	1060	mg/L	1.0	10600	mg/L	9.8	0.09%
Cd 228.802	261.6	-0.00033	mg/L	0.000012	-0.00329	mg/L	0.000117	3.54%

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Co 228.616	-189.6	-0.00044 mg/L	0.000053	-0.00443 mg/L	0.000531	12.00%
Cr 267.716	31.0	-0.00065 mg/L	0.000026	-0.00655 mg/L	0.000257	3.92%
Cu 327.396	253.2	0.00063 mg/L	0.000073	0.00635 mg/L	0.000726	11.45%
Fe 261.387	-647.2	-0.0282 mg/L	0.00060	-0.282 mg/L	0.0060	2.13%
Mg 279.079	8686915.7	148 mg/L	1.2	1480 mg/L	11.9	0.81%
Mn 257.610	24497.3	0.00910 mg/L	0.000010	0.0910 mg/L	0.00010	0.11%
Mo 202.030	200.5	0.00177 mg/L	0.000018	0.0177 mg/L	0.00018	1.03%
Ni 231.604	-73.8	-0.00040 mg/L	0.000088	-0.00400 mg/L	0.000876	21.88%
Pb 220.353	327.3	0.0110 mg/L	0.00009	0.110 mg/L	0.0009	0.81%
Sb 206.833	84.7	-0.00498 mg/L	0.000947	-0.0498 mg/L	0.00947	18.99%
Se 196.026	84.2	0.00543 mg/L	0.000664	0.0543 mg/L	0.00664	12.22%
Si 288.158	1699.1	0.549 mg/L	0.0007	5.49 mg/L	0.007	0.13%
Sn 189.933	-154.9	0.00496 mg/L	0.001626	0.0496 mg/L	0.01626	32.75%
Ti 337.280	-1943.7	0.0379 mg/L	0.00002	0.379 mg/L	0.0002	0.06%
Tl 190.800	5.7	0.0416 mg/L	0.00716	0.416 mg/L	0.0716	17.23%
V 292.402	-213.6	-0.00075 mg/L	0.000020	-0.00755 mg/L	0.000200	2.65%
Zn 206.200	3500.6	0.00864 mg/L	0.000044	0.0864 mg/L	0.00044	0.51%
K 766.490	859954.6	56.6 mg/L	3.71	566 mg/L	37.1	6.56%
Na 589.592	Saturated3					
Saturated in preshot (code 3)						
Sr 407.771	Saturated2					
Saturated in preshot (code 2)						

Sequence No.: 3 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 6/14/2001 8:28:24 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4072185.1						39481.33	0.97%
Ag 328.068	258940.4	0.384	mg/L	0.0038	0.384	mg/L	0.0038	0.98%
QC value within limits for Ag 328.068 Recovery = 96.11%								
Al 237.312	144400.0	9.96	mg/L	0.083	9.96	mg/L	0.083	0.84%
QC value within limits for Al 237.312 Recovery = 99.57%								
As 188.979	6525.3	0.381	mg/L	0.0023	0.381	mg/L	0.0023	0.61%
QC value within limits for As 188.979 Recovery = 95.15%								
Ba 230.424	350140.0	1.03	mg/L	0.009	1.03	mg/L	0.009	0.83%
QC value within limits for Ba 230.424 Recovery = 102.51%								
Be 234.861	81574.7	0.0525	mg/L	0.00057	0.0525	mg/L	0.00057	1.09%
QC value within limits for Be 234.861 Recovery = 105.08%								
Ca 227.549	12303.6	10.1	mg/L	0.02	10.1	mg/L	0.02	0.18%
QC value within limits for Ca 227.549 Recovery = 100.94%								
Cd 228.802	19894.0	0.0482	mg/L	0.00022	0.0482	mg/L	0.00022	0.47%
QC value within limits for Cd 228.802 Recovery = 96.38%								
Co 228.616	37107.0	0.205	mg/L	0.0015	0.205	mg/L	0.0015	0.72%
QC value within limits for Co 228.616 Recovery = 102.41%								
Cr 267.716	169888.2	0.512	mg/L	0.0032	0.512	mg/L	0.0032	0.63%
QC value within limits for Cr 267.716 Recovery = 102.42%								
Cu 327.396	205260.7	0.514	mg/L	0.0059	0.514	mg/L	0.0059	1.14%
QC value within limits for Cu 327.396 Recovery = 102.78%								
Fe 261.387	89707.2	3.98	mg/L	0.036	3.98	mg/L	0.036	0.90%
QC value within limits for Fe 261.387 Recovery = 99.51%								
Mg 279.079	583143.3	9.94	mg/L	0.074	9.94	mg/L	0.074	0.74%
QC value within limits for Mg 279.079 Recovery = 99.35%								
Mn 257.610	986694.5	0.503	mg/L	0.0039	0.503	mg/L	0.0039	0.77%
QC value within limits for Mn 257.610 Recovery = 100.50%								
Mo 202.030	113421.3	0.998	mg/L	0.0072	0.998	mg/L	0.0072	0.72%
QC value within limits for Mo 202.030 Recovery = 100.34%								
Ni 231.604	92668.5	0.502	mg/L	0.0031	0.502	mg/L	0.0031	0.61%
QC value within limits for Ni 231.604 Recovery = 100.44%								
Pb 220.353	14467.5	0.493	mg/L	0.0030	0.493	mg/L	0.0030	0.60%
QC value within limits for Pb 220.353 Recovery = 98.51%								
Sb 206.833	34729.9	1.17	mg/L	0.007	1.17	mg/L	0.007	0.58%
QC value within limits for Sb 206.833 Recovery = 97.22%								
Se 196.026	5978.7	0.384	mg/L	0.0031	0.384	mg/L	0.0031	0.80%
QC value within limits for Se 196.026 Recovery = 95.93%								

Si 288.158	510649.3	5.05 mg/L	0.054	5.05 mg/L	0.054	1.07%
QC value within limits for Si 288.158 Recovery = 101.03%						
Sn 189.933	22930.9	0.846 mg/L	0.0133	0.846 mg/L	0.0133	1.57%
QC value less than the lower limit for Sn 189.933 Recovery = 84.72%						
Ti 337.280	1696849.7	0.998 mg/L	0.0080	0.998 mg/L	0.0080	0.80%
QC value within limits for Ti 337.280 Recovery = 99.85%						
Tl 190.800	64.3	0.465 mg/L	0.0049	0.465 mg/L	0.0049	1.05%
QC value within limits for Tl 190.800 Recovery = 93.08%						
V 292.402	288336.1	1.02 mg/L	0.008	1.02 mg/L	0.008	0.74%
QC value within limits for V 292.402 Recovery = 101.69%						
Zn 206.200	343125.3	0.991 mg/L	0.0047	0.991 mg/L	0.0047	0.48%
QC value within limits for Zn 206.200 Recovery = 99.14%						
K 766.490	731305.7	48.5 mg/L	0.16	48.5 mg/L	0.16	0.34%
QC value within limits for K 766.490 Recovery = 96.92%						
Na 589.592	2059734.8	51.5 mg/L	0.05	51.5 mg/L	0.05	0.10%
QC value within limits for Na 589.592 Recovery = 102.93%						
Sr 407.771	1063517.4	0.973 mg/L	0.0090	0.973 mg/L	0.0090	0.93%
QC value within limits for Sr 407.771 Recovery = 97.32%						

QC Failed. Continue with analysis.

Sequence No.: 4 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 8:33:18 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3760450.6						18416.48	0.49%
Ag 328.068	144.7	0.00021	mg/L	0.000127	0.00021	mg/L	0.000127	59.03%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-44.0	-0.00302	mg/L	0.001513	-0.00302	mg/L	0.001513	50.03%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-1.7	-0.00010	mg/L	0.000720	-0.00010	mg/L	0.000720	714.87%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-33.0	-0.00010	mg/L	0.000041	-0.00010	mg/L	0.000041	40.36%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	8.4	0.00001	mg/L	0.000003	0.00001	mg/L	0.000003	53.80%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-2.9	-0.00237	mg/L	0.010401	-0.00237	mg/L	0.010401	439.00%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	11.5	0.00003	mg/L	0.000023	0.00003	mg/L	0.000023	78.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	8.4	0.00005	mg/L	0.000021	0.00005	mg/L	0.000021	44.49%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	89.4	0.00027	mg/L	0.000001	0.00027	mg/L	0.000001	0.37%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	31.6	0.00008	mg/L	0.000060	0.00008	mg/L	0.000060	75.30%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	4.7	0.00021	mg/L	0.000293	0.00021	mg/L	0.000293	139.08%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-59.5	-0.00101	mg/L	0.000150	-0.00101	mg/L	0.000150	14.85%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	-9.2	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	20.76%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	121.6	0.00107	mg/L	0.000113	0.00107	mg/L	0.000113	10.53%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	15.5	0.00008	mg/L	0.000002	0.00008	mg/L	0.000002	1.89%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	3.2	0.00011	mg/L	0.000100	0.00011	mg/L	0.000100	91.31%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	0.9	0.00003	mg/L	0.000183	0.00003	mg/L	0.000183	604.79%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	9.1	0.00058	mg/L	0.000867	0.00058	mg/L	0.000867	148.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	137.6	0.00136	mg/L	0.000012	0.00136	mg/L	0.000012	0.88%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	183.9	0.00674	mg/L	0.000380	0.00674	mg/L	0.000380	5.63%

```
   QC value within limits for Sn 189.933  Recovery = Not calculated
Ti 337.280              -36.6    -0.00002 mg/L      0.000033    -0.00002 mg/L      0.000033 153.83%
   QC value within limits for Ti 337.280  Recovery = Not calculated
Tl 190.800                1.9      0.0138 mg/L       0.00687      0.0138 mg/L       0.00687  49.76%
   QC value greater than the upper limit for Tl 190.800  Recovery = Not calculated
V 292.402               -47.5    -0.00017 mg/L      0.000103    -0.00017 mg/L      0.000103  61.82%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 206.200             -410.9    -0.00119 mg/L      0.000009    -0.00119 mg/L      0.000009   0.76%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490              5782.9       0.383 mg/L        0.0136       0.383 mg/L        0.0136   3.54%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592            26891.6       0.672 mg/L        0.0325       0.672 mg/L        0.0325   4.84%
   QC value greater than the upper limit for Na 589.592  Recovery = Not calculated
Sr 407.771              -25.9     0.00177 mg/L      0.000072     0.00177 mg/L      0.000072   4.08%
   QC value within limits for Sr 407.771  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Analysis Begun

Start Time: 6/14/2001 8:54:55 PM | **Plasma On Time: 6/14/2001 8:07:41 AM**
Logged In Analyst: Administrator | **Technique: ICP Continuous**
Spectrometer Model: Optima 3000 DV | **Autosampler Model: AS-90**

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1 | **Autosampler Location: 5**
Sample ID: CCV | **Date Collected: 6/14/2001 8:54:55 PM**
Analyst:
Sample Wt: | **Sample Prep Volume:**
Dilution: | **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4254156.3						83567.93	1.96%
Ag 328.068	268031.6	0.398	mg/L	0.0072	0.398	mg/L	0.0072	1.82%
QC value within limits for Ag 328.068 Recovery = 99.49%								
Al 237.312	150003.6	10.3	mg/L	0.16	10.3	mg/L	0.16	1.54%
QC value within limits for Al 237.312 Recovery = 103.43%								
As 188.979	6774.6	0.395	mg/L	0.0013	0.395	mg/L	0.0013	0.33%
QC value within limits for As 188.979 Recovery = 98.79%								
Ba 230.424	362502.1	1.06	mg/L	0.016	1.06	mg/L	0.016	1.47%
QC value within limits for Ba 230.424 Recovery = 106.13%								
Be 234.861	83739.0	0.0539	mg/L	0.00083	0.0539	mg/L	0.00083	1.53%
QC value within limits for Be 234.861 Recovery = 107.86%								
Ca 227.549	12572.1	10.3	mg/L	0.04	10.3	mg/L	0.04	0.41%
QC value within limits for Ca 227.549 Recovery = 103.11%								
Cd 228.802	20595.1	0.0499	mg/L	0.00013	0.0499	mg/L	0.00013	0.25%
QC value within limits for Cd 228.802 Recovery = 99.76%								
Co 228.616	38748.1	0.214	mg/L	0.0030	0.214	mg/L	0.0030	1.38%
QC value within limits for Co 228.616 Recovery = 106.94%								
Cr 267.716	177182.7	0.534	mg/L	0.0082	0.534	mg/L	0.0082	1.53%
QC value within limits for Cr 267.716 Recovery = 106.81%								
Cu 327.396	212661.3	0.532	mg/L	0.0104	0.532	mg/L	0.0104	1.95%
QC value within limits for Cu 327.396 Recovery = 106.48%								
Fe 261.387	94318.3	4.18	mg/L	0.077	4.18	mg/L	0.077	1.85%
QC value within limits for Fe 261.387 Recovery = 104.62%								
Mg 279.079	605825.6	10.3	mg/L	0.15	10.3	mg/L	0.15	1.43%
QC value within limits for Mg 279.079 Recovery = 103.22%								
Mn 257.610	1031752.6	0.525	mg/L	0.0078	0.525	mg/L	0.0078	1.48%
QC value within limits for Mn 257.610 Recovery = 105.09%								
Mo 202.030	118072.7	1.04	mg/L	0.016	1.04	mg/L	0.016	1.58%
QC value within limits for Mo 202.030 Recovery = 104.46%								
Ni 231.604	97324.8	0.527	mg/L	0.0092	0.527	mg/L	0.0092	1.74%
QC value within limits for Ni 231.604 Recovery = 105.49%								
Pb 220.353	15029.0	0.512	mg/L	0.0015	0.512	mg/L	0.0015	0.29%
QC value within limits for Pb 220.353 Recovery = 102.33%								
Sb 206.833	35970.5	1.21	mg/L	0.003	1.21	mg/L	0.003	0.28%
QC value within limits for Sb 206.833 Recovery = 100.69%								
Se 196.026	6228.4	0.400	mg/L	0.0020	0.400	mg/L	0.0020	0.50%
QC value within limits for Se 196.026 Recovery = 99.94%								
Si 288.158	531723.8	5.26	mg/L	0.073	5.26	mg/L	0.073	1.39%
QC value within limits for Si 288.158 Recovery = 105.19%								
Sn 189.933	24849.5	0.916	mg/L	0.0052	0.916	mg/L	0.0052	0.57%
QC value within limits for Sn 189.933 Recovery = 91.78%								
Ti 337.280	1760310.1	1.04	mg/L	0.017	1.04	mg/L	0.017	1.65%
QC value within limits for Ti 337.280 Recovery = 103.58%								
Tl 190.800	65.6	0.475	mg/L	0.0209	0.475	mg/L	0.0209	4.41%
QC value within limits for Tl 190.800 Recovery = 95.09%								
V 292.402	298337.5	1.05	mg/L	0.017	1.05	mg/L	0.017	1.61%
QC value within limits for V 292.402 Recovery = 105.22%								
Zn 206.200	355828.9	1.03	mg/L	0.011	1.03	mg/L	0.011	1.03%

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QC value within limits for Zn 206.200 Recovery = 102.81%

K 766.490	743967.9	49.3 mg/L	0.34	49.3 mg/L	0.34	0.68%

QC value within limits for K 766.490 Recovery = 98.60%

Na 589.592	2026577.9	50.6 mg/L	0.51	50.6 mg/L	0.51	1.00%

QC value within limits for Na 589.592 Recovery = 101.27%

Sr 407.771	1095003.3	1.00 mg/L	0.006	1.00 mg/L	0.006	0.62%

QC value within limits for Sr 407.771 Recovery = 100.20%

All analytes passed QC.

Sequence No.: 2
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/14/2001 8:59:50 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3724850.2						7026.78	0.19%
Ag 328.068	90.5	0.00013	mg/L	0.000033	0.00013	mg/L	0.000033	24.41%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-33.5	-0.00230	mg/L	0.000866	-0.00230	mg/L	0.000866	37.66%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.0	0.00006	mg/L	0.000057	0.00006	mg/L	0.000057	99.35%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-7.8	-0.00003	mg/L	0.000013	-0.00003	mg/L	0.000013	47.80%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	5.2	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	75.57%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-1.7	-0.00146	mg/L	0.005344	-0.00146	mg/L	0.005344	366.74%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	1.3	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	104.81%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	8.0	0.00005	mg/L	0.000017	0.00005	mg/L	0.000017	37.18%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	89.8	0.00027	mg/L	0.000001	0.00027	mg/L	0.000001	0.33%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	46.5	0.00012	mg/L	0.000211	0.00012	mg/L	0.000211	181.34%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	25.7	0.00113	mg/L	0.000415	0.00113	mg/L	0.000415	36.60%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-46.0	-0.00078	mg/L	0.000290	-0.00078	mg/L	0.000290	37.02%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	7.3	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	119.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	114.7	0.00101	mg/L	0.000039	0.00101	mg/L	0.000039	3.84%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	13.3	0.00007	mg/L	0.000000	0.00007	mg/L	0.000000	0.32%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	3.4	0.00012	mg/L	0.000141	0.00012	mg/L	0.000141	119.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-3.3	-0.00011	mg/L	0.000073	-0.00011	mg/L	0.000073	66.01%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	8.9	0.00057	mg/L	0.000327	0.00057	mg/L	0.000327	57.06%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	86.2	0.00085	mg/L	0.000044	0.00085	mg/L	0.000044	5.23%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	160.8	0.00590	mg/L	0.000358	0.00590	mg/L	0.000358	6.08%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	2.1	0.00000	mg/L	0.000015	0.00000	mg/L	0.000015	>999.9%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	2.9	0.0211	mg/L	0.00626	0.0211	mg/L	0.00626	29.72%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	10.5	0.00004	mg/L	0.000007	0.00004	mg/L	0.000007	20.09%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-479.5	-0.00139	mg/L	0.000026	-0.00139	mg/L	0.000026	1.86%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	2554.0	0.169	mg/L	0.0104	0.169	mg/L	0.0104	6.14%
QC value within limits for K 766.490 Recovery = Not calculated								

Na 589.592	11510.6	0.288 mg/L	0.0049	0.288 mg/L	0.0049	1.70%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-30.5	0.00177 mg/L	0.000011	0.00177 mg/L	0.000011	0.60%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 3
Sample ID: 0623705
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 6/14/2001 9:04:40 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623705

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	4075975.6						15413.35	0.38%
Ag 328.068	-88.7	-0.00013	mg/L	0.000069	-0.00013	mg/L	0.000069	52.71%
Al 237.312	83220.2	5.77	mg/L	0.035	5.77	mg/L	0.035	0.61%
As 188.979	126.4	0.00349	mg/L	0.000430	0.00349	mg/L	0.000430	12.34%
Ba 230.424	101465.0	0.300	mg/L	0.0009	0.300	mg/L	0.0009	0.31%
Be 234.861	1788.9	0.00063	mg/L	0.000019	0.00063	mg/L	0.000019	3.01%
Ca 227.549	13723.0	11.2	mg/L	0.07	11.2	mg/L	0.07	0.66%
Cd 228.802	68.6	-0.00034	mg/L	0.000034	-0.00034	mg/L	0.000034	10.07%
Co 228.616	1596.4	0.00545	mg/L	0.000038	0.00545	mg/L	0.000038	0.69%
Cr 267.716	24290.6	0.0726	mg/L	0.00035	0.0726	mg/L	0.00035	0.48%
Cu 327.396	3600.7	0.00855	mg/L	0.000016	0.00855	mg/L	0.000016	0.19%
Fe 261.387	174234.8	7.67	mg/L	0.026	7.67	mg/L	0.026	0.34%
Mg 279.079	149050.8	2.53	mg/L	0.008	2.53	mg/L	0.008	0.31%
Mn 257.610	852305.0	0.434	mg/L	0.0019	0.434	mg/L	0.0019	0.45%
Mo 202.030	581.5	0.00510	mg/L	0.000049	0.00510	mg/L	0.000049	0.96%
Ni 231.604	6295.8	0.0345	mg/L	0.00009	0.0345	mg/L	0.00009	0.27%
Pb 220.353	676.6	0.0245	mg/L	0.00011	0.0245	mg/L	0.00011	0.45%
Sb 206.833	192.8	-0.00008	mg/L	0.000194	-0.00008	mg/L	0.000194	242.64%
Se 196.026	0.6	-0.00011	mg/L	0.000708	-0.00011	mg/L	0.000708	619.79%
Si 288.158	1790527.3	17.7	mg/L	0.07	17.7	mg/L	0.07	0.41%
Sn 189.933	-331.0	-0.00312	mg/L	0.000130	-0.00312	mg/L	0.000130	4.17%
Ti 337.280	2658870.9	1.56	mg/L	0.007	1.56	mg/L	0.007	0.46%
Tl 190.800	2.3	0.0169	mg/L	0.00286	0.0169	mg/L	0.00286	16.87%
V 292.402	1547.0	0.00518	mg/L	0.000034	0.00518	mg/L	0.000034	0.66%
Zn 206.200	24351.4	0.0697	mg/L	0.00022	0.0697	mg/L	0.00022	0.32%
K 766.490	116983.8	7.75	mg/L	0.076	7.75	mg/L	0.076	0.98%
Na 589.592	224595.4	5.61	mg/L	0.033	5.61	mg/L	0.033	0.60%
Sr 407.771	299227.8	0.275	mg/L	0.0024	0.275	mg/L	0.0024	0.86%

Sequence No.: 4
Sample ID: 0623706
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/14/2001 9:09:35 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0623706

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3829625.6						60223.51	1.57%
Ag 328.068	234.0	0.00035	mg/L	0.000084	0.00035	mg/L	0.000084	24.18%
Al 237.312	1526.2	0.108	mg/L	0.0002	0.108	mg/L	0.0002	0.21%
As 188.979	0.1	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	101.61%
Ba 230.424	64240.2	0.189	mg/L	0.0037	0.189	mg/L	0.0037	1.97%
Be 234.861	340.2	0.00019	mg/L	0.000011	0.00019	mg/L	0.000011	5.66%
Ca 227.549	9723.0	8.06	mg/L	0.177	8.06	mg/L	0.177	2.20%
Cd 228.802	47.8	0.00011	mg/L	0.000004	0.00011	mg/L	0.000004	3.41%
Co 228.616	481.7	0.00268	mg/L	0.000051	0.00268	mg/L	0.000051	1.89%
Cr 267.716	813.3	0.00244	mg/L	0.000000	0.00244	mg/L	0.000000	0.01%
Cu 327.396	703.2	0.00176	mg/L	0.000163	0.00176	mg/L	0.000163	9.25%
Fe 261.387	10861.6	0.487	mg/L	0.0150	0.487	mg/L	0.0150	3.09%
Mg 279.079	74919.4	1.28	mg/L	0.014	1.28	mg/L	0.014	1.13%
Mn 257.610	592853.6	0.302	mg/L	0.0044	0.302	mg/L	0.0044	1.47%

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Mo 202.030	222.4	0.00196	mg/L	0.000032	0.00196	mg/L	0.000032	1.63%
Ni 231.604	1216.2	0.00659	mg/L	0.000079	0.00659	mg/L	0.000079	1.20%
Pb 220.353	45.4	0.00155	mg/L	0.000207	0.00155	mg/L	0.000207	13.38%
Sb 206.833	13.4	0.00017	mg/L	0.000230	0.00017	mg/L	0.000230	132.01%
Se 196.026	16.9	0.00108	mg/L	0.000252	0.00108	mg/L	0.000252	23.37%
Si 288.158	634149.9	6.27	mg/L	0.088	6.27	mg/L	0.088	1.41%
Sn 189.933	-150.0	-0.00541	mg/L	0.000073	-0.00541	mg/L	0.000073	1.35%
Ti 337.280	5485.8	0.00495	mg/L	0.000084	0.00495	mg/L	0.000084	1.70%
Tl 190.800	2.0	0.0147	mg/L	0.00130	0.0147	mg/L	0.00130	8.83%
V 292.402	128.2	0.00049	mg/L	0.000097	0.00049	mg/L	0.000097	19.90%
Zn 206.200	7929.8	0.0229	mg/L	0.00018	0.0229	mg/L	0.00018	0.81%
K 766.490	72363.2	4.79	mg/L	0.100	4.79	mg/L	0.100	2.08%
Na 589.592	186255.7	4.65	mg/L	0.077	4.65	mg/L	0.077	1.66%
Sr 407.771	248115.0	0.228	mg/L	0.0040	0.228	mg/L	0.0040	1.75%

Sequence No.: 5 **Autosampler Location: 30**
Sample ID: 0623707 **Date Collected: 6/14/2001 9:14:31 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0623707

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3788832.4						55987.23	1.48%
Ag 328.068	1107.7	0.00164	mg/L	0.000002	0.00164	mg/L	0.000002	0.11%
Al 237.312	-2023.1	-0.0220	mg/L	0.00783	-0.0220	mg/L	0.00783	35.54%
As 188.979	-2.6	-0.00012	mg/L	0.000313	-0.00012	mg/L	0.000313	250.50%
Ba 230.424	43724.2	0.129	mg/L	0.0001	0.129	mg/L	0.0001	0.10%
Be 234.861	1882.4	0.00011	mg/L	0.000003	0.00011	mg/L	0.000003	3.06%
Ca 227.549	137521.8	114	mg/L	0.1	114	mg/L	0.1	0.09%
Cd 228.802	6.9	-0.00007	mg/L	0.000006	-0.00007	mg/L	0.000006	8.23%
Co 228.616	2197.8	0.0126	mg/L	0.00005	0.0126	mg/L	0.00005	0.39%
Cr 267.716	884.2	0.00326	mg/L	0.000037	0.00326	mg/L	0.000037	1.14%
Cu 327.396	187.8	0.00047	mg/L	0.000019	0.00047	mg/L	0.000019	4.01%
Fe 261.387	386333.6	17.1	mg/L	0.05	17.1	mg/L	0.05	0.32%
Mg 279.079	1051368.2	17.9	mg/L	0.19	17.9	mg/L	0.19	1.07%
Mn 257.610	5940337.9	3.03	mg/L	0.033	3.03	mg/L	0.033	1.10%
Mo 202.030	87.8	0.00077	mg/L	0.000037	0.00077	mg/L	0.000037	4.82%
Ni 231.604	399.9	0.00239	mg/L	0.000096	0.00239	mg/L	0.000096	4.03%
Pb 220.353	155.6	0.00524	mg/L	0.000040	0.00524	mg/L	0.000040	0.76%
Sb 206.833	72.9	-0.00124	mg/L	0.000051	-0.00124	mg/L	0.000051	4.08%
Se 196.026	38.0	0.00246	mg/L	0.001219	0.00246	mg/L	0.001219	49.53%
Si 288.158	648016.9	6.46	mg/L	0.008	6.46	mg/L	0.008	0.13%
Sn 189.933	-398.3	-0.0135	mg/L	0.00014	-0.0135	mg/L	0.00014	1.05%
Ti 337.280	-99.6	0.0190	mg/L	0.00014	0.0190	mg/L	0.00014	0.75%
Tl 190.800	1.1	0.00814	mg/L	0.004594	0.00814	mg/L	0.004594	56.46%
V 292.402	-302.5	0.00029	mg/L	0.000030	0.00029	mg/L	0.000030	10.21%
Zn 206.200	4207.0	0.0108	mg/L	0.00004	0.0108	mg/L	0.00004	0.41%
K 766.490	405211.5	26.8	mg/L	0.24	26.8	mg/L	0.24	0.90%
Na 589.592	719449.2	18.0	mg/L	0.14	18.0	mg/L	0.14	0.80%
Sr 407.771	658489.2	0.603	mg/L	0.0076	0.603	mg/L	0.0076	1.26%

Sequence No.: 6 **Autosampler Location: 31**
Sample ID: 0623608 **Date Collected: 6/14/2001 9:19:28 PM**
Analyst: 7 CRL 6/14/01
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0623608 7 CRL 6/14/01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4272127.0						50568.95	1.18%
Ag 328.068	-1572.7	-0.00233	mg/L	0.000174	-0.00233	mg/L	0.000174	7.47%
Al 237.312	156379.7	11.9	mg/L	0.17	11.9	mg/L	0.17	1.40%
As 188.979	640.2	0.0358	mg/L	0.00010	0.0358	mg/L	0.00010	0.28%
Ba 230.424	136334.9	0.403	mg/L	0.0032	0.403	mg/L	0.0032	0.79%

Be 234.861	19433.6	0.00198	mg/L	0.000280	0.00198	mg/L	0.000280	14.19%
Ca 227.549	148110.6	120	mg/L	1.6	120	mg/L	1.6	1.36%
Cd 228.802	106.7	0.00001	mg/L	0.000014	0.00001	mg/L	0.000014	156.29%
Co 228.616	4396.2	0.0262	mg/L	0.00009	0.0262	mg/L	0.00009	0.36%
Cr 267.716	6719.7	0.0269	mg/L	0.00013	0.0269	mg/L	0.00013	0.49%
Cu 327.396	7687.7	0.0191	mg/L	0.00029	0.0191	mg/L	0.00029	1.51%
Fe 261.387	3687908.5	162	mg/L	0.8	162	mg/L	0.8	0.48%
Mg 279.079	1158830.9	19.7	mg/L	0.09	19.7	mg/L	0.09	0.47%
Mn 257.610	6723404.5	3.43	mg/L	0.001	3.43	mg/L	0.001	0.02%
Mo 202.030	-40.4	-0.00038	mg/L	0.000176	-0.00038	mg/L	0.000176	45.84%
Ni 231.604	1849.6	0.0122	mg/L	0.00011	0.0122	mg/L	0.00011	0.94%
Pb 220.353	1882.7	0.0650	mg/L	0.00071	0.0650	mg/L	0.00071	1.09%
Sb 206.833	659.9	0.00082	mg/L	0.000071	0.00082	mg/L	0.000071	8.68%
Se 196.026	-190.1	-0.0130	mg/L	0.00166	-0.0130	mg/L	0.00166	12.80%
Si 288.158	2167944.1	21.5	mg/L	0.23	21.5	mg/L	0.23	1.06%
Sn 189.933	-386.2	-0.00977	mg/L	0.000288	-0.00977	mg/L	0.000288	2.95%
Ti 337.280	1142995.0	0.698	mg/L	0.0085	0.698	mg/L	0.0085	1.22%
Tl 190.800	-0.3	-0.00197	mg/L	0.011137	-0.00197	mg/L	0.011137	566.15%
V 292.402	4409.3	0.0280	mg/L	0.00067	0.0280	mg/L	0.00067	2.40%
Zn 206.200	51177.2	0.136	mg/L	0.0007	0.136	mg/L	0.0007	0.49%
K 766.490	412646.7	27.3	mg/L	0.57	27.3	mg/L	0.57	2.10%
Na 589.592	670962.5	16.8	mg/L	0.40	16.8	mg/L	0.40	2.40%
Sr 407.771	733229.4	0.672	mg/L	0.0098	0.672	mg/L	0.0098	1.47%

Sequence No.: 7
Sample ID: PBW JA WG99333-03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 6/14/2001 9:24:28 PM
Sample Prep Volume:
Data Type: Original

Mean Data: PBW JA WG99333-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3704372.4						44785.99	1.21%
Ag 328.068	98.8	0.00015	mg/L	0.000069	0.00015	mg/L	0.000069	46.94%
Al 237.312	161.5	0.0112	mg/L	0.00058	0.0112	mg/L	0.00058	5.15%
As 188.979	-2.0	-0.00011	mg/L	0.000100	-0.00011	mg/L	0.000100	86.83%
Ba 230.424	71.9	0.00021	mg/L	0.000015	0.00021	mg/L	0.000015	7.26%
Be 234.861	18.9	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	5.63%
Ca 227.549	38.1	0.0314	mg/L	0.00098	0.0314	mg/L	0.00098	3.12%
Cd 228.802	6.6	0.00002	mg/L	0.000019	0.00002	mg/L	0.000019	111.68%
Co 228.616	8.6	0.00005	mg/L	0.000002	0.00005	mg/L	0.000002	4.83%
Cr 267.716	32.0	0.00009	mg/L	0.000009	0.00009	mg/L	0.000009	9.67%
Cu 327.396	289.8	0.00073	mg/L	0.000030	0.00073	mg/L	0.000030	4.19%
Fe 261.387	375.7	0.0165	mg/L	0.00013	0.0165	mg/L	0.00013	0.78%
Mg 279.079	278.0	0.00474	mg/L	0.000151	0.00474	mg/L	0.000151	3.18%
Mn 257.610	649.8	0.00033	mg/L	0.000002	0.00033	mg/L	0.000002	0.48%
Mo 202.030	7.1	0.00006	mg/L	0.000076	0.00006	mg/L	0.000076	120.91%
Ni 231.604	125.9	0.00068	mg/L	0.000010	0.00068	mg/L	0.000010	1.51%
Pb 220.353	11.5	0.00039	mg/L	0.000352	0.00039	mg/L	0.000352	90.83%
Sb 206.833	1.7	0.00005	mg/L	0.000275	0.00005	mg/L	0.000275	515.52%
Se 196.026	-4.9	-0.00032	mg/L	0.000102	-0.00032	mg/L	0.000102	31.94%
Si 288.158	13781.6	0.136	mg/L	0.0014	0.136	mg/L	0.0014	1.05%
Sn 189.933	-18.0	-0.00066	mg/L	0.000127	-0.00066	mg/L	0.000127	19.30%
Ti 337.280	146.1	0.00009	mg/L	0.000024	0.00009	mg/L	0.000024	26.63%
Tl 190.800	1.2	0.00893	mg/L	0.000669	0.00893	mg/L	0.000669	7.49%
V 292.402	-51.9	-0.00018	mg/L	0.000146	-0.00018	mg/L	0.000146	80.02%
Zn 206.200	1302.4	0.00376	mg/L	0.000049	0.00376	mg/L	0.000049	1.31%
K 766.490	1854.0	0.123	mg/L	0.0135	0.123	mg/L	0.0135	10.95%
Na 589.592	10315.6	0.258	mg/L	0.0007	0.258	mg/L	0.0007	0.28%
Sr 407.771	127.4	0.00191	mg/L	0.000016	0.00191	mg/L	0.000016	0.84%

Sequence No.: 8
Sample ID: LCSW JA WG99333-04
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 6/14/2001 9:29:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCSW JA WG99333-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3994811.2						37042.70	0.93%
Ag 328.068	134687.6	0.200	mg/L	0.0014	0.200	mg/L	0.0014	0.70%
Al 237.312	146983.1	10.1	mg/L	0.10	10.1	mg/L	0.10	1.02%
As 188.979	16722.7	0.984	mg/L	0.0023	0.984	mg/L	0.0023	0.23%
Ba 230.424	3179499.2	9.33	mg/L	0.078	9.33	mg/L	0.078	0.84%
Be 234.861	1553164.3	1.00	mg/L	0.008	1.00	mg/L	0.008	0.79%
Ca 227.549	12200.2	10.1	mg/L	0.01	10.1	mg/L	0.01	0.11%
Cd 228.802	389236.0	0.970	mg/L	0.0086	0.970	mg/L	0.0086	0.89%
Co 228.616	178173.2	0.988	mg/L	0.0094	0.988	mg/L	0.0094	0.95%
Cr 267.716	333159.0	0.997	mg/L	0.0091	0.997	mg/L	0.0091	0.92%
Cu 327.396	393333.1	0.985	mg/L	0.0059	0.985	mg/L	0.0059	0.60%
Fe 261.387	19334.5	0.982	mg/L	0.0088	0.982	mg/L	0.0088	0.90%
Mg 279.079	575526.3	9.81	mg/L	0.105	9.81	mg/L	0.105	1.07%
Mn 257.610	1959195.0	0.998	mg/L	0.0080	0.998	mg/L	0.0080	0.80%
Mo 202.030	108262.0	0.953	mg/L	0.0072	0.953	mg/L	0.0072	0.76%
Ni 231.604	180911.8	0.980	mg/L	0.0093	0.980	mg/L	0.0093	0.95%
Pb 220.353	29272.1	0.992	mg/L	0.0064	0.992	mg/L	0.0064	0.64%
Sb 206.833	29141.9	0.970	mg/L	0.0023	0.970	mg/L	0.0023	0.24%
Se 196.026	14987.3	0.964	mg/L	0.0012	0.964	mg/L	0.0012	0.12%
Si 288.158	1088458.8	10.8	mg/L	0.09	10.8	mg/L	0.09	0.86%
Sn 189.933	26451.5	0.975	mg/L	0.0021	0.975	mg/L	0.0021	0.22%
Ti 337.280	1710570.6	1.01	mg/L	0.007	1.01	mg/L	0.007	0.73%
Tl 190.800	105.6	0.765	mg/L	0.0067	0.765	mg/L	0.0067	0.87%
V 292.402	277983.1	0.980	mg/L	0.0076	0.980	mg/L	0.0076	0.77%
Zn 206.200	342554.6	0.991	mg/L	0.0135	0.991	mg/L	0.0135	1.37%
K 766.490	745194.5	49.4	mg/L	0.18	49.4	mg/L	0.18	0.36%
Na 589.592	1992216.9	49.8	mg/L	0.20	49.8	mg/L	0.20	0.40%
Sr 407.771	1094464.1	1.00	mg/L	0.001	1.00	mg/L	0.001	0.06%

Recovery Check: LCSW JA WG99333-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.01	0.765	0.007	mg/L	75.6
K 766.490	50.1	49.4	0.177	mg/L	98.5
Na 589.592	50.3	49.8	0.198	mg/L	99.0
Sr 407.771	1.00	1.00	0.001	mg/L	100.0
Ag 328.068	0.200	0.200	0.001	mg/L	99.9
Al 237.312	10.0	10.1	0.103	mg/L	101.0
As 188.979	1.000	0.984	0.002	mg/L	98.4
Ba 230.424	10.0	9.33	0.078	mg/L	93.3
Be 234.861	1.00	1.00	0.008	mg/L	100.4
Ca 227.549	10.0	10.1	0.011	mg/L	100.4
Cd 228.802	1.00	0.970	0.009	mg/L	97.0
Co 228.616	1.00	0.988	0.009	mg/L	98.8
Cr 267.716	1.00	0.997	0.009	mg/L	99.7
Cu 327.396	1.00	0.985	0.006	mg/L	98.4
Fe 261.387	1.02	0.982	0.009	mg/L	96.5
Mg 279.079	10.0	9.81	0.105	mg/L	98.0
Mn 257.610	1.00	0.998	0.008	mg/L	99.8
Mo 202.030	0.995	0.953	0.007	mg/L	95.8
Ni 231.604	1.00	0.980	0.009	mg/L	97.9
Pb 220.353	1.00	0.992	0.006	mg/L	99.2
Sb 206.833	1.20	0.970	0.002	mg/L	80.6
Se 196.026	1.000	0.964	0.001	mg/L	96.5
Si 288.158	10.1	10.8	0.093	mg/L	106.2
Sn 189.933	0.998	0.975	0.002	mg/L	97.7
Ti 337.280	1.000	1.01	0.007	mg/L	100.9
V 292.402	1.000	0.980	0.008	mg/L	98.0
Zn 206.200	1.00	0.991	0.014	mg/L	98.7

Sequence No.: 9
Sample ID: 0625001
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 6/14/2001 9:33:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3907164.8						20267.69	0.52%
Ag 328.068	375.6	0.00056	mg/L	0.000018	0.00056	mg/L	0.000018	3.26%
Al 237.312	18943.2	1.31	mg/L	0.008	1.31	mg/L	0.008	0.63%
As 188.979	242.9	0.0142	mg/L	0.00013	0.0142	mg/L	0.00013	0.90%
Ba 230.424	47106.3	0.138	mg/L	0.0010	0.138	mg/L	0.0010	0.72%
Be 234.861	323.4	0.00012	mg/L	0.000009	0.00012	mg/L	0.000009	7.33%
Ca 227.549	43212.2	35.8	mg/L	0.30	35.8	mg/L	0.30	0.84%
Cd 228.802	53.1	0.00006	mg/L	0.000008	0.00006	mg/L	0.000008	14.67%
Co 228.616	121.2	0.00068	mg/L	0.000036	0.00068	mg/L	0.000036	5.35%
Cr 267.716	778.3	0.00237	mg/L	0.000017	0.00237	mg/L	0.000017	0.70%
Cu 327.396	1330.8	0.00333	mg/L	0.000080	0.00333	mg/L	0.000080	2.40%
Fe 261.387	30175.2	1.33	mg/L	0.017	1.33	mg/L	0.017	1.30%
Mg 279.079	422795.5	7.21	mg/L	0.024	7.21	mg/L	0.024	0.34%
Mn 257.610	149377.1	0.0760	mg/L	0.00071	0.0760	mg/L	0.00071	0.93%
Mo 202.030	553.6	0.00487	mg/L	0.000054	0.00487	mg/L	0.000054	1.10%
Ni 231.604	387.4	0.00212	mg/L	0.000087	0.00212	mg/L	0.000087	4.10%
Pb 220.353	66.6	0.00239	mg/L	0.000004	0.00239	mg/L	0.000004	0.18%
Sb 206.833	-30.3	-0.00170	mg/L	0.000334	-0.00170	mg/L	0.000334	19.64%
Se 196.026	42.6	0.00264	mg/L	0.000763	0.00264	mg/L	0.000763	28.91%
Si 288.158	482000.9	4.78	mg/L	0.022	4.78	mg/L	0.022	0.45%
Sn 189.933	-130.2	-0.00440	mg/L	0.000715	-0.00440	mg/L	0.000715	16.27%
Ti 337.280	34927.4	0.0222	mg/L	0.00010	0.0222	mg/L	0.00010	0.47%
Tl 190.800	7.3	0.0525	mg/L	0.00782	0.0525	mg/L	0.00782	14.88%
V 292.402	1542.9	0.00551	mg/L	0.000013	0.00551	mg/L	0.000013	0.24%
Zn 206.200	2810.6	0.00791	mg/L	0.000028	0.00791	mg/L	0.000028	0.36%
K 766.490	61920.5	4.08	mg/L	0.014	4.08	mg/L	0.014	0.35%
Na 589.592	234058.0	5.85	mg/L	0.003	5.85	mg/L	0.003	0.06%
Sr 407.771	401763.0	0.369	mg/L	0.0010	0.369	mg/L	0.0010	0.28%

Sequence No.: 10
Sample ID: 0625101
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 6/14/2001 9:38:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625101

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3835459.7						18034.49	0.47%
Ag 328.068	345.1	0.00051	mg/L	0.000117	0.00051	mg/L	0.000117	22.89%
Al 237.312	3023.7	0.207	mg/L	0.0005	0.207	mg/L	0.0005	0.26%
As 188.979	-0.9	-0.00006	mg/L	0.000361	-0.00006	mg/L	0.000361	617.64%
Ba 230.424	19985.5	0.0588	mg/L	0.00049	0.0588	mg/L	0.00049	0.83%
Be 234.861	114.4	0.00006	mg/L	0.000008	0.00006	mg/L	0.000008	14.72%
Ca 227.549	42972.0	35.7	mg/L	0.45	35.7	mg/L	0.45	1.27%
Cd 228.802	21.7	0.00002	mg/L	0.000027	0.00002	mg/L	0.000027	151.48%
Co 228.616	33.6	0.00021	mg/L	0.000008	0.00021	mg/L	0.000008	3.79%
Cr 267.716	288.9	0.00083	mg/L	0.000061	0.00083	mg/L	0.000061	7.27%
Cu 327.396	521.1	0.00130	mg/L	0.000104	0.00130	mg/L	0.000104	8.01%
Fe 261.387	5363.0	0.236	mg/L	0.0015	0.236	mg/L	0.0015	0.65%
Mg 279.079	485002.8	8.27	mg/L	0.057	8.27	mg/L	0.057	0.69%
Mn 257.610	43888.1	0.0222	mg/L	0.00026	0.0222	mg/L	0.00026	1.17%
Mo 202.030	97.4	0.00086	mg/L	0.000064	0.00086	mg/L	0.000064	7.50%
Ni 231.604	101.5	0.00055	mg/L	0.000024	0.00055	mg/L	0.000024	4.38%
Pb 220.353	45.8	0.00157	mg/L	0.000341	0.00157	mg/L	0.000341	21.74%
Sb 206.833	8.0	-0.00010	mg/L	0.000217	-0.00010	mg/L	0.000217	206.78%
Se 196.026	22.3	0.00142	mg/L	0.000131	0.00142	mg/L	0.000131	9.22%
Si 288.158	443364.2	4.40	mg/L	0.022	4.40	mg/L	0.022	0.49%
Sn 189.933	-280.5	-0.00992	mg/L	0.000649	-0.00992	mg/L	0.000649	6.54%
Ti 337.280	6613.5	0.00523	mg/L	0.000174	0.00523	mg/L	0.000174	3.33%
Tl 190.800	3.6	0.0260	mg/L	0.00163	0.0260	mg/L	0.00163	6.27%
V 292.402	218.1	0.00078	mg/L	0.000006	0.00078	mg/L	0.000006	0.72%
Zn 206.200	13592.0	0.0392	mg/L	0.00023	0.0392	mg/L	0.00023	0.58%
K 766.490	30808.0	2.02	mg/L	0.032	2.02	mg/L	0.032	1.58%

Na 589.592	491493.3	12.3 mg/L	0.22	12.3 mg/L	0.22	1.82%
Sr 407.771	295173.3	0.271 mg/L	0.0044	0.271 mg/L	0.0044	1.62%

Sequence No.: 11
Sample ID: 0625102
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 6/14/2001 9:43:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0625102

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3949994.3						18898.17	0.48%
Ag 328.068	353.5	0.00052	mg/L	0.000074	0.00052	mg/L	0.000074	14.16%
Al 237.312	11703.0	0.809	mg/L	0.0001	0.809	mg/L	0.0001	0.01%
As 188.979	158.7	0.00927	mg/L	0.000155	0.00927	mg/L	0.000155	1.67%
Ba 230.424	29786.1	0.0876	mg/L	0.00037	0.0876	mg/L	0.00037	0.43%
Be 234.861	252.7	0.00010	mg/L	0.000002	0.00010	mg/L	0.000002	2.24%
Ca 227.549	48486.2	40.2	mg/L	0.11	40.2	mg/L	0.11	0.26%
Cd 228.802	54.3	0.00007	mg/L	0.000000	0.00007	mg/L	0.000000	0.65%
Co 228.616	111.0	0.00063	mg/L	0.000012	0.00063	mg/L	0.000012	1.91%
Cr 267.716	508.2	0.00153	mg/L	0.000020	0.00153	mg/L	0.000020	1.30%
Cu 327.396	1248.2	0.00312	mg/L	0.000020	0.00312	mg/L	0.000020	0.64%
Fe 261.387	21379.8	0.942	mg/L	0.0014	0.942	mg/L	0.0014	0.15%
Mg 279.079	509242.3	8.68	mg/L	0.034	8.68	mg/L	0.034	0.39%
Mn 257.610	191014.0	0.0972	mg/L	0.00026	0.0972	mg/L	0.00026	0.27%
Mo 202.030	395.0	0.00347	mg/L	0.000030	0.00347	mg/L	0.000030	0.85%
Ni 231.604	304.4	0.00166	mg/L	0.000015	0.00166	mg/L	0.000015	0.91%
Pb 220.353	92.4	0.00321	mg/L	0.000211	0.00321	mg/L	0.000211	6.57%
Sb 206.833	-12.4	-0.00102	mg/L	0.000164	-0.00102	mg/L	0.000164	16.04%
Se 196.026	28.3	0.00176	mg/L	0.000270	0.00176	mg/L	0.000270	15.37%
Si 288.158	406871.8	4.04	mg/L	0.016	4.04	mg/L	0.016	0.40%
Sn 189.933	-321.2	-0.0114	mg/L	0.00018	-0.0114	mg/L	0.00018	1.59%
Ti 337.280	24720.2	0.0164	mg/L	0.00011	0.0164	mg/L	0.00011	0.67%
Tl 190.800	3.2	0.0228	mg/L	0.00951	0.0228	mg/L	0.00951	41.65%
V 292.402	1013.4	0.00363	mg/L	0.000005	0.00363	mg/L	0.000005	0.15%
Zn 206.200	3016.7	0.00853	mg/L	0.000016	0.00853	mg/L	0.000016	0.19%
K 766.490	57905.8	3.81	mg/L	0.018	3.81	mg/L	0.018	0.48%
Na 589.592	358337.8	8.95	mg/L	0.067	8.95	mg/L	0.067	0.75%
Sr 407.771	413720.4	0.380	mg/L	0.0027	0.380	mg/L	0.0027	0.71%

Sequence No.: 12
Sample ID: 0625303 WG99333-02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 6/14/2001 9:48:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0625303 WG99333-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3816680.1						10979.28	0.29%
Ag 328.068	232.0	0.00034	mg/L	0.000046	0.00034	mg/L	0.000046	13.23%
Al 237.312	155.6	0.00911	mg/L	0.000366	0.00911	mg/L	0.000366	4.02%
As 188.979	-6.9	-0.00035	mg/L	0.000033	-0.00035	mg/L	0.000033	9.36%
Ba 230.424	13645.2	0.0401	mg/L	0.00042	0.0401	mg/L	0.00042	1.05%
Be 234.861	95.2	0.00006	mg/L	0.000001	0.00006	mg/L	0.000001	1.92%
Ca 227.549	28071.8	23.3	mg/L	0.14	23.3	mg/L	0.14	0.59%
Cd 228.802	80.4	0.00017	mg/L	0.000001	0.00017	mg/L	0.000001	0.38%
Co 228.616	61.4	0.00036	mg/L	0.000051	0.00036	mg/L	0.000051	14.08%
Cr 267.716	1873.7	0.00552	mg/L	0.000082	0.00552	mg/L	0.000082	1.48%
Cu 327.396	439.1	0.00110	mg/L	0.000089	0.00110	mg/L	0.000089	8.11%
Fe 261.387	969.6	0.0467	mg/L	0.00014	0.0467	mg/L	0.00014	0.31%
Mg 279.079	725378.7	12.4	mg/L	0.01	12.4	mg/L	0.01	0.07%
Mn 257.610	262558.6	0.134	mg/L	0.0009	0.134	mg/L	0.0009	0.65%
Mo 202.030	64.9	0.00057	mg/L	0.000020	0.00057	mg/L	0.000020	3.49%
Ni 231.604	3430.0	0.0186	mg/L	0.00021	0.0186	mg/L	0.00021	1.15%
Pb 220.353	202.0	0.00682	mg/L	0.000114	0.00682	mg/L	0.000114	1.67%

Sb 206.833	21.2	0.00029 mg/L	0.000273	0.00029 mg/L	0.000273	95.20%
Se 196.026	34.1	0.00220 mg/L	0.000758	0.00220 mg/L	0.000758	34.49%
Si 288.158	823840.6	8.15 mg/L	0.002	8.15 mg/L	0.002	0.03%
Sn 189.933	-287.9	-0.0103 mg/L	0.00030	-0.0103 mg/L	0.00030	2.94%
Ti 337.280	717.5	0.00169 mg/L	0.000035	0.00169 mg/L	0.000035	2.07%
Tl 190.800	2.3	0.0169 mg/L	0.00632	0.0169 mg/L	0.00632	37.38%
V 292.402	80.7	0.00029 mg/L	0.000000	0.00029 mg/L	0.000000	0.06%
Zn 206.200	19028.5	0.0549 mg/L	0.00017	0.0549 mg/L	0.00017	0.31%
K 766.490	57840.5	3.80 mg/L	0.008	3.80 mg/L	0.008	0.20%
Na 589.592	240809.6	6.02 mg/L	0.021	6.02 mg/L	0.021	0.35%
Sr 407.771	111771.3	0.104 mg/L	0.0001	0.104 mg/L	0.0001	0.11%

Sequence No.: 13
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 9:52:54 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4127082.1						57016.61	1.38%
Ag 328.068	258873.9	0.384	mg/L	0.0032	0.384	mg/L	0.0032	0.84%
QC value within limits for Ag 328.068 Recovery = 96.09%								
Al 237.312	146511.9	10.1	mg/L	0.09	10.1	mg/L	0.09	0.92%
QC value within limits for Al 237.312 Recovery = 101.03%								
As 188.979	6686.2	0.390	mg/L	0.0014	0.390	mg/L	0.0014	0.35%
QC value within limits for As 188.979 Recovery = 97.50%								
Ba 230.424	352374.4	1.03	mg/L	0.009	1.03	mg/L	0.009	0.90%
QC value within limits for Ba 230.424 Recovery = 103.16%								
Be 234.861	79931.1	0.0515	mg/L	0.00050	0.0515	mg/L	0.00050	0.98%
QC value within limits for Be 234.861 Recovery = 102.94%								
Ca 227.549	12470.4	10.2	mg/L	0.00	10.2	mg/L	0.00	0.04%
QC value within limits for Ca 227.549 Recovery = 102.30%								
Cd 228.802	20465.9	0.0496	mg/L	0.00002	0.0496	mg/L	0.00002	0.04%
QC value within limits for Cd 228.802 Recovery = 99.18%								
Co 228.616	37691.9	0.208	mg/L	0.0017	0.208	mg/L	0.0017	0.82%
QC value within limits for Co 228.616 Recovery = 104.03%								
Cr 267.716	172584.4	0.520	mg/L	0.0056	0.520	mg/L	0.0056	1.08%
QC value within limits for Cr 267.716 Recovery = 104.03%								
Cu 327.396	205105.1	0.513	mg/L	0.0040	0.513	mg/L	0.0040	0.78%
QC value within limits for Cu 327.396 Recovery = 102.70%								
Fe 261.387	92180.1	4.09	mg/L	0.043	4.09	mg/L	0.043	1.05%
QC value within limits for Fe 261.387 Recovery = 102.25%								
Mg 279.079	589541.9	10.0	mg/L	0.09	10.0	mg/L	0.09	0.92%
QC value within limits for Mg 279.079 Recovery = 100.44%								
Mn 257.610	1006616.5	0.513	mg/L	0.0048	0.513	mg/L	0.0048	0.94%
QC value within limits for Mn 257.610 Recovery = 102.53%								
Mo 202.030	115486.3	1.02	mg/L	0.009	1.02	mg/L	0.009	0.88%
QC value within limits for Mo 202.030 Recovery = 102.17%								
Ni 231.604	95694.0	0.519	mg/L	0.0051	0.519	mg/L	0.0051	0.99%
QC value within limits for Ni 231.604 Recovery = 103.72%								
Pb 220.353	14883.5	0.507	mg/L	0.0015	0.507	mg/L	0.0015	0.29%
QC value within limits for Pb 220.353 Recovery = 101.33%								
Sb 206.833	35524.3	1.20	mg/L	0.002	1.20	mg/L	0.002	0.13%
QC value within limits for Sb 206.833 Recovery = 99.45%								
Se 196.026	6159.9	0.395	mg/L	0.0001	0.395	mg/L	0.0001	0.02%
QC value within limits for Se 196.026 Recovery = 98.85%								
Si 288.158	521572.3	5.16	mg/L	0.040	5.16	mg/L	0.040	0.77%
QC value within limits for Si 288.158 Recovery = 103.19%								
Sn 189.933	26301.3	0.969	mg/L	0.0103	0.969	mg/L	0.0103	1.06%
QC value within limits for Sn 189.933 Recovery = 97.09%								
Ti 337.280	1711152.2	1.01	mg/L	0.008	1.01	mg/L	0.008	0.78%
QC value within limits for Ti 337.280 Recovery = 100.69%								
Tl 190.800	63.4	0.459	mg/L	0.0100	0.459	mg/L	0.0100	2.17%
QC value within limits for Tl 190.800 Recovery = 91.83%								
V 292.402	288917.5	1.02	mg/L	0.007	1.02	mg/L	0.007	0.69%
QC value within limits for V 292.402 Recovery = 101.89%								
Zn 206.200	346361.6	1.00	mg/L	0.010	1.00	mg/L	0.010	1.05%

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QC value within limits for Zn 206.200 Recovery = 100.07%

K 766.490	727653.4	48.2 mg/L	0.25	48.2 mg/L	0.25	0.52%

QC value within limits for K 766.490 Recovery = 96.44%

Na 589.592	1933077.0	48.3 mg/L	0.24	48.3 mg/L	0.24	0.50%

QC value within limits for Na 589.592 Recovery = 96.60%

Sr 407.771	1063644.0	0.973 mg/L	0.0076	0.973 mg/L	0.0076	0.79%

QC value within limits for Sr 407.771 Recovery = 97.34%

All analytes passed QC.

Sequence No.: 14 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 9:57:48 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	3722056.5						52924.95	1.42%
Ag 328.068	61.5	0.00009	mg/L	0.000205	0.00009	mg/L	0.000205	224.40%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	28.4	0.00200	mg/L	0.000262	0.00200	mg/L	0.000262	13.10%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-6.2	-0.00037	mg/L	0.000049	-0.00037	mg/L	0.000049	13.34%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	29.2	0.00008	mg/L	0.000016	0.00008	mg/L	0.000016	19.38%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	11.4	0.00001	mg/L	0.000002	0.00001	mg/L	0.000002	25.02%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	4.8	0.00384	mg/L	0.004419	0.00384	mg/L	0.004419	115.17%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-6.4	-0.00002	mg/L	0.000015	-0.00002	mg/L	0.000015	98.08%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	6.4	0.00004	mg/L	0.000039	0.00004	mg/L	0.000039	106.89%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	31.5	0.00009	mg/L	0.000007	0.00009	mg/L	0.000007	7.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-12.8	-0.00003	mg/L	0.000025	-0.00003	mg/L	0.000025	76.47%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	155.9	0.00685	mg/L	0.001175	0.00685	mg/L	0.001175	17.14%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	21.6	0.00037	mg/L	0.000194	0.00037	mg/L	0.000194	52.61%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	9.5	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	88.55%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	100.1	0.00088	mg/L	0.000066	0.00088	mg/L	0.000066	7.48%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	25.0	0.00014	mg/L	0.000043	0.00014	mg/L	0.000043	31.42%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-7.1	-0.00024	mg/L	0.000019	-0.00024	mg/L	0.000019	7.96%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-0.7	-0.00002	mg/L	0.000139	-0.00002	mg/L	0.000139	642.47%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	16.8	0.00108	mg/L	0.000176	0.00108	mg/L	0.000176	16.31%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	108.4	0.00107	mg/L	0.000071	0.00107	mg/L	0.000071	6.63%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	80.1	0.00294	mg/L	0.000234	0.00294	mg/L	0.000234	7.99%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-15.8	-0.00001	mg/L	0.000023	-0.00001	mg/L	0.000023	260.66%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	1.5	0.0112	mg/L	0.00173	0.0112	mg/L	0.00173	15.45%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	-47.9	-0.00017	mg/L	0.000070	-0.00017	mg/L	0.000070	41.32%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-527.0	-0.00152	mg/L	0.000005	-0.00152	mg/L	0.000005	0.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	600.6	0.0398	mg/L	0.01164	0.0398	mg/L	0.01164	29.22%
QC value within limits for K 766.490 Recovery = Not calculated								

Na 589.592	3336.0	0.0834 mg/L	0.00113	0.0834 mg/L	0.00113	1.35%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-44.3	0.00176 mg/L	0.000017	0.00176 mg/L	0.000017	0.95%
QC value within limits for Sr 407.771 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 15 **Autosampler Location: 38**
Sample ID: 0625303SDL.2 **Date Collected: 6/14/2001 10:02:38 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: 5X **Data Type: Original**

Mean Data: 0625303SDL.2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3781365.1						29808.27	0.79%
Ag 328.068	131.3	0.00019	mg/L	0.000020	0.00097	mg/L	0.000100	10.23%
Al 237.312	62.7	0.00411	mg/L	0.000029	0.0205	mg/L	0.00015	0.71%
As 188.979	-1.6	-0.00008	mg/L	0.000264	-0.00042	mg/L	0.001319	310.37%
Ba 230.424	2710.6	0.00797	mg/L	0.000040	0.0399	mg/L	0.00020	0.51%
Be 234.861	20.0	0.00001	mg/L	0.000004	0.00006	mg/L	0.000018	31.59%
Ca 227.549	5347.4	4.44	mg/L	0.007	22.2	mg/L	0.04	0.16%
Cd 228.802	13.9	0.00003	mg/L	0.000016	0.00015	mg/L	0.000079	54.36%
Co 228.616	18.1	0.00011	mg/L	0.000002	0.00053	mg/L	0.000010	1.89%
Cr 267.716	471.1	0.00139	mg/L	0.000006	0.00695	mg/L	0.000032	0.46%
Cu 327.396	115.0	0.00029	mg/L	0.000027	0.00144	mg/L	0.000137	9.53%
Fe 261.387	500.8	0.0228	mg/L	0.00016	0.114	mg/L	0.0008	0.70%
Mg 279.079	140580.6	2.40	mg/L	0.021	12.0	mg/L	0.11	0.89%
Mn 257.610	52612.9	0.0268	mg/L	0.00030	0.134	mg/L	0.0015	1.11%
Mo 202.030	69.0	0.00061	mg/L	0.000005	0.00304	mg/L	0.000026	0.85%
Ni 231.604	731.4	0.00396	mg/L	0.000050	0.0198	mg/L	0.00025	1.26%
Pb 220.353	46.9	0.00159	mg/L	0.000356	0.00793	mg/L	0.001778	22.42%
Sb 206.833	-0.8	-0.00012	mg/L	0.000067	-0.00058	mg/L	0.000333	57.08%
Se 196.026	10.1	0.00065	mg/L	0.000164	0.00324	mg/L	0.000821	25.35%
Si 288.158	158552.1	1.57	mg/L	0.009	7.84	mg/L	0.043	0.55%
Sn 189.933	-99.9	-0.00362	mg/L	0.000050	-0.0181	mg/L	0.00025	1.37%
Ti 337.280	36.8	0.00027	mg/L	0.000021	0.00134	mg/L	0.000104	7.73%
Tl 190.800	1.9	0.0141	mg/L	0.00136	0.0704	mg/L	0.00678	9.62%
V 292.402	-4.9	-0.00002	mg/L	0.000139	-0.00008	mg/L	0.000696	889.83%
Zn 206.200	6894.4	0.0199	mg/L	0.00027	0.0995	mg/L	0.00137	1.37%
K 766.490	11271.9	0.740	mg/L	0.0005	3.70	mg/L	0.002	0.07%
Na 589.592	48392.5	1.21	mg/L	0.017	6.05	mg/L	0.083	1.37%
Sr 407.771	21647.6	0.0216	mg/L	0.00024	0.108	mg/L	0.0012	1.13%

Duplicate Check: 0625303SDL.2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0169	0.0704	0.007	mg/L	122.6
K 766.490	3.80	3.70	0.002	mg/L	2.6
Na 589.592	6.02	6.05	0.083	mg/L	0.5
Sr 407.771	0.104	0.108	0.001	mg/L	3.7
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00034	0.00097	0.000	mg/L	95.5
Al 237.312	0.00911	0.0205	0.000	mg/L	77.2
As 188.979	-0.00035	-0.00042	0.001	mg/L	-19.6
Ba 230.424	0.0401	0.0399	0.000	mg/L	0.7
Be 234.861	0.00006	0.00006	0.000	mg/L	1.6
Ca 227.549	23.3	22.2	0.035	mg/L	4.9
Cd 228.802	0.00017	0.00015	0.000	mg/L	16.3
Co 228.616	0.00036	0.00053	0.000	mg/L	37.6
Cr 267.716	0.00552	0.00695	0.000	mg/L	23.0
Cu 327.396	0.00110	0.00144	0.000	mg/L	26.8
Fe 261.387	0.0467	0.114	0.001	mg/L	83.9
Mg 279.079	12.4	12.0	0.107	mg/L	3.1
Mn 257.610	0.134	0.134	0.001	mg/L	0.2
Mo 202.030	0.00057	0.00304	0.000	mg/L	136.7
Ni 231.604	0.0186	0.0198	0.000	mg/L	6.4
Pb 220.353	0.00682	0.00793	0.002	mg/L	15.0

Sb 206.833	0.00029	-0.00058	0.000	mg/L	-586.5
Se 196.026	0.00220	0.00324	0.001	mg/L	38.3
Si 288.158	8.15	7.84	0.043	mg/L	3.8
Sn 189.933	-0.0103	-0.0181	0.000	mg/L	-54.7
Ti 337.280	0.00169	0.00134	0.000	mg/L	22.7
V 292.402	0.00029	-0.00008	0.001	mg/L	349.5
Zn 206.200	0.0549	0.0995	0.001	mg/L	57.8

Sequence No.: 16 **Autosampler Location: 39**
Sample ID: 0625303PS.9 **Date Collected: 6/14/2001 10:07:30 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0625303PS.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3939348.5						61997.01	1.57%
Ag 328.068	131963.7	0.196	mg/L	0.0027	0.196	mg/L	0.0027	1.38%
Al 237.312	144975.9	9.97	mg/L	0.123	9.97	mg/L	0.123	1.23%
As 188.979	16080.6	0.946	mg/L	0.0046	0.946	mg/L	0.0046	0.48%
Ba 230.424	3028741.8	8.89	mg/L	0.097	8.89	mg/L	0.097	1.09%
Be 234.861	1481117.4	0.957	mg/L	0.0117	0.957	mg/L	0.0117	1.22%
Ca 227.549	35204.1	29.2	mg/L	0.21	29.2	mg/L	0.21	0.72%
Cd 228.802	381267.5	0.950	mg/L	0.0128	0.950	mg/L	0.0128	1.35%
Co 228.616	164609.7	0.913	mg/L	0.0095	0.913	mg/L	0.0095	1.04%
Cr 267.716	314798.2	0.942	mg/L	0.0108	0.942	mg/L	0.0108	1.15%
Cu 327.396	378323.4	0.947	mg/L	0.0127	0.947	mg/L	0.0127	1.34%
Fe 261.387	17799.2	0.909	mg/L	0.0080	0.909	mg/L	0.0080	0.88%
Mg 279.079	1251343.9	21.3	mg/L	0.26	21.3	mg/L	0.26	1.22%
Mn 257.610	2104868.2	1.07	mg/L	0.013	1.07	mg/L	0.013	1.22%
Mo 202.030	105336.6	0.927	mg/L	0.0100	0.927	mg/L	0.0100	1.08%
Ni 231.604	171522.3	0.929	mg/L	0.0119	0.929	mg/L	0.0119	1.28%
Pb 220.353	27574.5	0.935	mg/L	0.0026	0.935	mg/L	0.0026	0.27%
Sb 206.833	28412.3	0.946	mg/L	0.0049	0.946	mg/L	0.0049	0.52%
Se 196.026	13799.5	0.888	mg/L	0.0036	0.888	mg/L	0.0036	0.40%
Si 288.158	1683508.3	16.6	mg/L	0.21	16.6	mg/L	0.21	1.26%
Sn 189.933	-396.1	-0.00922	mg/L	0.000732	-0.00922	mg/L	0.000732	7.95%
Ti 337.280	1650762.3	0.974	mg/L	0.0122	0.974	mg/L	0.0122	1.25%
Tl 190.800	122.4	0.887	mg/L	0.0073	0.887	mg/L	0.0073	0.82%
V 292.402	267265.3	0.942	mg/L	0.0111	0.942	mg/L	0.0111	1.18%
Zn 206.200	335500.7	0.970	mg/L	0.0100	0.970	mg/L	0.0100	1.03%
K 766.490	770918.6	51.1	mg/L	0.44	51.1	mg/L	0.44	0.87%
Na 589.592	2112141.9	52.8	mg/L	0.39	52.8	mg/L	0.39	0.73%
Sr 407.771	1135570.4	1.04	mg/L	0.004	1.04	mg/L	0.004	0.40%

Recovery Check: 0625303PS.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.887	0.007	mg/L	87.0
K 766.490	53.8	51.1	0.443	mg/L	94.5
Na 589.592	56.0	52.8	0.386	mg/L	93.5
Sr 407.771	1.10	1.04	0.004	mg/L	93.5
Ag 328.068	0.200	0.196	0.003	mg/L	97.8
Al 237.312	10.0	9.97	0.123	mg/L	99.6
As 188.979	1.000	0.946	0.005	mg/L	94.6
Ba 230.424	10.0	8.89	0.097	mg/L	88.5
Be 234.861	1.00	0.957	0.012	mg/L	95.7
Ca 227.549	33.3	29.2	0.209	mg/L	58.7
Cd 228.802	1.00	0.950	0.013	mg/L	95.0
Co 228.616	1.00	0.913	0.010	mg/L	91.2
Cr 267.716	1.01	0.942	0.011	mg/L	93.7
Cu 327.396	1.00	0.947	0.013	mg/L	94.6
Fe 261.387	1.05	0.909	0.008	mg/L	86.2
Mg 279.079	22.4	21.3	0.261	mg/L	89.6
Mn 257.610	1.13	1.07	0.013	mg/L	93.9
Mo 202.030	0.996	0.927	0.010	mg/L	93.1
Ni 231.604	1.02	0.929	0.012	mg/L	91.1

Pb 220.353	1.01	0.935	0.003	mg/L	92.8
Sb 206.833	1.20	0.946	0.005	mg/L	78.6
Se 196.026	1.00	0.888	0.004	mg/L	88.6
Si 288.158	18.1	16.6	0.210	mg/L	85.0
Sn 189.933	0.988	-0.00922	0.001	mg/L	0.1
Ti 337.280	1.00	0.974	0.012	mg/L	97.3
V 292.402	1.00	0.942	0.011	mg/L	94.2
Zn 206.200	1.05	0.970	0.010	mg/L	91.5

Sequence No.: 17 **Autosampler Location: 40**
Sample ID: 0625303DP WG99333-07 **Date Collected: 6/14/2001 10:11:46 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0625303DP WG99333-07

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3896884.8						20531.60	0.53%
Ag 328.068	275.2	0.00041	mg/L	0.000060	0.00041	mg/L	0.000060	14.74%
Al 237.312	15.2	-0.00057	mg/L	0.001777	-0.00057	mg/L	0.001777	314.06%
As 188.979	-4.7	-0.00023	mg/L	0.000250	-0.00023	mg/L	0.000250	110.67%
Ba 230.424	13427.5	0.0395	mg/L	0.00023	0.0395	mg/L	0.00023	0.58%
Be 234.861	94.1	0.00006	mg/L	0.000004	0.00006	mg/L	0.000004	6.77%
Ca 227.549	27812.2	23.1	mg/L	0.23	23.1	mg/L	0.23	1.00%
Cd 228.802	37.5	0.00006	mg/L	0.000007	0.00006	mg/L	0.000007	10.63%
Co 228.616	62.6	0.00037	mg/L	0.000033	0.00037	mg/L	0.000033	8.93%
Cr 267.716	1938.8	0.00571	mg/L	0.000008	0.00571	mg/L	0.000008	0.14%
Cu 327.396	590.3	0.00148	mg/L	0.000009	0.00148	mg/L	0.000009	0.63%
Fe 261.387	895.1	0.0433	mg/L	0.00030	0.0433	mg/L	0.00030	0.68%
Mg 279.079	728597.0	12.4	mg/L	0.12	12.4	mg/L	0.12	1.00%
Mn 257.610	258429.6	0.132	mg/L	0.0016	0.132	mg/L	0.0016	1.20%
Mo 202.030	224.7	0.00198	mg/L	0.000079	0.00198	mg/L	0.000079	3.97%
Ni 231.604	3438.4	0.0186	mg/L	0.00001	0.0186	mg/L	0.00001	0.08%
Pb 220.353	48.3	0.00164	mg/L	0.000204	0.00164	mg/L	0.000204	12.48%
Sb 206.833	14.3	0.00006	mg/L	0.000256	0.00006	mg/L	0.000256	457.41%
Se 196.026	46.1	0.00297	mg/L	0.000717	0.00297	mg/L	0.000717	24.14%
Si 288.158	823497.4	8.14	mg/L	0.071	8.14	mg/L	0.071	0.88%
Sn 189.933	-270.7	-0.00969	mg/L	0.000160	-0.00969	mg/L	0.000160	1.65%
Ti 337.280	815.9	0.00172	mg/L	0.000001	0.00172	mg/L	0.000001	0.08%
Tl 190.800	3.0	0.0219	mg/L	0.01367	0.0219	mg/L	0.01367	62.30%
V 292.402	128.3	0.00046	mg/L	0.000030	0.00046	mg/L	0.000030	6.60%
Zn 206.200	4469.6	0.0128	mg/L	0.00003	0.0128	mg/L	0.00003	0.22%
K 766.490	57643.1	3.78	mg/L	0.080	3.78	mg/L	0.080	2.10%
Na 589.592	237504.5	5.93	mg/L	0.158	5.93	mg/L	0.158	2.66%
Sr 407.771	109986.4	0.102	mg/L	0.0022	0.102	mg/L	0.0022	2.19%

Duplicate Check: 0625303DP WG99333-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.0169	0.0219	0.014	mg/L	26.0
K 766.490	3.80	3.78	0.080	mg/L	0.3
Na 589.592	6.02	5.93	0.158	mg/L	1.4
Sr 407.771	0.104	0.102	0.002	mg/L	1.6
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00034	0.00041	0.000	mg/L	17.0
Al 237.312	0.00911	-0.00057	0.002	mg/L	226.5
As 188.979	-0.00035	-0.00023	0.000	mg/L	-43.1
Ba 230.424	0.0401	0.0395	0.000	mg/L	1.6
Be 234.861	0.00006	0.00006	0.000	mg/L	0.4
Ca 227.549	23.3	23.1	0.232	mg/L	0.9
Cd 228.802	0.00017	0.00006	0.000	mg/L	91.0
Co 228.616	0.00036	0.00037	0.000	mg/L	2.0
Cr 267.716	0.00552	0.00571	0.000	mg/L	3.5
Cu 327.396	0.00110	0.00148	0.000	mg/L	29.4
Fe 261.387	0.0467	0.0433	0.000	mg/L	7.4
Mg 279.079	12.4	12.4	0.124	mg/L	0.4
Mn 257.610	0.134	0.132	0.002	mg/L	1.6

Mo 202.030	0.00057	0.00198	0.000	mg/L	110.3
Ni 231.604	0.0186	0.0186	0.000	mg/L	0.2
Pb 220.353	0.00682	0.00164	0.000	mg/L	122.6
Sb 206.833	0.00029	0.00006	0.000	mg/L	134.7
Se 196.026	0.00220	0.00297	0.001	mg/L	29.9
Si 288.158	8.15	8.14	0.071	mg/L	0.0
Sn 189.933	-0.0103	-0.00969	0.000	mg/L	-6.3
Ti 337.280	0.00169	0.00172	0.000	mg/L	2.2
V 292.402	0.00029	0.00046	0.000	mg/L	45.2
Zn 206.200	0.0549	0.0128	0.000	mg/L	124.3

Sequence No.: 18 **Autosampler Location: 41**
Sample ID: 0625701 **Date Collected: 6/14/2001 10:16:39 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0625701

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3983817.2						14283.81	0.36%
Ag 328.068	399.0	0.00059	mg/L	0.000117	0.00059	mg/L	0.000117	19.73%
Al 237.312	-3.8	-0.00212	mg/L	0.000700	-0.00212	mg/L	0.000700	33.07%
As 188.979	1.5	0.00010	mg/L	0.000406	0.00010	mg/L	0.000406	424.65%
Ba 230.424	9850.3	0.0291	mg/L	0.00002	0.0291	mg/L	0.00002	0.07%
Be 234.861	53.7	0.00003	mg/L	0.000002	0.00003	mg/L	0.000002	7.62%
Ca 227.549	49025.4	40.7	mg/L	0.15	40.7	mg/L	0.15	0.36%
Cd 228.802	7931.9	0.0198	mg/L	0.00002	0.0198	mg/L	0.00002	0.11%
Co 228.616	37.9	0.00024	mg/L	0.000013	0.00024	mg/L	0.000013	5.45%
Cr 267.716	465.1	0.00136	mg/L	0.000119	0.00136	mg/L	0.000119	8.68%
Cu 327.396	2292.2	0.00574	mg/L	0.000235	0.00574	mg/L	0.000235	4.10%
Fe 261.387	1700.8	0.0748	mg/L	0.00002	0.0748	mg/L	0.00002	0.02%
Mg 279.079	358676.5	6.11	mg/L	0.016	6.11	mg/L	0.016	0.26%
Mn 257.610	4469.2	0.00214	mg/L	0.000002	0.00214	mg/L	0.000002	0.09%
Mo 202.030	178.6	0.00157	mg/L	0.000040	0.00157	mg/L	0.000040	2.55%
Ni 231.604	640.4	0.00347	mg/L	0.000043	0.00347	mg/L	0.000043	1.23%
Pb 220.353	68.6	0.00232	mg/L	0.000122	0.00232	mg/L	0.000122	5.28%
Sb 206.833	20.1	0.00035	mg/L	0.000171	0.00035	mg/L	0.000171	49.00%
Se 196.026	38.6	0.00249	mg/L	0.000065	0.00249	mg/L	0.000065	2.63%
Si 288.158	295899.0	2.94	mg/L	0.005	2.94	mg/L	0.005	0.18%
Sn 189.933	-331.8	-0.0118	mg/L	0.00042	-0.0118	mg/L	0.00042	3.56%
Ti 337.280	332.0	0.00169	mg/L	0.000040	0.00169	mg/L	0.000040	2.35%
Tl 190.800	3.9	0.0284	mg/L	0.00088	0.0284	mg/L	0.00088	3.10%
V 292.402	384.6	0.00136	mg/L	0.000017	0.00136	mg/L	0.000017	1.26%
Zn 206.200	294078.9	0.850	mg/L	0.0005	0.850	mg/L	0.0005	0.06%
K 766.490	36508.5	2.40	mg/L	0.012	2.40	mg/L	0.012	0.52%
Na 589.592	2254300.0	56.3	mg/L	1.02	56.3	mg/L	1.02	1.80%
Sr 407.771	236683.7	0.218	mg/L	0.0034	0.218	mg/L	0.0034	1.58%

Sequence No.: 19 **Autosampler Location: 42**
Sample ID: 0625702 **Date Collected: 6/14/2001 10:21:36 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0625702

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3902245.9						45372.66	1.16%
Ag 328.068	562.3	0.00083	mg/L	0.000051	0.00083	mg/L	0.000051	6.08%
Al 237.312	1854.7	0.125	mg/L	0.0006	0.125	mg/L	0.0006	0.50%
As 188.979	-0.0	0.00001	mg/L	0.000384	0.00001	mg/L	0.000384	>999.9%
Ba 230.424	14732.2	0.0435	mg/L	0.00021	0.0435	mg/L	0.00021	0.47%
Be 234.861	183.2	0.00010	mg/L	0.000002	0.00010	mg/L	0.000002	1.78%
Ca 227.549	76374.0	63.4	mg/L	0.43	63.4	mg/L	0.43	0.67%
Cd 228.802	30036.6	0.0750	mg/L	0.00069	0.0750	mg/L	0.00069	0.92%
Co 228.616	97.6	0.00058	mg/L	0.000042	0.00058	mg/L	0.000042	7.23%

Cr 267.716	736.5	0.00215 mg/L	0.000021	0.00215 mg/L	0.000021	0.99%
Cu 327.396	1693.1	0.00424 mg/L	0.000019	0.00424 mg/L	0.000019	0.45%
Fe 261.387	5434.1	0.243 mg/L	0.0020	0.243 mg/L	0.0020	0.82%
Mg 279.079	753723.9	12.9 mg/L	0.14	12.9 mg/L	0.14	1.11%
Mn 257.610	271789.3	0.138 mg/L	0.0009	0.138 mg/L	0.0009	0.68%
Mo 202.030	269.4	0.00237 mg/L	0.000042	0.00237 mg/L	0.000042	1.79%
Ni 231.604	2025.4	0.0110 mg/L	0.00008	0.0110 mg/L	0.00008	0.76%
Pb 220.353	105.5	0.00358 mg/L	0.000109	0.00358 mg/L	0.000109	3.04%
Sb 206.833	13.7	-0.00017 mg/L	0.000006	-0.00017 mg/L	0.000006	3.65%
Se 196.026	59.0	0.00379 mg/L	0.000053	0.00379 mg/L	0.000053	1.40%
Si 288.158	399203.8	3.97 mg/L	0.057	3.97 mg/L	0.057	1.44%
Sn 189.933	-357.3	-0.0125 mg/L	0.00047	-0.0125 mg/L	0.00047	3.80%
Ti 337.280	3406.9	0.00489 mg/L	0.000001	0.00489 mg/L	0.000001	0.02%
Tl 190.800	3.9	0.0285 mg/L	0.00679	0.0285 mg/L	0.00679	23.83%
V 292.402	749.4	0.00266 mg/L	0.000033	0.00266 mg/L	0.000033	1.25%
Zn 206.200	553746.2	1.60 mg/L	0.009	1.60 mg/L	0.009	0.57%
K 766.490	65229.0	4.29 mg/L	0.020	4.29 mg/L	0.020	0.47%
Na 589.592	4129966.8	103 mg/L	0.8	103 mg/L	0.8	0.82%
Sr 407.771	355428.3	0.326 mg/L	0.0065	0.326 mg/L	0.0065	2.00%

Sequence No.: 20
Sample ID: 0625801
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/14/2001 10:26:35 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625801

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3820582.2						9003.18	0.24%
Ag 328.068	504.1	0.00075	mg/L	0.000025	0.00075	mg/L	0.000025	3.36%
Al 237.312	336.5	0.0209	mg/L	0.00022	0.0209	mg/L	0.00022	1.05%
As 188.979	-2.8	-0.00015	mg/L	0.000224	-0.00015	mg/L	0.000224	144.74%
Ba 230.424	10402.6	0.0308	mg/L	0.00013	0.0308	mg/L	0.00013	0.42%
Be 234.861	86.8	0.00005	mg/L	0.000018	0.00005	mg/L	0.000018	38.18%
Ca 227.549	67353.3	55.9	mg/L	0.39	55.9	mg/L	0.39	0.70%
Cd 228.802	59.0	0.00010	mg/L	0.000007	0.00010	mg/L	0.000007	7.61%
Co 228.616	37.8	0.00025	mg/L	0.000017	0.00025	mg/L	0.000017	6.85%
Cr 267.716	402.7	0.00117	mg/L	0.000024	0.00117	mg/L	0.000024	2.08%
Cu 327.396	589.1	0.00148	mg/L	0.000121	0.00148	mg/L	0.000121	8.17%
Fe 261.387	3467.3	0.154	mg/L	0.0008	0.154	mg/L	0.0008	0.50%
Mg 279.079	508850.4	8.67	mg/L	0.044	8.67	mg/L	0.044	0.50%
Mn 257.610	117389.5	0.0597	mg/L	0.00055	0.0597	mg/L	0.00055	0.92%
Mo 202.030	127.2	0.00112	mg/L	0.000016	0.00112	mg/L	0.000016	1.40%
Ni 231.604	2245.5	0.0122	mg/L	0.00002	0.0122	mg/L	0.00002	0.20%
Pb 220.353	52.2	0.00177	mg/L	0.000052	0.00177	mg/L	0.000052	2.91%
Sb 206.833	8.1	-0.00021	mg/L	0.000324	-0.00021	mg/L	0.000324	155.48%
Se 196.026	24.0	0.00155	mg/L	0.000365	0.00155	mg/L	0.000365	23.62%
Si 288.158	482676.9	4.79	mg/L	0.032	4.79	mg/L	0.032	0.68%
Sn 189.933	-371.1	-0.0130	mg/L	0.00015	-0.0130	mg/L	0.00015	1.12%
Ti 337.280	198.0	0.00243	mg/L	0.000025	0.00243	mg/L	0.000025	1.05%
Tl 190.800	2.2	0.0158	mg/L	0.00163	0.0158	mg/L	0.00163	10.32%
V 292.402	355.9	0.00127	mg/L	0.000029	0.00127	mg/L	0.000029	2.25%
Zn 206.200	10381.2	0.0299	mg/L	0.00035	0.0299	mg/L	0.00035	1.18%
K 766.490	37709.3	2.47	mg/L	0.018	2.47	mg/L	0.018	0.72%
Na 589.592	825244.9	20.6	mg/L	0.01	20.6	mg/L	0.01	0.02%
Sr 407.771	258442.0	0.238	mg/L	0.0005	0.238	mg/L	0.0005	0.22%

Sequence No.: 21
Sample ID: 0625802
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/14/2001 10:31:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625802

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 360.073	3756293.2					17827.08	0.47%
Ag 328.068	282.2	0.00042	mg/L	0.000063	0.00042 mg/L	0.000063	15.03%
Al 237.312	439.5	0.0288	mg/L	0.00131	0.0288 mg/L	0.00131	4.57%
As 188.979	-2.1	-0.00012	mg/L	0.000052	-0.00012 mg/L	0.000052	43.30%
Ba 230.424	9465.3	0.0279	mg/L	0.00001	0.0279 mg/L	0.00001	0.04%
Be 234.861	48.6	0.00003	mg/L	0.000011	0.00003 mg/L	0.000011	43.40%
Ca 227.549	40187.9	33.4	mg/L	0.06	33.4 mg/L	0.06	0.18%
Cd 228.802	69.2	0.00014	mg/L	0.000008	0.00014 mg/L	0.000008	5.50%
Co 228.616	920.8	0.00513	mg/L	0.000026	0.00513 mg/L	0.000026	0.51%
Cr 267.716	319.9	0.00093	mg/L	0.000009	0.00093 mg/L	0.000009	0.92%
Cu 327.396	1958.3	0.00491	mg/L	0.000210	0.00491 mg/L	0.000210	4.28%
Fe 261.387	1820.9	0.0815	mg/L	0.00051	0.0815 mg/L	0.00051	0.62%
Mg 279.079	357849.9	6.10	mg/L	0.030	6.10 mg/L	0.030	0.49%
Mn 257.610	61602.1	0.0313	mg/L	0.00014	0.0313 mg/L	0.00014	0.44%
Mo 202.030	161.7	0.00142	mg/L	0.000051	0.00142 mg/L	0.000051	3.59%
Ni 231.604	185.1	0.00100	mg/L	0.000007	0.00100 mg/L	0.000007	0.72%
Pb 220.353	53.9	0.00182	mg/L	0.000110	0.00182 mg/L	0.000110	6.02%
Sb 206.833	3.0	-0.00020	mg/L	0.000157	-0.00020 mg/L	0.000157	79.93%
Se 196.026	27.4	0.00176	mg/L	0.000163	0.00176 mg/L	0.000163	9.23%
Si 288.158	238984.8	2.38	mg/L	0.010	2.38 mg/L	0.010	0.42%
Sn 189.933	-334.6	-0.0119	mg/L	0.00011	-0.0119 mg/L	0.00011	0.90%
Ti 337.280	543.9	0.00166	mg/L	0.000002	0.00166 mg/L	0.000002	0.15%
Tl 190.800	2.1	0.0155	mg/L	0.00604	0.0155 mg/L	0.00604	39.06%
V 292.402	414.6	0.00147	mg/L	0.000025	0.00147 mg/L	0.000025	1.71%
Zn 206.200	10453.3	0.0301	mg/L	0.00041	0.0301 mg/L	0.00041	1.37%
K 766.490	26647.3	1.75	mg/L	0.033	1.75 mg/L	0.033	1.89%
Na 589.592	630052.5	15.7	mg/L	0.30	15.7 mg/L	0.30	1.94%
Sr 407.771	127544.3	0.118	mg/L	0.0021	0.118 mg/L	0.0021	1.80%

Sequence No.: 22 **Autosampler Location: 45**
Sample ID: 0626302 WG99333-01 **Date Collected: 6/14/2001 10:36:27 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0626302 WG99333-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3772904.0						38368.04	1.02%
Ag 328.068	668.8	0.00099	mg/L	0.000054	0.00099	mg/L	0.000054	5.44%
Al 237.312	271.8	0.0399	mg/L	0.00446	0.0399	mg/L	0.00446	11.17%
As 188.979	-7.0	-0.00042	mg/L	0.000063	-0.00042	mg/L	0.000063	14.89%
Ba 230.424	20467.3	0.0604	mg/L	0.00022	0.0604	mg/L	0.00022	0.37%
Be 234.861	463.6	0.00007	mg/L	0.000040	0.00007	mg/L	0.000040	56.39%
Ca 227.549	98379.8	81.6	mg/L	0.37	81.6	mg/L	0.37	0.45%
Cd 228.802	152.4	0.00031	mg/L	0.000010	0.00031	mg/L	0.000010	3.15%
Co 228.616	763.7	0.00436	mg/L	0.000048	0.00436	mg/L	0.000048	1.10%
Cr 267.716	456.3	0.00147	mg/L	0.000057	0.00147	mg/L	0.000057	3.89%
Cu 327.396	5073.2	0.0127	mg/L	0.00014	0.0127	mg/L	0.00014	1.09%
Fe 261.387	80405.3	3.56	mg/L	0.002	3.56	mg/L	0.002	0.05%
Mg 279.079	474651.3	8.09	mg/L	0.079	8.09	mg/L	0.079	0.97%
Mn 257.610	1863788.8	0.950	mg/L	0.0090	0.950	mg/L	0.0090	0.94%
Mo 202.030	837.1	0.00737	mg/L	0.000136	0.00737	mg/L	0.000136	1.84%
Ni 231.604	3761.2	0.0204	mg/L	0.00004	0.0204	mg/L	0.00004	0.20%
Pb 220.353	92.9	0.00316	mg/L	0.000159	0.00316	mg/L	0.000159	5.05%
Sb 206.833	33.9	-0.00012	mg/L	0.000088	-0.00012	mg/L	0.000088	71.89%
Se 196.026	34.4	0.00221	mg/L	0.000119	0.00221	mg/L	0.000119	5.40%
Si 288.158	440222.6	4.39	mg/L	0.034	4.39	mg/L	0.034	0.78%
Sn 189.933	-402.7	-0.0139	mg/L	0.00007	-0.0139	mg/L	0.00007	0.49%
Ti 337.280	213.0	0.00781	mg/L	0.000063	0.00781	mg/L	0.000063	0.81%
Tl 190.800	2.6	0.0188	mg/L	0.02011	0.0188	mg/L	0.02011	107.19%
V 292.402	-46.0	0.00012	mg/L	0.000012	0.00012	mg/L	0.000012	10.33%
Zn 206.200	6610.2	0.0188	mg/L	0.00001	0.0188	mg/L	0.00001	0.07%
K 766.490	43714.1	2.87	mg/L	0.007	2.87	mg/L	0.007	0.25%
Na 589.592	3673359.0	91.8	mg/L	0.97	91.8	mg/L	0.97	1.06%
Sr 407.771	188945.4	0.174	mg/L	0.0017	0.174	mg/L	0.0017	1.00%

Sequence No.: 23 **Autosampler Location: 46**

Sample ID: 0626302S WG99333-05 **Date Collected:** 6/14/2001 10:41:26 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: 0626302S WG99333-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3752052.9						6769.91	0.18%
Ag 328.068	131430.8	0.195	mg/L	0.0007	0.195	mg/L	0.0007	0.38%
Al 237.312	146055.3	10.1	mg/L	0.03	10.1	mg/L	0.03	0.30%
As 188.979	16384.4	0.963	mg/L	0.0023	0.963	mg/L	0.0023	0.24%
Ba 230.424	2885605.7	8.47	mg/L	0.036	8.47	mg/L	0.036	0.42%
Be 234.861	1484527.9	0.959	mg/L	0.0038	0.959	mg/L	0.0038	0.39%
Ca 227.549	110825.5	91.9	mg/L	0.41	91.9	mg/L	0.41	0.45%
Cd 228.802	376782.7	0.939	mg/L	0.0037	0.939	mg/L	0.0037	0.40%
Co 228.616	163295.2	0.906	mg/L	0.0040	0.906	mg/L	0.0040	0.44%
Cr 267.716	303023.1	0.907	mg/L	0.0035	0.907	mg/L	0.0035	0.39%
Cu 327.396	379824.5	0.951	mg/L	0.0031	0.951	mg/L	0.0031	0.33%
Fe 261.387	93320.7	4.25	mg/L	0.024	4.25	mg/L	0.024	0.57%
Mg 279.079	1027942.6	17.5	mg/L	0.08	17.5	mg/L	0.08	0.44%
Mn 257.610	3618793.4	1.84	mg/L	0.006	1.84	mg/L	0.006	0.35%
Mo 202.030	100881.5	0.888	mg/L	0.0037	0.888	mg/L	0.0037	0.41%
Ni 231.604	169820.3	0.920	mg/L	0.0035	0.920	mg/L	0.0035	0.38%
Pb 220.353	27026.7	0.916	mg/L	0.0004	0.916	mg/L	0.0004	0.05%
Sb 206.833	28403.2	0.945	mg/L	0.0108	0.945	mg/L	0.0108	1.15%
Se 196.026	14101.0	0.907	mg/L	0.0029	0.907	mg/L	0.0029	0.32%
Si 288.158	1476043.4	14.6	mg/L	0.08	14.6	mg/L	0.08	0.53%
Sn 189.933	24692.6	0.911	mg/L	0.0025	0.911	mg/L	0.0025	0.28%
Ti 337.280	1598682.5	0.950	mg/L	0.0037	0.950	mg/L	0.0037	0.39%
Tl 190.800	102.0	0.739	mg/L	0.0494	0.739	mg/L	0.0494	6.69%
V 292.402	260081.7	0.917	mg/L	0.0043	0.917	mg/L	0.0043	0.47%
Zn 206.200	310896.8	0.899	mg/L	0.0048	0.899	mg/L	0.0048	0.54%
K 766.490	800157.0	53.0	mg/L	0.55	53.0	mg/L	0.55	1.04%
Na 589.592	5638573.5	141	mg/L	0.7	141	mg/L	0.7	0.48%
Sr 407.771	1220979.9	1.12	mg/L	0.012	1.12	mg/L	0.012	1.04%

Recovery Check: 0626302S WG99333-05

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Tl 190.800	1.02	0.739	0.049	mg/L	72.0
K 766.490	52.9	53.0	0.552	mg/L	100.3
Na 589.592	142	141	0.680	mg/L	98.2
Sr 407.771	1.17	1.12	0.012	mg/L	94.3
Ag 328.068	0.201	0.195	0.001	mg/L	97.1
Al 237.312	10.0	10.1	0.030	mg/L	100.3
As 188.979	1.000	0.963	0.002	mg/L	96.4
Ba 230.424	10.1	8.47	0.036	mg/L	84.1
Be 234.861	1.00	0.959	0.004	mg/L	95.9
Ca 227.549	91.6	91.9	0.411	mg/L	102.8
Cd 228.802	1.00	0.939	0.004	mg/L	93.8
Co 228.616	1.00	0.906	0.004	mg/L	90.1
Cr 267.716	1.00	0.907	0.004	mg/L	90.6
Cu 327.396	1.01	0.951	0.003	mg/L	93.8
Fe 261.387	4.56	4.25	0.024	mg/L	68.8
Mg 279.079	18.1	17.5	0.076	mg/L	94.3
Mn 257.610	1.95	1.84	0.006	mg/L	89.4
Mo 202.030	1.00	0.888	0.004	mg/L	88.5
Ni 231.604	1.02	0.920	0.003	mg/L	90.0
Pb 220.353	1.00	0.916	0.000	mg/L	91.3
Sb 206.833	1.20	0.945	0.011	mg/L	78.6
Se 196.026	1.00	0.907	0.003	mg/L	90.5
Si 288.158	14.4	14.6	0.077	mg/L	102.4
Sn 189.933	0.985	0.911	0.003	mg/L	92.6
Ti 337.280	1.01	0.950	0.004	mg/L	94.3
V 292.402	1.00	0.917	0.004	mg/L	91.7
Zn 206.200	1.02	0.899	0.005	mg/L	88.0

Sequence No.: 24
Sample ID: 0626302SD WG99333-06
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 6/14/2001 10:45:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0626302SD WG99333-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	4068205.4						387.71	0.01%
Ag 328.068	133940.7	0.199	mg/L	0.0012	0.199	mg/L	0.0012	0.62%
Al 237.312	148619.1	10.2	mg/L	0.05	10.2	mg/L	0.05	0.53%
As 188.979	16586.7	0.975	mg/L	0.0062	0.975	mg/L	0.0062	0.64%
Ba 230.424	2923533.6	8.58	mg/L	0.040	8.58	mg/L	0.040	0.47%
Be 234.861	1507575.9	0.974	mg/L	0.0052	0.974	mg/L	0.0052	0.54%
Ca 227.549	110893.9	91.9	mg/L	0.21	91.9	mg/L	0.21	0.23%
Cd 228.802	382592.1	0.953	mg/L	0.0043	0.953	mg/L	0.0043	0.45%
Co 228.616	165463.5	0.918	mg/L	0.0051	0.918	mg/L	0.0051	0.56%
Cr 267.716	307388.0	0.921	mg/L	0.0048	0.921	mg/L	0.0048	0.52%
Cu 327.396	387173.0	0.970	mg/L	0.0030	0.970	mg/L	0.0030	0.31%
Fe 261.387	94133.1	4.29	mg/L	0.021	4.29	mg/L	0.021	0.49%
Mg 279.079	1032357.7	17.6	mg/L	0.10	17.6	mg/L	0.10	0.59%
Mn 257.610	3633505.2	1.85	mg/L	0.009	1.85	mg/L	0.009	0.49%
Mo 202.030	102411.8	0.902	mg/L	0.0040	0.902	mg/L	0.0040	0.44%
Ni 231.604	172105.3	0.932	mg/L	0.0051	0.932	mg/L	0.0051	0.55%
Pb 220.353	27250.1	0.924	mg/L	0.0020	0.924	mg/L	0.0020	0.22%
Sb 206.833	28668.9	0.954	mg/L	0.0052	0.954	mg/L	0.0052	0.55%
Se 196.026	14166.7	0.911	mg/L	0.0041	0.911	mg/L	0.0041	0.45%
Si 288.158	1490903.8	14.8	mg/L	0.09	14.8	mg/L	0.09	0.60%
Sn 189.933	24882.3	0.918	mg/L	0.0002	0.918	mg/L	0.0002	0.02%
Ti 337.280	1624576.4	0.965	mg/L	0.0040	0.965	mg/L	0.0040	0.42%
Tl 190.800	106.1	0.768	mg/L	0.0420	0.768	mg/L	0.0420	5.47%
V 292.402	264232.7	0.932	mg/L	0.0039	0.932	mg/L	0.0039	0.42%
Zn 206.200	313925.9	0.908	mg/L	0.0082	0.908	mg/L	0.0082	0.90%
K 766.490	784350.6	52.0	mg/L	1.80	52.0	mg/L	1.80	3.46%
Na 589.592	5502959.3	137	mg/L	2.0	137	mg/L	2.0	1.47%
Sr 407.771	1193961.7	1.09	mg/L	0.038	1.09	mg/L	0.038	3.50%

Duplicate Check: 0626302SD WG99333-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Tl 190.800	0.739	0.768	0.042	mg/L	3.9
K 766.490	53.0	52.0	1.798	mg/L	2.0
Na 589.592	141	137	2.017	mg/L	2.4
Sr 407.771	1.12	1.09	0.038	mg/L	2.2
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.195	0.199	0.001	mg/L	1.9
Al 237.312	10.1	10.2	0.054	mg/L	1.7
As 188.979	0.963	0.975	0.006	mg/L	1.2
Ba 230.424	8.47	8.58	0.040	mg/L	1.3
Be 234.861	0.959	0.974	0.005	mg/L	1.5
Ca 227.549	91.9	91.9	0.213	mg/L	0.1
Cd 228.802	0.939	0.953	0.004	mg/L	1.5
Co 228.616	0.906	0.918	0.005	mg/L	1.3
Cr 267.716	0.907	0.921	0.005	mg/L	1.4
Cu 327.396	0.951	0.970	0.003	mg/L	1.9
Fe 261.387	4.25	4.29	0.021	mg/L	0.9
Mg 279.079	17.5	17.6	0.104	mg/L	0.4
Mn 257.610	1.84	1.85	0.009	mg/L	0.4
Mo 202.030	0.888	0.902	0.004	mg/L	1.5
Ni 231.604	0.920	0.932	0.005	mg/L	1.3
Pb 220.353	0.916	0.924	0.002	mg/L	0.8
Sb 206.833	0.945	0.954	0.005	mg/L	0.9
Se 196.026	0.907	0.911	0.004	mg/L	0.5
Si 288.158	14.6	14.8	0.088	mg/L	1.0
Sn 189.933	0.911	0.918	0.000	mg/L	0.8
Ti 337.280	0.950	0.965	0.004	mg/L	1.6
V 292.402	0.917	0.932	0.004	mg/L	1.6
Zn 206.200	0.899	0.908	0.008	mg/L	1.0

Sequence No.: 25
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 10:50:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4215166.8						60771.55	1.44%
Ag 328.068	261362.9	0.388	mg/L	0.0078	0.388	mg/L	0.0078	2.00%
QC value within limits for Ag 328.068 Recovery = 97.01%								
Al 237.312	148453.0	10.2	mg/L	0.21	10.2	mg/L	0.21	2.08%
QC value within limits for Al 237.312 Recovery = 102.37%								
As 188.979	6793.7	0.396	mg/L	0.0003	0.396	mg/L	0.0003	0.09%
QC value within limits for As 188.979 Recovery = 99.07%								
Ba 230.424	356610.4	1.04	mg/L	0.017	1.04	mg/L	0.017	1.59%
QC value within limits for Ba 230.424 Recovery = 104.40%								
Be 234.861	80715.4	0.0520	mg/L	0.00102	0.0520	mg/L	0.00102	1.97%
QC value within limits for Be 234.861 Recovery = 103.95%								
Ca 227.549	12620.8	10.4	mg/L	0.04	10.4	mg/L	0.04	0.43%
QC value within limits for Ca 227.549 Recovery = 103.53%								
Cd 228.802	20742.2	0.0503	mg/L	0.00014	0.0503	mg/L	0.00014	0.28%
QC value within limits for Cd 228.802 Recovery = 100.52%								
Co 228.616	38190.5	0.211	mg/L	0.0039	0.211	mg/L	0.0039	1.86%
QC value within limits for Co 228.616 Recovery = 105.41%								
Cr 267.716	175059.5	0.528	mg/L	0.0078	0.528	mg/L	0.0078	1.48%
QC value within limits for Cr 267.716 Recovery = 105.51%								
Cu 327.396	207456.8	0.519	mg/L	0.0114	0.519	mg/L	0.0114	2.20%
QC value within limits for Cu 327.396 Recovery = 103.87%								
Fe 261.387	94051.5	4.17	mg/L	0.084	4.17	mg/L	0.084	2.02%
QC value within limits for Fe 261.387 Recovery = 104.31%								
Mg 279.079	599116.6	10.2	mg/L	0.13	10.2	mg/L	0.13	1.25%
QC value within limits for Mg 279.079 Recovery = 102.08%								
Mn 257.610	1021086.9	0.520	mg/L	0.0092	0.520	mg/L	0.0092	1.78%
QC value within limits for Mn 257.610 Recovery = 104.00%								
Mo 202.030	117631.1	1.04	mg/L	0.016	1.04	mg/L	0.016	1.54%
QC value within limits for Mo 202.030 Recovery = 104.07%								
Ni 231.604	97057.2	0.526	mg/L	0.0063	0.526	mg/L	0.0063	1.21%
QC value within limits for Ni 231.604 Recovery = 105.20%								
Pb 220.353	15079.7	0.513	mg/L	0.0022	0.513	mg/L	0.0022	0.43%
QC value within limits for Pb 220.353 Recovery = 102.67%								
Sb 206.833	35945.1	1.21	mg/L	0.003	1.21	mg/L	0.003	0.29%
QC value within limits for Sb 206.833 Recovery = 100.63%								
Se 196.026	6293.6	0.404	mg/L	0.0002	0.404	mg/L	0.0002	0.06%
QC value within limits for Se 196.026 Recovery = 101.00%								
Si 288.158	526626.8	5.21	mg/L	0.079	5.21	mg/L	0.079	1.52%
QC value within limits for Si 288.158 Recovery = 104.19%								
Sn 189.933	26753.8	0.986	mg/L	0.0097	0.986	mg/L	0.0097	0.98%
QC value within limits for Sn 189.933 Recovery = 98.76%								
Ti 337.280	1731473.9	1.02	mg/L	0.018	1.02	mg/L	0.018	1.78%
QC value within limits for Ti 337.280 Recovery = 101.89%								
Tl 190.800	69.7	0.505	mg/L	0.0062	0.505	mg/L	0.0062	1.23%
QC value within limits for Tl 190.800 Recovery = 100.98%								
V 292.402	291811.2	1.03	mg/L	0.016	1.03	mg/L	0.016	1.57%
QC value within limits for V 292.402 Recovery = 102.92%								
Zn 206.200	352077.4	1.02	mg/L	0.006	1.02	mg/L	0.006	0.59%
QC value within limits for Zn 206.200 Recovery = 101.72%								
K 766.490	732448.3	48.5	mg/L	1.15	48.5	mg/L	1.15	2.37%
QC value within limits for K 766.490 Recovery = 97.07%								
Na 589.592	1952005.2	48.8	mg/L	1.28	48.8	mg/L	1.28	2.62%
QC value within limits for Na 589.592 Recovery = 97.55%								
Sr 407.771	1062403.5	0.972	mg/L	0.0220	0.972	mg/L	0.0220	2.27%
QC value within limits for Sr 407.771 Recovery = 97.22%								

All analytes passed QC.

Sequence No.: 26
Autosampler Location: 1

Sample ID: CCB **Date Collected:** 6/14/2001 10:55:04 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3696215.6						86304.29	2.33%
Ag 328.068	68.8	0.00010	mg/L	0.000028	0.00010	mg/L	0.000028	27.78%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	21.7	0.00154	mg/L	0.000827	0.00154	mg/L	0.000827	53.56%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-3.7	-0.00022	mg/L	0.000042	-0.00022	mg/L	0.000042	19.23%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	30.6	0.00008	mg/L	0.000027	0.00008	mg/L	0.000027	31.93%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	11.2	0.00001	mg/L	0.000003	0.00001	mg/L	0.000003	38.24%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	5.3	0.00426	mg/L	0.002744	0.00426	mg/L	0.002744	64.41%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	8.7	0.00002	mg/L	0.000007	0.00002	mg/L	0.000007	30.94%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	13.3	0.00007	mg/L	0.000065	0.00007	mg/L	0.000065	86.65%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	73.2	0.00022	mg/L	0.000013	0.00022	mg/L	0.000013	5.80%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-33.4	-0.00008	mg/L	0.000063	-0.00008	mg/L	0.000063	75.94%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	167.2	0.00735	mg/L	0.000079	0.00735	mg/L	0.000079	1.07%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	20.6	0.00035	mg/L	0.000176	0.00035	mg/L	0.000176	50.08%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	5.6	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	78.93%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	150.5	0.00133	mg/L	0.000056	0.00133	mg/L	0.000056	4.26%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	16.9	0.00009	mg/L	0.000041	0.00009	mg/L	0.000041	44.45%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	1.8	0.00006	mg/L	0.000150	0.00006	mg/L	0.000150	238.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-8.6	-0.00029	mg/L	0.000259	-0.00029	mg/L	0.000259	89.26%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	15.3	0.00098	mg/L	0.000165	0.00098	mg/L	0.000165	16.77%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	191.2	0.00189	mg/L	0.000020	0.00189	mg/L	0.000020	1.08%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	110.4	0.00405	mg/L	0.000584	0.00405	mg/L	0.000584	14.42%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-2.3	0.00000	mg/L	0.000045	0.00000	mg/L	0.000045	>999.9%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	1.8	0.0128	mg/L	0.00083	0.0128	mg/L	0.00083	6.53%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	2.1	0.00001	mg/L	0.000020	0.00001	mg/L	0.000020	246.36%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-482.2	-0.00139	mg/L	0.000006	-0.00139	mg/L	0.000006	0.46%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	1697.2	0.113	mg/L	0.0074	0.113	mg/L	0.0074	6.57%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	6856.0	0.171	mg/L	0.0049	0.171	mg/L	0.0049	2.85%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-31.9	0.00177	mg/L	0.000036	0.00177	mg/L	0.000036	2.01%
QC value within limits for Sr 407.771 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 27 **Autosampler Location:** 48
Sample ID: 0626305 **Date Collected:** 6/14/2001 10:59:54 PM
Analyst:
Sample Wt: **Sample Prep Volume:**

Dilution: Data Type: Original

Mean Data: 0626305

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3974815.6						42700.24	1.07%
Ag 328.068	599.1	0.00089	mg/L	0.000120	0.00089	mg/L	0.000120	13.45%
Al 237.312	4753.5	0.327	mg/L	0.0021	0.327	mg/L	0.0021	0.63%
As 188.979	20.1	0.00079	mg/L	0.000543	0.00079	mg/L	0.000543	69.15%
Ba 230.424	26983.1	0.0790	mg/L	0.00017	0.0790	mg/L	0.00017	0.22%
Be 234.861	159.4	0.00008	mg/L	0.000026	0.00008	mg/L	0.000026	30.44%
Ca 227.549	65508.0	54.4	mg/L	0.26	54.4	mg/L	0.26	0.47%
Cd 228.802	36.0	0.00003	mg/L	0.000010	0.00003	mg/L	0.000010	29.36%
Co 228.616	141.5	0.00091	mg/L	0.000035	0.00091	mg/L	0.000035	3.86%
Cr 267.716	794.9	0.00234	mg/L	0.000001	0.00234	mg/L	0.000001	0.05%
Cu 327.396	2433.0	0.00609	mg/L	0.000169	0.00609	mg/L	0.000169	2.78%
Fe 261.387	10086.4	0.469	mg/L	0.0019	0.469	mg/L	0.0019	0.40%
Mg 279.079	549398.8	9.37	mg/L	0.107	9.37	mg/L	0.107	1.14%
Mn 257.610	1704931.3	0.869	mg/L	0.0105	0.869	mg/L	0.0105	1.20%
Mo 202.030	11423.7	0.101	mg/L	0.0007	0.101	mg/L	0.0007	0.71%
Ni 231.604	609.1	0.00331	mg/L	0.000019	0.00331	mg/L	0.000019	0.59%
Pb 220.353	66.9	0.00252	mg/L	0.000177	0.00252	mg/L	0.000177	7.03%
Sb 206.833	-3.4	-0.00054	mg/L	0.000163	-0.00054	mg/L	0.000163	30.06%
Se 196.026	66.1	0.00423	mg/L	0.000319	0.00423	mg/L	0.000319	7.54%
Si 288.158	559739.8	5.55	mg/L	0.071	5.55	mg/L	0.071	1.27%
Sn 189.933	-239.1	-0.00822	mg/L	0.000214	-0.00822	mg/L	0.000214	2.61%
Ti 337.280	9106.8	0.0114	mg/L	0.00002	0.0114	mg/L	0.00002	0.14%
Tl 190.800	4.2	0.0306	mg/L	0.00898	0.0306	mg/L	0.00898	29.34%
V 292.402	204.8	0.00075	mg/L	0.000047	0.00075	mg/L	0.000047	6.23%
Zn 206.200	2525.8	0.00716	mg/L	0.000000	0.00716	mg/L	0.000000	0.00%
K 766.490	37149.9	2.44	mg/L	0.075	2.44	mg/L	0.075	3.06%
Na 589.592	1420566.5	35.5	mg/L	0.86	35.5	mg/L	0.86	2.42%
Sr 407.771	223471.4	0.206	mg/L	0.0055	0.206	mg/L	0.0055	2.69%

Sequence No.: 28 Autosampler Location: 49
Sample ID: 0626306 Date Collected: 6/14/2001 11:04:45 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: 0626306

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3603984.3						47812.47	1.33%
Ag 328.068	1056.7	0.00157	mg/L	0.000014	0.00157	mg/L	0.000014	0.92%
Al 237.312	-2213.2	-0.0294	mg/L	0.00088	-0.0294	mg/L	0.00088	3.01%
As 188.979	-12.1	-0.00070	mg/L	0.000166	-0.00070	mg/L	0.000166	23.58%
Ba 230.424	13726.8	0.0412	mg/L	0.00007	0.0412	mg/L	0.00007	0.18%
Be 234.861	2076.5	0.00017	mg/L	0.000003	0.00017	mg/L	0.000003	1.51%
Ca 227.549	213454.9	177	mg/L	1.7	177	mg/L	1.7	0.99%
Cd 228.802	-4.4	-0.00014	mg/L	0.000002	-0.00014	mg/L	0.000002	1.47%
Co 228.616	2747.3	0.0157	mg/L	0.00006	0.0157	mg/L	0.00006	0.35%
Cr 267.716	417.0	0.00198	mg/L	0.000028	0.00198	mg/L	0.000028	1.43%
Cu 327.396	215.9	0.00054	mg/L	0.000016	0.00054	mg/L	0.000016	3.02%
Fe 261.387	412097.6	18.1	mg/L	0.23	18.1	mg/L	0.23	1.24%
Mg 279.079	419672.6	7.14	mg/L	0.077	7.14	mg/L	0.077	1.08%
Mn 257.610	2069512.4	1.06	mg/L	0.010	1.06	mg/L	0.010	0.92%
Mo 202.030	298.4	0.00263	mg/L	0.000015	0.00263	mg/L	0.000015	0.58%
Ni 231.604	15055.0	0.0818	mg/L	0.00025	0.0818	mg/L	0.00025	0.30%
Pb 220.353	177.7	0.00599	mg/L	0.000200	0.00599	mg/L	0.000200	3.34%
Sb 206.833	49.2	-0.00166	mg/L	0.000787	-0.00166	mg/L	0.000787	47.34%
Se 196.026	29.7	0.00192	mg/L	0.000181	0.00192	mg/L	0.000181	9.38%
Si 288.158	468656.8	4.72	mg/L	0.037	4.72	mg/L	0.037	0.79%
Sn 189.933	-358.3	-0.0114	mg/L	0.00019	-0.0114	mg/L	0.00019	1.67%
Ti 337.280	-152.4	0.0125	mg/L	0.00012	0.0125	mg/L	0.00012	0.94%
Tl 190.800	3.2	0.0235	mg/L	0.00062	0.0235	mg/L	0.00062	2.62%
V 292.402	-286.5	0.00044	mg/L	0.000004	0.00044	mg/L	0.000004	0.97%
Zn 206.200	4139.6	0.0106	mg/L	0.00005	0.0106	mg/L	0.00005	0.45%

K 766.490	53118.4	3.50 mg/L	0.058	3.50 mg/L	0.058	1.67%
Na 589.592	Saturated2					
Saturated in preshot (code 2)						
Sr 407.771	212156.0	0.196 mg/L	0.0042	0.196 mg/L	0.0042	2.17%

Sequence No.: 29 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 6/14/2001 11:09:34 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	4158941.4						35053.07	0.84%
Ag 328.068	257255.6	0.382	mg/L	0.0018	0.382	mg/L	0.0018	0.47%
QC value within limits for Ag 328.068 Recovery = 95.49%								
Al 237.312	146261.3	10.1	mg/L	0.05	10.1	mg/L	0.05	0.54%
QC value within limits for Al 237.312 Recovery = 100.86%								
As 188.979	6748.1	0.394	mg/L	0.0002	0.394	mg/L	0.0002	0.05%
QC value within limits for As 188.979 Recovery = 98.41%								
Ba 230.424	351647.9	1.03	mg/L	0.006	1.03	mg/L	0.006	0.57%
QC value within limits for Ba 230.424 Recovery = 102.95%								
Be 234.861	79485.9	0.0512	mg/L	0.00028	0.0512	mg/L	0.00028	0.55%
QC value within limits for Be 234.861 Recovery = 102.37%								
Ca 227.549	12540.9	10.3	mg/L	0.00	10.3	mg/L	0.00	0.00%
QC value within limits for Ca 227.549 Recovery = 102.89%								
Cd 228.802	20619.0	0.0500	mg/L	0.00001	0.0500	mg/L	0.00001	0.01%
QC value within limits for Cd 228.802 Recovery = 99.93%								
Co 228.616	37752.5	0.208	mg/L	0.0012	0.208	mg/L	0.0012	0.56%
QC value within limits for Co 228.616 Recovery = 104.21%								
Cr 267.716	172470.4	0.520	mg/L	0.0038	0.520	mg/L	0.0038	0.73%
QC value within limits for Cr 267.716 Recovery = 103.95%								
Cu 327.396	204044.6	0.511	mg/L	0.0016	0.511	mg/L	0.0016	0.31%
QC value within limits for Cu 327.396 Recovery = 102.17%								
Fe 261.387	92452.1	4.10	mg/L	0.032	4.10	mg/L	0.032	0.78%
QC value within limits for Fe 261.387 Recovery = 102.54%								
Mg 279.079	589988.3	10.1	mg/L	0.08	10.1	mg/L	0.08	0.84%
QC value within limits for Mg 279.079 Recovery = 100.52%								
Mn 257.610	1006024.3	0.512	mg/L	0.0024	0.512	mg/L	0.0024	0.47%
QC value within limits for Mn 257.610 Recovery = 102.47%								
Mo 202.030	115761.6	1.02	mg/L	0.002	1.02	mg/L	0.002	0.23%
QC value within limits for Mo 202.030 Recovery = 102.41%								
Ni 231.604	95410.4	0.517	mg/L	0.0028	0.517	mg/L	0.0028	0.55%
QC value within limits for Ni 231.604 Recovery = 103.41%								
Pb 220.353	14985.3	0.510	mg/L	0.0001	0.510	mg/L	0.0001	0.02%
QC value within limits for Pb 220.353 Recovery = 102.02%								
Sb 206.833	35722.8	1.20	mg/L	0.000	1.20	mg/L	0.000	0.02%
QC value within limits for Sb 206.833 Recovery = 100.01%								
Se 196.026	6223.2	0.399	mg/L	0.0000	0.399	mg/L	0.0000	0.01%
QC value within limits for Se 196.026 Recovery = 99.87%								
Si 288.158	519657.9	5.14	mg/L	0.027	5.14	mg/L	0.027	0.52%
QC value within limits for Si 288.158 Recovery = 102.81%								
Sn 189.933	26438.6	0.974	mg/L	0.0083	0.974	mg/L	0.0083	0.85%
QC value within limits for Sn 189.933 Recovery = 97.60%								
Ti 337.280	1705021.3	1.00	mg/L	0.006	1.00	mg/L	0.006	0.55%
QC value within limits for Ti 337.280 Recovery = 100.33%								
Tl 190.800	64.3	0.465	mg/L	0.0015	0.465	mg/L	0.0015	0.32%
QC value within limits for Tl 190.800 Recovery = 93.09%								
V 292.402	287276.9	1.01	mg/L	0.007	1.01	mg/L	0.007	0.68%
QC value within limits for V 292.402 Recovery = 101.32%								
Zn 206.200	347002.6	1.00	mg/L	0.013	1.00	mg/L	0.013	1.33%
QC value within limits for Zn 206.200 Recovery = 100.26%								
K 766.490	748524.7	49.6	mg/L	0.61	49.6	mg/L	0.61	1.24%
QC value within limits for K 766.490 Recovery = 99.21%								
Na 589.592	2001443.9	50.0	mg/L	0.64	50.0	mg/L	0.64	1.28%
QC value within limits for Na 589.592 Recovery = 100.02%								
Sr 407.771	1086351.5	0.994	mg/L	0.0153	0.994	mg/L	0.0153	1.54%
QC value within limits for Sr 407.771 Recovery = 99.41%								

All analytes passed QC.

Sequence No.: 30 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/14/2001 11:14:28 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3710807.9						28125.91	0.76%
Ag 328.068	57.8	0.00009	mg/L	0.000002	0.00009	mg/L	0.000002	1.92%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	31.5	0.00222	mg/L	0.000977	0.00222	mg/L	0.000977	43.93%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-4.5	-0.00027	mg/L	0.000165	-0.00027	mg/L	0.000165	61.15%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	20.8	0.00006	mg/L	0.000019	0.00006	mg/L	0.000019	32.60%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	7.0	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	67.59%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	6.0	0.00486	mg/L	0.005547	0.00486	mg/L	0.005547	114.18%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-6.1	-0.00001	mg/L	0.000012	-0.00001	mg/L	0.000012	82.91%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	4.6	0.00003	mg/L	0.000021	0.00003	mg/L	0.000021	76.83%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	46.8	0.00014	mg/L	0.000015	0.00014	mg/L	0.000015	10.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	5.9	0.00001	mg/L	0.000064	0.00001	mg/L	0.000064	428.68%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	167.1	0.00735	mg/L	0.000744	0.00735	mg/L	0.000744	10.13%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	22.5	0.00038	mg/L	0.000123	0.00038	mg/L	0.000123	32.27%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	5.1	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	133.51%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	122.7	0.00108	mg/L	0.000100	0.00108	mg/L	0.000100	9.28%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	9.8	0.00005	mg/L	0.000014	0.00005	mg/L	0.000014	25.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	4.1	0.00014	mg/L	0.000044	0.00014	mg/L	0.000044	30.53%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-6.8	-0.00023	mg/L	0.000187	-0.00023	mg/L	0.000187	80.63%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	16.4	0.00106	mg/L	0.000620	0.00106	mg/L	0.000620	58.75%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	111.2	0.00110	mg/L	0.000045	0.00110	mg/L	0.000045	4.13%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	91.3	0.00335	mg/L	0.000214	0.00335	mg/L	0.000214	6.40%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-24.3	-0.00001	mg/L	0.000078	-0.00001	mg/L	0.000078	571.20%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	1.3	0.00950	mg/L	0.009578	0.00950	mg/L	0.009578	100.85%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	-2.6	-0.00001	mg/L	0.000009	-0.00001	mg/L	0.000009	100.53%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-503.4	-0.00145	mg/L	0.000005	-0.00145	mg/L	0.000005	0.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	1335.3	0.0885	mg/L	0.00884	0.0885	mg/L	0.00884	9.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	6173.4	0.154	mg/L	0.0088	0.154	mg/L	0.0088	5.68%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-17.6	0.00178	mg/L	0.000054	0.00178	mg/L	0.000054	3.03%
QC value within limits for Sr 407.771 Recovery = Not calculated								

All analytes passed QC.

Analysis Begun

Start Time: 6/14/2001 11:17:34 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: 0624601
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 50
Date Collected: 6/14/2001 11:17:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0624601

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3945461.0						9148.15	0.23%
Ag 328.068	672.1	0.00100	mg/L	0.000043	0.00100	mg/L	0.000043	4.30%
Al 237.312	14165.5	0.973	mg/L	0.0082	0.973	mg/L	0.0082	0.85%
As 188.979	130.3	0.00759	mg/L	0.000072	0.00759	mg/L	0.000072	0.95%
Ba 230.424	73270.6	0.215	mg/L	0.0035	0.215	mg/L	0.0035	1.63%
Be 234.861	261.4	0.00013	mg/L	0.000009	0.00013	mg/L	0.000009	7.23%
Ca 227.549	113840.3	94.5	mg/L	1.45	94.5	mg/L	1.45	1.54%
Cd 228.802	51.1	0.00002	mg/L	0.000001	0.00002	mg/L	0.000001	5.92%
Co 228.616	4.0	0.00004	mg/L	0.000044	0.00004	mg/L	0.000044	99.37%
Cr 267.716	465.6	0.00151	mg/L	0.000029	0.00151	mg/L	0.000029	1.90%
Cu 327.396	464.6	0.00116	mg/L	0.000012	0.00116	mg/L	0.000012	1.05%
Fe 261.387	11902.9	0.523	mg/L	0.0041	0.523	mg/L	0.0041	0.78%
Mg 279.079	524653.7	8.94	mg/L	0.000	8.94	mg/L	0.000	0.00%
Mn 257.610	23095.3	0.0116	mg/L	0.00019	0.0116	mg/L	0.00019	1.68%
Mo 202.030	264.2	0.00232	mg/L	0.000037	0.00232	mg/L	0.000037	1.58%
Ni 231.604	38.3	0.00022	mg/L	0.000077	0.00022	mg/L	0.000077	34.95%
Pb 220.353	92.8	0.00324	mg/L	0.000306	0.00324	mg/L	0.000306	9.45%
Sb 206.833	15.4	-0.00035	mg/L	0.000052	-0.00035	mg/L	0.000052	14.68%
Se 196.026	37.0	0.00229	mg/L	0.000872	0.00229	mg/L	0.000872	38.09%
Si 288.158	1864576.4	18.5	mg/L	0.06	18.5	mg/L	0.06	0.34%
Sn 189.933	-259.5	-0.00853	mg/L	0.000292	-0.00853	mg/L	0.000292	3.42%
Ti 337.280	34120.0	0.0237	mg/L	0.00050	0.0237	mg/L	0.00050	2.09%
Tl 190.800	2.9	0.0210	mg/L	0.00128	0.0210	mg/L	0.00128	6.08%
V 292.402	6265.7	0.0221	mg/L	0.00045	0.0221	mg/L	0.00045	2.03%
Zn 206.200	1476.0	0.00410	mg/L	0.000074	0.00410	mg/L	0.000074	1.81%
K 766.490	111503.1	7.37	mg/L	0.022	7.37	mg/L	0.022	0.30%
Na 589.592	538808.2	13.5	mg/L	0.14	13.5	mg/L	0.14	1.03%
Sr 407.771	542585.2	0.497	mg/L	0.0029	0.497	mg/L	0.0029	0.58%

Sequence No.: 2
Sample ID: 0624701
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 51
Date Collected: 6/14/2001 11:22:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0624701

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3890767.1						1142.14	0.03%
Ag 328.068	551.5	0.00082	mg/L	0.000013	0.00082	mg/L	0.000013	1.57%
Al 237.312	9716.3	0.668	mg/L	0.0020	0.668	mg/L	0.0020	0.30%
As 188.979	35.7	0.00204	mg/L	0.000309	0.00204	mg/L	0.000309	15.15%
Ba 230.424	42083.7	0.124	mg/L	0.0024	0.124	mg/L	0.0024	1.93%
Be 234.861	222.6	0.00011	mg/L	0.000018	0.00011	mg/L	0.000018	16.83%
Ca 227.549	84518.2	70.1	mg/L	1.59	70.1	mg/L	1.59	2.27%
Cd 228.802	18.9	-0.00003	mg/L	0.000031	-0.00003	mg/L	0.000031	106.83%

Co 228.616	49.3	0.00029	mg/L	0.000012	0.00029	mg/L	0.000012	4.12%
Cr 267.716	350.2	0.00108	mg/L	0.000030	0.00108	mg/L	0.000030	2.79%
Cu 327.396	319.8	0.00080	mg/L	0.000079	0.00080	mg/L	0.000079	9.93%
Fe 261.387	11379.0	0.501	mg/L	0.0010	0.501	mg/L	0.0010	0.20%
Mg 279.079	532455.1	9.07	mg/L	0.076	9.07	mg/L	0.076	0.84%
Mn 257.610	39669.6	0.0200	mg/L	0.00039	0.0200	mg/L	0.00039	1.95%
Mo 202.030	401.8	0.00354	mg/L	0.000094	0.00354	mg/L	0.000094	2.66%
Ni 231.604	47.7	0.00027	mg/L	0.000010	0.00027	mg/L	0.000010	3.65%
Pb 220.353	68.8	0.00240	mg/L	0.000137	0.00240	mg/L	0.000137	5.71%
Sb 206.833	18.3	-0.00007	mg/L	0.000476	-0.00007	mg/L	0.000476	688.10%
Se 196.026	55.6	0.00352	mg/L	0.000405	0.00352	mg/L	0.000405	11.49%
Si 288.158	1298207.0	12.9	mg/L	0.01	12.9	mg/L	0.01	0.10%
Sn 189.933	-342.2	-0.0118	mg/L	0.00019	-0.0118	mg/L	0.00019	1.63%
Ti 337.280	31805.3	0.0214	mg/L	0.00039	0.0214	mg/L	0.00039	1.83%
Tl 190.800	1.3	0.00907	mg/L	0.012978	0.00907	mg/L	0.012978	143.08%
V 292.402	2614.5	0.00924	mg/L	0.000020	0.00924	mg/L	0.000020	0.22%
Zn 206.200	1566.9	0.00438	mg/L	0.000005	0.00438	mg/L	0.000005	0.10%
K 766.490	53990.9	3.55	mg/L	0.047	3.55	mg/L	0.047	1.32%
Na 589.592	619941.9	15.5	mg/L	0.14	15.5	mg/L	0.14	0.93%
Sr 407.771	462535.1	0.424	mg/L	0.0050	0.424	mg/L	0.0050	1.17%

Sequence No.: 3
Sample ID: 0624702
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/14/2001 11:27:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0624702

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3878494.9						14140.91	0.36%
Ag 328.068	538.7	0.00080	mg/L	0.000070	0.00080	mg/L	0.000070	8.81%
Al 237.312	10412.6	0.716	mg/L	0.0037	0.716	mg/L	0.0037	0.52%
As 188.979	40.4	0.00232	mg/L	0.000250	0.00232	mg/L	0.000250	10.78%
Ba 230.424	43265.6	0.127	mg/L	0.0019	0.127	mg/L	0.0019	1.49%
Be 234.861	182.0	0.00008	mg/L	0.000029	0.00008	mg/L	0.000029	34.85%
Ca 227.549	87168.6	72.3	mg/L	1.32	72.3	mg/L	1.32	1.82%
Cd 228.802	72.6	0.00010	mg/L	0.000002	0.00010	mg/L	0.000002	2.22%
Co 228.616	43.8	0.00026	mg/L	0.000025	0.00026	mg/L	0.000025	9.56%
Cr 267.716	512.9	0.00156	mg/L	0.000005	0.00156	mg/L	0.000005	0.29%
Cu 327.396	580.8	0.00145	mg/L	0.000002	0.00145	mg/L	0.000002	0.11%
Fe 261.387	10922.7	0.481	mg/L	0.0021	0.481	mg/L	0.0021	0.43%
Mg 279.079	544105.0	9.27	mg/L	0.029	9.27	mg/L	0.029	0.31%
Mn 257.610	40291.1	0.0203	mg/L	0.00033	0.0203	mg/L	0.00033	1.64%
Mo 202.030	393.2	0.00346	mg/L	0.000048	0.00346	mg/L	0.000048	1.38%
Ni 231.604	140.1	0.00077	mg/L	0.000123	0.00077	mg/L	0.000123	16.04%
Pb 220.353	75.7	0.00264	mg/L	0.000022	0.00264	mg/L	0.000022	0.84%
Sb 206.833	3.7	-0.00059	mg/L	0.000542	-0.00059	mg/L	0.000542	91.49%
Se 196.026	64.8	0.00412	mg/L	0.000204	0.00412	mg/L	0.000204	4.95%
Si 288.158	1322459.3	13.1	mg/L	0.05	13.1	mg/L	0.05	0.38%
Sn 189.933	-359.4	-0.0124	mg/L	0.00010	-0.0124	mg/L	0.00010	0.81%
Ti 337.280	29919.1	0.0204	mg/L	0.00033	0.0204	mg/L	0.00033	1.61%
Tl 190.800	0.6	0.00420	mg/L	0.004553	0.00420	mg/L	0.004553	108.46%
V 292.402	2660.7	0.00940	mg/L	0.000035	0.00940	mg/L	0.000035	0.37%
Zn 206.200	1879.6	0.00528	mg/L	0.000041	0.00528	mg/L	0.000041	0.77%
K 766.490	56935.0	3.75	mg/L	0.068	3.75	mg/L	0.068	1.81%
Na 589.592	653355.8	16.3	mg/L	0.33	16.3	mg/L	0.33	2.04%
Sr 407.771	485739.8	0.445	mg/L	0.0079	0.445	mg/L	0.0079	1.78%

Sequence No.: 4
Sample ID: 0625302
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/14/2001 11:32:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625302

Mean Corrected **Calib** **Sample**

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	4048273.3						34268.86	0.85%
Ag 328.068	121.1	0.00018	mg/L	0.000017	0.00018	mg/L	0.000017	9.60%
Al 237.312	450104.0	31.2	mg/L	0.11	31.2	mg/L	0.11	0.37%
As 188.979	-14.9	-0.00055	mg/L	0.000623	-0.00055	mg/L	0.000623	113.74%
Ba 230.424	71121.3	0.211	mg/L	0.0007	0.211	mg/L	0.0007	0.35%
Be 234.861	5658.4	0.00090	mg/L	0.000033	0.00090	mg/L	0.000033	3.69%
Ca 227.549	34903.3	28.2	mg/L	0.01	28.2	mg/L	0.01	0.03%
Cd 228.802	7.3	-0.00060	mg/L	0.000001	-0.00060	mg/L	0.000001	0.09%
Co 228.616	7107.1	0.0369	mg/L	0.00002	0.0369	mg/L	0.00002	0.06%
Cr 267.716	156416.5	0.467	mg/L	0.0025	0.467	mg/L	0.0025	0.53%
Cu 327.396	27644.6	0.0688	mg/L	0.00014	0.0688	mg/L	0.00014	0.20%
Fe 261.387	911137.6	40.1	mg/L	0.50	40.1	mg/L	0.50	1.26%
Mg 279.079	2241676.2	38.2	mg/L	0.51	38.2	mg/L	0.51	1.34%
Mn 257.610	2297786.3	1.17	mg/L	0.012	1.17	mg/L	0.012	1.06%
Mo 202.030	181.8	0.00152	mg/L	0.000047	0.00152	mg/L	0.000047	3.10%
Ni 231.604	47863.6	0.260	mg/L	0.0023	0.260	mg/L	0.0023	0.90%
Pb 220.353	417.9	0.0181	mg/L	0.00006	0.0181	mg/L	0.00006	0.32%
Sb 206.833	590.6	-0.00166	mg/L	0.000274	-0.00166	mg/L	0.000274	16.56%
Se 196.026	-4.9	-0.00256	mg/L	0.001776	-0.00256	mg/L	0.001776	69.32%
Si 288.158	5735247.9	56.7	mg/L	0.57	56.7	mg/L	0.57	1.01%
Sn 189.933	-463.6	-0.0102	mg/L	0.00046	-0.0102	mg/L	0.00046	4.51%
Ti 337.280	2542843.3	1.50	mg/L	0.016	1.50	mg/L	0.016	1.04%
Tl 190.800	0.1	0.00080	mg/L	0.005906	0.00080	mg/L	0.005906	738.79%
V 292.402	20022.7	0.0725	mg/L	0.00026	0.0725	mg/L	0.00026	0.36%
Zn 206.200	26177.2	0.0720	mg/L	0.00067	0.0720	mg/L	0.00067	0.93%
K 766.490	165225.9	10.8	mg/L	0.15	10.8	mg/L	0.15	1.40%
Na 589.592	276146.6	6.90	mg/L	0.129	6.90	mg/L	0.129	1.87%
Sr 407.771	147430.3	0.136	mg/L	0.0021	0.136	mg/L	0.0021	1.55%

Sequence No.: 5
Sample ID: 0625304
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 6/14/2001 11:36:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0625304

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	5006528.7						24999.21	0.50%
Ag 328.068	-13293.8	-0.0197	mg/L	0.00010	-0.0197	mg/L	0.00010	0.51%
Al 237.312	7563159.6	523	mg/L	4.2	523	mg/L	4.2	0.80%
As 188.979	1752.0	0.157	mg/L	0.0067	0.157	mg/L	0.0067	4.27%
Ba 230.424	1044958.7	3.08	mg/L	0.023	3.08	mg/L	0.023	0.76%
Be 234.861	174863.7	0.0831	mg/L	0.00196	0.0831	mg/L	0.00196	2.36%
Ca 227.549	554497.2	452	mg/L	3.8	452	mg/L	3.8	0.84%
Cd 228.802	866.6	-0.00039	mg/L	0.000308	-0.00039	mg/L	0.000308	79.83%
Co 228.616	79614.7	0.451	mg/L	0.0060	0.451	mg/L	0.0060	1.33%
Cr 267.716	1791728.0	5.35	mg/L	0.042	5.35	mg/L	0.042	0.79%
Cu 327.396	447328.0	1.12	mg/L	0.010	1.12	mg/L	0.010	0.92%
Fe 261.387	9574187.9	421	mg/L	3.0	421	mg/L	3.0	0.71%
Mg 279.079	25261616.2	431	mg/L	5.5	431	mg/L	5.5	1.28%
Mn 257.610	15523106.7	7.90	mg/L	0.111	7.90	mg/L	0.111	1.40%
Mo 202.030	299.1	0.00128	mg/L	0.000070	0.00128	mg/L	0.000070	5.44%
Ni 231.604	482522.6	2.62	mg/L	0.023	2.62	mg/L	0.023	0.88%
Pb 220.353	21817.6	0.785	mg/L	0.0073	0.785	mg/L	0.0073	0.93%
Sb 206.833	6284.7	-0.0137	mg/L	0.00500	-0.0137	mg/L	0.00500	36.55%
Se 196.026	-585.1	-0.0797	mg/L	0.00483	-0.0797	mg/L	0.00483	6.06%
Si 288.158	15271476.3	151	mg/L	2.8	151	mg/L	2.8	1.86%
Sn 189.933	1991.0	0.0385	mg/L	0.00187	0.0385	mg/L	0.00187	4.86%
Ti 337.280	733407.5	0.513	mg/L	0.0041	0.513	mg/L	0.0041	0.79%
Tl 190.800	-6.2	-0.0448	mg/L	0.00221	-0.0448	mg/L	0.00221	4.94%
V 292.402	136232.6	0.504	mg/L	0.0037	0.504	mg/L	0.0037	0.74%
Zn 206.200	663870.5	1.87	mg/L	0.019	1.87	mg/L	0.019	1.02%
K 766.490	2603839.5	171	mg/L	2.3	171	mg/L	2.3	1.31%
Na 589.592	4449975.7	111	mg/L	0.8	111	mg/L	0.8	0.74%
Sr 407.771	4772721.6	4.36	mg/L	0.040	4.36	mg/L	0.040	0.91%

Sequence No.: 6
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/14/2001 11:41:25 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4224694.1						11790.12	0.28%
Ag 328.068	262839.2	0.390	mg/L	0.0002	0.390	mg/L	0.0002	0.05%
QC value within limits for Ag 328.068 Recovery = 97.56%								
Al 237.312	149628.3	10.3	mg/L	0.02	10.3	mg/L	0.02	0.19%
QC value within limits for Al 237.312 Recovery = 103.18%								
As 188.979	6867.3	0.401	mg/L	0.0030	0.401	mg/L	0.0030	0.74%
QC value within limits for As 188.979 Recovery = 100.15%								
Ba 230.424	359056.2	1.05	mg/L	0.004	1.05	mg/L	0.004	0.35%
QC value within limits for Ba 230.424 Recovery = 105.12%								
Be 234.861	81348.9	0.0524	mg/L	0.00002	0.0524	mg/L	0.00002	0.04%
QC value within limits for Be 234.861 Recovery = 104.76%								
Ca 227.549	12741.8	10.5	mg/L	0.04	10.5	mg/L	0.04	0.43%
QC value within limits for Ca 227.549 Recovery = 104.52%								
Cd 228.802	20961.3	0.0508	mg/L	0.00028	0.0508	mg/L	0.00028	0.56%
QC value within limits for Cd 228.802 Recovery = 101.58%								
Co 228.616	38488.1	0.212	mg/L	0.0002	0.212	mg/L	0.0002	0.08%
QC value within limits for Co 228.616 Recovery = 106.23%								
Cr 267.716	176575.8	0.532	mg/L	0.0015	0.532	mg/L	0.0015	0.28%
QC value within limits for Cr 267.716 Recovery = 106.42%								
Cu 327.396	208185.3	0.521	mg/L	0.0005	0.521	mg/L	0.0005	0.09%
QC value within limits for Cu 327.396 Recovery = 104.24%								
Fe 261.387	95403.0	4.23	mg/L	0.001	4.23	mg/L	0.001	0.02%
QC value within limits for Fe 261.387 Recovery = 105.81%								
Mg 279.079	603326.2	10.3	mg/L	0.04	10.3	mg/L	0.04	0.38%
QC value within limits for Mg 279.079 Recovery = 102.79%								
Mn 257.610	1025965.3	0.523	mg/L	0.0014	0.523	mg/L	0.0014	0.26%
QC value within limits for Mn 257.610 Recovery = 104.50%								
Mo 202.030	117943.0	1.04	mg/L	0.005	1.04	mg/L	0.005	0.50%
QC value within limits for Mo 202.030 Recovery = 104.34%								
Ni 231.604	97718.1	0.530	mg/L	0.0009	0.530	mg/L	0.0009	0.16%
QC value within limits for Ni 231.604 Recovery = 105.91%								
Pb 220.353	15216.8	0.518	mg/L	0.0034	0.518	mg/L	0.0034	0.66%
QC value within limits for Pb 220.353 Recovery = 103.60%								
Sb 206.833	36306.9	1.22	mg/L	0.007	1.22	mg/L	0.007	0.54%
QC value within limits for Sb 206.833 Recovery = 101.64%								
Se 196.026	6295.7	0.404	mg/L	0.0028	0.404	mg/L	0.0028	0.70%
QC value within limits for Se 196.026 Recovery = 101.03%								
Si 288.158	534824.5	5.29	mg/L	0.006	5.29	mg/L	0.006	0.12%
QC value within limits for Si 288.158 Recovery = 105.81%								
Sn 189.933	26343.3	0.971	mg/L	0.0165	0.971	mg/L	0.0165	1.70%
QC value within limits for Sn 189.933 Recovery = 97.26%								
Ti 337.280	1740941.8	1.02	mg/L	0.001	1.02	mg/L	0.001	0.12%
QC value within limits for Ti 337.280 Recovery = 102.45%								
Tl 190.800	63.1	0.457	mg/L	0.0155	0.457	mg/L	0.0155	3.40%
QC value within limits for Tl 190.800 Recovery = 91.38%								
V 292.402	293934.0	1.04	mg/L	0.002	1.04	mg/L	0.002	0.24%
QC value within limits for V 292.402 Recovery = 103.66%								
Zn 206.200	353858.9	1.02	mg/L	0.009	1.02	mg/L	0.009	0.88%
QC value within limits for Zn 206.200 Recovery = 102.24%								
K 766.490	729998.3	48.4	mg/L	0.51	48.4	mg/L	0.51	1.05%
QC value within limits for K 766.490 Recovery = 96.75%								
Na 589.592	1913895.5	47.8	mg/L	0.37	47.8	mg/L	0.37	0.78%
QC value within limits for Na 589.592 Recovery = 95.64%								
Sr 407.771	1067268.2	0.977	mg/L	0.0120	0.977	mg/L	0.0120	1.23%
QC value within limits for Sr 407.771 Recovery = 97.67%								

All analytes passed QC.

Sequence No.: 7
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 6/14/2001 11:46:19 PM

Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3673205.9						15094.86	0.41%
Ag 328.068	74.2	0.00011	mg/L	0.000084	0.00011	mg/L	0.000084	76.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	13.5	0.00100	mg/L	0.000337	0.00100	mg/L	0.000337	33.60%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.0	0.00006	mg/L	0.000374	0.00006	mg/L	0.000374	603.71%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	13.3	0.00004	mg/L	0.000024	0.00004	mg/L	0.000024	66.21%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	9.9	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	18.18%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	2.6	0.00195	mg/L	0.004743	0.00195	mg/L	0.004743	243.59%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	3.5	0.00001	mg/L	0.000018	0.00001	mg/L	0.000018	210.88%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	9.6	0.00005	mg/L	0.000022	0.00005	mg/L	0.000022	40.99%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	122.3	0.00036	mg/L	0.000017	0.00036	mg/L	0.000017	4.54%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	34.6	0.00009	mg/L	0.000101	0.00009	mg/L	0.000101	117.18%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	229.3	0.0101	mg/L	0.00029	0.0101	mg/L	0.00029	2.92%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	36.8	0.00063	mg/L	0.000133	0.00063	mg/L	0.000133	21.16%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	6.3	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	8.35%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	90.9	0.00080	mg/L	0.000013	0.00080	mg/L	0.000013	1.58%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	13.0	0.00007	mg/L	0.000020	0.00007	mg/L	0.000020	27.60%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-1.3	-0.00004	mg/L	0.000228	-0.00004	mg/L	0.000228	563.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-12.0	-0.00041	mg/L	0.000017	-0.00041	mg/L	0.000017	4.17%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	7.4	0.00047	mg/L	0.000075	0.00047	mg/L	0.000075	15.76%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	702.5	0.00694	mg/L	0.000275	0.00694	mg/L	0.000275	3.97%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	95.2	0.00349	mg/L	0.000464	0.00349	mg/L	0.000464	13.30%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	-12.9	-0.00001	mg/L	0.000007	-0.00001	mg/L	0.000007	102.57%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	2.2	0.0158	mg/L	0.01428	0.0158	mg/L	0.01428	90.20%
QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated								
V 292.402	-19.7	-0.00007	mg/L	0.000005	-0.00007	mg/L	0.000005	7.03%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-452.0	-0.00131	mg/L	0.000032	-0.00131	mg/L	0.000032	2.42%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	801.9	0.0532	mg/L	0.00112	0.0532	mg/L	0.00112	2.11%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	1833.8	0.0458	mg/L	0.00101	0.0458	mg/L	0.00101	2.20%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-63.8	0.00174	mg/L	0.000008	0.00174	mg/L	0.000008	0.44%
QC value within limits for Sr 407.771 Recovery = Not calculated								

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 6/14/2001 11:53:59 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: 0625304DL.2
Analyst:
Sample Wt:
Dilution: 5X
Autosampler Location: 55
Date Collected: 6/14/2001 11:53:59 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0625304DL.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	4393027.8						31596.05	0.72%
Ag 328.068	-2852.5	-0.00424	mg/L	0.000139	-0.0212	mg/L	0.00069	3.28%
Al 237.312	1860335.7	129	mg/L	1.5	645	mg/L	7.4	1.14%
As 188.979	390.0	0.0370	mg/L	0.00352	0.185	mg/L	0.0176	9.51%
Ba 230.424	269144.0	0.793	mg/L	0.0092	3.96	mg/L	0.046	1.16%
Be 234.861	42751.8	0.0177	mg/L	0.00005	0.0884	mg/L	0.00023	0.26%
Ca 227.549	132875.8	108	mg/L	1.1	538	mg/L	5.3	0.99%
Cd 228.802	171.3	-0.00018	mg/L	0.000053	-0.00090	mg/L	0.000263	29.17%
Co 228.616	19656.4	0.112	mg/L	0.0033	0.560	mg/L	0.0164	2.94%
Cr 267.716	468920.0	1.40	mg/L	0.016	7.01	mg/L	0.082	1.17%
Cu 327.396	101722.6	0.255	mg/L	0.0031	1.27	mg/L	0.015	1.20%
Fe 261.387	3261093.3	143	mg/L	1.5	717	mg/L	7.4	1.03%
Mg 279.079	6466052.7	110	mg/L	1.4	551	mg/L	6.8	1.24%
Mn 257.610	4351589.8	2.21	mg/L	0.024	11.1	mg/L	0.12	1.09%
Mo 202.030	273.8	0.00208	mg/L	0.001519	0.0104	mg/L	0.00759	73.11%
Ni 231.604	118453.4	0.644	mg/L	0.0086	3.22	mg/L	0.043	1.34%
Pb 220.353	5560.7	0.200	mg/L	0.0061	0.998	mg/L	0.0303	3.04%
Sb 206.833	1600.6	-0.00739	mg/L	0.002291	-0.0369	mg/L	0.01146	31.02%
Se 196.026	-61.7	-0.0143	mg/L	0.00650	-0.0715	mg/L	0.03252	45.46%
Si 288.158	3834227.7	38.0	mg/L	0.43	190	mg/L	2.1	1.13%
Sn 189.933	131.7	-0.00361	mg/L	0.002180	-0.0181	mg/L	0.01090	60.33%
Ti 337.280	197290.9	0.139	mg/L	0.0013	0.694	mg/L	0.0064	0.92%
Tl 190.800	-0.3	-0.00196	mg/L	0.005796	-0.00979	mg/L	0.028979	296.05%
V 292.402	35476.2	0.134	mg/L	0.0012	0.670	mg/L	0.0060	0.90%
Zn 206.200	158004.4	0.442	mg/L	0.0059	2.21	mg/L	0.030	1.34%
K 766.490	526835.6	34.6	mg/L	0.95	173	mg/L	4.8	2.76%
Na 589.592	977061.8	24.4	mg/L	0.82	122	mg/L	4.1	3.35%
Sr 407.771	1229586.5	1.12	mg/L	0.028	5.62	mg/L	0.139	2.48%

Sequence No.: 2
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 6/14/2001 11:58:17 PM
Sample Prep Volume:
Data Type: Original

792

Analysis Begun

Start Time: 6/15/2001 12:03:54 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: 0625304DL.1
Analyst:
Sample Wt:
Dilution: 10X
Autosampler Location: 56
Date Collected: 6/15/2001 12:03:54 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0625304DL.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4345777.4						6164.38	0.14%
Ag 328.068	-1429.2	-0.00212	mg/L	0.000086	-0.0212	mg/L	0.00086	4.07%
Al 237.312	959036.3	66.5	mg/L	0.05	665	mg/L	0.5	0.07%
As 188.979	186.4	0.0185	mg/L	0.00042	0.185	mg/L	0.0042	2.26%
Ba 230.424	142941.5	0.421	mg/L	0.0008	4.21	mg/L	0.008	0.19%
Be 234.861	22487.7	0.00904	mg/L	0.000176	0.0904	mg/L	0.00176	1.94%
Ca 227.549	70521.2	57.0	mg/L	0.08	570	mg/L	0.8	0.14%
Cd 228.802	103.4	-0.00006	mg/L	0.000020	-0.00058	mg/L	0.000205	35.57%
Co 228.616	10508.6	0.0599	mg/L	0.00035	0.599	mg/L	0.0035	0.58%
Cr 267.716	251662.5	0.752	mg/L	0.0007	7.52	mg/L	0.007	0.10%
Cu 327.396	52785.2	0.132	mg/L	0.0001	1.32	mg/L	0.001	0.10%
Fe 261.387	1809555.8	79.5	mg/L	0.11	795	mg/L	1.1	0.13%
Mg 279.079	3359838.1	57.3	mg/L	0.17	573	mg/L	1.7	0.30%
Mn 257.610	2350359.8	1.20	mg/L	0.001	12.0	mg/L	0.01	0.12%
Mo 202.030	206.3	0.00164	mg/L	0.000488	0.0164	mg/L	0.00488	29.65%
Ni 231.604	63048.2	0.343	mg/L	0.0000	3.43	mg/L	0.000	0.00%
Pb 220.353	2947.4	0.106	mg/L	0.0005	1.06	mg/L	0.005	0.50%
Sb 206.833	814.5	-0.00539	mg/L	0.000070	-0.0539	mg/L	0.00070	1.29%
Se 196.026	-55.8	-0.00892	mg/L	0.000166	-0.0892	mg/L	0.00166	1.86%
Si 288.158	2017635.8	20.0	mg/L	0.00	200	mg/L	0.0	0.02%
Sn 189.933	-117.0	-0.00862	mg/L	0.000044	-0.0862	mg/L	0.00044	0.52%
Ti 337.280	103987.2	0.0734	mg/L	0.00002	0.734	mg/L	0.0002	0.03%
Tl 190.800	1.0	0.00701	mg/L	0.006767	0.0701	mg/L	0.06767	96.54%
V 292.402	18936.8	0.0718	mg/L	0.00007	0.718	mg/L	0.0007	0.10%
Zn 206.200	85919.3	0.241	mg/L	0.0014	2.41	mg/L	0.014	0.57%
K 766.490	253165.6	16.6	mg/L	0.10	166	mg/L	1.0	0.59%
Na 589.592	483390.9	12.1	mg/L	0.14	121	mg/L	1.4	1.18%
Sr 407.771	621122.0	0.569	mg/L	0.0026	5.69	mg/L	0.026	0.46%

Sequence No.: 2
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 6/15/2001 12:08:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4130841.5						28245.32	0.68%
Ag 328.068	258478.1	0.384	mg/L	0.0044	0.384	mg/L	0.0044	1.16%
QC value within limits for Ag 328.068 Recovery = 95.94%								
Al 237.312	147060.8	10.1	mg/L	0.10	10.1	mg/L	0.10	1.01%
QC value within limits for Al 237.312 Recovery = 101.41%								
As 188.979	6748.8	0.394	mg/L	0.0027	0.394	mg/L	0.0027	0.69%
QC value within limits for As 188.979 Recovery = 98.42%								
Ba 230.424	353300.8	1.03	mg/L	0.010	1.03	mg/L	0.010	1.01%

QC value within limits for Ba 230.424 Recovery = 103.43%

Be 234.861	80150.7	0.0516 mg/L	0.00048	0.0516 mg/L	0.00048	0.94%

QC value within limits for Be 234.861 Recovery = 103.23%

Ca 227.549	12538.6	10.3 mg/L	0.06	10.3 mg/L	0.06	0.55%

QC value within limits for Ca 227.549 Recovery = 102.86%

Cd 228.802	20623.3	0.0500 mg/L	0.00030	0.0500 mg/L	0.00030	0.60%

QC value within limits for Cd 228.802 Recovery = 99.95%

Co 228.616	38003.3	0.210 mg/L	0.0022	0.210 mg/L	0.0022	1.04%

QC value within limits for Co 228.616 Recovery = 104.90%

Cr 267.716	173560.1	0.523 mg/L	0.0046	0.523 mg/L	0.0046	0.88%

QC value within limits for Cr 267.716 Recovery = 104.61%

Cu 327.396	204835.2	0.513 mg/L	0.0057	0.513 mg/L	0.0057	1.10%

QC value within limits for Cu 327.396 Recovery = 102.56%

Fe 261.387	92778.7	4.12 mg/L	0.054	4.12 mg/L	0.054	1.31%

QC value within limits for Fe 261.387 Recovery = 102.91%

Mg 279.079	592132.9	10.1 mg/L	0.10	10.1 mg/L	0.10	1.01%

QC value within limits for Mg 279.079 Recovery = 100.89%

Mn 257.610	1010170.0	0.514 mg/L	0.0047	0.514 mg/L	0.0047	0.92%

QC value within limits for Mn 257.610 Recovery = 102.89%

Mo 202.030	116252.4	1.02 mg/L	0.010	1.02 mg/L	0.010	0.98%

QC value within limits for Mo 202.030 Recovery = 102.85%

Ni 231.604	95815.4	0.519 mg/L	0.0036	0.519 mg/L	0.0036	0.69%

QC value within limits for Ni 231.604 Recovery = 103.85%

Pb 220.353	14971.0	0.510 mg/L	0.0030	0.510 mg/L	0.0030	0.59%

QC value within limits for Pb 220.353 Recovery = 101.93%

Sb 206.833	35694.1	1.20 mg/L	0.006	1.20 mg/L	0.006	0.48%

QC value within limits for Sb 206.833 Recovery = 99.93%

Se 196.026	6184.6	0.397 mg/L	0.0030	0.397 mg/L	0.0030	0.76%

QC value within limits for Se 196.026 Recovery = 99.25%

Si 288.158	525697.1	5.20 mg/L	0.054	5.20 mg/L	0.054	1.05%

QC value within limits for Si 288.158 Recovery = 104.00%

Sn 189.933	26179.3	0.965 mg/L	0.0089	0.965 mg/L	0.0089	0.93%

QC value within limits for Sn 189.933 Recovery = 96.65%

Ti 337.280	1714311.3	1.01 mg/L	0.010	1.01 mg/L	0.010	1.04%

QC value within limits for Ti 337.280 Recovery = 100.88%

Tl 190.800	64.5	0.467 mg/L	0.0203	0.467 mg/L	0.0203	4.35%

QC value within limits for Tl 190.800 Recovery = 93.41%

V 292.402	289378.6	1.02 mg/L	0.010	1.02 mg/L	0.010	1.02%

QC value within limits for V 292.402 Recovery = 102.06%

Zn 206.200	347887.2	1.01 mg/L	0.007	1.01 mg/L	0.007	0.68%

QC value within limits for Zn 206.200 Recovery = 100.51%

K 766.490	736094.3	48.8 mg/L	1.40	48.8 mg/L	1.40	2.87%

QC value within limits for K 766.490 Recovery = 97.56%

Na 589.592	1938777.5	48.4 mg/L	1.41	48.4 mg/L	1.41	2.92%

QC value within limits for Na 589.592 Recovery = 96.88%

Sr 407.771	1076488.0	0.985 mg/L	0.0317	0.985 mg/L	0.0317	3.21%

QC value within limits for Sr 407.771 Recovery = 98.51%

All analytes passed QC.

Sequence No.: 3
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/15/2001 12:13:43 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3721250.5						57683.89	1.55%
Ag 328.068	73.7	0.00011	mg/L	0.000173	0.00011	mg/L	0.000173	157.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	26.8	0.00191	mg/L	0.000013	0.00191	mg/L	0.000013	0.66%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.6	0.00009	mg/L	0.000265	0.00009	mg/L	0.000265	286.85%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	18.0	0.00005	mg/L	0.000012	0.00005	mg/L	0.000012	24.19%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	5.2	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	15.00%
QC value within limits for Be 234.861 Recovery = Not calculated								

Ca	227.549	-7.0	-0.00601 mg/L	0.002545	-0.00601 mg/L	0.002545	42.34%
	QC value within limits for Ca 227.549 Recovery = Not calculated							
Cd	228.802	-0.5	0.00000 mg/L	0.000008	0.00000 mg/L	0.000008	506.17%
	QC value within limits for Cd 228.802 Recovery = Not calculated							
Co	228.616	4.3	0.00002 mg/L	0.000032	0.00002 mg/L	0.000032	129.15%
	QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716	100.8	0.00030 mg/L	0.000007	0.00030 mg/L	0.000007	2.34%
	QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	327.396	-31.3	-0.00008 mg/L	0.000171	-0.00008 mg/L	0.000171	218.27%
	QC value within limits for Cu 327.396 Recovery = Not calculated							
Fe	261.387	203.2	0.00893 mg/L	0.000652	0.00893 mg/L	0.000652	7.30%
	QC value within limits for Fe 261.387 Recovery = Not calculated							
Mg	279.079	11.3	0.00019 mg/L	0.000012	0.00019 mg/L	0.000012	6.39%
	QC value within limits for Mg 279.079 Recovery = Not calculated							
Mn	257.610	1.9	0.00000 mg/L	0.000003	0.00000 mg/L	0.000003	509.31%
	QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.030	86.7	0.00076 mg/L	0.000001	0.00076 mg/L	0.000001	0.09%
	QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni	231.604	11.5	0.00006 mg/L	0.000024	0.00006 mg/L	0.000024	37.92%
	QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353	-4.2	-0.00014 mg/L	0.000322	-0.00014 mg/L	0.000322	228.06%
	QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.833	-6.1	-0.00021 mg/L	0.000286	-0.00021 mg/L	0.000286	134.59%
	QC value within limits for Sb 206.833 Recovery = Not calculated							
Se	196.026	5.4	0.00035 mg/L	0.001061	0.00035 mg/L	0.001061	306.26%
	QC value within limits for Se 196.026 Recovery = Not calculated							
Si	288.158	471.3	0.00465 mg/L	0.000441	0.00465 mg/L	0.000441	9.48%
	QC value within limits for Si 288.158 Recovery = Not calculated							
Sn	189.933	95.9	0.00352 mg/L	0.000353	0.00352 mg/L	0.000353	10.03%
	QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti	337.280	65.2	0.00004 mg/L	0.000021	0.00004 mg/L	0.000021	54.85%
	QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl	190.800	2.2	0.0156 mg/L	0.00360	0.0156 mg/L	0.00360	23.15%
	QC value greater than the upper limit for Tl 190.800 Recovery = Not calculated							
V	292.402	-17.6	-0.00006 mg/L	0.000089	-0.00006 mg/L	0.000089	144.36%
	QC value within limits for V 292.402 Recovery = Not calculated							
Zn	206.200	-459.1	-0.00133 mg/L	0.000052	-0.00133 mg/L	0.000052	3.93%
	QC value within limits for Zn 206.200 Recovery = Not calculated							
K	766.490	510.0	0.0338 mg/L	0.00201	0.0338 mg/L	0.00201	5.95%
	QC value within limits for K 766.490 Recovery = Not calculated							
Na	589.592	1567.9	0.0392 mg/L	0.00164	0.0392 mg/L	0.00164	4.19%
	QC value within limits for Na 589.592 Recovery = Not calculated							
Sr	407.771	-41.1	0.00176 mg/L	0.000051	0.00176 mg/L	0.000051	2.89%
	QC value within limits for Sr 407.771 Recovery = Not calculated							

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 6/15/2001 12:41:59 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 6/14/2001 8:07:41 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\061401.sif
Results Data Set: 061401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: 0623708DL.2
Analyst:
Sample Wt:
Dilution: 5X
Autosampler Location: 57
Date Collected: 6/15/2001 12:41:59 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0623708DL.2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3950648.8						62014.94	1.57%
Ag 328.068	-139.5	-0.00021	mg/L	0.000078	-0.00104	mg/L	0.000389	37.54%
Al 237.312	30883.5	2.39	mg/L	0.031	11.9	mg/L	0.15	1.28%
As 188.979	130.6	0.00730	mg/L	0.000291	0.0365	mg/L	0.00145	3.98%
Ba 230.424	28765.9	0.0851	mg/L	0.00077	0.425	mg/L	0.0039	0.91%
Be 234.861	4020.4	0.00024	mg/L	0.000034	0.00121	mg/L	0.000169	13.91%
Ca 227.549	31538.5	25.5	mg/L	0.22	127	mg/L	1.1	0.87%
Cd 228.802	31.8	0.00003	mg/L	0.000020	0.00014	mg/L	0.000098	70.51%
Co 228.616	1026.6	0.00612	mg/L	0.000029	0.0306	mg/L	0.00015	0.48%
Cr 267.716	1632.6	0.00641	mg/L	0.000039	0.0320	mg/L	0.00020	0.62%
Cu 327.396	1632.2	0.00405	mg/L	0.000075	0.0202	mg/L	0.00038	1.86%
Fe 261.387	821261.4	36.1	mg/L	0.36	181	mg/L	1.8	0.99%
Mg 279.079	233811.3	3.98	mg/L	0.049	19.9	mg/L	0.25	1.24%
Mn 257.610	1486143.1	0.758	mg/L	0.0087	3.79	mg/L	0.044	1.15%
Mo 202.030	-39.0	-0.00035	mg/L	0.000352	-0.00175	mg/L	0.001760	100.84%
Ni 231.604	415.4	0.00274	mg/L	0.000039	0.0137	mg/L	0.00020	1.44%
Pb 220.353	420.4	0.0145	mg/L	0.00009	0.0724	mg/L	0.00046	0.64%
Sb 206.833	131.2	-0.00030	mg/L	0.000059	-0.00148	mg/L	0.000293	19.78%
Se 196.026	-19.0	-0.00137	mg/L	0.000392	-0.00686	mg/L	0.001962	28.61%
Si 288.158	445918.2	4.42	mg/L	0.050	22.1	mg/L	0.25	1.13%
Sn 189.933	-319.6	-0.0108	mg/L	0.00030	-0.0539	mg/L	0.00149	2.76%
Ti 337.280	238902.6	0.146	mg/L	0.0017	0.731	mg/L	0.0085	1.16%
Tl 190.800	1.2	0.00854	mg/L	0.005641	0.0427	mg/L	0.02820	66.04%
V 292.402	1012.0	0.00634	mg/L	0.000055	0.0317	mg/L	0.00027	0.87%
Zn 206.200	13380.7	0.0360	mg/L	0.00057	0.180	mg/L	0.0028	1.57%
K 766.490	77014.6	5.09	mg/L	0.003	25.5	mg/L	0.02	0.06%
Na 589.592	124407.3	3.11	mg/L	0.004	15.5	mg/L	0.02	0.13%
Sr 407.771	141836.7	0.131	mg/L	0.0004	0.657	mg/L	0.0020	0.30%

Sequence No.: 2
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 6/15/2001 12:46:52 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4202790.5						7521.47	0.18%
Ag 328.068	260793.8	0.387	mg/L	0.0012	0.387	mg/L	0.0012	0.30%
QC value within limits for Ag 328.068 Recovery = 96.80%								
Al 237.312	147845.7	10.2	mg/L	0.03	10.2	mg/L	0.03	0.31%
QC value within limits for Al 237.312 Recovery = 101.95%								
As 188.979	6795.6	0.396	mg/L	0.0006	0.396	mg/L	0.0006	0.15%
QC value within limits for As 188.979 Recovery = 99.10%								
Ba 230.424	354150.9	1.04	mg/L	0.003	1.04	mg/L	0.003	0.30%

```
   QC value within limits for Ba 230.424  Recovery = 103.68%
Be 234.861          80345.0      0.0517 mg/L       0.00007      0.0517 mg/L       0.00007   0.13%
   QC value within limits for Be 234.861  Recovery = 103.48%
Ca 227.549          12554.8        10.3 mg/L          0.00        10.3 mg/L          0.00   0.04%
   QC value within limits for Ca 227.549  Recovery = 102.99%
Cd 228.802          20728.7      0.0502 mg/L       0.00007      0.0502 mg/L       0.00007   0.14%
   QC value within limits for Cd 228.802  Recovery = 100.45%
Co 228.616          37984.2       0.210 mg/L        0.0022       0.210 mg/L        0.0022   1.03%
   QC value within limits for Co 228.616  Recovery = 104.84%
Cr 267.716         174126.2       0.525 mg/L        0.0010       0.525 mg/L        0.0010   0.19%
   QC value within limits for Cr 267.716  Recovery = 104.95%
Cu 327.396         206137.9       0.516 mg/L        0.0006       0.516 mg/L        0.0006   0.12%
   QC value within limits for Cu 327.396  Recovery = 103.21%
Fe 261.387          93016.2        4.13 mg/L         0.011        4.13 mg/L         0.011   0.27%
   QC value within limits for Fe 261.387  Recovery = 103.17%
Mg  279.079         592357.9        10.1 mg/L          0.03        10.1 mg/L          0.03   0.29%
   QC value within limits for Mg  279.079  Recovery = 100.92%
Mn 257.610         1013872.4       0.516 mg/L        0.0008       0.516 mg/L        0.0008   0.15%
   QC value within limits for Mn 257.610  Recovery = 103.27%
Mo 202.030          116477.8        1.03 mg/L         0.004        1.03 mg/L         0.004   0.36%
   QC value within limits for Mo 202.030  Recovery = 103.05%
Ni 231.604           96118.8       0.521 mg/L        0.0007       0.521 mg/L        0.0007   0.13%
   QC value within limits for Ni 231.604  Recovery = 104.18%
Pb 220.353           15050.5       0.512 mg/L        0.0005       0.512 mg/L        0.0005   0.10%
   QC value within limits for Pb 220.353  Recovery = 102.47%
Sb 206.833           35846.4        1.21 mg/L         0.001        1.21 mg/L         0.001   0.07%
   QC value within limits for Sb 206.833  Recovery = 100.35%
Se 196.026            6202.3       0.398 mg/L        0.0013       0.398 mg/L        0.0013   0.34%
   QC value within limits for Se 196.026  Recovery = 99.53%
Si 288.158          526869.7        5.21 mg/L          0.006        5.21 mg/L          0.006   0.12%
   QC value within limits for Si 288.158  Recovery = 104.23%
Sn 189.933           27111.6       0.999 mg/L        0.0103       0.999 mg/L        0.0103   1.03%
   QC value within limits for Sn 189.933  Recovery = 100.07%
Ti 337.280         1724745.7        1.01 mg/L         0.003        1.01 mg/L         0.003   0.30%
   QC value within limits for Ti 337.280  Recovery = 101.49%
Tl 190.800              62.0       0.449 mg/L        0.0064       0.449 mg/L        0.0064   1.42%
   QC value less than the lower limit for Tl 190.800  Recovery = 89.81%
V 292.402           290600.2        1.02 mg/L         0.004        1.02 mg/L         0.004   0.42%
   QC value within limits for V 292.402  Recovery = 102.49%
Zn 206.200           346981.1        1.00 mg/L         0.004        1.00 mg/L         0.004   0.41%
   QC value within limits for Zn 206.200  Recovery = 100.25%
K 766.490            724145.1        48.0 mg/L          1.59        48.0 mg/L          1.59   3.31%
   QC value within limits for K 766.490  Recovery = 95.97%
Na 589.592          1904592.3        47.6 mg/L          1.68        47.6 mg/L          1.68   3.53%
   QC value within limits for Na 589.592  Recovery = 95.18%
Sr 407.771          1058304.9       0.968 mg/L        0.0294       0.968 mg/L        0.0294   3.04%
   QC value within limits for Sr 407.771  Recovery = 96.85%
QC Failed.  Continue with analysis.
```

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 6/15/2001 12:51:47 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3747507.7						7791.61	0.21%
Ag 328.068	50.3	0.00007	mg/L	0.000091	0.00007	mg/L	0.000091	121.45%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	31.1	0.00221	mg/L	0.000168	0.00221	mg/L	0.000168	7.60%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-2.2	-0.00013	mg/L	0.000062	-0.00013	mg/L	0.000062	48.45%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	15.8	0.00004	mg/L	0.000024	0.00004	mg/L	0.000024	55.70%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	2.6	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	289.86%
QC value within limits for Be 234.861 Recovery = Not calculated								

Ca 227.549	-0.2	-0.00034 mg/L	0.003489	-0.00034 mg/L	0.003489	>999.9%
QC value within limits for Ca 227.549 Recovery = Not calculated						
Cd 228.802	-8.3	-0.00002 mg/L	0.000005	-0.00002 mg/L	0.000005	25.66%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	7.6	0.00004 mg/L	0.000012	0.00004 mg/L	0.000012	28.44%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	55.6	0.00017 mg/L	0.000051	0.00017 mg/L	0.000051	30.89%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.396	44.1	0.00011 mg/L	0.000109	0.00011 mg/L	0.000109	98.89%
QC value within limits for Cu 327.396 Recovery = Not calculated						
Fe 261.387	201.8	0.00887 mg/L	0.000218	0.00887 mg/L	0.000218	2.46%
QC value within limits for Fe 261.387 Recovery = Not calculated						
Mg 279.079	16.6	0.00028 mg/L	0.000138	0.00028 mg/L	0.000138	48.84%
QC value within limits for Mg 279.079 Recovery = Not calculated						
Mn 257.610	-5.1	0.00000 mg/L	0.000006	0.00000 mg/L	0.000006	216.72%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	78.2	0.00069 mg/L	0.000054	0.00069 mg/L	0.000054	7.87%
QC value within limits for Mo 202.030 Recovery = Not calculated						
Ni 231.604	16.8	0.00009 mg/L	0.000008	0.00009 mg/L	0.000008	8.44%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	0.4	0.00001 mg/L	0.000129	0.00001 mg/L	0.000129	895.76%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-10.3	-0.00035 mg/L	0.000028	-0.00035 mg/L	0.000028	7.86%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-0.7	-0.00004 mg/L	0.001089	-0.00004 mg/L	0.001089	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	125.8	0.00124 mg/L	0.000048	0.00124 mg/L	0.000048	3.88%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	76.7	0.00281 mg/L	0.000414	0.00281 mg/L	0.000414	14.74%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	-103.1	-0.00006 mg/L	0.000022	-0.00006 mg/L	0.000022	36.17%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	1.2	0.00879 mg/L	0.004280	0.00879 mg/L	0.004280	48.70%
QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	-26.5	-0.00009 mg/L	0.000019	-0.00009 mg/L	0.000019	20.40%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	-485.3	-0.00140 mg/L	0.000055	-0.00140 mg/L	0.000055	3.93%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	98.9	0.00656 mg/L	0.004978	0.00656 mg/L	0.004978	75.89%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	1040.9	0.0260 mg/L	0.00228	0.0260 mg/L	0.00228	8.75%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-45.1	0.00176 mg/L	0.000033	0.00176 mg/L	0.000033	1.88%
QC value within limits for Sr 407.771 Recovery = Not calculated						

All analytes passed QC.

Metals

Date: 6/18/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: 99534

	Analyst
Calibration/Linearity	
ICV/CCV	
ICB/CCB	
icsa/icsab/cri	
Blank/LCS	
MS/MSD	
Postspike/Serial Dilution	
Duplicate	
Record Results	
Excel Spreadsheets	
Results Reporting / Data Qualifiers	
Calculations & Correct Factors	
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data	

Primary Reviewer Initials & Date Checked JYH 6/18/01

Secondary Reviewer Initials & Date Checked [signature] 6/18/01

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

799

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST TJH DATE 6/18/01 TIME 10:34
METHOD # 6020A SOP # MC700 Rev # 0 WORK GROUP # 99534
CAL STD SOURCE MJ-10-11B ICV/CCV SOURCE MJ-10-2B
ICS AB SOURCE MJ-10-9B ICS A SOURCE MJ-10-10A POST SPK SOURCE MS-1 8-6
Instrument ID: TJA IRIS: _____ Data File: 06180 1 Perkin Elmer Optima: _____ Perkin Elmer ELAN: ✓

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	SC			
	1 1/10			
	2 1/5			
	3			
	LLK			
	ICB			
	ICSA			
	ICSAB			ccv/ccb
1.	PBW X		40/50	499505 -03
2.	LCSW X *	2		04
3.	062780 1	2		02
4.	01 DP			07
5.	062906			
6.	07S			05
7.	08SD			06
8.	06 PS			
9.	06 SDL	10		
10.	062780 1	2		ccv/ccb
11.	062970 1			
12.	02			
13.	03			
14.	04			
15.	063082 1			
16.	063310 6			
17.	063320 5			
18.	06			
19.	063290 1			
20.	02			ccv/ccb
21.	03			
22.	04			
23.	05			
24.	062780 1	20		02
25.	01 DP	20		07
26.	063290 5 PS	2		

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
27.	063290 5 SDL	10	40/50	
28.	ICSA			
29.	ICSAB			ccv/ccb
30.				
31.				
32.				
33.				
34.				
35.				
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59.			TJH	6/18/01
60.				

Reviewed by: _____

Comments: * 062360 1 was run after LCSW X before 062780 1

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key: CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020A AAB#: WG99534

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 18-Jun-01 Initial Calibration ID: ELAN-ICP 18-JUN-01

Instrument ID: ELAN-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Antimony	0	37.474	0.01	34836	0.02	70518	0.1	358516			0.99999	
Selenium	0	66.226	0.01	867.59	0.02	1676.1	0.1	8332.7			0.99999	
Thallium	0	144.67	0.01	50234	0.02	98364	0.1	503746			0.99999	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: Jyh
DATE: Monday, June 18, 2001

UNITS: ug/L

ICV Time: 10:47 AM
CCV1 Time: 11:07 AM
CCV2 Time: 12:07 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	54.5	109.0	50	56.6	113.2	56.0	112.0	*
Antimony	50	52.5	105.0	50	51.6	103.2	50.7	101.4	
Arsenic	50	51.7	103.4	50	51.3	102.6	50.3	100.6	
Barium	50	61.1	122.2	50	61.0	122.0	47.6	95.2	*
Beryllium	50	49.2	98.4	50	79.1	158.2	42.6	85.2	*
Cadmium	50	52.2	104.4	50	53.5	107.0	51.0	102.0	
Calcium	5000	4710	94.2	5000	4750	95.0	4010	80.2	*
Chromium	50	45.8	91.6	50	43.7	87.4	46.2	92.4	*
Cobalt	50	54.1	108.2	50	56.1	112.2	54.1	108.2	*
Copper	50	41.2	82.4	50	35.7	71.4	47.3	94.6	*
Iron	5000	4360	87.2	5000	5390	107.8	4440	88.8	*
Lead	50	50.6	101.2	50	50.4	100.8	48.5	97.0	
Magnesium	5000	4300	86.0	5000	5210	104.2	4730	94.6	*
Manganese	50	57.2	114.4	50	50.7	101.4	48.3	96.6	*
Nickel	50	53.1	106.2	50	60.0	120.0	44.1	88.2	*
Potassium	5000	4470	89.4	5000	5750	115.0	5230	104.6	*
Selenium	50	51.9	103.8	50	52.9	105.8	51.6	103.2	
Silver	50	54.4	108.8	50	55.0	110.0	51.5	103.0	
Sodium	5000	4930	98.6	5000	5100	102.0	4980	99.6	
Thallium	50	49.4	98.8	50	49.7	99.4	48.3	96.6	
Vanadium	50	48.7	97.4	50	51.4	102.8	56.0	112.0	*
Zinc	50	47.3	94.6	50	43.0	86.0	42.8	85.6	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: Jyh
DATE: Monday, June 18, 2001

UNITS: ug/L

ICV Time: 10:47 AM
CCV1 Time: 1:07 PM
CCV2 Time: 2:07 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	54.5	109.0	50	46.6	93.2	55.5	111.0	*
Antimony	50	52.5	105.0	50	53.0	106.0	51.9	103.8	
Arsenic	50	51.7	103.4	50	50.3	100.6	51.3	102.6	
Barium	50	61.1	122.2	50	53.5	107.0	55.7	111.4	*
Beryllium	50	49.2	98.4	50	46.9	93.8	50.3	100.6	
Cadmium	50	52.2	104.4	50	51.7	103.4	51.2	102.4	
Calcium	5000	4710	94.2	5000	3670	73.4	4250	85.0	*
Chromium	50	45.8	91.6	50	48.0	96.0	57.7	115.4	*
Cobalt	50	54.1	108.2	50	56.1	112.2	52.9	105.8	*
Copper	50	41.2	82.4	50	49.9	99.8	48.9	97.8	*
Iron	5000	4360	87.2	5000	4200	84.0	4600	92.0	*
Lead	50	50.6	101.2	50	49.8	99.6	48.9	97.8	
Magnesium	5000	4300	86.0	5000	3650	73.0	4500	90.0	*
Manganese	50	57.2	114.4	50	51.8	103.6	48.5	97.0	*
Nickel	50	53.1	106.2	50	54.3	108.6	56.4	112.8	*
Potassium	5000	4470	89.4	5000	4260	85.2	4630	92.6	*
Selenium	50	51.9	103.8	50	50.5	101.0	52.2	104.4	
Silver	50	54.4	108.8	50	52.5	105.0	52.2	104.4	
Sodium	5000	4930	98.6	5000	4160	83.2	4880	97.6	*
Thallium	50	49.4	98.8	50	48.9	97.8	49.0	98.0	
Vanadium	50	48.7	97.4	50	59.0	118.0	56.7	113.4	*
Zinc	50	47.3	94.6	50	50.1	100.2	47.8	95.6	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	Jyh
DATE:	Monday, June 18, 2001
UNITS:	ug/L
ICB Time:	10:52:39
CCB1 Time:	11:12:38
CCB2 Time:	12:12:26
CCB3 Time:	13:12:19

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1	CCB2	CCB3
		1	2	3
Aluminum	-0.872	1.60	-0.546	-1.12
Antimony	0.123	0.0999	0.099	0.0811
Arsenic	0.0134	0.0134	0.0467	-0.0719
Barium	0	0	0	0
Beryllium	0	0	0	0
Cadmium	0.0128	-0.0125	-0.0004	-0.0013
Calcium	121	62.9	64.2	112
Chromium	-1.04	-1.15	-0.893	-6.01
Cobalt	0	0	0.196	0.191
Copper	-0.0027	-0.329	0.0138	-0.329
Iron	-22.4	-13.5	-11.2	14.5
Lead	0.033	0.0143	0.0246	0.0223
Magnesium	0.80	0.40	1.30	1
Manganese	0.0002	0.0694	0.0003	0.0657
Nickel	0	0	0	0.448
Potassium	-11.2	-24.9	-4.80	68.3
Selenium	-0.015	0.0296	0.0288	-0.0669
Silver	0.0078	0	0.0081	0
Sodium	0	2.20	1.20	3.5
Thallium	-0.0147	-0.0078	-0.0215	-0.0237
Vanadium	0.134	-0.338	-0.823	-0.0867
Zinc	0.0011	-0.503	0.546	-0.0368

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: Jyh
DATE: Monday, June 18, 2001

UNITS: ug/L

ICB Time: 10:52:39
CCB1 Time: 14:12:31
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-0.872		0.0974					
Antimony	0.123		0.0937					
Arsenic	0.0134		-0.007					
Barium	0		0					
Beryllium	0		0					
Cadmium	0.0128		0.0264					
Calcium	121		137					
Chromium	-1.04		-4.06					
Cobalt	0		0					
Copper	-0.0027		-0.329					
Iron	-22.4		4.60					
Lead	0.033		0.0181					
Magnesium	0.80		3.30					
Manganese	0.0002		-0.0747					
Nickel	0		0					
Potassium	-11.2		80.2					
Selenium	-0.015		-0.0669					
Silver	0.0078		0.0481					
Sodium	0		1.30					
Thallium	-0.0147		-0.0114					
Vanadium	0.134		0.0016					
Zinc	0.0011		-0.503					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID:	PE - ICP/MS
METHOD:	6020A
ANALYST:	Jyh
DATE:	Monday, June 18, 2001
UNITS:	ug/L
ICSA Time:	10:57:38
ICSAB Time:	11:02:39

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	8000	9190.0	91.9	
Antimony	0	0	0	0.2		
Arsenic	0	10	0	10.1	101.0	
Barium	0	0	0	0.0		
Beryllium	0	0	2	0.0		
Cadmium	0	10	0	11.4	114.0	
Calcium	30000	30000	22500	28000.0	93.3	
Chromium	0	20	0	15.2	76.0	*
Cobalt	0	20	0	19.7	98.5	
Copper	0	20	0	20.3	101.5	
Iron	25000	25000	16600	19900.0	79.6	*
Lead	0	0	0	0.1		
Magnesium	10000	10000	7970	8800.0	88.0	
Manganese	0	20	1	20.1	100.5	
Nickel	0	20	1	16.8	84.0	
Potassium	10000	10000	8350	10100.0	101.0	
Selenium	0	10	0	10.6	106.0	
Silver	0	5	0	5.6	111.4	
Sodium	25000	25000	20900	26500.0	106.0	
Thallium	0	0	0	0.0		
Vanadium	0	20	-3	20.5	102.5	
Zinc	0	10	2	8.8	87.9	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - ICP/MS
METHOD: 6020
ANALYST: JYH
DATE: Monday, June 18, 2001

UNITS: ug/L

Spiked Sample Time: 11:57 AM
Sample Time: 11:42 AM

Sample ID: 0632906 PS

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	179		59.5		125	95.6	
Antimony	75-125	132		0.5	U	125	105.6	
Arsenic	75-125	126		1.60		125	99.5	
Barium	75-125	156		20.3		125	108.6	
Beryllium	75-125	193		0		125	154.4	N
Cadmium	75-125	126		0.0914	B	125	100.7	
Calcium	75-125							N
Chromium	75-125	85.5		0.793	U	125	68.4	N
Cobalt	75-125	152		0.733	B	125	121.0	
Copper	75-125	94.9		0.845	B	125	75.2	
Iron	75-125	92.2		91.8		125	0.3	N
Lead	75-125	125		0.5	U	125	100.0	
Magnesium	75-125	3330		3350		125	-16.0	N
Manganese	75-125	151		2.66		125	118.7	
Nickel	75-125	156		1.13	B	125	123.9	
Potassium	75-125	1820		1610		125	168.0	N
Selenium	75-125	121		1.09		125	95.9	
Silver	75-125	124		0.0388	B	125	99.2	
Sodium	75-125	11100		10400		125	560.0	N
Thallium	75-125	121		0.1	U	125	96.8	
Vanadium	75-125	148		21.7		125	101.0	
Zinc	75-125	126		8.83		125	93.7	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
9-IN
INSTRUMENT DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 11/10/2000

Units: ug/L

Analyte	Wave-length /Mass	IDL
Antimony	123	0.014
Arsenic	75	0.049
Cadmium	114	0.003
Lead	208	0.005
Selenium	82	0.099
Thallium	203	0.002

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351

ILM05.0

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	1	0.349
Arsenic	75	1	0.277
Cadmium	114	0.5	0.021
Chromium	52	4	0.793
Cobalt	59	0.8	0.043
Copper	65	2	0.181
Lead	208	1	0.360
Manganese	55	2	0.487
Nickel	60	2	0.063
Selenium	82	1	0.244
Silver	107	2	0.036
Thallium	203	0.2	0.026
Vanadium	51	5	0.471

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Instrument Tuning Report

File Name: 060501.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	588	2064	0.732	
Li	7.016	7.029	1560	2060	0.701	
Co	58.933	59.028	14264	1950	0.761	
In	114.904	114.929	27923	1939	0.744	
Tl	204.975	204.975	49689	2242	0.697	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.420
3.000	0.531
4.000	15.014
5.000	61.341
6.000	1.228
7.000	2.361 ✓
8.000	59.087
9.000	2.991
58.000	1.699
59.000	1.018 ✓
60.000	9.040
114.000	1.997
115.000	0.821 ✓
116.000	15.435
204.000	2.979
205.000	0.761 ✓
206.000	0.948

Report Date/Time: Monday, June 18, 2001 09:28:40
Page 1

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Instrument Tuning Report

File Name: 060501.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.976	580	2064	0.734	
Li	7.016	6.979	1551	2060	0.705	
Co	58.933	58.929	14262	1950	0.754	
In	114.904	114.879	27916	1939	0.744	
Tl	204.975	204.976	49689	2242	0.701	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.597	
3.000	0.781	
4.000	22.290	
5.000	32.890	
6.000	1.123	
7.000	1.558	✓
8.000	33.182	
9.000	4.161	
58.000	4.758	
59.000	1.544	✓
60.000	10.103	
114.000	2.125	
115.000	1.255	✓
116.000	20.210	
204.000	1.859	
205.000	0.983	✓
206.000	1.726	

Report Date/Time: Monday, June 18, 2001 09:30:53
Page 1

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Instrument Tuning Report

File Name: 060501.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	581	2064	0.741	
Li	7.016	6.979	1542	2060	0.706	
Co	58.933	58.878	14248	1950	0.750	
In	114.904	114.879	27909	1939	0.742	
Tl	204.975	205.026	49701	2242	0.700	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.408
3.000	0.573
4.000	17.423
5.000	54.323
6.000	1.137
7.000	2.049 ✓
8.000	30.479
9.000	5.020
58.000	3.866
59.000	1.022 ✓
60.000	13.976
114.000	1.936
115.000	0.918 ✓
116.000	12.302
204.000	3.636
205.000	0.968 ✓
206.000	1.511

Report Date/Time: Monday, June 18, 2001 09:33:01
Page 1

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Instrument Tuning Report

File Name: 060501.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	584	2064	0.721	
Li	7.016	7.079	1579	2060	0.703	
Co	58.933	58.978	14281	1950	0.750	
In	114.904	114.879	27919	1939	0.744	
Tl	204.975	204.975	49688	2242	0.703	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.494
3.000	0.272
4.000	15.006
5.000	34.443
6.000	1.560
7.000	2.481 ✓
8.000	19.989
9.000	2.905
58.000	2.938
59.000	1.820 ✓
60.000	10.972
114.000	0.894
115.000	0.820 ✓
116.000	6.928
204.000	2.646
205.000	0.623 ✓
206.000	0.934

Report Date/Time: Monday, June 18, 2001 09:37:58
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Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, June 18, 2001 09:42:36
Sample Description:
Method File: C:\elandata\Method\Service\6020 methods\6020 daily.mth
Dataset File: c:\elandata\Dataset\061101\Sample.251
Tuning File: c:\elandata\Tuning\060501.tun
Optimization File: c:\elandata\Optimize\6020.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 70
Current Dead Time (ns): 70

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	22461.1	22461.093	776.023	3.5
	Rh	102.9	211264.2	211264.195	9410.304	4.5
	Pb	208.0	202029.1	202029.150	4499.780	2.2
⌈>	Ba	137.9	271888.8	271888.795	6642.323	2.4
⌊	Ba++	69.0	3960.5	0.015	0.000	1.4
⌈>	Ce	139.9	331963.9	331963.865	9327.794	2.8
⌊	CeO	155.9	7651.9	0.023	0.001	2.4
	Bkgd	220.0	9.8	9.800	1.191	12.2

Current Optimization File Data

Current Value	Description
0.84	Nebulizer Gas Flow
6.75	Lens Voltage
1450.00	ICP RF Power
-1900.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	53	6.0	3459.4
Co	59	53	6.8	138581.4
Rh	103	53	7.0	308152.1
Pb	208	53	7.5	271876.2

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, June 18, 2001 10:34:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11342.347					ug/L
⌈	Be	9	0.000					ug/L
|	Al	27	1333.567					ug/L
|>	Sc-1	45	92936.678					ug/L
⌈	V	51	2282.378					ug/L
|	Cr	52	2333.730					ug/L
|	Cr	53	2000.327					ug/L
|	Mn	55	333.357					ug/L
|	Co	59	0.000					ug/L
|	Ni	60	0.000					ug/L
|	Cu	65	333.357					ug/L
|	Zn	66	333.357					ug/L
|>	Ge	72	322198.776					ug/L
|	As	75	143.501					ug/L
|	Se	77	74.000					ug/L
⌊	Se	82	66.226					ug/L
	Y	89	312427.366					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	0.000					ug/L
|	Cd	114	31.577					ug/L
|>	In	115	383444.622					ug/L
⌊	Sb	123	37.474					ug/L
⌈	Ba	135	0.000					ug/L
|	Ce	140	0.000					ug/L
|>	Tb	159	397815.970					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	144.670					ug/L
|	Tl	205	326.707					ug/L
|	Pb	206	136.682					ug/L
|	Pb	207	53.339					ug/L
|	Pb	208	444.028					ug/L
|>	Bi	209	385193.230					ug/L
⌈	Na	23	2333.917					mg/L
|	Mg	24	0.000					mg/L
|	K	39	540439.294					mg/L
|	Ca	43	0.000					mg/L
|	Fe	54	9943.425					mg/L
|	Fe	57	7670.892					mg/L

>	Sc	45	92936.678	mg/L
	Cl	35	38437.898	mg/L
	Kr	83	97.668	mg/L
	U	238	0.000	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
[	Be	9					
|	Al	27					
>	Sc-1	45					
[	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72					
|	As	75					
|	Se	77					
[	Se	82					
	Y	89					
[	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115					
[	Sb	123					
[	Ba	135					
|	Ce	140					
>	Tb	159					
[	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209					
[	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, June 18, 2001 10:35:24

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, June 18, 2001 10:37:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.574	4008.23				ug/L
⌈	Be	9	2333.730	0.02	10.0000	2.693	26.930	ug/L
|	Al	27	14014.061	0.13	10.0000	2.420	24.199	ug/L
|>	Sc-1	45	97664.467	97664.47				ug/L
⌈	V	51	42736.489	0.12	10.0000	4.853	48.533	ug/L
|	Cr	52	31738.630	0.09	10.0000	2.113	21.130	ug/L
|	Cr	53	5335.528	0.01	10.0000	5.874	58.738	ug/L
|	Mn	55	49845.146	0.15	10.0000	2.606	26.062	ug/L
|	Co	59	37101.344	0.11	10.0000	3.314	33.139	ug/L
|	Ni	60	10341.577	0.03	10.0000	3.448	34.475	ug/L
|	Cu	65	8004.810	0.02	10.0000	3.479	34.786	ug/L
|	Zn	66	7003.432	0.02	10.0000	0.615	6.145	ug/L
|>	Ge	72	330188.253	330188.25				ug/L
|	As	75	8801.037	0.03	10.0000	0.219	2.187	ug/L
|	Se	77	632.695	0.00	10.0000	0.528	5.281	ug/L
⌊	Se	82	867.585	0.00	10.0000	0.646	6.457	ug/L
	Y	89	291573.343	-20854.02				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	42435.237	0.11	10.0000	0.751	7.513	ug/L
|	Cd	114	30156.124	0.08	10.0000	0.576	5.756	ug/L
|>	In	115	388149.033	388149.03				ug/L
⌊	Sb	123	34836.387	0.09	10.0000	0.493	4.933	ug/L
⌈	Ba	135	10341.109	0.03	10.0000	3.004	30.044	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	392265.851	392265.85				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	50234.281	50089.61	10.0000	0.277	2.774	ug/L
|	Tl	205	122775.839	122449.13	10.0000	0.346	3.462	ug/L
|	Pb	206	43607.166	43470.48	10.0000	0.360	3.599	ug/L
|	Pb	207	36000.843	35947.50	10.0000	0.387	3.867	ug/L
|	Pb	208	170257.654	169813.63	10.0000	0.024	0.238	ug/L
|>	Bi	209	389364.558	389364.56				ug/L
⌈	Na	23	1310383.832	13.39	1.0000	0.040	4.028	mg/L
|	Mg	24	934753.680	9.59	1.0000	0.056	5.639	mg/L
|	K	39	2434860.962	19.13	1.0000	0.117	11.705	mg/L
|	Ca	43	3667.810	0.04	1.0000	0.513	51.294	mg/L
|	Fe	54	242885.188	2.38	1.0000	0.066	6.571	mg/L
|	Fe	57	102738.427	0.98	1.0000	0.164	16.359	mg/L

⌊>	Sc	45	97664.467	97664.47	mg/L
	Cl	35	28724.604	-9713.29	mg/L
	Kr	83	89.335	-8.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, June 18, 2001 10:40:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18358.312	7015.96				ug/L
⌈	Be	9	2667.273	0.03	17.8311	11.037	61.895	ug/L
|	Al	27	27054.272	0.29	20.4719	8.465	41.351	ug/L
|>	Sc-1	45	90237.802	90237.80				ug/L
⌈	V	51	72088.462	0.21	19.4218	2.851	14.677	ug/L
|	Cr	52	61263.052	0.18	19.9946	1.873	9.367	ug/L
|	Cr	53	7670.986	0.02	19.3847	6.347	32.741	ug/L
|	Mn	55	91246.740	0.27	19.6092	0.535	2.729	ug/L
|	Co	59	76077.995	0.23	20.0553	3.867	19.281	ug/L
|	Ni	60	17355.436	0.05	19.2964	4.891	25.347	ug/L
|	Cu	65	25050.773	0.07	21.6037	9.942	46.019	ug/L
|	Zn	66	10007.192	0.03	18.5605	3.378	18.202	ug/L
|>	Ge	72	330726.467	330726.47				ug/L
|	As	75	16977.803	0.05	19.8797	0.615	3.096	ug/L
|	Se	77	1236.774	0.00	20.1577	2.058	10.211	ug/L
⌊	Se	82	1676.102	0.00	20.0065	0.185	0.924	ug/L
	Y	89	329566.422	17139.06				ug/L
⌈	Rh	103	333.357	0.00				ug/L
|	Ag	107	96986.260	0.24	20.4364	1.333	6.521	ug/L
|	Cd	114	56038.871	0.14	19.6227	0.861	4.389	ug/L
|>	In	115	396362.678	396362.68				ug/L
⌊	Sb	123	70517.958	0.18	19.9679	0.875	4.382	ug/L
⌈	Ba	135	20364.488	0.05	19.7969	6.676	33.724	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	399568.823	399568.82				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	98364.151	98219.48	19.9205	0.410	2.058	ug/L
|	Tl	205	245064.481	244737.77	19.9974	0.315	1.577	ug/L
|	Pb	206	83463.152	83326.47	19.8280	0.271	1.366	ug/L
|	Pb	207	72355.180	72301.84	20.0225	0.207	1.033	ug/L
|	Pb	208	335227.791	334783.76	19.9423	0.343	1.721	ug/L
|>	Bi	209	400199.121	400199.12				ug/L
⌈	Na	23	1978671.713	22.14	1.9195	0.279	14.557	mg/L
|	Mg	24	1637862.993	18.17	1.9781	0.128	6.454	mg/L
|	K	39	3829809.528	37.19	1.9885	0.501	25.179	mg/L
|	Ca	43	8004.623	0.09	2.0666	0.214	10.374	mg/L
|	Fe	54	475910.716	5.26	2.0390	0.496	24.311	mg/L
|	Fe	57	192921.056	2.09	2.0266	0.425	20.985	mg/L

\> Sc	45	90237.802	90237.80		mg/L
Cl	35	25378.822	-13059.08		mg/L
Kr	83	96.002	-1.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72					
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115					
Sb	123					
Ba	135					
Ce	140					
\> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209					
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45					
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, June 18, 2001 10:40:41

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, June 18, 2001 10:42:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.400	3006.05				ug/L
⌈	Be	9	15684.678	0.17	100.0971	11.270	11.259	ug/L
|	Al	27	114578.535	1.28	99.4122	18.202	18.310	ug/L
|>	Sc-1	45	90922.747	90922.75				ug/L
⌈	V	51	339956.845	0.96	99.3876	28.356	28.530	ug/L
|	Cr	52	330475.620	0.94	100.2666	4.212	4.201	ug/L
|	Cr	53	38437.240	0.10	100.7861	8.825	8.756	ug/L
|	Mn	55	483363.745	1.38	99.9432	11.864	11.871	ug/L
|	Co	59	371448.880	1.07	99.6415	9.601	9.636	ug/L
|	Ni	60	81799.153	0.24	99.2789	2.310	2.326	ug/L
|	Cu	65	109163.256	0.31	99.5469	6.000	6.027	ug/L
|	Zn	66	72703.641	0.21	101.1799	9.552	9.441	ug/L
|>	Ge	72	348015.167	348015.17				ug/L
|	As	75	87839.729	0.25	99.9206	0.445	0.446	ug/L
|	Se	77	6180.008	0.02	100.0299	6.033	6.031	ug/L
⌊	Se	82	8332.726	0.02	99.8885	3.784	3.789	ug/L
	Y	89	322106.298	9678.93				ug/L
⌈	Rh	103	666.713	0.00				ug/L
|	Ag	107	462361.673	1.13	99.7180	7.345	7.365	ug/L
|	Cd	114	284849.240	0.70	99.8346	4.933	4.942	ug/L
|>	In	115	409180.887	409180.89				ug/L
⌊	Sb	123	358516.319	0.88	99.9188	3.202	3.205	ug/L
⌈	Ba	135	91254.213	0.22	99.1859	9.855	9.936	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	412597.990	412597.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	503745.865	503601.20	100.0998	2.274	2.272	ug/L
|	Tl	205	1229389.707	1229063.00	100.0202	2.757	2.756	ug/L
|	Pb	206	421943.094	421806.41	100.0176	0.776	0.776	ug/L
|	Pb	207	368792.554	368739.21	100.0987	3.912	3.908	ug/L
|	Pb	208	1682038.402	1681594.37	100.0080	2.637	2.637	ug/L
|>	Bi	209	403553.885	403553.88				ug/L
⌈	Na	23	10341252.733	117.34	10.0081	2.395	23.928	mg/L
|	Mg	24	8015538.503	90.60	9.9933	2.185	21.863	mg/L
|	K	39	18674902.561	204.59	10.0410	1.897	18.890	mg/L
|	Ca	43	46150.059	0.53	10.0908	2.713	26.884	mg/L
|	Fe	54	2102480.011	23.61	9.9562	2.005	20.136	mg/L
|	Fe	57	992985.516	11.07	10.0332	1.631	16.260	mg/L

Sc	45	90922.747	90922.75		mg/L
Cl	35	26384.513	-12053.39		mg/L
Kr	83	98.335	0.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209					
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45					
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, June 18, 2001 10:43:21

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, June 18, 2001 10:47:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17021.003	5678.66				ug/L
⌈	Be	9	8338.634	0.08	49.1851	17.841	36.272	ug/L
|	Al	27	69337.775	0.70	54.4561	12.301	22.590	ug/L
|>	Sc-1	45	99021.860	99021.86				ug/L
⌈	V	51	161354.265	0.47	48.6556	4.845	9.957	ug/L
|	Cr	52	156705.165	0.46	48.6171	3.512	7.223	ug/L
|	Cr	53	18023.036	0.05	45.8012	8.552	18.671	ug/L
|	Mn	55	268287.348	0.79	57.2500	0.477	0.833	ug/L
|	Co	59	195654.265	0.58	54.1234	5.522	10.202	ug/L
|	Ni	60	42129.070	0.13	53.1031	15.660	29.489	ug/L
|	Cu	65	43802.308	0.13	41.1817	7.654	18.587	ug/L
|	Zn	66	33076.735	0.10	47.2581	4.997	10.573	ug/L
|>	Ge	72	337765.838	337765.84				ug/L
|	As	75	44086.776	0.13	51.6919	3.311	6.405	ug/L
|	Se	77	3019.305	0.01	49.7240	2.144	4.312	ug/L
⌊	Se	82	4233.409	0.01	51.9356	2.689	5.178	ug/L
	Y	89	285604.002	-26823.36				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	241174.627	0.62	54.4354	1.386	2.545	ug/L
|	Cd	114	142375.928	0.36	52.2030	2.648	5.073	ug/L
|>	In	115	390902.123	390902.12				ug/L
⌊	Sb	123	180185.907	0.46	52.5411	1.978	3.764	ug/L
⌈	Ba	135	54541.919	0.14	61.1394	10.390	16.993	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	407829.624	407829.62				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	248657.676	248513.01	49.3964	0.845	1.710	ug/L
|	Tl	205	620227.129	619900.42	50.4470	0.259	0.513	ug/L
|	Pb	206	232148.890	232012.21	55.0141	0.811	1.474	ug/L
|	Pb	207	175271.812	175218.47	47.5652	0.489	1.028	ug/L
|	Pb	208	850657.449	850213.42	50.5640	1.299	2.569	ug/L
|>	Bi	209	392919.420	392919.42				ug/L
⌈	Na	23	5694114.489	57.78	4.9280	0.383	7.763	mg/L
|	Mg	24	3823337.264	38.97	4.2990	0.505	11.749	mg/L
|	K	39	9558489.929	91.11	4.4714	0.236	5.286	mg/L
|	Ca	43	24376.274	0.25	4.7091	0.815	17.298	mg/L
|	Fe	54	1249876.631	12.48	5.2631	0.168	3.201	mg/L
|	Fe	57	487563.861	4.81	4.3580	0.429	9.833	mg/L

|> Sc	45	99021.860	99021.86		mg/L
Cl	35	21365.536	-17072.36		mg/L
Kr	83	100.002	2.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	98.370				
|	Al	27	108.912				
|>	Sc-1	45		106.548			
⌈	V	51	97.311				
|	Cr	52	97.234				
|	Cr	53	91.602				
|	Mn	55	114.500				
|	Co	59	108.247				
|	Ni	60	106.206				
|	Cu	65	82.363				
|	Zn	66	94.516				
|>	Ge	72		104.832			
|	As	75	103.384				
|	Se	77	99.448				
⌊	Se	82	103.871				
	Y	89					
⌈	Rh	103					
|	Ag	107	108.871				
|	Cd	114	104.406				
|>	In	115		101.945			
⌊	Sb	123	105.082				
⌈	Ba	135	122.279				
|	Ce	140					
|>	Tb	159		102.517			
⌈	Ho	165					
|	Tl	203	98.793				
|	Tl	205	100.894				
|	Pb	206	110.028				
|	Pb	207	95.130				
|	Pb	208	101.128				
|>	Bi	209		102.006			
⌈	Na	23	98.559				
|	Mg	24	85.980				
|	K	39	89.427				
|	Ca	43	94.182				
|	Fe	54	105.262				
|	Fe	57	87.161				
|>	Sc	45		106.548			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, June 18, 2001 10:48:21
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QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Mn	55	ICV is out of limits (+/-10%)
QC Std 1	Ni	60	ICV is out of limits (+/-10%)
QC Std 1	Cu	65	ICV is out of limits (+/-10%)
QC Std 1	Ba	135	ICV is out of limits (+/-10%)
QC Std 1	Pb	206	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, June 18, 2001 10:52:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12344.006	1001.66				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	333.357	-0.01	-0.8725	0.425	48.747	ug/L
|>	Sc-1	45	93277.132	93277.13				ug/L
⌈	V	51	2755.613	0.00	0.1343	1.120	834.298	ug/L
|	Cr	52	1666.877	-0.00	-0.2273	0.184	80.849	ug/L
|	Cr	53	1666.877	-0.00	-1.0396	1.770	170.261	ug/L
|	Mn	55	333.357	0.00	0.0002	0.130	76444.440	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	333.357	-0.00	-0.0027	0.566	21060.234	ug/L
|	Zn	66	333.357	0.00	0.0011	0.874	76444.440	ug/L
|>	Ge	72	325682.288	325682.29				ug/L
|	As	75	156.417	0.00	0.0134	0.058	433.069	ug/L
|	Se	77	63.334	-0.00	-0.2008	0.140	69.915	ug/L
⌊	Se	82	65.820	-0.00	-0.0150	0.162	1083.777	ug/L
	Y	89	302989.220	-9438.15				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0078	0.013	173.205	ug/L
|	Cd	114	64.944	0.00	0.0128	0.021	166.662	ug/L
|>	In	115	382211.889	382211.89				ug/L
⌊	Sb	123	449.577	0.00	0.1227	0.018	15.009	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	357746.263	357746.26				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.668	-74.00	-0.0147	0.001	6.094	ug/L
|	Tl	205	136.682	-190.02	-0.0155	0.006	39.502	ug/L
|	Pb	206	230.027	93.35	0.0221	0.010	46.703	ug/L
|	Pb	207	213.358	160.02	0.0434	0.004	9.547	ug/L
|	Pb	208	998.079	554.05	0.0330	0.003	8.982	ug/L
|>	Bi	209	392628.987	392628.99				ug/L
⌈	Na	23	2333.823	0.00	0.0000	0.002	6420.662	mg/L
|	Mg	24	666.713	0.01	0.0008	0.001	87.896	mg/L
|	K	39	515648.038	-0.23	-0.0112	0.038	338.476	mg/L
|	Ca	43	666.760	0.01	0.1210	0.210	173.205	mg/L
|	Fe	54	9627.114	-0.01	-0.0024	0.017	691.721	mg/L
|	Fe	57	5335.434	-0.02	-0.0224	0.017	77.758	mg/L

Sc	45	93277.132	93277.13		mg/L
Cl	35	20696.811	-17741.09		mg/L
Kr	83	96.335	-1.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		100.366			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.081			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		99.679			
Sb	123					
Ba	135					
Ce	140					
Tb	159		89.928			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		101.930			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		100.366			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Monday, June 18, 2001 10:53:18
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QC Std 2	Al	27	ICB is out of limits (+/-3*IDL)
QC Std 2	V	51	ICB is out of limits (+/-3*IDL)
QC Std 2	Cr	52	ICB is out of limits (+/-3*IDL)
QC Std 2	Cd	114	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, June 18, 2001 10:57:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13012.449	1670.10				ug/L
⌈	Be	9	333.357	0.00	1.9385	3.358	173.205	ug/L
|	Al	27	10540884.267	102.64	7996.9711	429.131	5.366	ug/L
|>	Sc-1	45	102734.853	102734.85				ug/L
⌈	V	51	-6074.260	-0.02	-2.5694	1.587	61.751	ug/L
|	Cr	52	3001.050	0.00	0.1826	0.967	529.469	ug/L
|	Cr	53	2000.420	-0.00	-0.3535	4.827	1365.732	ug/L
|	Mn	55	4001.447	0.01	0.7720	0.549	71.091	ug/L
|	Co	59	333.357	0.00	0.0941	0.163	173.205	ug/L
|	Ni	60	666.760	0.00	0.8528	1.477	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.3293	0.000	0.000	ug/L
|	Zn	66	1666.877	0.00	1.8902	0.853	45.142	ug/L
|>	Ge	72	339960.564	339960.56				ug/L
|	As	75	139.974	-0.00	-0.0130	0.047	363.449	ug/L
|	Se	77	172.669	0.00	1.5848	0.090	5.681	ug/L
⌊	Se	82	68.537	-0.00	-0.0150	0.137	912.692	ug/L
	Y	89	319703.341	7275.98				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0080	0.014	173.205	ug/L
|	Cd	114	965.020	0.00	0.3534	0.143	40.502	ug/L
|>	In	115	382255.555	382255.55				ug/L
⌊	Sb	123	631.042	0.00	0.1771	0.007	4.158	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	402050.387	402050.39				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	101.002	-43.67	-0.0087	0.001	6.059	ug/L
|	Tl	205	166.685	-160.02	-0.0130	0.001	7.217	ug/L
|	Pb	206	623.423	486.74	0.1154	0.010	8.305	ug/L
|	Pb	207	583.416	530.08	0.1439	0.011	7.856	ug/L
|	Pb	208	2660.335	2216.31	0.1318	0.007	5.384	ug/L
⌊>	Bi	209	384252.668	384252.67				ug/L
⌈	Na	23	25157667.466	245.18	20.9121	3.190	15.255	mg/L
|	Mg	24	7393857.647	72.23	7.9677	0.911	11.430	mg/L
|	K	39	17980864.112	170.15	8.3506	1.354	16.215	mg/L
|	Ca	43	119672.730	1.17	22.4806	3.944	17.542	mg/L
|	Fe	54	4762837.135	46.31	19.5258	0.745	3.816	mg/L
|	Fe	57	1883468.607	18.28	16.5705	1.761	10.626	mg/L

> Sc	45	102734.853	102734.85		mg/L
Cl	35	1361024.392	1322586.49		mg/L
Kr	83	92.668	-5.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	79.970				
>	Sc-1	45		110.543			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		105.513			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		99.690			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		101.064			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.756			
	Na	23	83.648				
	Mg	24	79.677				
	K	39	83.506				
	Ca	43	74.935				
	Fe	54	78.103				
	Fe	57	66.282				
>	Sc	45		110.543			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Monday, June 18, 2001 10:58:19

QC Std 4	Al	27	ICSA is out of limits (+/-20%)
QC Std 4	Mg	24	ICSA is out of limits (+/-20%)
QC Std 4	Ca	43	ICSA is out of limits (+/-20%)
QC Std 4	Fe	54	ICSA is out of limits (+/-20%)
QC Std 4	Fe	57	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, June 18, 2001 11:02:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.855	7349.51				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	10685869.565	117.95	9190.2038	504.814	5.493	ug/L
⌊>	Sc-1	45	90572.450	90572.45				ug/L
⌈	V	51	68864.159	0.20	20.4706	3.070	14.996	ug/L
|	Cr	52	60258.781	0.17	18.2737	2.768	15.148	ug/L
|	Cr	53	7337.115	0.02	15.1950	1.626	10.702	ug/L
|	Mn	55	93613.394	0.28	20.0598	1.389	6.925	ug/L
|	Co	59	70681.526	0.21	19.6688	0.410	2.083	ug/L
|	Ni	60	13346.039	0.04	16.8093	2.761	16.426	ug/L
|	Cu	65	21699.687	0.06	20.3033	1.658	8.167	ug/L
|	Zn	66	6336.532	0.02	8.7887	4.413	50.213	ug/L
|>	Ge	72	335160.325	335160.32				ug/L
|	As	75	8699.915	0.03	10.1308	0.567	5.598	ug/L
|	Se	77	759.374	0.00	11.6001	1.566	13.496	ug/L
⌊	Se	82	912.867	0.00	10.6045	0.749	7.064	ug/L
	Y	89	299513.402	-12913.96				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	24031.147	0.06	5.5695	0.546	9.800	ug/L
|	Cd	114	30388.609	0.08	11.4133	0.313	2.743	ug/L
|>	In	115	381234.918	381234.92				ug/L
⌊	Sb	123	542.743	0.00	0.1511	0.001	0.867	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	429639.329	429639.33				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	91.335	-53.33	-0.0106	0.002	19.152	ug/L
|	Tl	205	216.692	-110.01	-0.0090	0.007	74.041	ug/L
|	Pb	206	790.123	653.44	0.1549	0.014	9.311	ug/L
|	Pb	207	540.075	486.74	0.1321	0.020	14.818	ug/L
|	Pb	208	2713.012	2268.98	0.1349	0.009	6.904	ug/L
⌊>	Bi	209	384716.205	384716.20				ug/L
⌈	Na	23	27939524.927	311.00	26.5263	5.666	21.358	mg/L
|	Mg	24	7217714.738	79.82	8.8046	0.310	3.520	mg/L
|	K	39	19004742.616	204.84	10.0531	0.889	8.839	mg/L
|	Ca	43	130545.177	1.46	27.9857	7.187	25.682	mg/L
|	Fe	54	5181311.820	57.06	24.0589	0.561	2.334	mg/L
|	Fe	57	1994916.454	21.97	19.9142	0.965	4.844	mg/L

|> Sc	45	90572.450	90572.45		mg/L
Cl	35	1401451.295	1363013.40		mg/L
Kr	83	106.669	9.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	91.902				
Sc-1	45		97.456			
V	51	102.353				
Cr	52	91.368				
Cr	53	75.975				
Mn	55	100.299				
Co	59	98.344				
Ni	60	84.046				
Cu	65	101.517				
Zn	66	87.887				
Ge	72		104.023			
As	75	101.308				
Se	77	116.001				
Se	82	106.045				
Y	89					
Rh	103					
Ag	107	111.390				
Cd	114	114.133				
In	115		99.424			
Sb	123					
Ba	135					
Ce	140					
Tb	159		108.000			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.876			
Na	23	106.105				
Mg	24	88.046				
K	39	100.531				
Ca	43	93.286				
Fe	54	96.235				
Fe	57	79.657				
Sc	45		97.456			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, June 18, 2001 11:03:20

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	Na	23	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	57	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, June 18, 2001 11:07:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	4676.20				ug/L
⌈	Be	9	11345.014	0.14	79.1113	56.405	71.298	ug/L
|	Al	27	63279.959	0.73	56.6465	5.051	8.917	ug/L
⌊>	Sc-1	45	85509.775	85509.78				ug/L
⌈	V	51	168186.756	0.50	51.4034	6.226	12.113	ug/L
|	Cr	52	160129.291	0.47	50.4460	5.868	11.632	ug/L
|	Cr	53	17020.301	0.05	43.7073	4.218	9.650	ug/L
|	Mn	55	233075.176	0.70	50.6525	2.259	4.460	ug/L
|	Co	59	200130.653	0.60	56.0724	5.550	9.898	ug/L
|	Ni	60	47155.188	0.14	60.0448	3.060	5.095	ug/L
|	Cu	65	37772.841	0.11	35.6866	10.545	29.548	ug/L
|	Zn	66	29729.170	0.09	43.0252	5.088	11.826	ug/L
|>	Ge	72	331962.185	331962.19				ug/L
|	As	75	43070.326	0.13	51.2831	1.160	2.261	ug/L
|	Se	77	3163.367	0.01	53.0726	2.385	4.494	ug/L
⌊	Se	82	4243.610	0.01	52.9069	0.579	1.094	ug/L
	Y	89	339670.313	27242.95				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	244627.350	0.62	55.0442	0.099	0.180	ug/L
|	Cd	114	146227.088	0.37	53.4872	4.043	7.559	ug/L
|>	In	115	391981.332	391981.33				ug/L
⌊	Sb	123	177471.622	0.45	51.5969	1.060	2.055	ug/L
⌈	Ba	135	55215.447	0.14	61.0332	10.696	17.525	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	408711.549	408711.55				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	250189.512	250044.84	49.7009	1.390	2.797	ug/L
|	Tl	205	608746.481	608419.77	49.5127	0.887	1.791	ug/L
|	Pb	206	227156.464	227019.78	53.8303	1.577	2.929	ug/L
|	Pb	207	176015.320	175961.98	47.7670	1.940	4.061	ug/L
|	Pb	208	848141.029	847697.00	50.4144	1.673	3.319	ug/L
⌊>	Bi	209	390776.148	390776.15				ug/L
⌈	Na	23	5106371.506	59.77	5.0978	0.808	15.850	mg/L
|	Mg	24	4042997.833	47.21	5.2078	0.637	12.233	mg/L
|	K	39	10493036.751	117.18	5.7510	0.387	6.724	mg/L
|	Ca	43	21031.525	0.25	4.7488	1.003	21.123	mg/L
|	Fe	54	1092069.471	12.71	5.3583	0.513	9.575	mg/L
|	Fe	57	514198.780	5.94	5.3856	0.278	5.157	mg/L

> Sc	45	85509.775	85509.78		mg/L
Cl	35	35760.279	-2677.62		mg/L
Kr	83	83.668	-14.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	158.223				
|	Al	27	113.293				
>	Sc-1	45		92.009			
⌈	V	51	102.807				
|	Cr	52	100.892				
|	Cr	53	87.415				
|	Mn	55	101.305				
|	Co	59	112.145				
|	Ni	60	120.090				
|	Cu	65	71.373				
|	Zn	66	86.050				
>	Ge	72		103.030			
|	As	75	102.566				
|	Se	77	106.145				
⌊	Se	82	105.814				
	Y	89					
⌈	Rh	103					
|	Ag	107	110.088				
|	Cd	114	106.974				
>	In	115		102.226			
⌊	Sb	123	103.194				
⌈	Ba	135	122.066				
|	Ce	140					
>	Tb	159		102.739			
⌈	Ho	165					
|	Tl	203	99.402				
|	Tl	205	99.025				
|	Pb	206	107.661				
|	Pb	207	95.534				
|	Pb	208	100.829				
>	Bi	209		101.449			
⌈	Na	23	101.956				
|	Mg	24	104.156				
|	K	39	115.020				
|	Ca	43	94.976				
|	Fe	54	107.166				
|	Fe	57	107.711				
>	Sc	45		92.009			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, June 18, 2001 11:08:21

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Co	59	CCV is out of limits (+/-10%)
QC Std 6	Ni	60	CCV is out of limits (+/-10%)
QC Std 6	Cu	65	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Ag	107	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, June 18, 2001 11:12:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13679.956	2337.61				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3334.127	0.02	1.5982	0.663	41.498	ug/L
|>	Sc-1	45	96651.341	96651.34				ug/L
⌈	V	51	1205.567	-0.00	-0.3383	1.146	338.803	ug/L
|	Cr	52	2000.420	-0.00	-0.1305	0.545	417.326	ug/L
|	Cr	53	1666.923	-0.00	-1.1492	3.292	286.450	ug/L
|	Mn	55	666.760	0.00	0.0694	0.250	359.493	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-0.3293	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-0.5034	0.000	0.000	ug/L
|>	Ge	72	329877.780	329877.78				ug/L
|	As	75	158.808	0.00	0.0144	0.040	277.748	ug/L
|	Se	77	59.334	-0.00	-0.2825	0.152	53.892	ug/L
⌊	Se	82	70.197	0.00	0.0296	0.227	766.583	ug/L
	Y	89	270716.423	-41710.94				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	-1.790	-0.00	-0.0125	0.001	9.239	ug/L
|>	In	115	374674.705	374674.70				ug/L
⌊	Sb	123	364.984	0.00	0.0999	0.001	0.820	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	417532.306	417532.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	105.335	-39.33	-0.0078	0.001	18.740	ug/L
|	Tl	205	246.696	-80.01	-0.0065	0.005	80.364	ug/L
|	Pb	206	193.355	56.67	0.0134	0.009	66.811	ug/L
|	Pb	207	120.013	66.67	0.0181	0.010	54.084	ug/L
|	Pb	208	684.048	240.02	0.0143	0.005	36.315	ug/L
|>	Bi	209	389562.796	389562.80				ug/L
⌈	Na	23	5001.797	0.03	0.0022	0.001	27.322	mg/L
|	Mg	24	333.357	0.00	0.0004	0.001	173.205	mg/L
|	K	39	512063.727	-0.51	-0.0249	0.012	49.105	mg/L
|	Ca	43	333.357	0.00	0.0629	0.109	173.205	mg/L
|	Fe	54	6613.752	-0.04	-0.0165	0.012	74.053	mg/L
|	Fe	57	6670.356	-0.01	-0.0135	0.030	218.277	mg/L

> Sc	45	96651.341	96651.34		mg/L
Cl	35	20028.648	-18409.25		mg/L
Kr	83	91.001	-6.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		103.997			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		102.383			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		97.713			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		104.956			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		101.134			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		103.997			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Cu	65	CCB is out of limits (+/-3*IDL)
QC Std 7	Zn	66	CCB is out of limits (+/-3*IDL)
QC Std 7	Cd	114	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBW X WG99505-03

Sample Date/Time: Monday, June 18, 2001 11:17:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 11
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	4676.20				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	24041.560	0.20	19.4867	2.948	15.126	ug/L
|>	Sc-1	45	111535.261	111535.26				ug/L
⌈	V	51	-368.936	-0.01	-1.0003	2.939	293.786	ug/L
|	Cr	52	5335.434	0.01	1.1300	0.563	49.822	ug/L
|	Cr	53	1000.117	-0.00	-3.9204	3.537	90.218	ug/L
|	Mn	55	2000.420	0.00	0.4376	0.453	103.627	ug/L
|	Co	59	333.357	0.00	0.1135	0.197	173.205	ug/L
|	Ni	60	666.760	0.00	1.0779	1.867	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.4117	0.000	0.000	ug/L
|	Zn	66	2667.227	0.01	4.2173	2.258	53.544	ug/L
|>	Ge	72	337748.979	337748.98				ug/L
|	As	75	168.401	0.00	0.0251	0.115	458.648	ug/L
|	Se	77	113.334	0.00	0.7644	0.559	73.159	ug/L
⌊	Se	82	71.124	0.00	0.0257	0.111	431.028	ug/L
	Y	89	296363.844	-16063.52				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	64.944	0.00	0.0146	0.027	181.485	ug/L
|>	In	115	392193.209	392193.21				ug/L
⌊	Sb	123	375.990	0.00	0.1227	0.007	5.463	ug/L
⌈	Ba	135	333.357	0.00	0.4321	0.748	173.205	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	406613.656	406613.66				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	173.337	28.67	0.0071	0.004	60.050	ug/L
|	Tl	205	426.722	100.02	0.0102	0.001	5.774	ug/L
|	Pb	206	783.455	646.77	0.1917	0.010	4.971	ug/L
|	Pb	207	536.741	483.40	0.1640	0.043	26.035	ug/L
|	Pb	208	2900.387	2456.36	0.1826	0.009	4.833	ug/L
⌊>	Bi	209	394133.538	394133.54				ug/L
⌈	Na	23	20028.461	0.16	0.0166	0.003	20.801	mg/L
|	Mg	24	2667.367	0.02	0.0032	0.002	69.529	mg/L
|	K	39	495311.108	-1.36	-0.0835	0.020	24.130	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	36611.002	0.22	0.1183	0.030	25.326	mg/L
|	Fe	57	16018.362	0.06	0.0700	0.035	50.094	mg/L

\> Sc	45	111535.261	111535.26		mg/L
Cl	35	861714.791	823276.89		mg/L
Kr	83	89.668	-8.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		120.012			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.826			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.282			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		102.211			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		102.321			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		120.012			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW X WG99505-03
Report Date/Time: Monday, June 18, 2001 11:18:15

Sc-1 45 Int Std for sanSc-1	45
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: LCSW X WG99505-04

Sample Date/Time: Monday, June 18, 2001 11:22:33
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11342.534	0.19				ug/L
⌈	Be	9	3334.220	0.03	95.0699	44.462	46.767	ug/L
|	Al	27	42796.190	0.41	158.5537	35.568	22.433	ug/L
|>	Sc-1	45	102736.713	102736.71				ug/L
⌈	V	51	95255.289	0.28	146.0546	20.588	14.096	ug/L
|	Cr	52	90241.129	0.27	142.5493	25.116	17.619	ug/L
|	Cr	53	10007.145	0.02	117.7091	28.762	24.435	ug/L
|	Mn	55	125778.944	0.38	137.8932	21.493	15.587	ug/L
|	Co	59	108524.533	0.33	154.4388	45.108	29.207	ug/L
|	Ni	60	21700.343	0.07	139.7131	28.214	20.194	ug/L
|	Cu	65	29059.600	0.09	138.8115	13.572	9.777	ug/L
|	Zn	66	18357.001	0.05	133.5907	14.723	11.021	ug/L
|>	Ge	72	328717.898	328717.90				ug/L
|	As	75	21640.464	0.07	129.6116	4.681	3.611	ug/L
|	Se	77	1522.829	0.00	125.6983	11.461	9.118	ug/L
⌊	Se	82	2033.025	0.01	125.7422	2.967	2.359	ug/L
	Y	89	314589.578	2162.21				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	128680.744	0.33	146.6504	4.325	2.949	ug/L
|	Cd	114	79922.288	0.21	147.8943	4.227	2.858	ug/L
|>	In	115	386618.727	386618.73				ug/L
⌊	Sb	123	91284.013	0.24	134.6471	6.245	4.638	ug/L
⌈	Ba	135	24040.951	0.06	138.8516	27.103	19.520	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	392539.362	392539.36				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	127428.090	127283.42	126.4994	3.475	2.747	ug/L
|	Tl	205	316697.383	316370.68	128.7300	4.142	3,218	ug/L
|	Pb	206	117622.709	117486.03	139.2899	3.906	2.804	ug/L
|	Pb	207	92116.473	92063.13	124.9583	4.386	3.510	ug/L
|	Pb	208	443639.872	443195.84	131.7890	3.728	2.829	ug/L
|>	Bi	209	391551.105	391551.10				ug/L
⌈	Na	23	7337.349	0.05	0.0200	0.010	51.681	mg/L
|	Mg	24	0.000	0.00	0.0000	0.000		mg/L
|	K	39	540770.703	-0.53	-0.1306	0.122	93.429	mg/L
|	Ca	43	333.357	0.00	0.3347	0.580	173.205	mg/L
|	Fe	54	15810.932	0.05	0.1053	0.120	114.147	mg/L
|	Fe	57	9340.199	0.01	0.0469	0.211	449.877	mg/L

> Sc	45	102736.713	102736.71		mg/L
Cl	35	30397.894	-8040.00		mg/L
Kr	83	86.668	-11.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		110.545			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.023			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.828			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.674			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.651			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		110.545			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0623601

Sample Date/Time: Monday, June 18, 2001 11:27:31
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.243	5343.90				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	10837651.050	100.67	19609.0620	954.620	4.868	ug/L
|>	Sc-1	45	107809.340	107809.34				ug/L
⌈	V	51	75404.649	0.20	52.8150	19.910	37.698	ug/L
|	Cr	52	176506.867	0.49	130.3579	14.349	11.007	ug/L
|	Cr	53	22034.260	0.06	135.6035	19.891	14.668	ug/L
|	Mn	55	3843982.477	10.84	1955.9572	136.312	6.969	ug/L
|	Co	59	13348.847	0.04	8.7692	5.341	60.904	ug/L
|	Ni	60	16352.232	0.05	48.6780	5.938	12.198	ug/L
|	Cu	65	138338.413	0.39	310.0806	39.264	12.662	ug/L
|	Zn	66	418259.578	1.18	1434.1894	89.047	6.209	ug/L
|>	Ge	72	354456.294	354456.29				ug/L
|	As	75	16478.212	0.05	45.6484	1.046	2.291	ug/L
|	Se	77	103.334	0.00	0.8806	0.227	25.812	ug/L
⌊	Se	82	119.075	0.00	1.3690	0.385	28.157	ug/L
	Y	89	384412.339	71984.97				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	2235.929	0.01	1.2151	0.249	20.474	ug/L
|	Cd	114	39327.267	0.10	34.7082	2.005	5.776	ug/L
|>	In	115	405293.236	405293.24				ug/L
⌊	Sb	123	8312.188	0.02	5.8160	0.126	2.162	ug/L
⌈	Ba	135	120007.394	0.27	302.1216	35.851	11.867	ug/L
|	Ce	140	295319.016	0.66				ug/L
|>	Tb	159	447251.793	447251.79				ug/L
⌈	Ho	165	3334.314	3334.31				ug/L
|	Tl	203	367.346	222.68	0.1107	0.001	1.130	ug/L
|	Tl	205	893.480	566.77	0.1153	0.031	26,957	ug/L
|	Pb	206	970752.726	970616.04	575.3747	8.129	1.413	ug/L
|	Pb	207	825079.018	825025.68	559.9080	0.962	0.172	ug/L
|	Pb	208	3629168.029	3628724.00	539.5200	5.118	0.949	ug/L
|>	Bi	209	407659.655	407659.65				ug/L
⌈	Na	23	3173056.166	29.32	6.2526	0.501	8.011	mg/L
|	Mg	24	2250484.699	20.93	5.7724	0.783	13.561	mg/L
|	K	39	5160622.528	42.03	5.1571	0.170	3.302	mg/L
|	Ca	43	333431.084	3.10	148.8702	29.560	19.856	mg/L
|	Fe	54	14102122.539	131.00	138.0885	9.194	6.658	mg/L
|	Fe	57	5371786.206	49.74	112.7139	1.734	1.539	mg/L

> Sc	45	107809.340	107809.34		mg/L
Cl	35	50515.183	12077.29		mg/L
Kr	83	108.669	11.00		mg/L
U	238	37767.671	37767.67		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		116.003			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.012			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		105.698			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		112.427			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		105.833			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		116.003			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Mn 55 Upper, S, EEE	Mn	55
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
Ba 135 Upper, S, EEE	Ba	135
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: 0627801 WG99505-02

Sample Date/Time: Monday, June 18, 2001 11:32:30
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

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JYH 6/18/01

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17689.306	6346.96				ug/L
⌈	Be	9	22035.104	0.22	323.3413	98.664	30.514	ug/L
|	Al	27	442645.446	4.42	861.4913	152.730	17.729	ug/L
|>	Sc-1	45	101732.177	101732.18				ug/L
⌈	V	51	4816593.177	14.41	3712.2100	169.066	4.554	ug/L
|	Cr	52	825268.301	2.46	655.0686	96.553	14.739	ug/L
|	Cr	53	109505.528	0.32	778.0774	80.771	10.381	ug/L
|	Mn	55	980234.856	2.93	529.4769	53.574	10.118	ug/L
|	Co	59	828179.444	2.48	577.8194	100.910	17.464	ug/L
|	Ni	60	602504.259	1.80	1903.9918	184.066	9.667	ug/L
|	Cu	65	159091.197	0.48	378.3837	32.463	8.579	ug/L
|	Zn	66	146163.128	0.44	530.8247	68.855	12.971	ug/L
|>	Ge	72	334198.907	334198.91				ug/L
|	As	75	105659.542	0.32	312.8569	14.323	4.578	ug/L
|	Se	77	18028.751	0.05	765.9093	38.725	5.056	ug/L
⌊	Se	82	24219.614	0.07	759.7562	32.902	4.331	ug/L
	Y	89	323846.450	11419.08				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	472630.634	1.19	261.9101	16.453	6.282	ug/L
|	Cd	114	517358.198	1.30	465.7647	22.166	4.759	ug/L
|>	In	115	397544.020	397544.02				ug/L
⌊	Sb	123	920654.364	2.32	659.9038	16.987	2.574	ug/L
⌈	Ba	135	620931.495	1.59	1790.5477	229.746	12.831	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	392173.428	392173.43				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	900410.721	900266.05	447.3602	15.270	3.413	ug/L
|	Tl	205	2012042.871	2011716.16	409.2798	19.742	4.824	ug/L
|	Pb	206	1267571.250	1267434.57	751.3267	52.495	6.987	ug/L
|	Pb	207	1111907.800	1111854.46	754.5659	21.441	2.842	ug/L
|	Pb	208	4814356.202	4813912.17	715.7342	32.354	4.520	ug/L
|>	Bi	209	405414.527	405414.53				ug/L
⌈	Na	23	45479.078	0.43	0.0915	0.019	20.374	mg/L
|	Mg	24	2667.273	0.03	0.0078	0.005	64.866	mg/L
|	K	39	774835.389	1.99	0.2447	0.233	95.148	mg/L
|	Ca	43	1333.707	0.01	0.7070	1.225	173.205	mg/L
|	Fe	54	133424.461	1.20	1.2702	0.045	3.513	mg/L
|	Fe	57	48840.399	0.39	0.8913	0.107	11.999	mg/L

> Sc	45	101732.177	101732.18		mg/L
Cl	35	26050.362	-12387.54		mg/L
Kr	83	155.670	58.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		109.464			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.724			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.677			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		98.582			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		105.250			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		109.464			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Be 9 Upper, S, EEE	Be	9
Al 27 Upper, S, EEE	Al	27
V 51 Upper, S, EEE	V	51
Cr 52 Upper, S, EEE	Cr	52
Cr 53 Upper, S, EEE	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Co 59 Upper, S, EEE	Co	59
Ni 60 Upper, S, EEE	Ni	60
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
As 75 Upper, S, EEE	As	75
Se 77 Upper, S, EEE	Se	77
Se 82 Upper, S, EEE	Se	82
Ag 107 Upper, S, EEE	Ag	107
Cd 114 Upper, S, EEE	Cd	114
Sb 123 Upper, S, EEE	Sb	123
Ba 135 Upper, S, EEE	Ba	135
Tl 203 Upper, S, EEE	Tl	203
Tl 205 Upper, S, EEE	Tl	205
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208

Method 6020 - Summary Report

Sample ID: 0627801 DP WG99505-07

Sample Date/Time: Monday, June 18, 2001 11:37:28
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

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JYH 6/18/01

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.527	7349.18				ug/L
⌈	Be	9	27052.582	0.28	403.9398	78.694	19.482	ug/L
|	Al	27	607791.083	6.23	1213.0134	302.233	24.916	ug/L
|>	Sc-1	45	98001.730	98001.73				ug/L
⌈	V	51	5085410.635	15.03	3871.7957	477.338	12.329	ug/L
|	Cr	52	800139.677	2.36	626.3793	22.979	3.669	ug/L
|	Cr	53	115938.044	0.34	813.5483	66.875	8.220	ug/L
|	Mn	55	976156.705	2.88	519.8848	50.680	9.748	ug/L
|	Co	59	768699.312	2.27	528.9788	31.579	5.970	ug/L
|	Ni	60	692377.704	2.04	2158.6244	84.589	3.919	ug/L
|	Cu	65	167618.042	0.49	393.4886	35.286	8.967	ug/L
|	Zn	66	160808.829	0.47	576.7465	75.475	13.086	ug/L
|>	Ge	72	338542.487	338542.49				ug/L
|	As	75	106554.397	0.31	311.5758	8.655	2.778	ug/L
|	Se	77	18104.974	0.05	759.3964	56.418	7.429	ug/L
⌊	Se	82	25316.889	0.07	784.0715	20.896	2.665	ug/L
	Y	89	320819.985	8392.62				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	489958.292	1.24	274.4247	16.946	6.175	ug/L
|	Cd	114	519947.666	1.32	473.0202	6.975	1.475	ug/L
|>	In	115	393756.208	393756.21				ug/L
⌊	Sb	123	964149.909	2.45	697.5683	9.890	1.418	ug/L
⌈	Ba	135	576096.574	1.50	1688.1967	56.630	3.354	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	383370.902	383370.90				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	932419.577	932274.91	463.2660	4.282	0.924	ug/L
|	Tl	205	2048615.112	2048288.40	416.7203	2.951	0.708	ug/L
|	Pb	206	1211683.481	1211546.80	718.1969	11.930	1.661	ug/L
|	Pb	207	1143005.319	1142951.98	775.6703	35.097	4.525	ug/L
|	Pb	208	4808779.090	4808335.06	714.9050	20.367	2.849	ug/L
|>	Bi	209	414293.322	414293.32				ug/L
⌈	Na	23	38101.538	0.36	0.0776	0.005	6.556	mg/L
|	Mg	24	1333.707	0.01	0.0037	0.006	173.205	mg/L
|	K	39	722529.531	1.58	0.1935	0.092	47.564	mg/L
|	Ca	43	333.357	0.00	0.1589	0.275	173.205	mg/L
|	Fe	54	123574.051	1.16	1.2222	0.224	18.365	mg/L
|	Fe	57	46152.181	0.39	0.8785	0.181	20.608	mg/L

>	Sc	45	98001.730	98001.73		mg/L
	Cl	35	23371.991	-15065.91		mg/L
	Kr	83	149.670	52.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		105.450			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		105.073			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.689			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		96.369			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		107.555			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		105.450			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0627801 DP WG99505-07
Report Date/Time: Monday, June 18, 2001 11:38:08
Page 2

Be 9 Upper, S, EEE	Be	9
Al 27 Upper, S, EEE	Al	27
V 51 Upper, S, EEE	V	51
Cr 52 Upper, S, EEE	Cr	52
Cr 53 Upper, S, EEE	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Co 59 Upper, S, EEE	Co	59
Ni 60 Upper, S, EEE	Ni	60
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
As 75 Upper, S, EEE	As	75
Se 77 Upper, S, EEE	Se	77
Se 82 Upper, S, EEE	Se	82
Ag 107 Upper, S, EEE	Ag	107
Cd 114 Upper, S, EEE	Cd	114
Sb 123 Upper, S, EEE	Sb	123
Ba 135 Upper, S, EEE	Ba	135
Tl 203 Upper, S, EEE	Tl	203
Tl 205 Upper, S, EEE	Tl	205
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208

Method 6020 - Summary Report

Sample ID: 0632906 WG99509-01

Sample Date/Time: Monday, June 18, 2001 11:42:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	10675.214	-667.13				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	29059.882	0.31	59.4903	4.016	6.751	ug/L
⌊>	Sc-1	45	90573.497	90573.50				ug/L
⌈	V	51	29005.083	0.08	21.6684	5.544	25.585	ug/L
|	Cr	52	5335.574	0.01	2.5101	1.827	72.783	ug/L
|	Cr	53	1333.567	-0.00	-4.8203	11.614	240.940	ug/L
|	Mn	55	5001.797	0.01	2.6593	0.629	23.662	ug/L
|	Co	59	1000.070	0.00	0.7329	0.016	2.169	ug/L
|	Ni	60	333.357	0.00	1.1303	1.958	173.205	ug/L
|	Cu	65	666.713	0.00	0.8448	1.446	171.133	ug/L
|	Zn	66	2667.367	0.01	8.8329	7.698	87.155	ug/L
|>	Ge	72	318122.570	318122.57				ug/L
|	As	75	654.127	0.00	1.5969	0.019	1.170	ug/L
|	Se	77	92.667	0.00	0.8705	0.544	62.525	ug/L
⌊	Se	82	98.444	0.00	1.0949	0.377	34.420	ug/L
	Y	89	288029.957	-24397.41				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0388	0.067	173.205	ug/L
|	Cd	114	128.098	0.00	0.0914	0.111	121.956	ug/L
|>	In	115	379735.473	379735.47				ug/L
⌊	Sb	123	548.961	0.00	0.3847	0.034	8.761	ug/L
⌈	Ba	135	6670.589	0.02	20.3257	12.660	62.285	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	365463.266	365463.27				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	96.668	-48.00	-0.0239	0.001	2.406	ug/L
|	Tl	205	226.693	-100.01	-0.0203	0.003	15.275	ug/L
|	Pb	206	770.119	633.44	0.3755	0.037	9.861	ug/L
|	Pb	207	690.103	636.76	0.4321	0.041	9.554	ug/L
|	Pb	208	3237.460	2793.43	0.4153	0.017	3.989	ug/L
⌊>	Bi	209	381912.554	381912.55				ug/L
⌈	Na	23	4388228.956	48.79	10.4032	1.379	13.258	mg/L
|	Mg	24	1095413.233	12.14	3.3486	0.261	7.799	mg/L
|	K	39	1702304.383	13.11	1.6089	0.386	23.987	mg/L
|	Ca	43	46150.625	0.52	24.7271	5.129	20.741	mg/L
|	Fe	54	23555.588	0.15	0.1621	0.028	17.504	mg/L
|	Fe	57	11009.038	0.04	0.0918	0.101	109.441	mg/L

>	Sc	45	90573.497	90573.50	mg/L
	Cl	35	50175.662	11737.76	mg/L
	Kr	83	101.668	4.00	mg/L
	U	238	3000.677	3000.68	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		97.457			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		98.735			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		99.033			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		91.867			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.148			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		97.457			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0632907 S WG99505-05

Sample Date/Time: Monday, June 18, 2001 11:47:26
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14349.148	3006.80				ug/L
⌈	Be	9	10341.390	0.11	155.3287	54.646	35.181	ug/L
|	Al	27	96996.420	0.97	189.5262	31.705	16.729	ug/L
|>	Sc-1	45	100048.358	100048.36				ug/L
⌈	V	51	199638.623	0.59	151.6631	17.629	11.624	ug/L
|	Cr	52	166977.710	0.49	129.9918	23.063	17.742	ug/L
|	Cr	53	12678.017	0.03	76.4658	11.795	15.425	ug/L
|	Mn	55	231013.690	0.69	123.9193	0.945	0.763	ug/L
|	Co	59	205277.001	0.61	142.3277	16.981	11.931	ug/L
|	Ni	60	41788.801	0.12	131.5895	11.107	8.441	ug/L
|	Cu	65	52201.629	0.15	122.2915	34.390	28.122	ug/L
|	Zn	66	29059.037	0.09	104.0210	2.335	2.244	ug/L
|>	Ge	72	335841.999	335842.00				ug/L
|	As	75	44470.306	0.13	130.9226	2.821	2.154	ug/L
|	Se	77	2791.212	0.01	115.4109	8.898	7.710	ug/L
⌊	Se	82	4012.424	0.01	123.6198	7.878	6.373	ug/L
	Y	89	295358.101	-17069.26				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	250755.119	0.64	141.4638	8.257	5.837	ug/L
|	Cd	114	147656.494	0.38	135.5209	9.032	6.665	ug/L
|>	In	115	390626.539	390626.54				ug/L
⌊	Sb	123	186210.089	0.48	135.8624	4.818	3.546	ug/L
⌈	Ba	135	59253.229	0.15	172.1462	47.122	27.373	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	390432.845	390432.85				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	257889.578	257744.91	128.0786	2.075	1.620	ug/L
|	Tl	205	649068.884	648742.18	131.9854	3.407	2.581	ug/L
|	Pb	206	239334.869	239198.19	141.7951	5.890	4.154	ug/L
|	Pb	207	186249.229	186195.89	126.3628	2.369	1.875	ug/L
|	Pb	208	893189.910	892745.88	132.7338	2.834	2.135	ug/L
|>	Bi	209	399606.492	399606.49				ug/L
⌈	Na	23	4354211.677	44.68	9.5264	1.986	20.851	mg/L
|	Mg	24	987272.184	10.12	2.7897	0.506	18.151	mg/L
|	K	39	1914636.987	13.94	1.7107	0.559	32.681	mg/L
|	Ca	43	55215.259	0.58	27.8434	10.005	35.933	mg/L
|	Fe	54	26696.254	0.17	0.1742	0.114	65.655	mg/L
|	Fe	57	10341.483	0.02	0.0412	0.044	107.254	mg/L

> Sc	45	100048.358	100048.36		mg/L
Cl	35	52865.812	14427.91		mg/L
Kr	83	87.335	-10.33		mg/L
U	238	4001.728	4001.73		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		107.652			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.234			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		101.873			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		98.144			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		103.742			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		107.652			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0632908 SD WG99505-06

Sample Date/Time: Monday, June 18, 2001 11:52:26
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15349.871	4007.52				ug/L
⌈	Be	9	12678.157	0.15	221.9116	49.067	22.111	ug/L
|	Al	27	88883.227	1.05	204.9759	31.620	15.426	ug/L
|>	Sc-1	45	84503.446	84503.45				ug/L
⌈	V	51	193493.154	0.57	147.9596	20.113	13.594	ug/L
|	Cr	52	148188.128	0.44	116.2168	3.250	2.796	ug/L
|	Cr	53	18024.441	0.05	116.5139	46.824	40.187	ug/L
|	Mn	55	239332.614	0.72	129.1353	17.706	13.711	ug/L
|	Co	59	203185.375	0.61	141.9333	2.127	1.499	ug/L
|	Ni	60	42796.190	0.13	135.4355	19.243	14.208	ug/L
|	Cu	65	46150.437	0.14	109.4445	16.448	15.028	ug/L
|	Zn	66	29061.431	0.09	104.7554	26.817	25.600	ug/L
|>	Ge	72	333574.208	333574.21				ug/L
|	As	75	44038.736	0.13	130.4593	0.862	0.661	ug/L
|	Se	77	2820.558	0.01	117.3801	10.154	8.650	ug/L
_	Se	82	3913.529	0.01	121.2003	6.010	4.959	ug/L
	Y	89	312071.879	-355.49				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	245730.846	0.64	140.0689	2.774	1.980	ug/L
|	Cd	114	143195.048	0.37	132.5787	6.349	4.789	ug/L
|>	In	115	387001.898	387001.90				ug/L
_	Sb	123	176920.912	0.46	130.2505	4.693	3.603	ug/L
⌈	Ba	135	62609.548	0.16	179.1274	14.401	8.039	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	392540.988	392540.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	254557.150	254412.48	126.4226	2.077	1.643	ug/L
|	Tl	205	612847.549	612520.84	124.6162	1.688	1.354	ug/L
|	Pb	206	232000.477	231863.80	137.4473	1.131	0.823	ug/L
|	Pb	207	175787.529	175734.19	119.2629	0.609	0.511	ug/L
|	Pb	208	864409.482	863965.45	128.4547	2.240	1.744	ug/L
|>	Bi	209	394002.656	394002.66				ug/L
⌈	Na	23	4186015.132	50.02	10.6663	1.684	15.789	mg/L
|	Mg	24	1117821.527	13.37	3.6874	0.422	11.454	mg/L
|	K	39	1777471.408	15.63	1.9173	0.613	31.973	mg/L
|	Ca	43	48834.738	0.59	28.4069	7.217	25.404	mg/L
|	Fe	54	20862.054	0.14	0.1480	0.053	36.143	mg/L
|	Fe	57	9340.012	0.03	0.0704	0.122	173.504	mg/L

> Sc	45	84503.446	84503.45		mg/L
Cl	35	41124.083	2686.19		mg/L
Kr	83	93.335	-4.33		mg/L
U	238	4334.851	4334.85		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		90.926			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		103.531			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.928			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		98.674			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		102.287			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		90.926			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0632908 SD WG99505-06
Report Date/Time: Monday, June 18, 2001 11:53:07

Method 6020 - Summary Report

Sample ID: 0632906 PS

Sample Date/Time: Monday, June 18, 2001 11:57:26
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15351.322	4008.98				ug/L
⌈	Be	9	11676.779	0.13	192.8276	81.151	42.085	ug/L
|	Al	27	85179.878	0.92	179.3618	27.302	15.222	ug/L
|>	Sc-1	45	91589.425	91589.42				ug/L
⌈	V	51	190067.872	0.57	147.6406	17.649	11.954	ug/L
|	Cr	52	148212.927	0.44	118.2289	18.746	15.856	ug/L
|	Cr	53	13680.565	0.04	85.4621	28.786	33.683	ug/L
|	Mn	55	275273.612	0.84	151.0887	19.771	13.086	ug/L
|	Co	59	214197.474	0.65	151.9233	15.755	10.371	ug/L
|	Ni	60	48498.610	0.15	156.1989	17.484	11.193	ug/L
|	Cu	65	39446.370	0.12	94.8818	23.307	24.564	ug/L
|	Zn	66	34416.532	0.10	126.3711	11.491	9.093	ug/L
|>	Ge	72	328031.658	328031.66				ug/L
|	As	75	41709.839	0.13	125.6706	3.135	2.495	ug/L
|	Se	77	2651.161	0.01	112.1132	12.576	11.217	ug/L
⌊	Se	82	3837.484	0.01	120.8838	2.766	2.288	ug/L
	Y	89	291847.499	-20579.87				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	214690.384	0.56	124.1255	4.043	3.257	ug/L
|	Cd	114	133842.738	0.35	125.6468	11.685	9.300	ug/L
|>	In	115	381672.963	381672.96				ug/L
⌊	Sb	123	176992.090	0.46	132.0740	1.109	0.840	ug/L
⌈	Ba	135	54878.613	0.14	156.2307	33.268	21.294	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	402168.910	402168.91				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	242716.185	242571.52	120.5386	2.632	2.184	ug/L
|	Tl	205	588568.171	588241.46	119.6766	2.371	1.981	ug/L
|	Pb	206	220923.323	220786.64	130.8808	1.847	1.411	ug/L
|	Pb	207	175486.293	175432.95	119.0585	5.323	4.471	ug/L
|	Pb	208	839207.225	838763.20	124.7076	3.308	2.653	ug/L
|>	Bi	209	386456.419	386456.42				ug/L
⌈	Na	23	4701943.859	51.95	11.0772	1.911	17.255	mg/L
|	Mg	24	1092246.619	12.06	3.3265	0.457	13.734	mg/L
|	K	39	1875965.313	14.85	1.8223	0.373	20.467	mg/L
|	Ca	43	49175.204	0.54	25.9623	6.121	23.578	mg/L
|	Fe	54	25210.716	0.17	0.1790	0.029	16.437	mg/L
|	Fe	57	11342.534	0.04	0.0922	0.019	20.944	mg/L

|> Sc	45	91589.425	91589.42		mg/L
Cl	35	57565.791	19127.89		mg/L
Kr	83	93.335	-4.33		mg/L
U	238	7337.583	7337.58		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		98.550			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.810			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		99.538			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		101.094			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.328			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		98.550			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0632906 SDL

Sample Date/Time: Monday, June 18, 2001 12:02:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11676.873	334.53				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3334.314	0.03	27.2709	26.910	98.678	ug/L
|>	Sc-1	45	81126.191	81126.19				ug/L
⌈	V	51	4088.035	0.01	7.2945	15.729	215.630	ug/L
|	Cr	52	3667.670	0.00	5.6119	4.176	74.405	ug/L
|	Cr	53	1000.070	-0.00	-37.0062	1.399	3.780	ug/L
|	Mn	55	666.713	0.00	0.9451	1.630	172.428	ug/L
|	Co	59	333.357	0.00	1.1722	2.030	173.205	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-4.1169	0.000	0.000	ug/L
|	Zn	66	333.357	0.00	0.2536	11.338	4470.750	ug/L
|>	Ge	72	317730.448	317730.45				ug/L
|	As	75	271.808	0.00	2.0417	0.617	30.216	ug/L
|	Se	77	60.667	-0.00	-2.7473	2.814	102.426	ug/L
⌊	Se	82	81.262	0.00	2.6602	0.880	33.070	ug/L
	Y	89	299839.732	-12587.63				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	61.363	0.00	0.1471	0.289	196.611	ug/L
|>	In	115	373754.596	373754.60				ug/L
⌊	Sb	123	356.735	0.00	1.2216	0.062	5.068	ug/L
⌈	Ba	135	1333.473	0.00	18.9232	7.344	38.811	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	392155.653	392155.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	57.001	-87.67	-0.2178	0.011	4.972	ug/L
|	Tl	205	143.349	-183.36	-0.1865	0.041	22.044	ug/L
|	Pb	206	340.042	203.36	0.6028	0.253	42.020	ug/L
|	Pb	207	246.696	193.36	0.6561	0.297	45.191	ug/L
|	Pb	208	1261.777	817.75	0.6079	0.054	8.911	ug/L
|>	Bi	209	382272.951	382272.95				ug/L
⌈	Na	23	1240511.005	15.33	16.3406	1.473	9.017	mg/L
|	Mg	24	237593.469	2.94	4.0585	0.670	16.507	mg/L
|	K	39	844158.874	4.61	2.8259	0.300	10.600	mg/L
|	Ca	43	9674.210	0.12	29.0668	15.190	52.258	mg/L
|	Fe	54	10571.176	0.02	0.1269	0.107	84.600	mg/L
|	Fe	57	9673.415	0.04	0.4078	0.200	49.110	mg/L

\> Sc	45	81126.191	81126.19		mg/L
Cl	35	18692.323	-19745.58		mg/L
Kr	83	90.668	-7.00		mg/L
U	238	2667.227	2667.23		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		87.292			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		98.613			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		97.473			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		98.577			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		99.242			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		87.292			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0632906 SDL
Report Date/Time: Monday, June 18, 2001 12:03:08

Cr 53 Lower	Cr	53
Cu 65 Lower	Cu	65
Se 77 Lower	Se	77
Tl 203 Lower	Tl	203

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, June 18, 2001 12:07:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15685.287	4342.94				ug/L
⌈	Be	9	6336.345	0.07	42.6369	14.566	34.163	ug/L
|	Al	27	63616.323	0.72	55.9771	6.578	11.750	ug/L
|>	Sc-1	45	87197.619	87197.62				ug/L
⌈	V	51	180683.203	0.54	56.0442	2.270	4.050	ug/L
|	Cr	52	150612.277	0.45	47.9308	8.198	17.104	ug/L
|	Cr	53	17688.838	0.05	46.2214	7.247	15.680	ug/L
|	Mn	55	219671.939	0.67	48.2588	2.319	4.806	ug/L
|	Co	59	190172.822	0.58	54.0820	3.240	5.991	ug/L
|	Ni	60	34082.382	0.10	44.0906	8.109	18.392	ug/L
|	Cu	65	49172.939	0.15	47.3130	8.209	17.351	ug/L
|	Zn	66	29059.976	0.09	42.8061	8.185	19.121	ug/L
|>	Ge	72	327799.558	327799.56				ug/L
|	As	75	41720.342	0.13	50.3425	1.717	3.411	ug/L
|	Se	77	2907.925	0.01	49.3128	2.405	4.877	ug/L
⌊	Se	82	4087.859	0.01	51.6351	2.325	4.502	ug/L
	Y	89	335050.641	22623.28				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	224363.190	0.58	51.4789	2.502	4.861	ug/L
|	Cd	114	136757.501	0.36	50.9567	1.850	3.630	ug/L
|>	In	115	384388.462	384388.46				ug/L
⌊	Sb	123	170988.289	0.44	50.6817	0.493	0.972	ug/L
⌈	Ba	135	43804.756	0.11	47.5832	11.406	23.970	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	416573.688	416573.69				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	242935.085	242790.42	48.2590	2.013	4.172	ug/L
|	Tl	205	598242.462	597915.76	48.6579	1.229	2,526	ug/L
|	Pb	206	218377.011	218240.33	51.7486	1.065	2.059	ug/L
|	Pb	207	167099.127	167045.79	45.3466	2.556	5.636	ug/L
|	Pb	208	815951.544	815507.52	48.5000	0.779	1.605	ug/L
|>	Bi	209	390648.989	390648.99				ug/L
⌈	Na	23	5079913.623	58.35	4.9770	0.217	4.357	mg/L
|	Mg	24	3742518.753	42.92	4.7340	0.331	7.002	mg/L
|	K	39	9810451.082	106.51	5.2275	0.256	4.905	mg/L
|	Ca	43	18023.037	0.21	4.0054	0.832	20.762	mg/L
|	Fe	54	1099099.749	12.54	5.2867	0.528	9.993	mg/L
|	Fe	57	432398.671	4.89	4.4358	0.430	9.702	mg/L

> Sc	45	87197.619	87197.62		mg/L
Cl	35	19359.549	-19078.35		mg/L
Kr	83	100.668	3.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	85.274				
	Al	27	111.954				
>	Sc-1	45		93.825			
	V	51	112.088				
	Cr	52	95.862				
	Cr	53	92.443				
	Mn	55	96.518				
	Co	59	108.164				
	Ni	60	88.181				
	Cu	65	94.626				
	Zn	66	85.612				
>	Ge	72		101.738			
	As	75	100.685				
	Se	77	98.626				
	Se	82	103.270				
	Y	89					
	Rh	103					
	Ag	107	102.958				
	Cd	114	101.913				
>	In	115		100.246			
	Sb	123	101.363				
	Ba	135	95.166				
	Ce	140					
>	Tb	159		104.715			
	Ho	165					
	Tl	203	96.518				
	Tl	205	97.316				
	Pb	206	103.497				
	Pb	207	90.693				
	Pb	208	97.000				
>	Bi	209		101.416			
	Na	23	99.541				
	Mg	24	94.680				
	K	39	104.550				
	Ca	43	80.107				
	Fe	54	105.735				
	Fe	57	88.716				
>	Sc	45		93.825			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, June 18, 2001 12:08:08
Page 2

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Ni	60	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, June 18, 2001 12:12:26
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17689.025	6346.68				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	666.713	-0.01	-0.5464	0.501	91.669	ug/L
⌊>	Sc-1	45	94288.921	94288.92				ug/L
⌈	V	51	-151.168	-0.01	-0.8230	2.636	320.309	ug/L
|	Cr	52	3000.677	0.00	0.2337	0.336	143.876	ug/L
|	Cr	53	1666.970	-0.00	-0.8928	4.753	532.384	ug/L
|	Mn	55	333.357	0.00	0.0003	0.130	45847.521	ug/L
|	Co	59	666.713	0.00	0.1961	0.170	86.682	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	333.357	0.00	0.0138	0.594	4314.879	ug/L
|	Zn	66	666.760	0.00	0.5456	1.817	333.020	ug/L
|>	Ge	72	318389.562	318389.56				ug/L
|	As	75	179.756	0.00	0.0467	0.031	67.125	ug/L
|	Se	77	55.334	-0.00	-0.3171	0.336	106.088	ug/L
⌊	Se	82	67.878	0.00	0.0288	0.224	779.428	ug/L
	Y	89	285003.654	-27423.71				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0081	0.014	173.205	ug/L
|	Cd	114	29.786	-0.00	-0.0004	0.021	5201.667	ug/L
|>	In	115	366214.351	366214.35				ug/L
⌊	Sb	123	353.613	0.00	0.0990	0.008	8.514	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	370387.997	370388.00				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	36.667	-108.00	-0.0215	0.001	4.660	ug/L
|	Tl	205	73.341	-253.37	-0.0206	0.002	11.395	ug/L
|	Pb	206	203.357	66.67	0.0158	0.001	8.660	ug/L
|	Pb	207	206.690	153.35	0.0416	0.014	32.826	ug/L
|	Pb	208	858.066	414.04	0.0246	0.004	16.893	ug/L
⌊>	Bi	209	378036.413	378036.41				ug/L
⌈	Na	23	3667.624	0.01	0.0012	0.001	62.610	mg/L
|	Mg	24	1000.210	0.01	0.0013	0.002	173.205	mg/L
|	K	39	533948.721	-0.10	-0.0048	0.042	871.068	mg/L
|	Ca	43	333.357	0.00	0.0642	0.111	173.205	mg/L
|	Fe	54	9254.987	-0.01	-0.0027	0.015	564.751	mg/L
⌊	Fe	57	6669.982	-0.01	-0.0112	0.016	141.126	mg/L

└> Sc	45	94288.921	94288.92		mg/L
Cl	35	15350.012	-23087.89		mg/L
Kr	83	94.335	-3.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45		101.455			
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72		98.818			
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115		95.506			
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159		93.105			
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209		98.142			
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45		101.455			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Co	59	CCB is out of limits (+/-3*IDL)
QC Std 7	Zn	66	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0628701

Sample Date/Time: Monday, June 18, 2001 12:17:25
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19363.954	8021.61				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	896587.093	7.85	1528.7625	310.973	20.341	ug/L
|>	Sc-1	45	114247.103	114247.10				ug/L
⌈	V	51	7682.719	0.02	4.1235	5.136	124.555	ug/L
|	Cr	52	11008.617	0.03	6.7709	1.311	19.365	ug/L
|	Cr	53	666.760	-0.00	-10.3257	8.142	78.849	ug/L
|	Mn	55	50518.577	0.15	26.9637	6.974	25.866	ug/L
|	Co	59	3334.360	0.01	2.3028	1.576	68.452	ug/L
|	Ni	60	7337.209	0.02	23.0013	4.520	19.650	ug/L
|	Cu	65	4334.664	0.01	9.4599	1.654	17.483	ug/L
|	Zn	66	7337.396	0.02	25.3033	9.083	35.897	ug/L
|>	Ge	72	336381.149	336381.15				ug/L
|	As	75	1397.980	0.00	3.6805	0.087	2.369	ug/L
|	Se	77	77.334	-0.00	-0.0031	0.548	17617.691	ug/L
⌊	Se	82	81.436	0.00	0.3901	0.476	121.948	ug/L
	Y	89	307873.955	-4553.41				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	12066.138	0.03	11.4857	1.236	10.764	ug/L
|>	In	115	375658.404	375658.40				ug/L
⌊	Sb	123	2209.177	0.01	1.6484	0.069	4.215	ug/L
⌈	Ba	135	2000.280	0.00	5.2132	0.442	8.475	ug/L
|	Ce	140	32742.303	0.08				ug/L
|>	Tb	159	433486.135	433486.13				ug/L
⌈	Ho	165	666.713	666.71				ug/L
|	Tl	203	143.670	-1.00	-0.0005	0.007	1350.317	ug/L
|	Tl	205	343.376	16.67	0.0034	0.009	277.126	ug/L
|	Pb	206	11083.042	10946.36	6.4889	0.264	4.068	ug/L
|	Pb	207	9063.357	9010.02	6.1147	0.612	10.003	ug/L
|	Pb	208	43137.570	42693.54	6.3477	0.202	3.182	ug/L
|>	Bi	209	351385.408	351385.41				ug/L
⌈	Na	23	21085043.263	204.23	43.5485	57.084	131.082	mg/L
|	Mg	24	721355.809	6.38	1.7595	0.248	14.077	mg/L
|	K	39	53800577.868	468.91	57.5330	6.313	10.974	mg/L
|	Ca	43	13681.829	0.12	5.7736	2.646	45.821	mg/L
|	Fe	54	278009.869	2.34	2.4703	0.243	9.838	mg/L
|	Fe	57	112208.778	0.91	2.0518	0.184	8.988	mg/L

> Sc	45	114247.103	114247.10		mg/L
Cl	35	87206.129	48768.23		mg/L
Kr	83	115.335	17.67		mg/L
U	238	11676.405	11676.40		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		122.930			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.402			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		97.969			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		108.966			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		91.223			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		122.930			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0628701
Report Date/Time: Monday, June 18, 2001 12:18:06

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Na 23 Upper, S, EEE	Na	23
K 39 Upper, S, EEE	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0629701

Sample Date/Time: Monday, June 18, 2001 12:22:26
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17020.441	5678.09				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	21032.228	0.18	34.8193	6.749	19.384	ug/L
⌊>	Sc-1	45	108835.062	108835.06				ug/L
⌈	V	51	-893.557	-0.01	-2.4864	0.664	26.697	ug/L
|	Cr	52	2667.273	0.00	0.1110	1.175	1058.369	ug/L
|	Cr	53	1333.473	-0.00	-5.7657	4.065	70.495	ug/L
|	Mn	55	330158.145	0.94	170.4608	13.980	8.201	ug/L
|	Co	59	7337.583	0.02	4.9077	2.182	44.454	ug/L
|	Ni	60	1333.473	0.00	4.0388	1.773	43.891	ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	1000.117	0.00	2.2328	3.507	157.044	ug/L
|>	Ge	72	349047.194	349047.19				ug/L
|	As	75	271.214	0.00	0.3284	0.135	40.961	ug/L
|	Se	77	61.334	-0.00	-0.7700	0.318	41.248	ug/L
⌊	Se	82	81.443	0.00	0.2908	0.407	139.996	ug/L
	Y	89	348380.107	35952.74				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0551	0.057	102.562	ug/L
|	Cd	114	131.678	0.00	0.0875	0.046	52.653	ug/L
|>	In	115	397699.238	397699.24				ug/L
⌊	Sb	123	173.611	0.00	0.0969	0.016	16.353	ug/L
⌈	Ba	135	6336.251	0.02	17.5729	4.891	27.835	ug/L
|	Ce	140	3000.770	0.01				ug/L
⌊>	Tb	159	408013.945	408013.95				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	78.335	-66.34	-0.0330	0.004	12.185	ug/L
|	Tl	205	176.687	-150.02	-0.0305	0.008	26.943	ug/L
|	Pb	206	806.793	670.11	0.3972	0.019	4.798	ug/L
|	Pb	207	720.109	666.77	0.4525	0.077	17.038	ug/L
|	Pb	208	3111.427	2667.40	0.3966	0.028	7.079	ug/L
⌊>	Bi	209	398796.196	398796.20				ug/L
⌈	Na	23	5089362.867	47.76	10.1836	2.216	21.760	mg/L
|	Mg	24	990095.316	9.31	2.5662	0.601	23.417	mg/L
|	K	39	1340917.319	6.64	0.8142	0.162	19.948	mg/L
|	Ca	43	7003.572	0.07	3.1232	0.789	25.263	mg/L
|	Fe	54	185680.217	1.64	1.7300	0.523	30.246	mg/L
|	Fe	57	64961.542	0.53	1.1907	0.271	22.767	mg/L

> Sc	45	108835.062	108835.06		mg/L
Cl	35	47160.276	8722.38		mg/L
Kr	83	101.668	4.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		117.107			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		108.333			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.718			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		102.563			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		103.531			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		117.107			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0629702

Sample Date/Time: Monday, June 18, 2001 12:27:26
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12344.661	1002.31				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	2333.823	0.01	1.4532	2.665	183.379	ug/L
⌊>	Sc-1	45	105440.011	105440.01				ug/L
⌈	V	51	-859.879	-0.01	-2.4765	1.890	76.316	ug/L
|	Cr	52	3000.677	0.00	0.4081	0.762	186.674	ug/L
|	Cr	53	2000.327	-0.00	-0.9081	6.912	761.082	ug/L
|	Mn	55	321869.655	0.94	169.6798	24.424	14.394	ug/L
|	Co	59	5001.891	0.01	3.4227	1.212	35.422	ug/L
|	Ni	60	333.357	0.00	1.0450	1.810	173.205	ug/L
|	Cu	65	666.760	0.00	0.7524	2.729	362.756	ug/L
|	Zn	66	333.357	-0.00	-0.0854	2.032	2379.299	ug/L
|>	Ge	72	341468.378	341468.38				ug/L
|	As	75	305.735	0.00	0.4463	0.020	4.393	ug/L
|	Se	77	66.667	-0.00	-0.4945	0.424	85.695	ug/L
⌊	Se	82	94.683	0.00	0.7572	0.458	60.531	ug/L
	Y	89	310649.222	-1778.14				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0188	0.033	173.205	ug/L
|	Cd	114	128.993	0.00	0.0895	0.105	117.606	ug/L
|>	In	115	388491.094	388491.09				ug/L
⌊	Sb	123	546.415	0.00	0.3729	0.022	5.874	ug/L
⌈	Ba	135	4001.447	0.01	10.8935	7.624	69.984	ug/L
|	Ce	140	2667.227	0.01				ug/L
⌊>	Tb	159	420991.927	420991.93				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	83.001	-61.67	-0.0306	0.005	15.971	ug/L
|	Tl	205	193.356	-133.35	-0.0271	0.015	56.789	ug/L
|	Pb	206	686.769	550.09	0.3261	0.040	12.377	ug/L
|	Pb	207	610.089	556.75	0.3778	0.130	34.274	ug/L
|	Pb	208	2767.690	2323.66	0.3455	0.038	10.991	ug/L
⌊>	Bi	209	379897.157	379897.16				ug/L
⌈	Na	23	5539146.886	52.52	11.1981	0.060	0.535	mg/L
|	Mg	24	969281.767	9.21	2.5402	0.307	12.091	mg/L
|	K	39	1259757.729	6.14	0.7539	0.058	7.636	mg/L
|	Ca	43	4668.955	0.05	2.1694	1.953	90.048	mg/L
|	Fe	54	134861.554	1.18	1.2400	0.231	18.637	mg/L
|	Fe	57	62944.966	0.52	1.1675	0.160	13.718	mg/L

> Sc	45	105440.011	105440.01		mg/L
Cl	35	56899.394	18461.50		mg/L
Kr	83	95.335	-2.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		113.454			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		105.981			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		101.316			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		105.826			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		98.625			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		113.454			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0629703

Sample Date/Time: Monday, June 18, 2001 12:32:24
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16352.607	5010.26				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	20697.373	0.18	35.0580	12.698	36.219	ug/L
|>	Sc-1	45	110190.231	110190.23				ug/L
⌈	V	51	482.346	-0.01	-1.4019	2.184	155.771	ug/L
|	Cr	52	2667.273	0.00	0.1594	1.145	718.265	ug/L
|	Cr	53	666.713	-0.00	-10.2509	4.143	40.421	ug/L
|	Mn	55	242400.790	0.72	129.8468	10.254	7.897	ug/L
|	Co	59	7671.079	0.02	5.3650	1.922	35.823	ug/L
|	Ni	60	333.357	0.00	1.0045	1.740	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	1333.520	0.00	3.6704	4.269	116.310	ug/L
|>	Ge	72	336178.735	336178.73				ug/L
|	As	75	1068.838	0.00	2.7101	0.047	1.716	ug/L
|	Se	77	66.000	-0.00	-0.4762	0.281	58.978	ug/L
⌊	Se	82	81.596	0.00	0.3963	0.221	55.850	ug/L
	Y	89	302637.314	-9790.05				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0182	0.032	173.205	ug/L
|	Cd	114	63.153	0.00	0.0288	0.055	190.156	ug/L
|>	In	115	394206.985	394206.99				ug/L
⌊	Sb	123	88.893	0.00	0.0364	0.005	13.866	ug/L
⌈	Ba	135	5669.024	0.01	16.1549	5.242	32.446	ug/L
|	Ce	140	4668.254	0.01				ug/L
|>	Tb	159	399655.853	399655.85				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	60.668	-84.00	-0.0417	0.006	15.074	ug/L
|	Tl	205	156.684	-170.02	-0.0346	0.004	12.245	ug/L
|	Pb	206	543.409	406.73	0.2411	0.048	20.028	ug/L
|	Pb	207	550.077	496.74	0.3371	0.065	19.208	ug/L
|	Pb	208	2339.273	1895.25	0.2818	0.007	2.535	ug/L
|>	Bi	209	390671.263	390671.26				ug/L
⌈	Na	23	5115820.751	47.26	10.0763	1.910	18.955	mg/L
|	Mg	24	1276607.915	11.89	3.2782	0.813	24.794	mg/L
|	K	39	1492826.226	7.99	0.9801	0.307	31.311	mg/L
|	Ca	43	7338.705	0.07	3.4187	3.142	91.895	mg/L
|	Fe	54	741554.493	6.75	7.1182	1.324	18.594	mg/L
|	Fe	57	368644.262	3.32	7.5247	1.454	19.329	mg/L

⌊> Sc	45	110190.231	110190.23		mg/L
Cl	35	35086.713	-3351.19		mg/L
Kr	83	90.668	-7.00		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		118.565			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.339			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		102.807			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.462			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.422			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		118.565			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0629704

Sample Date/Time: Monday, June 18, 2001 12:37:22
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12344.427	1002.08				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3000.677	0.01	2.5716	1.985	77.188	ug/L
⌊>	Sc-1	45	109838.972	109838.97				ug/L
⌈	V	51	2565.413	0.00	0.1037	1.081	1042.477	ug/L
|	Cr	52	4668.301	0.01	1.7071	1.067	62.503	ug/L
|	Cr	53	2000.467	-0.00	-1.1089	13.765	1241.317	ug/L
|	Mn	55	237605.947	0.70	126.2597	17.366	13.754	ug/L
|	Co	59	8672.411	0.03	5.9837	2.304	38.506	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	333.357	-0.00	-0.0437	1.350	3087.728	ug/L
|	Zn	66	1333.473	0.00	3.5819	2.294	64.050	ug/L
|>	Ge	72	339005.523	339005.52				ug/L
|	As	75	999.079	0.00	2.4837	0.119	4.807	ug/L
|	Se	77	60.000	-0.00	-0.7640	0.635	83.152	ug/L
⌊	Se	82	78.182	0.00	0.2637	0.180	68.297	ug/L
	Y	89	261059.093	-51368.27				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0378	0.033	86.605	ug/L
|	Cd	114	63.153	0.00	0.0275	0.054	195.311	ug/L
|>	In	115	393762.831	393762.83				ug/L
⌊	Sb	123	119.591	0.00	0.0587	0.010	17.783	ug/L
⌈	Ba	135	4335.131	0.01	11.7137	7.102	60.632	ug/L
|	Ce	140	4334.664	0.01				ug/L
⌊>	Tb	159	395792.444	395792.44				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	59.668	-85.00	-0.0422	0.003	8.263	ug/L
|	Tl	205	96.677	-230.03	-0.0468	0.006	13.283	ug/L
|	Pb	206	713.440	576.76	0.3419	0.035	10.161	ug/L
|	Pb	207	513.403	460.06	0.3122	0.028	9.051	ug/L
|	Pb	208	2558.315	2114.29	0.3144	0.019	6.063	ug/L
⌊>	Bi	209	392198.917	392198.92				ug/L
⌈	Na	23	4998650.124	45.51	9.7047	0.485	4.998	mg/L
|	Mg	24	1246738.505	11.36	3.1336	0.132	4.216	mg/L
|	K	39	1338766.967	6.40	0.7848	0.105	13.429	mg/L
|	Ca	43	5669.024	0.05	2.4931	0.748	30.001	mg/L
|	Fe	54	810870.286	7.26	7.6500	0.707	9.239	mg/L
|	Fe	57	349364.227	3.10	7.0234	0.460	6.556	mg/L

> Sc	45	109838.972	109838.97		mg/L
Cl	35	34082.570	-4355.33		mg/L
Kr	83	87.668	-10.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		118.187			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		105.216			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.691			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		99.491			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		101.819			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		118.187			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0630821

Sample Date/Time: Monday, June 18, 2001 12:42:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14016.589	2674.24				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5335.808	0.04	8.5185	6.725	78.948	ug/L
⌊>	Sc-1	45	92939.770	92939.77				ug/L
⌈	V	51	1427.213	-0.00	-0.7604	1.071	140.904	ug/L
|	Cr	52	3334.500	0.00	0.6621	2.244	338.920	ug/L
|	Cr	53	666.760	-0.00	-10.3218	8.149	78.946	ug/L
|	Mn	55	1333.520	0.00	0.5260	0.617	117.380	ug/L
|	Co	59	666.760	0.00	0.4676	0.810	173.205	ug/L
|	Ni	60	333.357	0.00	0.9956	1.724	173.205	ug/L
|	Cu	65	666.760	0.00	0.7235	2.679	370.317	ug/L
|	Zn	66	333.357	-0.00	-0.1113	1.987	1785.632	ug/L
|>	Ge	72	342934.130	342934.13				ug/L
|	As	75	195.944	0.00	0.1246	0.072	58.105	ug/L
|	Se	77	62.667	-0.00	-0.6673	0.092	13.757	ug/L
⌊	Se	82	76.045	0.00	0.1701	0.111	65.167	ug/L
	Y	89	340358.001	27930.64				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	162.361	0.00	0.1207	0.112	92.935	ug/L
|>	In	115	394678.300	394678.30				ug/L
⌊	Sb	123	71.269	0.00	0.0237	0.005	19.764	ug/L
⌈	Ba	135	333.357	0.00	0.8663	1.501	173.205	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	436972.364	436972.36				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	34.334	-110.34	-0.0548	0.006	10.505	ug/L
|	Tl	205	63.340	-263.37	-0.0536	0.008	15.810	ug/L
|	Pb	206	833.466	696.78	0.4130	0.055	13.338	ug/L
|	Pb	207	730.110	676.77	0.4593	0.027	5.912	ug/L
|	Pb	208	3217.451	2773.42	0.4124	0.013	3.164	ug/L
⌊>	Bi	209	391007.835	391007.83				ug/L
⌈	Na	23	17021.706	0.16	0.0346	0.015	43.645	mg/L
|	Mg	24	2667.367	0.03	0.0084	0.007	89.123	mg/L
|	K	39	576384.114	0.47	0.0574	0.125	217.512	mg/L
|	Ca	43	333.357	0.00	0.1965	0.340	173.205	mg/L
|	Fe	54	20939.093	0.12	0.1271	0.082	64.321	mg/L
|	Fe	57	12010.650	0.05	0.1095	0.098	89.821	mg/L

Sc	45	92939.770	92939.77		mg/L
Cl	35	22034.260	-16403.64		mg/L
Kr	83	86.668	-11.00		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		100.003			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		106.436			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.930			
Sb	123					
Ba	135					
Ce	140					
Tb	159		109.843			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		101.510			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		100.003			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0630821
Report Date/Time: Monday, June 18, 2001 12:43:01

Method 6020 - Summary Report

Sample ID: 0633106

Sample Date/Time: Monday, June 18, 2001 12:47:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15685.568	4343.22				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	2333.823	0.01	1.9538	3.538	181.089	ug/L
⌊>	Sc-1	45	99035.024	99035.02				ug/L
⌈	V	51	3901.368	0.00	1.1086	0.522	47.064	ug/L
|	Cr	52	2667.227	0.00	0.1734	1.016	585.860	ug/L
|	Cr	53	1000.117	-0.00	-7.7152	7.448	96.534	ug/L
|	Mn	55	2000.327	0.00	0.8579	0.512	59.646	ug/L
|	Co	59	333.357	0.00	0.2261	0.392	173.205	ug/L
|	Ni	60	333.357	0.00	0.9780	1.694	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	3000.817	0.01	9.5128	7.174	75.419	ug/L
|>	Ge	72	342849.747	342849.75				ug/L
|	As	75	181.192	0.00	0.0848	0.075	88.775	ug/L
|	Se	77	62.000	-0.00	-0.6750	0.801	118.684	ug/L
⌊	Se	82	77.356	0.00	0.2253	0.421	186.769	ug/L
	Y	89	322493.659	10066.29				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0566	0.057	100.847	ug/L
|	Cd	114	94.731	0.00	0.0563	0.091	161.445	ug/L
|>	In	115	394177.657	394177.66				ug/L
⌊	Sb	123	791.198	0.00	0.5437	0.037	6.777	ug/L
⌈	Ba	135	333.357	0.00	0.9925	1.719	173.205	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	395687.909	395687.91				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	625.700	481.03	0.2390	0.017	7.263	ug/L
|	Tl	205	1410.281	1083.57	0.2205	0.021	9.638	ug/L
|	Pb	206	1350.263	1213.58	0.7194	0.046	6.438	ug/L
|	Pb	207	1126.869	1073.53	0.7286	0.068	9.379	ug/L
|	Pb	208	5306.054	4862.03	0.7229	0.010	1.428	ug/L
⌊>	Bi	209	386347.856	386347.86				ug/L
⌈	Na	23	17354.968	0.15	0.0321	0.003	9.800	mg/L
|	Mg	24	2333.777	0.02	0.0065	0.003	50.522	mg/L
|	K	39	592967.564	0.33	0.0400	0.135	336.114	mg/L
|	Ca	43	1333.473	0.01	0.6787	0.362	53.294	mg/L
|	Fe	54	25303.819	0.15	0.1583	0.013	8.185	mg/L
|	Fe	57	8672.130	0.00	0.0110	0.017	154.158	mg/L

>	Sc	45	99035.024	99035.02	mg/L
	Cl	35	25713.349	-12724.55	mg/L
	Kr	83	97.002	-0.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		106.562			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		106.409			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		102.799			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		99.465			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		100.300			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		106.562			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0633205

Sample Date/Time: Monday, June 18, 2001 12:52:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18357.937	7015.59				ug/L
[	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	22369.349	0.24	46.7117	14.949	32.003	ug/L
L>	Sc-1	45	90239.419	90239.42				ug/L
[	V	51	2663.221	0.00	0.2211	3.078	1392.238	ug/L
|	Cr	52	4001.307	0.00	1.2256	1.561	127.376	ug/L
|	Cr	53	0.000	-0.01	-15.0264			ug/L
|	Mn	55	6002.661	0.02	3.0261	0.934	30.858	ug/L
|	Co	59	333.357	0.00	0.2327	0.403	173.205	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	333.357	-0.00	-0.0429	1.352	3153.195	ug/L
|	Zn	66	333.357	-0.00	-0.0438	2.104	4799.352	ug/L
| >	Ge	72	337276.299	337276.30				ug/L
|	As	75	153.809	0.00	0.0106	0.060	561.175	ug/L
|	Se	77	61.334	-0.00	-0.6822	0.247	36.163	ug/L
L	Se	82	64.349	-0.00	-0.1553	0.043	27.483	ug/L
	Y	89	329813.111	17385.74				ug/L
[	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0189	0.033	173.205	ug/L
|	Cd	114	-4.476	-0.00	-0.0336	0.003	8.542	ug/L
| >	In	115	390651.770	390651.77				ug/L
L	Sb	123	62.972	0.00	0.0181	0.004	23.830	ug/L
[	Ba	135	1000.070	0.00	2.8888	0.213	7.379	ug/L
|	Ce	140	1333.567	0.00				ug/L
L>	Tb	159	390776.260	390776.26				ug/L
[	Ho	165	666.713	666.71				ug/L
|	Tl	203	32.334	-112.34	-0.0558	0.001	2.240	ug/L
|	Tl	205	63.340	-263.37	-0.0536	0.007	13.336	ug/L
|	Pb	206	653.429	516.75	0.3063	0.058	18.799	ug/L
|	Pb	207	653.429	600.09	0.4073	0.035	8.553	ug/L
|	Pb	208	2739.349	2295.32	0.3413	0.028	8.233	ug/L
L>	Bi	209	389589.203	389589.20				ug/L
[	Na	23	16352.138	0.16	0.0334	0.001	4.365	mg/L
|	Mg	24	7670.986	0.09	0.0242	0.010	39.403	mg/L
|	K	39	586878.842	0.79	0.0974	0.149	153.346	mg/L
|	Ca	43	666.713	0.01	0.3365	0.294	87.314	mg/L
|	Fe	54	29952.493	0.23	0.2449	0.109	44.407	mg/L
|	Fe	57	8338.260	0.01	0.0226	0.018	79.927	mg/L

L> Sc	45	90239.419	90239.42		mg/L
Cl	35	21700.343	-16737.55		mg/L
Kr	83	95.335	-2.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		97.098			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.680			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		101.880			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		98.230			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		101.141			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		97.098			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0633205
Report Date/Time: Monday, June 18, 2001 12:53:00
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Method 6020 - Summary Report

Sample ID: 0633206

Sample Date/Time: Monday, June 18, 2001 12:57:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17689.962	6347.62				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5669.118	0.05	9.5755	7.972	83.249	ug/L
⌊>	Sc-1	45	100416.320	100416.32				ug/L
⌈	V	51	975.759	-0.00	-1.0398	1.501	144.356	ug/L
|	Cr	52	3000.957	0.00	0.3863	1.950	504.699	ug/L
|	Cr	53	333.357	-0.01	-12.6268	4.156	32.916	ug/L
|	Mn	55	1000.117	0.00	0.3383	0.511	150.966	ug/L
|	Co	59	1000.070	0.00	0.6895	0.029	4.225	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	4668.628	0.01	15.6745	11.171	71.271	ug/L
|>	Ge	72	338433.093	338433.09				ug/L
|	As	75	202.255	0.00	0.1516	0.091	60.323	ug/L
|	Se	77	53.334	-0.00	-1.0352	0.288	27.818	ug/L
⌊	Se	82	82.980	0.00	0.4146	0.081	19.420	ug/L
	Y	89	330496.162	18068.80				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0194	0.034	173.205	ug/L
|	Cd	114	94.731	0.00	0.0591	0.094	159.600	ug/L
|>	In	115	391716.010	391716.01				ug/L
⌊	Sb	123	65.681	0.00	0.0199	0.006	28.359	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	420405.643	420405.64				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	35.334	-109.34	-0.0543	0.003	4.694	ug/L
|	Tl	205	46.671	-280.04	-0.0570	0.001	2.062	ug/L
|	Pb	206	710.107	573.42	0.3399	0.043	12.578	ug/L
|	Pb	207	506.736	453.40	0.3077	0.049	15.958	ug/L
|	Pb	208	2447.294	2003.27	0.2978	0.005	1.538	ug/L
⌊>	Bi	209	392591.810	392591.81				ug/L
⌈	Na	23	18692.792	0.16	0.0343	0.002	4.771	mg/L
|	Mg	24	2334.010	0.03	0.0077	0.010	130.374	mg/L
|	K	39	551513.498	0.10	0.0120	0.242	2012.832	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	21949.977	0.14	0.1430	0.120	84.184	mg/L
|	Fe	57	9340.105	0.02	0.0558	0.148	265.457	mg/L

> Sc	45	100416.320	100416.32		mg/L
Cl	35	25045.000	-13392.90		mg/L
Kr	83	87.001	-10.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		108.048			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		105.039			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		102.157			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.678			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		101.921			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		108.048			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0632901

Sample Date/Time: Monday, June 18, 2001 13:02:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.356	8352.01				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	26049.142	0.25	49.5696	13.409	27.052	ug/L
⌊>	Sc-1	45	97325.726	97325.73				ug/L
⌈	V	51	3877.967	0.00	1.1619	1.110	95.531	ug/L
|	Cr	52	5669.305	0.01	2.5360	2.190	86.374	ug/L
|	Cr	53	666.713	-0.00	-10.1737	4.211	41.388	ug/L
|	Mn	55	1666.877	0.00	0.7006	0.282	40.200	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	1333.473	0.00	4.2397	2.025	47.751	ug/L
|	Cu	65	2000.327	0.00	3.9689	2.562	64.564	ug/L
|	Zn	66	3000.677	0.01	9.6181	3.601	37.438	ug/L
|>	Ge	72	336180.909	336180.91				ug/L
|	As	75	152.805	0.00	0.0069	0.194	2801.816	ug/L
|	Se	77	67.334	-0.00	-0.4072	0.443	108.754	ug/L
⌊	Se	82	79.733	0.00	0.3334	0.487	146.029	ug/L
	Y	89	329144.796	16717.43				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0192	0.033	173.205	ug/L
|	Cd	114	59.573	0.00	0.0261	0.050	192.839	ug/L
|>	In	115	381902.462	381902.46				ug/L
⌊	Sb	123	97.978	0.00	0.0452	0.011	23.797	ug/L
⌈	Ba	135	5002.078	0.01	13.0106	5.698	43.797	ug/L
|	Ce	140	1666.877	0.00				ug/L
⌊>	Tb	159	422894.035	422894.03				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	47.667	-97.00	-0.0482	0.003	5.862	ug/L
|	Tl	205	96.677	-230.03	-0.0468	0.003	6.641	ug/L
|	Pb	206	1587.002	1450.32	0.8597	0.030	3.472	ug/L
|	Pb	207	1356.932	1303.59	0.8847	0.068	7.686	ug/L
|	Pb	208	6296.088	5852.06	0.8701	0.020	2.309	ug/L
⌊>	Bi	209	383145.117	383145.12				ug/L
⌈	Na	23	7096382.312	72.98	15.5607	1.338	8.601	mg/L
|	Mg	24	832619.202	8.57	2.3630	0.204	8.622	mg/L
|	K	39	981498.333	4.28	0.5257	0.091	17.227	mg/L
|	Ca	43	4334.944	0.04	2.1200	1.202	56.718	mg/L
|	Fe	54	28231.699	0.18	0.1943	0.081	41.548	mg/L
|	Fe	57	13345.899	0.06	0.1247	0.047	37.376	mg/L

> Sc	45	97325.726	97325.73		mg/L
Cl	35	38441.569	3.67		mg/L
Kr	83	91.668	-6.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		104.723			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		104.340			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		99.598			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		106.304			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.468			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		104.723			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, June 18, 2001 13:07:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14013.780	2671.43				ug/L
⌈	Be	9	9339.871	0.08	46.8720	13.262	28.294	ug/L
|	Al	27	70010.077	0.60	46.6319	8.833	18.942	ug/L
|>	Sc-1	45	115601.979	115601.98				ug/L
⌈	V	51	196108.552	0.57	59.0274	5.734	9.714	ug/L
|	Cr	52	138003.195	0.40	42.6375	5.557	13.034	ug/L
|	Cr	53	18694.339	0.05	47.9665	25.599	53.369	ug/L
|	Mn	55	242792.674	0.72	51.8406	8.660	16.704	ug/L
|	Co	59	203190.338	0.60	56.1058	4.198	7.483	ug/L
|	Ni	60	43465.240	0.13	54.3488	2.377	4.374	ug/L
|	Cu	65	53198.259	0.16	49.8826	5.494	11.014	ug/L
|	Zn	66	35086.572	0.10	50.0513	5.425	10.839	ug/L
|>	Ge	72	337886.481	337886.48				ug/L
|	As	75	43027.168	0.13	50.3407	1.145	2.275	ug/L
|	Se	77	3012.636	0.01	49.5676	2.715	5.478	ug/L
⌊	Se	82	4129.819	0.01	50.5458	0.952	1.884	ug/L
	Y	89	297757.220	-14670.15				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	228010.085	0.59	52.4547	1.300	2.479	ug/L
|	Cd	114	138328.071	0.36	51.7137	2.010	3.886	ug/L
|>	In	115	383312.698	383312.70				ug/L
⌊	Sb	123	178196.069	0.46	52.9763	1.627	3.071	ug/L
⌈	Ba	135	44807.061	0.12	53.4875	4.398	8.223	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	377385.420	377385.42				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	246197.266	246052.60	48.9074	2.276	4.654	ug/L
|	Tl	205	602710.339	602383.63	49.0215	1.291	2.634	ug/L
|	Pb	206	227588.212	227451.53	53.9327	0.565	1.048	ug/L
|	Pb	207	173339.839	173286.50	47.0407	1.473	3.131	ug/L
|	Pb	208	838616.115	838172.09	49.8479	1.125	2.257	ug/L
|>	Bi	209	388661.962	388661.96				ug/L
⌈	Na	23	5661987.059	48.76	4.1591	0.230	5.525	mg/L
|	Mg	24	3804686.839	33.12	3.6536	0.323	8.852	mg/L
|	K	39	10580077.877	86.71	4.2553	0.672	15.796	mg/L
|	Ca	43	22034.073	0.19	3.6726	0.232	6.312	mg/L
|	Fe	54	1258447.247	10.87	4.5813	0.723	15.784	mg/L
|	Fe	57	538631.870	4.64	4.2018	0.736	17.514	mg/L

Sc	45	115601.979	115601.98		mg/L
Cl	35	18692.605	-19745.29		mg/L
Kr	83	101.002	3.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	93.744				
Al	27	93.264				
Sc-1	45		124.388			
V	51	118.055				
Cr	52	85.275				
Cr	53	95.933				
Mn	55	103.681				
Co	59	112.212				
Ni	60	108.698				
Cu	65	99.765				
Zn	66	100.103				
Ge	72		104.869			
As	75	100.681				
Se	77	99.135				
Se	82	101.092				
Y	89					
Rh	103					
Ag	107	104.909				
Cd	114	103.427				
In	115		99.966			
Sb	123	105.953				
Ba	135	106.975				
Ce	140					
Tb	159		94.864			
Ho	165					
Tl	203	97.815				
Tl	205	98.043				
Pb	206	107.865				
Pb	207	94.081				
Pb	208	99.696				
Bi	209		100.901			
Na	23	83.181				
Mg	24	73.072				
K	39	85.107				
Ca	43	73.452				
Fe	54	91.626				
Fe	57	84.037				
Sc	45		124.388			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, June 18, 2001 13:08:01

QC Std 6	Be	9	CCV is out of limits (+/-10%)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Co	59	CCV is out of limits (+/-10%)
QC Std 6	Mg	24	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)
Sc 45 Int Std for QC S	Sc	45	

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, June 18, 2001 13:12:19
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24042.405	12700.06				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	0.000	-0.01	-1.1180	0.000	0.000	ug/L
|>	Sc-1	45	88921.759	88921.76				ug/L
⌈	V	51	2018.289	-0.00	-0.0867	0.596	687.606	ug/L
|	Cr	52	3000.630	0.00	0.1886	0.050	26.660	ug/L
|	Cr	53	0.000	-0.01	-6.0105	0.000	0.000	ug/L
|	Mn	55	666.713	0.00	0.0657	0.122	185.100	ug/L
|	Co	59	666.713	0.00	0.1908	0.166	86.775	ug/L
|	Ni	60	333.357	0.00	0.4477	0.775	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.3293	0.000	0.000	ug/L
|	Zn	66	333.357	-0.00	-0.0368	0.808	2195.648	ug/L
|>	Ge	72	333381.376	333381.38				ug/L
|	As	75	86.443	-0.00	-0.0719	0.058	81.229	ug/L
|	Se	77	53.334	-0.00	-0.4009	0.142	35.439	ug/L
⌊	Se	82	62.740	-0.00	-0.0669	0.200	298.656	ug/L
	Y	89	316535.830	4108.46				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	27.996	-0.00	-0.0013	0.023	1754.020	ug/L
|>	In	115	387269.686	387269.69				ug/L
⌊	Sb	123	313.684	0.00	0.0811	0.012	15.142	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	431131.323	431131.32				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	25.334	-119.34	-0.0237	0.000	1.744	ug/L
|	Tl	205	33.337	-293.37	-0.0239	0.002	7.096	ug/L
|	Pb	206	200.023	63.34	0.0150	0.004	27.348	ug/L
|	Pb	207	170.019	116.68	0.0317	0.012	39.280	ug/L
|	Pb	208	818.394	374.37	0.0223	0.005	21.972	ug/L
|>	Bi	209	395340.555	395340.55				ug/L
⌈	Na	23	5335.387	0.04	0.0035	0.003	81.493	mg/L
|	Mg	24	666.713	0.01	0.0010	0.001	94.448	mg/L
|	K	39	582556.800	1.39	0.0683	0.153	223.863	mg/L
|	Ca	43	333.357	0.01	0.1119	0.194	173.205	mg/L
|	Fe	54	8587.808	0.01	0.0034	0.036	1065.155	mg/L
|	Fe	57	8338.260	0.02	0.0145	0.020	137.421	mg/L

⌊> Sc	45	88921.759	88921.76		mg/L
Cl	35	17021.003	-21416.89		mg/L
Kr	83	93.335	-4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		95.680			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.471			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.998			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.375			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		102.634			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		95.680			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Co	59	CCB is out of limits (+/-3*IDL)
QC Std 7	Ni	60	CCB is out of limits (+/-3*IDL)
QC Std 7	Cu	65	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0632902

Sample Date/Time: Monday, June 18, 2001 13:17:18
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.591	8352.24				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	6670.356	0.06	10.7400	8.959	83.416	ug/L
⌊>	Sc-1	45	103423.013	103423.01				ug/L
⌈	V	51	2486.423	0.00	0.0439	1.576	3590.389	ug/L
|	Cr	52	8338.493	0.02	4.4574	2.176	48.824	ug/L
|	Cr	53	1666.877	-0.00	-3.4341	4.227	123.074	ug/L
|	Mn	55	3000.677	0.01	1.3501	0.475	35.187	ug/L
|	Co	59	333.357	0.00	0.2163	0.375	173.205	ug/L
|	Ni	60	666.713	0.00	2.0380	1.767	86.726	ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	1333.473	0.00	3.3475	1.879	56.146	ug/L
|>	Ge	72	350191.954	350191.95				ug/L
|	As	75	154.568	-0.00	-0.0040	0.048	1203.498	ug/L
|	Se	77	62.667	-0.00	-0.7189	0.553	76.961	ug/L
⌊	Se	82	76.052	0.00	0.1239	0.074	59.817	ug/L
	Y	89	327366.044	14938.68				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0193	0.033	173.205	ug/L
|	Cd	114	28.891	-0.00	-0.0041	0.053	1284.593	ug/L
|>	In	115	400077.101	400077.10				ug/L
⌊	Sb	123	1344.736	0.00	0.9311	0.060	6.461	ug/L
⌈	Ba	135	4668.207	0.01	13.1467	2.200	16.735	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	402068.686	402068.69				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	49.001	-95.67	-0.0475	0.002	4.790	ug/L
|	Tl	205	113.346	-213.36	-0.0434	0.007	16.462	ug/L
|	Pb	206	823.463	686.78	0.4071	0.024	5.886	ug/L
|	Pb	207	693.437	640.10	0.4344	0.051	11.728	ug/L
|	Pb	208	3353.154	2909.13	0.4325	0.014	3.346	ug/L
⌊>	Bi	209	394028.816	394028.82				ug/L
⌈	Na	23	6797786.199	66.67	14.2161	2.080	14.633	mg/L
|	Mg	24	975751.593	9.64	2.6594	0.535	20.134	mg/L
|	K	39	929066.069	3.33	0.4090	0.188	45.855	mg/L
|	Ca	43	6002.848	0.06	2.7527	0.910	33.065	mg/L
|	Fe	54	29498.221	0.18	0.1849	0.089	47.869	mg/L
|	Fe	57	11677.622	0.03	0.0720	0.118	164.036	mg/L

> Sc	45	103423.013	103423.01		mg/L
Cl	35	34087.364	-4350.53		mg/L
Kr	83	88.335	-9.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		111.283			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.688			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		104.338			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.069			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		102.294			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		111.283			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0632903

Sample Date/Time: Monday, June 18, 2001 13:22:19
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13680.003	2337.66				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	27386.967	0.24	47.6142	7.170	15.059	ug/L
|>	Sc-1	45	105440.727	105440.73				ug/L
⌈	V	51	32561.694	0.09	22.5392	6.091	27.024	ug/L
|	Cr	52	8338.260	0.02	4.5061	1.003	22.260	ug/L
|	Cr	53	2000.607	-0.00	-0.7736	18.926	2446.524	ug/L
|	Mn	55	7671.453	0.02	3.8419	2.062	53.663	ug/L
|	Co	59	1333.567	0.00	0.8898	1.006	113.069	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	3668.044	0.01	11.7471	11.047	94.039	ug/L
|>	Ge	72	345332.301	345332.30				ug/L
|	As	75	694.646	0.00	1.5517	0.093	5.998	ug/L
|	Se	77	95.334	0.00	0.6710	1.743	259.808	ug/L
⌊	Se	82	96.386	0.00	0.7729	0.086	11.120	ug/L
	Y	89	300245.819	-12181.55				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	97.417	0.00	0.0562	0.155	275.040	ug/L
|>	In	115	405234.120	405234.12				ug/L
⌊	Sb	123	220.940	0.00	0.1274	0.008	5.953	ug/L
⌈	Ba	135	6003.409	0.02	17.7722	13.657	76.845	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	414196.576	414196.58				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	66.668	-78.00	-0.0388	0.003	7.512	ug/L
|	Tl	205	123.347	-203.36	-0.0414	0.010	24.260	ug/L
|	Pb	206	653.429	516.75	0.3063	0.027	8.728	ug/L
|	Pb	207	593.418	540.08	0.3665	0.062	16.804	ug/L
|	Pb	208	2610.324	2166.30	0.3221	0.026	7.934	ug/L
|>	Bi	209	394574.079	394574.08				ug/L
⌈	Na	23	4148218.156	39.40	8.4014	1.126	13.404	mg/L
|	Mg	24	1129183.336	10.74	2.9617	0.367	12.376	mg/L
|	K	39	1649200.275	9.83	1.2065	0.026	2.142	mg/L
|	Ca	43	45145.780	0.43	20.7106	4.987	24.080	mg/L
|	Fe	54	19793.996	0.08	0.0863	0.058	67.416	mg/L
|	Fe	57	14016.027	0.05	0.1153	0.155	134.754	mg/L

\>	Sc	45	105440.727	105440.73		mg/L
	Cl	35	46485.149	8047.25		mg/L
	Kr	83	88.335	-9.33		mg/L
	U	238	5669.118	5669.12		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		113.454			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.180			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		105.683			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.118			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		102.435			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		113.454			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0632903
Report Date/Time: Monday, June 18, 2001 13:23:01

Method 6020 - Summary Report

Sample ID: 0632904

Sample Date/Time: Monday, June 18, 2001 13:27:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18358.078	7015.73				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	19696.888	0.21	41.5489	24.074	57.941	ug/L
|>	Sc-1	45	91258.068	91258.07				ug/L
⌈	V	51	21932.396	0.06	14.4226	0.643	4.459	ug/L
|	Cr	52	6670.169	0.01	3.1489	2.086	66.259	ug/L
|	Cr	53	2000.467	-0.00	-1.3677	13.617	995.651	ug/L
|	Mn	55	9340.199	0.03	4.7032	2.244	47.702	ug/L
|	Co	59	666.713	0.00	0.4524	0.392	86.684	ug/L
|	Ni	60	1000.117	0.00	3.0992	3.152	101.698	ug/L
|	Cu	65	333.357	-0.00	-0.0773	1.292	1671.284	ug/L
|	Zn	66	2667.460	0.01	8.0757	8.661	107.245	ug/L
|>	Ge	72	347657.531	347657.53				ug/L
|	As	75	632.718	0.00	1.3667	0.180	13.180	ug/L
|	Se	77	70.667	-0.00	-0.3650	0.582	159.346	ug/L
⌊	Se	82	101.016	0.00	0.9006	0.318	35.352	ug/L
	Y	89	317027.511	4600.14				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0177	0.031	173.205	ug/L
|	Cd	114	128.098	0.00	0.0840	0.105	124.845	ug/L
|>	In	115	399850.733	399850.73				ug/L
⌊	Sb	123	1854.273	0.00	1.2938	0.019	1.463	ug/L
⌈	Ba	135	4001.260	0.01	11.5637	5.191	44.888	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	391210.696	391210.70				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	59.334	-85.34	-0.0424	0.003	7.625	ug/L
|	Tl	205	156.684	-170.02	-0.0346	0.007	20.658	ug/L
|	Pb	206	690.102	553.42	0.3281	0.031	9.391	ug/L
|	Pb	207	756.783	703.44	0.4774	0.075	15.662	ug/L
|	Pb	208	2960.394	2516.37	0.3741	0.019	5.118	ug/L
|>	Bi	209	388851.761	388851.76				ug/L
⌈	Na	23	3998920.099	44.88	9.5707	2.009	20.994	mg/L
|	Mg	24	1012500.806	11.24	3.1002	0.351	11.318	mg/L
|	K	39	1751740.684	13.91	1.7069	0.608	35.612	mg/L
|	Ca	43	41454.793	0.47	22.5771	6.495	28.770	mg/L
|	Fe	54	24856.540	0.18	0.1852	0.094	50.940	mg/L
|	Fe	57	11008.664	0.04	0.0865	0.020	22.739	mg/L

> Sc	45	91258.068	91258.07		mg/L
Cl	35	50179.908	11742.01		mg/L
Kr	83	95.335	-2.33		mg/L
U	238	7003.759	7003.76		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		98.194			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		107.902			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		104.279			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.340			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		100.950			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		98.194			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0632905

Sample Date/Time: Monday, June 18, 2001 13:32:22
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.225	-333.12				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	22369.725	0.21	41.0276	10.631	25.911	ug/L
|>	Sc-1	45	99352.880	99352.88				ug/L
⌈	V	51	32402.137	0.09	22.5047	4.838	21.497	ug/L
|	Cr	52	9673.321	0.02	5.5848	1.295	23.191	ug/L
|	Cr	53	1666.877	-0.00	-3.1313	4.491	143.430	ug/L
|	Mn	55	8004.529	0.02	4.0186	0.414	10.302	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-0.8234	0.000	0.000	ug/L
|	Zn	66	2000.420	0.00	5.7103	6.044	105.847	ug/L
|>	Ge	72	343027.733	343027.73				ug/L
|	As	75	650.071	0.00	1.4367	0.070	4.881	ug/L
|	Se	77	85.334	0.00	0.3111	1.281	411.669	ug/L
_	Se	82	95.908	0.00	0.7879	0.342	43.384	ug/L
	Y	89	337108.040	24680.67				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	0.00	0.0000	0.000		ug/L
|	Cd	114	64.049	0.00	0.0263	0.051	192.449	ug/L
|>	In	115	398318.572	398318.57				ug/L
_	Sb	123	176.647	0.00	0.0988	0.011	10.845	ug/L
⌈	Ba	135	6336.345	0.02	17.0428	6.282	36.862	ug/L
|	Ce	140	1000.117	0.00				ug/L
|>	Tb	159	423195.112	423195.11				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	64.001	-80.67	-0.0401	0.002	5.404	ug/L
|	Tl	205	120.013	-206.69	-0.0421	0.011	25.142	ug/L
|	Pb	206	1300.249	1163.57	0.6898	0.057	8.290	ug/L
|	Pb	207	1090.193	1036.85	0.7037	0.088	12.541	ug/L
|	Pb	208	4947.592	4503.56	0.6696	0.024	3.536	ug/L
|>	Bi	209	395106.286	395106.29				ug/L
⌈	Na	23	4252159.841	42.77	9.1201	0.736	8.074	mg/L
|	Mg	24	1030228.943	10.37	2.8587	0.427	14.945	mg/L
|	K	39	1823698.573	12.53	1.5379	0.196	12.750	mg/L
|	Ca	43	49506.284	0.50	23.9341	3.299	13.782	mg/L
|	Fe	54	22431.071	0.12	0.1252	0.058	46.363	mg/L
|	Fe	57	10007.894	0.02	0.0416	0.101	243.275	mg/L

> Sc	45	99352.880	99352.88		mg/L
Cl	35	44136.551	5698.65		mg/L
Kr	83	85.668	-12.00		mg/L
U	238	10007.426	10007.43		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		106.904			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		106.465			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		103.879			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		106.380			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		102.574			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		106.904			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0627801 WG99505-02

Sample Date/Time: Monday, June 18, 2001 13:37:22
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 1000.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 20

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.017	1335.67				ug/L
⌈	Be	9	3334.314	0.03	505.2498	309.853	61.327	ug/L
|	Al	27	57230.089	0.58	1124.3917	126.627	11.262	ug/L
⌊>	Sc-1	45	96990.129	96990.13				ug/L
⌈	V	51	676694.485	2.03	5227.6019	701.703	13.423	ug/L
|	Cr	52	85846.897	0.25	666.2866	47.579	7.141	ug/L
|	Cr	53	15350.012	0.04	962.1459	120.009	12.473	ug/L
|	Mn	55	109167.077	0.33	589.6854	65.629	11.130	ug/L
|	Co	59	73376.226	0.22	514.1156	51.907	10.096	ug/L
|	Ni	60	61602.064	0.19	1955.0021	329.313	16.845	ug/L
|	Cu	65	19025.913	0.06	447.5303	94.687	21.158	ug/L
|	Zn	66	12679.046	0.04	447.0038	169.774	37.981	ug/L
|>	Ge	72	333282.066	333282.07				ug/L
|	As	75	11242.550	0.03	329.9139	12.387	3.755	ug/L
|	Se	77	1902.920	0.01	781.8235	38.007	4.861	ug/L
⌊	Se	82	2725.997	0.01	838.2110	9.617	1.147	ug/L
	Y	89	345207.442	32780.08				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	47909.552	0.12	264.9588	19.622	7.406	ug/L
|	Cd	114	49873.052	0.13	449.8187	29.570	6.574	ug/L
|>	In	115	397732.303	397732.30				ug/L
⌊	Sb	123	91178.207	0.23	653.6430	26.605	4.070	ug/L
⌈	Ba	135	70348.429	0.18	2068.5157	422.034	20.403	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	387279.297	387279.30				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	87149.815	87005.15	432.3460	9.934	2.298	ug/L
|	Tl	205	214662.918	214336.21	436.0629	7.312	1.677	ug/L
|	Pb	206	118822.014	118685.33	703.5587	7.621	1.083	ug/L
|	Pb	207	107700.700	107647.36	730.5545	28.271	3.870	ug/L
|	Pb	208	480687.225	480243.20	714.0273	13.807	1.934	ug/L
⌊>	Bi	209	393585.255	393585.26				ug/L
⌈	Na	23	15016.516	0.13	0.2827	0.116	41.168	mg/L
|	Mg	24	666.713	0.01	0.0197	0.017	86.982	mg/L
|	K	39	619049.308	0.59	0.7268	0.581	79.935	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	19945.954	0.10	1.0259	0.265	25.854	mg/L
|	Fe	57	9673.321	0.02	0.4175	0.535	128.032	mg/L

> Sc	45	96990.129	96990.13		mg/L
Cl	35	21030.962	-17406.94		mg/L
Kr	83	101.668	4.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		104.362			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		103.440			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		103.726			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		97.351			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		102.179			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		104.362			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Method 6020 - Summary Report

Sample ID: 0627801 DP WG99505-07

Sample Date/Time: Monday, June 18, 2001 13:42:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 1000.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 20

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11008.664	-333.68				ug/L
⌈	Be	9	2000.607	0.02	355.4173	461.605	129.877	ug/L
|	Al	27	54209.472	0.63	1226.6928	285.626	23.284	ug/L
⌊>	Sc-1	45	84837.241	84837.24				ug/L
⌈	V	51	694656.183	2.08	5355.8047	593.788	11.087	ug/L
|	Cr	52	95653.306	0.28	747.2763	164.883	22.064	ug/L
|	Cr	53	10674.746	0.03	625.5189	86.713	13.863	ug/L
|	Mn	55	112568.680	0.34	610.4091	127.178	20.835	ug/L
|	Co	59	70008.373	0.21	491.3763	21.544	4.384	ug/L
|	Ni	60	67657.614	0.20	2159.2836	418.779	19.394	ug/L
|	Cu	65	17689.962	0.05	416.4518	139.054	33.390	ug/L
|	Zn	66	20697.045	0.06	742.9577	81.635	10.988	ug/L
|>	Ge	72	332288.211	332288.21				ug/L
|	As	75	11871.466	0.04	350.1181	11.532	3.294	ug/L
|	Se	77	2064.966	0.01	855.1710	83.650	9.782	ug/L
⌊	Se	82	2972.192	0.01	920.3573	61.110	6.640	ug/L
	Y	89	342488.583	30061.22				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	50595.653	0.13	291.5251	14.465	4.962	ug/L
|	Cd	114	52594.567	0.14	492.5441	46.236	9.387	ug/L
|>	In	115	383362.994	383362.99				ug/L
⌊	Sb	123	97985.144	0.26	728.8128	35.110	4.817	ug/L
⌈	Ba	135	63286.198	0.15	1652.0571	221.695	13.419	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	428539.781	428539.78				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	93094.408	92949.74	461.8858	6.754	1.462	ug/L
|	Tl	205	228319.238	227992.53	463.8464	12.787	2.757	ug/L
|	Pb	206	122297.470	122160.79	724.1610	21.489	2.967	ug/L
|	Pb	207	108441.311	108387.97	735.5806	15.905	2.162	ug/L
|	Pb	208	501640.439	501196.41	745.1806	23.207	3.114	ug/L
⌊>	Bi	209	394597.679	394597.68				ug/L
⌈	Na	23	12344.942	0.12	0.2621	0.137	52.315	mg/L
|	Mg	24	666.713	0.01	0.0208	0.018	87.026	mg/L
|	K	39	620133.796	1.54	1.8863	0.818	43.388	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	18666.563	0.11	1.1740	0.428	36.444	mg/L
|	Fe	57	14347.744	0.09	1.9862	0.402	20.254	mg/L

> Sc	45	84837.241	84837.24		mg/L
Cl	35	24709.347	-13728.55		mg/L
Kr	83	92.668	-5.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		91.285			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.131			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		99.979			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		107.723			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		102.441			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		91.285			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0627801 DP WG99505-07
Report Date/Time: Monday, June 18, 2001 13:43:01

Method 6020 - Summary Report

Sample ID: 0632905 PS

Sample Date/Time: Monday, June 18, 2001 13:47:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11676.592	334.24				ug/L
⌈	Be	9	14684.377	0.14	205.3649	90.834	44.231	ug/L
|	Al	27	73375.278	0.70	136.8420	12.485	9.124	ug/L
|>	Sc-1	45	103078.936	103078.94				ug/L
⌈	V	51	205528.154	0.57	147.3444	22.063	14.974	ug/L
|	Cr	52	178537.916	0.50	132.3130	5.080	3.839	ug/L
|	Cr	53	22368.553	0.06	138.4444	20.943	15.128	ug/L
|	Mn	55	297057.825	0.84	151.2904	1.795	1.186	ug/L
|	Co	59	193442.381	0.54	126.6502	38.465	30.371	ug/L
|	Ni	60	47492.304	0.13	142.1993	22.571	15.873	ug/L
|	Cu	65	52190.962	0.15	116.9087	14.549	12.445	ug/L
|	Zn	66	35424.531	0.10	120.4472	29.649	24.616	ug/L
|>	Ge	72	353801.342	353801.34				ug/L
|	As	75	47841.651	0.13	133.6834	3.168	2.370	ug/L
|	Se	77	3143.358	0.01	123.4557	4.759	3.854	ug/L
⌊	Se	82	4402.909	0.01	128.6149	4.492	3.493	ug/L
	Y	89	329081.082	16653.72				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	232143.298	0.58	128.2726	9.089	7.086	ug/L
|	Cd	114	151571.825	0.38	136.0181	9.965	7.326	ug/L
|>	In	115	399773.733	399773.73				ug/L
⌊	Sb	123	192621.800	0.48	137.3653	5.249	3.821	ug/L
⌈	Ba	135	53535.519	0.12	140.5353	25.491	18.138	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	430974.307	430974.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	267714.866	267570.20	132.9610	4.852	3.649	ug/L
|	Tl	205	666293.448	665966.74	135.4897	2.910	2.148	ug/L
|	Pb	206	243684.140	243547.46	144.3733	5.003	3.466	ug/L
|	Pb	207	187487.550	187434.21	127.2032	1.779	1.399	ug/L
|	Pb	208	907002.148	906558.12	134.7874	0.974	0.723	ug/L
|>	Bi	209	401519.626	401519.63				ug/L
⌈	Na	23	2144978.409	21.09	4.4981	0.866	19.259	mg/L
|	Mg	24	536078.690	5.26	1.4499	0.200	13.796	mg/L
|	K	39	1294881.041	6.80	0.8347	0.090	10.759	mg/L
|	Ca	43	29731.659	0.30	14.2535	5.513	38.677	mg/L
|	Fe	54	12315.931	0.01	0.0134	0.046	343.085	mg/L
|	Fe	57	11008.523	0.03	0.0590	0.050	85.018	mg/L

\> Sc	45	103078.936	103078.94		mg/L
Cl	35	31402.647	-7035.25		mg/L
Kr	83	98.002	0.33		mg/L
U	238	3334.220	3334.22		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		110.913			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		109.808			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		104.259			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		108.335			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		104.238			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		110.913			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0632905 PS
Report Date/Time: Monday, June 18, 2001 13:48:00

Method 6020 - Summary Report

Sample ID: 0632905 SDL

Sample Date/Time: Monday, June 18, 2001 13:52:19
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14681.849	3339.50				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3667.624	0.03	25.1561	13.925	55.355	ug/L
|>	Sc-1	45	95995.223	95995.22				ug/L
⌈	V	51	3923.199	0.00	5.9453	6.049	101.739	ug/L
|	Cr	52	1666.970	-0.00	-3.1279	5.860	187.343	ug/L
|	Cr	53	1666.877	-0.00	-13.6599	23.354	170.968	ug/L
|	Mn	55	0.000	-0.00	-0.9334	0.000	0.000	ug/L
|	Co	59	666.760	0.00	2.3726	4.109	173.205	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-4.1169	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-6.2926	0.000	0.000	ug/L
|>	Ge	72	332205.428	332205.43				ug/L
|	As	75	207.370	0.00	0.8925	0.193	21.640	ug/L
|	Se	77	51.334	-0.00	-5.3381	1.042	19.512	ug/L
⌊	Se	82	66.900	-0.00	-0.1669	1.702	1019.800	ug/L
	Y	89	308889.663	-3537.70				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.2882	0.009	2.976	ug/L
|	Cd	114	-8.056	-0.00	-0.1850	0.012	6.354	ug/L
|>	In	115	383114.369	383114.37				ug/L
⌊	Sb	123	289.816	0.00	0.9389	0.040	4.255	ug/L
⌈	Ba	135	333.357	0.00	5.2243	9.049	173.205	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	415189.366	415189.37				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	31.000	-113.67	-0.2824	0.024	8.665	ug/L
|	Tl	205	110.012	-216.69	-0.2204	0.027	12.211	ug/L
|	Pb	206	433.390	296.71	0.8794	0.062	7.017	ug/L
|	Pb	207	386.716	333.38	1.1312	0.293	25.866	ug/L
|	Pb	208	1663.831	1219.80	0.9068	0.112	12.341	ug/L
⌊>	Bi	209	389660.559	389660.56				ug/L
⌈	Na	23	577833.273	6.18	6.5929	1.356	20.567	mg/L
|	Mg	24	102061.566	1.12	1.5465	0.540	34.912	mg/L
|	K	39	722117.253	2.03	1.2435	1.332	107.120	mg/L
|	Ca	43	5669.118	0.06	14.5519	5.143	35.340	mg/L
|	Fe	54	6289.573	-0.04	-0.2134	0.156	72.940	mg/L
|	Fe	57	10674.933	0.04	0.4144	0.635	153.204	mg/L

> Sc	45	95995.223	95995.22		mg/L
Cl	35	19694.356	-18743.54		mg/L
Kr	83	99.335	1.67		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		103.291			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.106			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		99.914			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.367			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.160			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		103.291			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Cr 53 Lower	Cr	53
Cu 65 Lower	Cu	65
Se 77 Lower	Se	77
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Fe 54 Lower	Fe	54

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, June 18, 2001 13:57:30
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16352.513	5010.17				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	10171624.835	117.14	9127.3811	2015.114	22.078	ug/L
⌊>	Sc-1	45	88213.692	88213.69				ug/L
⌈	V	51	-4795.045	-0.02	-2.1766	2.415	110.945	ug/L
|	Cr	52	3667.810	0.00	0.3828	0.644	168.287	ug/L
|	Cr	53	1333.473	-0.00	-2.1661	1.743	80.483	ug/L
|	Mn	55	4668.394	0.01	0.9197	0.433	47.074	ug/L
|	Co	59	333.357	0.00	0.0911	0.158	173.205	ug/L
|	Ni	60	333.357	0.00	0.4124	0.714	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.3293	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-0.5034	0.000	0.000	ug/L
| >	Ge	72	337650.569	337650.57				ug/L
|	As	75	143.138	-0.00	-0.0089	0.043	478.826	ug/L
|	Se	77	177.336	0.00	1.6875	0.342	20.273	ug/L
⌊	Se	82	74.313	0.00	0.0607	0.044	71.979	ug/L
	Y	89	328399.243	15971.88				ug/L
⌈	Rh	103	333.357	0.00				ug/L
|	Ag	107	33.367	0.00	0.0080	0.014	173.205	ug/L
|	Cd	114	531.202	0.00	0.1823	0.018	9.808	ug/L
| >	In	115	392051.697	392051.70				ug/L
⌊	Sb	123	483.707	0.00	0.1297	0.010	7.945	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	413302.705	413302.70				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	97.668	-47.00	-0.0093	0.002	17.329	ug/L
|	Tl	205	196.689	-130.02	-0.0106	0.004	36.352	ug/L
|	Pb	206	636.759	500.08	0.1186	0.022	18.148	ug/L
|	Pb	207	523.405	470.07	0.1276	0.018	14.483	ug/L
|	Pb	208	2527.642	2083.61	0.1239	0.004	3.523	ug/L
⌊>	Bi	209	393398.896	393398.90				ug/L
⌈	Na	23	23464362.925	267.98	22.8565	2.040	8.926	mg/L
|	Mg	24	7294388.710	83.93	9.2580	1.684	18.185	mg/L
|	K	39	18587861.436	206.66	10.1425	1.238	12.206	mg/L
|	Ca	43	131572.523	1.52	29.1083	8.683	29.831	mg/L
|	Fe	54	4987055.994	56.89	23.9878	2.731	11.387	mg/L
|	Fe	57	1964268.296	22.44	20.3353	2.961	14.559	mg/L

|> Sc	45	88213.692	88213.69		mg/L
Cl	35	1468136.053	1429698.15		mg/L
Kr	83	102.335	4.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	91.274				
Sc-1	45		94.918			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		104.796			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.245			
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.893			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		102.130			
Na	23	91.426				
Mg	24	92.580				
K	39	101.425				
Ca	43	97.028				
Fe	54	95.951				
Fe	57	81.341				
Sc	45		94.918			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 4	Al	27	ICSA is out of limits (+/-20%)
QC Std 4	Ca	43	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, June 18, 2001 14:02:31
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18692.698	7350.35				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	10912409.094	112.89	8795.5767	1762.738	20.041	ug/L
|>	Sc-1	45	99372.336	99372.34				ug/L
⌈	V	51	56925.527	0.16	16.5392	7.215	43.622	ug/L
|	Cr	52	56556.842	0.16	16.8143	1.535	9.126	ug/L
|	Cr	53	8672.224	0.02	18.5259	7.375	39.809	ug/L
|	Mn	55	90234.757	0.26	18.9699	1.801	9.494	ug/L
|	Co	59	76071.162	0.22	20.6912	1.275	6.163	ug/L
|	Ni	60	13346.086	0.04	16.3997	2.601	15.861	ug/L
|	Cu	65	26048.720	0.07	23.7757	3.999	16.819	ug/L
|	Zn	66	9674.631	0.03	13.3535	8.250	61.780	ug/L
|>	Ge	72	342629.778	342629.78				ug/L
|	As	75	8790.486	0.03	10.0037	0.213	2.130	ug/L
|	Se	77	766.041	0.00	11.4383	1.084	9.480	ug/L
⌊	Se	82	844.691	0.00	9.5110	0.387	4.073	ug/L
	Y	89	311355.293	-1072.07				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	21420.199	0.06	4.9775	0.280	5.616	ug/L
|	Cd	114	28582.040	0.08	10.7784	0.201	1.865	ug/L
|>	In	115	379585.450	379585.45				ug/L
⌊	Sb	123	484.617	0.00	0.1345	0.009	6.342	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	385466.806	385466.81				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	110.002	-34.67	-0.0069	0.003	39.022	ug/L
|	Tl	205	216.692	-110.02	-0.0090	0.003	37.848	ug/L
|	Pb	206	713.441	576.76	0.1368	0.026	19.181	ug/L
|	Pb	207	556.744	503.41	0.1367	0.026	18.779	ug/L
|	Pb	208	2650.666	2206.64	0.1312	0.011	8.392	ug/L
⌊>	Bi	209	381469.898	381469.90				ug/L
⌈	Na	23	28060475.251	289.44	24.6868	4.734	19.177	mg/L
|	Mg	24	7671541.763	78.87	8.6996	1.342	15.421	mg/L
|	K	39	19137594.861	193.77	9.5098	2.501	26.297	mg/L
|	Ca	43	137329.957	1.41	27.0149	5.652	20.921	mg/L
|	Fe	54	4923117.212	51.03	21.5152	5.182	24.083	mg/L
⌊	Fe	57	1911330.569	19.79	17.9346	4.187	23.345	mg/L

> Sc	45	99372.336	99372.34		mg/L
Cl	35	1305030.967	1266593.07		mg/L
Kr	83	99.002	1.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	87.956				
>	Sc-1	45		106.925			
	V	51	82.696				
	Cr	52	84.071				
	Cr	53	92.629				
	Mn	55	94.849				
	Co	59	103.456				
	Ni	60	81.998				
	Cu	65	118.879				
	Zn	66	133.535				
>	Ge	72		106.341			
	As	75	100.037				
	Se	77	114.383				
	Se	82	95.110				
	Y	89					
	Rh	103					
	Ag	107	99.551				
	Cd	114	107.784				
>	In	115		98.994			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		96.896			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.033			
	Na	23	98.747				
	Mg	24	86.996				
	K	39	95.098				
	Ca	43	90.050				
	Fe	54	86.061				
	Fe	57	71.738				
>	Sc	45		106.925			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	V	51	ICSAB is out of limits {+/-20%}
QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	K	39	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	54	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	57	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, June 18, 2001 14:07:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	10341.063	-1001.28				ug/L
⌈	Be	9	8338.306	0.09	50.3109	14.305	28.433	ug/L
|	Al	27	72722.766	0.71	55.5194	13.001	23.418	ug/L
|>	Sc-1	45	99020.334	99020.33				ug/L
⌈	V	51	185631.330	0.55	56.7300	6.290	11.088	ug/L
|	Cr	52	160116.415	0.47	50.3585	5.416	10.755	ug/L
|	Cr	53	22035.761	0.06	57.7025	16.603	28.774	ug/L
|	Mn	55	224847.389	0.67	48.5155	4.568	9.416	ug/L
|	Co	59	188812.632	0.57	52.8563	6.355	12.023	ug/L
|	Ni	60	44472.018	0.13	56.3927	6.040	10.710	ug/L
|	Cu	65	51521.869	0.15	48.9331	8.963	18.316	ug/L
|	Zn	66	33079.366	0.10	47.8091	11.982	25.062	ug/L
|>	Ge	72	333516.778	333516.78				ug/L
|	As	75	43292.727	0.13	51.3001	1.652	3.221	ug/L
|	Se	77	3016.637	0.01	50.2711	1.230	2.446	ug/L
⌊	Se	82	4205.268	0.01	52.1772	1.110	2.128	ug/L
	Y	89	283537.210	-28890.16				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	226959.837	0.59	52.1574	2.599	4.983	ug/L
|	Cd	114	136798.335	0.36	51.1573	1.896	3.707	ug/L
|>	In	115	383256.827	383256.83				ug/L
⌊	Sb	123	174371.582	0.46	51.8999	2.246	4.328	ug/L
⌈	Ba	135	49505.058	0.12	55.6639	7.651	13.746	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	403874.522	403874.52				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	246662.611	246517.94	48.9999	1.494	3.049	ug/L
|	Tl	205	601962.577	601635.87	48.9607	2.796	5.711	ug/L
|	Pb	206	225455.426	225318.74	53.4270	2.988	5.594	ug/L
|	Pb	207	166782.055	166728.72	45.2605	1.214	2.682	ug/L
|	Pb	208	823084.013	822639.99	48.9242	1.613	3.296	ug/L
|>	Bi	209	390992.808	390992.81				ug/L
⌈	Na	23	5622300.234	57.18	4.8774	0.563	11.539	mg/L
|	Mg	24	4001552.443	40.76	4.4961	0.536	11.919	mg/L
|	K	39	9847099.977	94.26	4.6262	0.543	11.739	mg/L
|	Ca	43	21699.968	0.22	4.2467	0.754	17.764	mg/L
|	Fe	54	1069893.307	10.74	4.5291	0.368	8.129	mg/L
|	Fe	57	506766.950	5.08	4.6004	0.653	14.190	mg/L

\> Sc	45	99020.334	99020.33		mg/L
Cl	35	37771.948	-665.95		mg/L
Kr	83	87.001	-10.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	100.622				
|	Al	27	111.039				
\>	Sc-1	45		106.546			
⌈	V	51	113.460				
|	Cr	52	100.717				
|	Cr	53	115.405				
|	Mn	55	97.031				
|	Co	59	105.713				
|	Ni	60	112.785				
|	Cu	65	97.866				
|	Zn	66	95.618				
\>	Ge	72		103.513			
|	As	75	102.600				
|	Se	77	100.542				
⌊	Se	82	104.354				
	Y	89					
⌈	Rh	103					
|	Ag	107	104.315				
|	Cd	114	102.315				
\>	In	115		99.951			
⌊	Sb	123	103.800				
⌈	Ba	135	111.328				
|	Ce	140					
\>	Tb	159		101.523			
⌈	Ho	165					
|	Tl	203	98.000				
|	Tl	205	97.921				
|	Pb	206	106.854				
|	Pb	207	90.521				
|	Pb	208	97.848				
\>	Bi	209		101.506			
⌈	Na	23	97.547				
|	Mg	24	89.923				
|	K	39	92.524				
|	Ca	43	84.935				
|	Fe	54	90.581				
|	Fe	57	92.007				
\>	Sc	45		106.546			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, June 18, 2001 14:08:13

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ni	60	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, June 18, 2001 14:12:31
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11342.534	0.19				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1333.473	0.00	0.0974	0.500	512.675	ug/L
|>	Sc-1	45	85512.767	85512.77				ug/L
⌈	V	51	2331.638	0.00	0.0016	0.760	48704.707	ug/L
|	Cr	52	2000.327	-0.00	-0.1200	0.332	277.067	ug/L
|	Cr	53	666.713	-0.00	-4.0592	1.691	41.660	ug/L
|	Mn	55	0.000	-0.00	-0.0747	0.000	0.000	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	0.000	-0.00	-0.3293	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-0.5034	0.000	0.000	ug/L
|>	Ge	72	329234.678	329234.68				ug/L
|	As	75	140.301	-0.00	-0.0070	0.053	761.210	ug/L
|	Se	77	56.000	-0.00	-0.3361	0.320	95.117	ug/L
⌊	Se	82	62.472	-0.00	-0.0669	0.044	65.054	ug/L
	Y	89	324590.911	12163.54				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	200.206	0.00	0.0481	0.064	134.040	ug/L
|	Cd	114	97.416	0.00	0.0264	0.040	151.923	ug/L
|>	In	115	371503.250	371503.25				ug/L
⌊	Sb	123	341.370	0.00	0.0937	0.012	12.951	ug/L
⌈	Ba	135	0.000	0.00	0.0000	0.000		ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	403099.881	403099.88				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	93.335	-51.33	-0.0102	0.000	1.125	ug/L
|	Tl	205	186.688	-140.02	-0.0114	0.003	25.085	ug/L
|	Pb	206	196.689	60.01	0.0142	0.010	67.358	ug/L
|	Pb	207	156.684	103.35	0.0281	0.002	5.587	ug/L
|	Pb	208	747.721	303.69	0.0181	0.001	7.285	ug/L
⌊>	Bi	209	375383.400	375383.40				ug/L
⌈	Na	23	3334.127	0.01	0.0013	0.001	78.591	mg/L
|	Mg	24	2667.273	0.03	0.0033	0.002	53.687	mg/L
|	K	39	635156.333	1.63	0.0802	0.021	26.647	mg/L
|	Ca	43	666.760	0.01	0.1368	0.237	173.205	mg/L
|	Fe	54	6613.427	-0.03	-0.0127	0.005	43.237	mg/L
|	Fe	57	7337.209	0.01	0.0046	0.025	546.935	mg/L

\> Sc	45	85512.767	85512.77		mg/L
Cl	35	18023.271	-20414.63		mg/L
Kr	83	93.002	-4.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		92.012			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.184			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		96.886			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		101.328			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		97.453			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		92.012			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Cu	65	CCB is out of limits (+/-3*IDL)
QC Std 7	Zn	66	CCB is out of limits (+/-3*IDL)
QC Std 7	Ag	107	CCB is out of limits (+/-3*IDL)
QC Std 7	Cd	114	CCB is out of limits (+/-3*IDL)

2.3.1.3 Preparation Log (s)

Metals Digestion Log

Analyst(s): SJK Box: P Digestion Work Group: WG 99226
Date: 06-12-01 @ 10:06 Analytical Work Group: WG
LCS: 10ml DI SSCC33-40/100ml 145-1-5-16
MS/MSD: 10ml DI SSCC33-40/100ml 145-1-5-16
Witness: VC
HNO_3 Lot #: N-18
HCl Lot #: H-14
H_2O_2 Lot #: N/A
Earliest Sample Due Date: 06-18-01

General Digestion
ME401 Revision # 8 - Method 3005A-Water [X]
ME403 Revision # ____ - Method 3050B-Soil [ ]
Furnace Digestion
ME402 Revision # ____ - Method 3020A-Water [ ]
ME403 Revision # ____ - Method 3050B-Soil [ ]
AS/SE Digestion
ME410 Revision # ____ - Method 7060/7740-Water [ ]

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	PBW	100ml	100ml	WG99226-03	
2	LCSW			-04	
3	06-236-01			1-4 -01	6/18
4	-01MS			-05	1
5	-01MSD			-06	1
6	06-244-01			NPDES -02	6/18
7	-01DUP			-07	
8	-02				
9	-03				
10	-04				
11	-05				
12	-06				
13	-07				
14	-08				
15	-09				
16	-10				
17	-11				
18	-12				
19	-13				
20	-14				
21	-15				
22	-16				
23	-17				
24	-18				
25	-19				
26					
27		06-12-01 SJK			
28					

Comments: _____

Peer Review By: Vicki Collins 6/13/01 Supervisor Review: _____

Microwave Digestion Log

Analyst(s): SJK
Date: 06-15-01 @ 1102
LCS: 0.5mL MS-1-S-6
MS/MSD: 0.5mL 41-S-6
Witness: VC
Earliest Sample Due Date: 06/18/01

Box: X
HNO_3 Lot #: N18
HCl Lot #: _____

Digestion Work Group: WG 9505
Analytical Work Group: WG _____

ME407 - Method 3015-Water
ME406 - Method 3051-Soil-Oil

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBLK	40mL	50mL	271.38	271.30	WG9505-03	
2	LCSD	↓	↓	264.55	264.49	-04	
3	06-336-01			260.68	260.63	L4	6/18
4	06-278-01			261.70	261.65	L4 -02	6/25
5	-01DUP			262.27	262.24	↓ -07	↓
6	06-287-01			263.97	263.90		6/21
7	06-297-01			262.12	262.06	L4	6/25
8	-02			263.11	263.11	↓	↓
9	-03			265.49	265.43	↓	↓
10	-04			257.62	257.54	↓	↓
11	06-308-21 *			265.50	265.43	L4 AFCEE	6/20
12	06-331-06 *			263.32	263.23	L4 AFCEE	6/25
13	06-332-05 *			262.50	262.40	L4 AFCEE	6/25
14	-06 *			263.36	263.26	↓	↓
15	06-329-01			272.80	272.73	L4	6/25
16	-02			260.80	260.73	↓	↓
17	-03			261.74	261.61	↓	↓
18	-04			260.11	260.03	↓	↓
19	-05			264.80	264.71	↓ -01	↓
20	-06			264.70	264.59	↓	↓
21	-07MS			261.74	261.65	↓ OF05 -05	↓
22	-08MSD	↓	↓	262.89	262.80	↓ OF05 -06	↓
23							
24							
25							
26							
27							
28							
29							
30							

06-15-01 SJK

Comments: *Equipment Blanks

Peer Review By: Vicki Colley 6/15/01

Supervisor Review: _____

2.3.1.4 Sample Calculations

Example 6010 Calculations
Perkin Elmer Optima 3000 (PE-ICP)

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

The equation is in the form of I = mC + b,

Where: I = Mean emission intensity at the element's measured wavelength.
C = Concentration of the element in mg/L
m = Slope of the ICAL curve computed by system
b = Intercept of the ICAL curve computed by system

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$C = [(I - b) / (m)]] \ [(Qs) / (Vp)] [D]$$

	Example:
Where:	
I = Mean adjusted intensity at the element's measured wavelength.	307088.8
b = Intercept of the ICAL curve computed by system	373.4
m = Slope of the ICAL curve computed by system	780569.9
Qs = Sample quantity digested (defaults to 1)_	1
Vp = Prep volume (defaults to 1)	1
D = Dilution factor as a multplier (10X = 10)	1
C = Concentration of element in ppm (mg/L):	**0.39293778**

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$C = [(I - b) / m]] \ [(Vp) / (Qs)] [D]$$

	Example:
Where:	
I = Mean emission intensity at the element's measured wavelength.	307088.8
b = Intercept of the ICAL curve computed by system	373.4
m = Slope of the ICAL curve computed by system	780569.9
Qs = Sample quantity digested (g)	2
Vp = Prep volume (mL)	100
D = Dilution factor as a multplier (10X = 10)	1
C = Concentration of element in ppm (mg/kg):	**19.6468888**

5.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		19.646889
Px = Percent solids of sample (%wt)		80
	C(mg/kg)	**24.5586113**

946

Example 6010 Calculations
TJA - Iris

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data, = Final volume/ initial volume	1
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/L):	**0.1**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data, = Final volume(mL)/ initial weight (g)	50
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/kg):	**5**

4.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:		
Cx = Concentration calculated as received (wet basis):		125
Px = Percent solids of sample (%wt)		80
	C(mg/kg)	156.25

947

Example 6020 Calculations
Perkin Elmer ELAN ICP/MS

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

Cx = [Cs] [(Vf / Vi)] [D]

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

Cx = [Cs] [(Vf / Ws)] [D]

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.3.3 Metals CVAA (Mercury) Data

METALS - CVAA (MERCURY) DATA
Login Number: L0106236

A. QC Summary

✓ Batch QC Summary Form

B. Raw Data

✓ Analyst checksheet

✓ Analysis run log

✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank data
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- Post digestion spike (if applicable)
- Serial dilution (as needed)
- Standard additions results (as needed)

C. Preparation Log(s)

D. Sample Calculations

Checked by: DA MMB Date: 06/19/01

950

2.3.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG99370
METHOD: 7470A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: Leeman PS 202

RUN DATE: 06/14/2001
PREP DATE: 06/13/2001
ANALYST: AMT
DUPLICATE: L0106237-08
MS/MSD L0106237-02

ANALYTE	RDL	Blank	CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
			T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.000989	0.000482	0.000358	ND	0.001000	0.000862	0.000853	98.9	80.0	120.0	86.2	85.3	75.0	125.0	29.5	1.0	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

2.3.3.2 Raw Data

Metals

Date: 06-14-01
Analyst: AmT
Method: 7470A
Instrument: PS202
Work Group: 99370, 99371, 99372

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	NA
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	✓
Calculations & Correct Factors	✓
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	✓
Level IV Data	06232 (TPH)
	06236 (ICM)
	~~06237~~
	06253

06163
06164
06150
} 6/15

06167
06184
06208
06222 (P)
06236 (P)
} 6/18

06246 (P)
06247 (P)
} 6/20

06232 (P) - 6/21

06237
06224
} 6/25

06253 - 6/27

Primary Reviewer Initials & Date Checked AmT 6/14/01

Secondary Reviewer Initials & Date Checked _____

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

KEMRON ENVIRONMENTAL SERVICES
MERCURY RUN LOGBOOK

ANALYST AmT DATE 06-14-01 TIME 1018
METHOD # 7470A SOP # ME404 REV. # 5 WORK GROUP # 99370, 99371, 99372
CAL STD SOURCE DSS 0035-12 ICV/CCV SOURCE ~~DSS~~ DSS 0035-11 (am 6/14/01)
POST SPK SOURCE DSS 0035-12 (10 ppb Std)

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S 0.0		ml/ml		27.	TC06164-02		5/50	
	S 0.2				28.	06167-01	09		
	S 1.0				29.	01 SPK			
	S 2.0				30.	06184-01	0.9		CCV/CCB
	S 5.0				31.	01 SPK			
	S 10.0				32.	02			
	ICV				33.	03			
	ICB			CCV/CCB	34.	03 MS			
1.	PBW MA			WG99327-03	35.	06208-01			
2.	LCSW MA			04	36.	TCFilt Blk 6/11			WG99155 @ 09:30
3.	06246-01				37.	TC06150-01	09	5/50	
4.	06247-01				38.	01 SPK			
5.	02				39.	01 MS			
6.	06236-01				40.	06164-01			CCV/CCB
7.	06237-02			01	41.	(am 6/14) 06184-01			
8.	03 MS			05	42.	01 MS			
9.	04 MSD			06	43.	PBW 04			WG99329-03
10.	05			CCV/CCB	44.	LCSW 04			04
11.	06	09			45.	TC Blk 6/12			WG99250 @ 1400
12.	06 SPK				46.	PBW 06233-01	0.9	5/50	01
13.	07				47.	(am 6/14) 01 SPK			
14.	08			02	48.	01 MS			05
15.	08 Dup			07	49.	01 MSD			06
16.	06253-02				50.	TC06232-01			CCV/CCB
17.	03				51.	01 MS			
18.	04				52.	02			02
19.	PBW CI			WG99328-03	53.	02 Dup			07
20.	LCSW CI			CCV/CCB 04	54.	03	0.9		
21.	TC Blk 6/11			WG99161 @ 1400	55.	03 SPK			
22.	TC06163-01		5/50	01	56.	04			
23.	01 MS			05	57.	05			
24.	01 MSD			06	58.	07			
25.	02			02	59.	08			
26.	02 Dup			07	60.	09			CCV/CCB

Comments: Cont'd on pg 86

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence
ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES
MERCURY RUN LOGBOOK

ANALYST AmT DATE 06-14-01 TIME 1018
METHOD # - SOP # - REV. # - WORK GROUP # 99372
CAL STD SOURCE - ICV/CCV SOURCE -
POST SPK SOURCE -

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.				
					28.				
					29.				
					30.				
					31.				
					32.				
					33.				
					34.				
1.	TC06232-10		5/50		35.				
2.	1 11		1		36.				
3.	1 12		1	CCV/CCB	37.				
4.					38.				
5.					39.				
6.					40.				
7.					41.				
8.					42.				
9.					43.				
10.					44.				
11.					45.				
12.					46.				
13.					47.				
14.					48.				
15.					49.				
16.					50.				
17.					51.				
18.					52.				
19.					53.				
20.					54.				
21.					55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.				

AmT 06-14-01

AmT 06-14-01

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence

ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 7470A AAB#:

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 14-Jun-01 Initial Calibration ID:

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Mercury	0.000	-652	0.200	14257	1.000	73635	2.000	147697	5.000	366505	10.000	709850	0.99986	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7470
ANALYST: AMT
DATE: 06/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 10:37 AM
CCV2 Time: 10:53 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.995	99.5	1.0	.999	99.9	.951	95.1	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7470
ANALYST: AMT
DATE: 06/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 11:09 AM
CCV2 Time: 11:25 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.995	99.5	1.0	.986	98.6	.978	97.8	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7470
ANALYST: AMT
DATE: 06/14/2001

UNITS: ug/L

ICV Time: 10:27 AM
CCV1 Time: 11:40 AM
CCV2 Time: 11:56 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.995	99.5	1.0	.964	96.4	.976	97.6	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	06/14/2001
UNITS:	ug/L
ICV Time:	10:27 AM
CCV1 Time:	12:13 PM
CCV2 Time:	12:21 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.995	99.5	1.0	.970	97.0	.962	96.2	

(1) Control Limits: 80-120%

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KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	06/14/2001
UNITS:	ug/L
ICB Time:	10:31 AM
CCB1 Time:	10:37 AM
CCB2 Time:	10:54 AM
CCB3 Time:	11:10 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.080	-.108	-.077	-.077

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	06/14/2001
UNITS:	ug/L
ICB Time:	10:31 AM
CCB1 Time:	11:26 AM
CCB2 Time:	11:42 AM
CCB3 Time:	11:57 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.080	-.074	-.069	-.080

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KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	06/14/2001
UNITS:	ug/L
ICB Time:	10:31 AM
CCB1 Time:	12:14 PM
CCB2 Time:	12:21 PM
CCB3 Time:	

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Mercury	-.080	-.083	-.072	

```
Hg      .000     ppb       -652

*** Standard: 2 Rep: 1                Seq:  204     10:19:30 14 Jun 2001 HG

Hg      .200     ppb       14257

*** Standard: 3 Rep: 1                Seq:  205     10:20:52 14 Jun 2001 HG

Hg      1.00     ppb       73635

*** Standard: 4 Rep: 1                Seq:  206     10:22:06 14 Jun 2001 HG

Hg      2.00     ppb       147697

*** Standard: 5 Rep: 1                Seq:  207     10:23:36 14 Jun 2001 HG

Hg      5.00     ppb       366505

*** Standard: 6 Rep: 1                Seq:  208     10:25:01 14 Jun 2001 HG

Hg      10.0     ppb       709850
```

Andrea Tucker
DSS 0035-12
WA99370
99371
99372

```
RunProt: CLP2        Hg analysis in the ppb range
RunFold: 060801    Seq: 209  Batch:
                   Prnt: R/T On                          Pump: On
                   Rev: 4.2     10:26:11 14 Jun 2001 Xmit: Off Gas:      0.70 LPM
State: Idle                                             User: AMT PS202   A/S: On
```

CALIBRATION: Accepted Values protocol: CLP2

	Current	Accepted	Type	A	B	C	r
Hg	Yes	10:26 14-Jun-01	L		1.41101e-5	-7.38112e-2	.999854

```
Update coefficients
Press <Tab> key to clear message at top
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 209 10:27:49 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.5	.995	1.00	ppb	.000 %

*** Check Standard: 3 Ck3ICB Seq: 210 10:31:08 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-39.8	-.080	.200	ppb	.000 %

*** Check Standard: 2 Ck2CCV Seq: 211 10:37:27 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.9	.999	1.00	ppb	.000 %

*** Check Standard: 3 Ck3CCB Seq: 212 10:38:38 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-53.9	-.108	.200	ppb	.000 %

*** Sample ID: PBW MA Seq: 213 10:39:46 14 Jun 2001 HG
WG9932703

Hg	-.060	ppb	.000	%	-.060

*** Sample ID: LCSW MA Seq: 214 10:40:53 14 Jun 2001 HG
WG9932704

Hg	.989	ppb	.000	%	.989

*** Sample ID: 0624601 Seq: 215 10:42:40 14 Jun 2001 HG

Hg	-.056	ppb	.000	%	-.056

*** Sample ID: 0624701 Seq: 216 10:43:59 14 Jun 2001 HG

Hg	-.046	ppb	.000	%	-.046

*** Sample ID: 0624702 Seq: 217 10:46:05 14 Jun 2001 HG

Hg	-.064	ppb	.000	%	-.064

*** Sample ID: 0623601 Seq: 218 10:47:30 14 Jun 2001 HG

Hg	1.55	ppb	.000	%	1.55

*** Sample ID: 0623702 Seq: 219 10:48:41 14 Jun 2001 HG
UNSPIKED WG99327-01

Hg	-.025	ppb	.000	%	-.025

*** Sample ID: 0623703S Seq: 220 10:50:11 14 Jun 2001 HG
SPIKED WG99327-05

Hg	.862	ppb	.000	%	.862

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** %Rec.  ID: 0623703S                Seq:  221    10:50:11 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         88.7    -.025    .000      .862    .000

*** DUP  ID: 0623704SD  0623703S     Seq:  222    10:51:20 14 Jun 2001 HG
      RPD                Orig.     Dup.
Hg    1.04    %           .862     .853

*** Sample ID: 0623704SD               Seq:  223    10:51:20 14 Jun 2001 HG
 DUP                          WG99327-06
Hg    .853    ppb        .000  %   .853

*** Sample ID: 0623705                 Seq:  224    10:52:28 14 Jun 2001 HG

Hg   -.036    ppb        .000  %  -.036

*** Check Standard: 2  Ck2CCV          Seq:  225    10:53:48 14 Jun 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.1     .951    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB          Seq:  226    10:54:58 14 Jun 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -38.4    -.077    .200   ppb        .000  %

*** Sample ID: 0623706                 Seq:  227    10:56:17 14 Jun 2001 HG
 UNSPIKED                                    Wgt 1.0000 Vol 1.1100
Hg   -.055    ppb        .000  %  -.055

*** Sample ID: 0623706PS               Seq:  228    10:57:25 14 Jun 2001 HG
 SPIKED
Hg    .957    ppb        .000  %   .957

*** %Rec.  ID: 0623706PS               Seq:  229    10:57:25 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         101.    -.049    .000      .957    .000

*** Sample ID: 0623707                 Seq:  230    10:59:20 14 Jun 2001 HG

Hg    .082    ppb        .000  %   .082

*** Sample ID: 0623708                 Seq:  231    11:00:59 14 Jun 2001 HG
                          WG99327-02
Hg    .482    ppb        .000  %   .482
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** DUP ID: 0623708DP 0623708 Seq: 232 11:02:07 14 Jun 2001 HG

	RPD			Orig.	Dup.
Hg	29.5	%		.482	.358

*** Sample ID: 0623708DP Seq: 233 11:02:07 14 Jun 2001 HG

DUP WG99327-07

Hg	.358	ppb	.000	%	.358

*** Sample ID: 0625302 Seq: 234 11:03:37 14 Jun 2001 HG

Hg	.009	ppb	.000	%	.009

*** Sample ID: 0625303 Seq: 235 11:04:45 14 Jun 2001 HG

Hg	-.063	ppb	.000	%	-.063

*** Sample ID: 0625304 Seq: 236 11:05:52 14 Jun 2001 HG

Hg	.306	ppb	.000	%	.306

*** Sample ID: PBW CI Seq: 237 11:06:58 14 Jun 2001 HG

WG99328-03

Hg	-.079	ppb	.000	%	-.079

*** Sample ID: LCSW CI Seq: 238 11:08:03 14 Jun 2001 HG

WG99328-04

Hg	1.01	ppb	.000	%	1.01

*** Check Standard: 2 Ck2CCV Seq: 239 11:09:22 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.6	.986	1.00	ppb	.000 %

*** Check Standard: 3 Ck3CCB Seq: 240 11:10:52 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-38.3	-.077	.200	ppb	.000 %

*** Sample ID: TCBLK 6/11 Seq: 241 11:12:22 14 Jun 2001 HG

WG99161 @ 1400

Hg	-.041	ppb	.000	%	-.041

*** Sample ID: TC0616301 Seq: 242 11:13:29 14 Jun 2001 HG

UNSPIKED WG99328-01 Wgt 5.0000 Vol 50.000

Hg	-.891	ppb	.000	%	-.891

*** Sample ID: TC0616301S Seq: 243 11:14:37 14 Jun 2001 HG

SPIKED WG99328-05 Wgt 5.0000 Vol 50.000

Hg	10.4	ppb	.000	%	10.4

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** %Rec.  ID: TC0616301S            Seq:  244    11:14:37 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         113.    -.089    .000      1.04    .000

*** DUP  ID: 0616301SD  TC0616301S   Seq:  245    11:15:46 14 Jun 2001 HG
      RPD                Orig.     Dup.
Hg    2.81    %           10.4     10.1

*** Sample ID: 0616301SD            Seq:  246    11:15:46 14 Jun 2001 HG
 DUP                        WG99328-06          Wgt 5.0000 Vol 50.000
Hg    10.1    ppb        .000  %   10.1

*** Sample ID: TC0616302            Seq:  247    11:17:07 14 Jun 2001 HG
                           WG99328-02          Wgt 5.0000 Vol 50.000
Hg   -.402    ppb        .000  %  -.402

*** DUP  ID: 0616302DP  TC0616302    Seq:  248    11:18:12 14 Jun 2001 HG
      RPD                Orig.     Dup.
Hg    24.8    %          -.402    -.516

*** Sample ID: 0616302DP            Seq:  249    11:18:12 14 Jun 2001 HG
 DUP                        WG99328-07          Wgt 5.0000 Vol 50.000
Hg   -.516    ppb        .000  %  -.516

*** Sample ID: TC0616402            Seq:  250    11:19:43 14 Jun 2001 HG
                                               Wgt 5.0000 Vol 50.000
Hg   -.541    ppb        .000  %  -.541

*** Sample ID: TC0616701            Seq:  251    11:21:01 14 Jun 2001 HG
 UNSPIKED                  0.9                 Wgt 5.0000 Vol 55.500
Hg   -.640    ppb        .000  %  -.640

*** Sample ID: 0616701PS            Seq:  252    11:22:18 14 Jun 2001 HG
 SPIKED                                        Wgt 5.0000 Vol 50.000
Hg    9.81    ppb        .000  %   9.81

*** %Rec.  ID: 0616701PS            Seq:  253    11:22:18 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         104.    -.058    .000      .981    .000

*** Sample ID: TC0618401            Seq:  254    11:24:04 14 Jun 2001 HG
 UNSPIKED                  0.9                 Wgt 5.0000 Vol 55.500
Hg   -.154    ppb        .000  %  -.154
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2CCV Seq: 255 11:25:17 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.8	.978	1.00	ppb	.000 %

*** Check Standard: 3 Ck3CCB Seq: 256 11:26:27 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-36.9	-.074	.200	ppb	.000 %

*** Sample ID: 0618401PS Seq: 257 11:27:33 14 Jun 2001 HG
SPIKED Wgt 5.0000 Vol 50.000

Hg	10.3	ppb	.000	%	10.3

*** %Rec. ID: 0618401PS Seq: 258 11:27:33 14 Jun 2001 HG
Spikes =1 Unspiked =1

	Spike		%Rcv.	Avg(U)	SD(U)	Avg(S)	SD(S)
Hg	1.00	ppb	105.	-.014	.000	1.03	.000

*** Sample ID: TC0618402 Seq: 259 11:28:39 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.878	ppb	.000	%	-.878

*** Sample ID: TC0618403 Seq: 260 11:29:56 14 Jun 2001 HG
UNSPIKED Wgt 5.0000 Vol 50.000

Hg	-.562	ppb	.000	%	-.562

*** Sample ID: TC0618403S Seq: 261 11:31:07 14 Jun 2001 HG
SPIKED Wgt 5.0000 Vol 50.000

Hg	10.1	ppb	.000	%	10.1

*** %Rec. ID: TC0618403S Seq: 262 11:31:07 14 Jun 2001 HG
Spikes =1 Unspiked =1

	Spike		%Rcv.	Avg(U)	SD(U)	Avg(S)	SD(S)
Hg	1.00	ppb	106.	-.056	.000	1.01	.000

*** Sample ID: TC0620801 Seq: 263 11:32:17 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.568	ppb	.000	%	-.568

*** Sample ID: TCFBLK6/11 Seq: 264 11:33:45 14 Jun 2001 HG
WG99155 @ 0930

Hg	-.074	ppb	.000	%	-.074

*** Sample ID: TC0615001 Seq: 265 11:35:27 14 Jun 2001 HG
UNSPIKED 0.9 Wgt 5.0000 Vol 55.500

Hg	-.645	ppb	.000	%	-.645

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** Sample ID: 0615001PS              Seq:  266    11:36:55 14 Jun 2001 HG
 SPIKED                                          Wgt 5.0000 Vol 50.000
Hg    9.58    ppb       .000  %   9.58

*** %Rec.  ID: 0615001PS              Seq:  267    11:36:55 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb        102.    -.058    .000      .958    .000

*** Sample ID: TC0615001S             Seq:  268    11:38:03 14 Jun 2001 HG
                                                Wgt 5.0000 Vol 50.000
Hg    9.75    ppb       .000  %   9.75

*** Sample ID: TC0616401              Seq:  269    11:39:11 14 Jun 2001 HG
                                                Wgt 5.0000 Vol 50.000
Hg   -.685    ppb       .000  %  -.685

*** Check Standard: 2  Ck2CCV         Seq:  270    11:40:30 14 Jun 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.4     .964    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB         Seq:  271    11:42:01 14 Jun 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -34.5    -.069    .200   ppb        .000  %

*** Sample ID: TC0622401              Seq:  272    11:43:29 14 Jun 2001 HG
 UNSPIKED                                       Wgt 5.0000 Vol 50.000
Hg    .485    ppb       .000  %   .485

*** Sample ID: 0622401S               Seq:  273    11:44:52 14 Jun 2001 HG
 SPIKED                                         Wgt 5.0000 Vol 50.000
Hg    10.6    ppb       .000  %   10.6

*** %Rec.  ID: 0622401S               Seq:  274    11:44:52 14 Jun 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb        101.     .048    .000      1.06    .000

*** Sample ID: PBW 0Y                 Seq:  275    11:46:32 14 Jun 2001 HG
                          WG99329-03
Hg   -.081    ppb       .000  %  -.081

*** Sample ID: LCSW 0Y                Seq:  276    11:47:40 14 Jun 2001 HG
                          WG99329-04
Hg    .970    ppb       .000  %   .970
```

```
Line   Conc.  Units     SD/RSD      1         2         3         4         5
--------------------------------------------------------------------------------

*** Sample ID: TCBLK 6/12            Seq:  277    11:48:50 14 Jun 2001 HG
                              WG99250 @ 1400
Hg    -.069    ppb       .000  %  -.069

*** Sample ID: TC0622201             Seq:  278    11:49:59 14 Jun 2001 HG
 UNSPIKED                     WG99329-01 0.9       Wgt 5.0000 Vol 55.500
Hg    -.339    ppb       .000  %  -.339

*** Sample ID: 0622201PS             Seq:  279    11:51:08 14 Jun 2001 HG
 SPIKED                                            Wgt 5.0000 Vol 50.000
Hg     10.0    ppb       .000  %   10.0

*** %Rec.  ID: 0622201PS             Seq:  280    11:51:08 14 Jun 2001 HG
                            Spikes =1  Unspiked =1
      Spike                  %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb           103.    -.031    .000      1.00     .000

*** Sample ID: TC0622201S            Seq:  281    11:52:31 14 Jun 2001 HG
                              WG99329-05           Wgt 5.0000 Vol 50.000
Hg     9.77    ppb       .000  %   9.77

*** DUP  ID: 0622201SD  TC0622201S   Seq:  282    11:53:42 14 Jun 2001 HG
      RPD                    Orig.     Dup.
Hg    1.65     %             9.77      9.94

*** Sample ID: 0622201SD             Seq:  283    11:53:42 14 Jun 2001 HG
 DUP                          WG99329-06           Wgt 5.0000 Vol 50.000
Hg     9.94    ppb       .000  %   9.94

*** Sample ID: TC0623201             Seq:  284    11:54:52 14 Jun 2001 HG
 UNSPIKED                                          Wgt 5.0000 Vol 50.000
Hg    -.790    ppb       .000  %  -.790

*** Check Standard: 2  Ck2CCV      Seq:  285    11:56:03 14 Jun 2001 HG
Line  Flag  %Rcv.    Found    True  Units       SD/RSD
Hg          97.6     .976     1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB      Seq:  286    11:57:25 14 Jun 2001 HG
Line  Flag  %Rcv.    Found    True  Units       SD/RSD
Hg         -40.2    -.080     .200   ppb         .000  %

*** Sample ID: TC0623201S            Seq:  287    11:59:15 14 Jun 2001 HG
 SPIKED                                            Wgt 5.0000 Vol 50.000
Hg     9.99    ppb       .000  %   9.99
```

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Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** %Rec. ID: TC0623201S Seq: 288 11:59:15 14 Jun 2001 HG
Spikes =1 Unspiked =1

	Spike		%Rcv.	Avg(U)	SD(U)	Avg(S)	SD(S)
Hg	1.00	ppb	108.	-.079	.000	.999	.000

*** Sample ID: TC0623202 Seq: 289 12:00:34 14 Jun 2001 HG
WG99329-02 Wgt 5.0000 Vol 50.000

Hg	-.736	ppb	.000	%	-.736

*** DUP ID: 0623202DP TC0623202 Seq: 290 12:01:46 14 Jun 2001 HG

	RPD		Orig.	Dup.
Hg	1.88	%	-.736	-.750

*** Sample ID: 0623202DP Seq: 291 12:01:46 14 Jun 2001 HG
DUP WG99329-07 Wgt 5.0000 Vol 50.000

Hg	-.750	ppb	.000	%	-.750

*** Sample ID: TC0623203 Seq: 292 12:03:56 14 Jun 2001 HG
UNSPIKED 0.9 Wgt 5.0000 Vol 55.500

Hg	-.559	ppb	.000	%	-.559

*** Sample ID: 0623203PS Seq: 293 12:05:06 14 Jun 2001 HG
SPIKED Wgt 5.0000 Vol 50.000

Hg	9.65	ppb	.000	%	9.65

*** %Rec. ID: 0623203PS Seq: 294 12:05:06 14 Jun 2001 HG
Spikes =1 Unspiked =1

	Spike		%Rcv.	Avg(U)	SD(U)	Avg(S)	SD(S)
Hg	1.00	ppb	101.	-.050	.000	.965	.000

*** Sample ID: TC0623204 Seq: 295 12:06:47 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.538	ppb	.000	%	-.538

*** Sample ID: TC0623205 Seq: 296 12:08:23 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.575	ppb	.000	%	-.575

*** Sample ID: TC0623207 Seq: 297 12:09:34 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.595	ppb	.000	%	-.595

*** Sample ID: TC0623208 Seq: 298 12:10:46 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.473	ppb	.000	%	-.473

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: TC0623209 Seq: 299 12:12:17 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.592	ppb	.000	%	-.592

*** Check Standard: 2 Ck2CCV Seq: 300 12:13:36 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		97.0	.970	1.00	ppb	.000	%

*** Check Standard: 3 Ck3CCB Seq: 301 12:14:54 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		-41.3	-.083	.200	ppb	.000	%

*** Sample ID: TC0623210 Seq: 302 12:16:24 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.586	ppb	.000	%	-.586

*** Sample ID: TC0623211 Seq: 303 12:17:36 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.735	ppb	.000	%	-.735

*** Sample ID: TC0623212 Seq: 304 12:18:49 14 Jun 2001 HG
Wgt 5.0000 Vol 50.000

Hg	-.336	ppb	.000	%	-.336

*** Check Standard: 2 Ck2CCV Seq: 305 12:20:13 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		96.2	.962	1.00	ppb	.000	%

*** Check Standard: 3 Ck3CCB Seq: 306 12:21:22 14 Jun 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		-36.2	-.072	.200	ppb	.000	%

2.3.3.3 Preparation Log (s)

Mercury Digestion Log

Analyst(s): SJK
Box: MA
Digestion Work Group: WG 99327
Date: 06-13-01 @ 8:10
Analytical Work Group: WG
LCS: 0.5ml DSSC035-08
MS/MSD: 0.5ml DSSC035-08
Witness: VC
H_2SO_4 Lot #: 5-05
K_2SO_4 Lot #: PS-41
$KMNO_4$ Lot #: PM-57
HNO_3 Lot #: N-18
Earliest Sample Due Date: 06/18/01
ICV / CCV: DSSC035-11 Stds: 0, 0.2, 1, 2, 5, 10: DSSC035-12

ME404 Revision # 5 - Method 7470A-Water [X]
ME405 Revision # ____ - Method 7471A-Soil [ ]

Bath Temperature @ start: 94.6°C 9:30
Bath Temperature @ end: 94.9°C 11:30
Pressure & Time: N/A

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBLK	50ml	50ml	WG99327-03	
2	LCSW			-04	
3	06-236-01			LH	6/18
4	06-237-02			LH -01	6/25
5	-03 MS			-05	
6	-04 MSD			-06	
7	-05				
8	-06				
9	-07				
10	-08			-02	
11	-08DUP			-07	
12	06-246-01				6/20
13	06-247-01				6/20
14	-02				"
15	06-253-03			LH	6/27
16	-03			"	"
17	-04			"	"
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

06-13-01 SJK

Comments: _____

Peer Review By: Vicki Collins 6/13/01 Supervisor Review: _____

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2.3.3.4 Sample Calculations

Example Cold Vapor Mercury Calculations
Leeman PS202 Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and five standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Vi)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Ws)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.4 General Chemistry Data

REPORT NARRATIVE
GENERAL CHEMISTRY

KEMRON Login No: L0106236

METHOD

Analysis: See report for method reference.

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met
Duplicates: All acceptance criteria were met
Matrix Spikes: All acceptance criteria were met.

SAMPLES

Cyanide

The duplicate and MS were contaminated by a previous run. The affected sample was reanalyzed to show this. The duplicate and MS were not rerun.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: dih REVIEWED: dlh DATE: 6/15/01

Rev. 6/00

GENERAL CHEMISTRY - CYANIDE DATA

Login Number: L0106236

A. QC Summary

✓ Batch QC Summary Form(s)

B. Raw Data

✓ Cover Page
✓ Analysis Benchsheet
✓ Calculation Spreadsheet
✓ Calibration Data
✓ Example Calculation
(at end of package)

Checked By: dwh **Date:** 6/15/01

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG99252
METHOD: 335.4/9010
MATRIX: water
UNITS: mg/L

RUN DATE: 6/12/01
ANALYST: DLN
DUPLICATE: 06-202-06
SPIKE: 06-202-06

ANALYTE			CONCENTRATION PPM							PERCENT RECOVERY						PERCENT RPD	
	MDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	LCS	LCS LCL	LCS UCL	MS	MS LCL	MS UCL	REP RPD	RPD UCL
Cyanide	0.0050	ND	0.40	0.366	ND	0.16	0.16	0.20	0.384	91.50	90.00	110.00	113.79	84.00	112.00	NA	14.00

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE
ND =NOT DETECTED
NR = NOT REQUIRED
J = RDL > BLANK >/= BLANK
LA = LAB ACCIDENT

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES

A. QC SUMMARY

B. RAW DATA

Wet Lab

Parameter: CN
Analyst/Date/Time: DLN 6/12/01@0820
SOP: K-3354 Revision: 6
Work Group(s): 99252
Preservation Check: Yes ____ No ✓

	Analyst	
Calibration/Linearity	✓	
Second Source Check		
ICV/CCV (std)	✓	
ICB/CCB		
Blank	✓	
LCS	✓	
MS/MSD	✓	
Duplicate	✓	
Record On ACS Benchsheet	✓	
EXCEL QC Sheet	✓	
QC Violation Sheet	✓	
Signed Raw Data	✓	
STD/LCS On Benchsheet	✓	

Primary Reviewer Initials & Date Checked DLN 6/13/01

Secondary Reviewer Initials & Date Checked dlh 6/13/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked dlh 6/13/01

Commets: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

CYANIDE

Workgroup: 99252

Matrix: (Liquid) Soil
(mg/L) (mg/Kg)

Spec: #1 (UV-0120-02) or #2 (UV-120-IV) (circle)

Method EPA 335.2 / 335.4 / 9010B / 9014
SOP #: K3354 Revision 6

CCV(Cal STDs): CS-03-12-07 TRUE VALUE: 1083
Daily dilution: 5(1000)/250 = 20
10(20)/100 = 2
5(2)/250 = 0.2

LCS STOCK: CS-03-04-02 TRUE VALUE: 1083
Daily dilution: 5(1000)/250 = 20
10(20)/100 = 2
10(2)/50 = 0.40
1(2)/50 = 0.04

SPIKE: (daily dilution) 5(2)/50 = 0.20
(same stock as LCS)

curve reference: _____

Sample	Volume mL/grams	pH>12	Sulfide Presence	Dilution	Cell Size (cm)	Apparatus	Absorbance λ = 578 nm
CCV: 0.20 ppm	50mL	Yes	No	1	1	NA	0.350
Blank	↓	↓	↓	↓	5	1-5	0.000
LCS: 0.04 ppm					5	1-12	0.327
LCS: 0.40 ppm					1	1-13	0.656
06-236-01					5	1-1	0.004
06-202-05					↓	1-2	0.020
06						1-3	0.033
07						1-4	0.034
08					↓	1-6	0.029
06-212-01					1	1-7	0.094
06-219-01					↓	1-8	0.219
02	↓	↓	↓	1/25	↓	1-9	0.307
Duplicate: 202-06	50mL	Yes	No	1	1	1-10	0.258
MS: (0.2 ppm) 202-06	↓	↓	↓	↓	1	1-11	0.687
MSD: (ppm)							
CCV: (0.2 ppm)	↓	↓	↓	↓	1	NA	0.343

ANALYST: Deanna Norton DATE/TIME: 6/12/01 @ 0820

APPROVAL: _____ mh 6/13/01

KEMRON Environmental Services

TEST CODE: CN NAME: CYANIDE

METHOD: EPA METHOD 335.2 (MIDI)

UNITS: MG/L ADT: DLN/6/12/01@0820

SamN	Vol1	Vol2	Resp	DilF	Blk	Slope	Int	Level	Results	Units
BLANK	50	50	0	1	0	7.96233	0.00091	-0.0001	<0.01	MG/L
LCS 0.04	50	50	0.327	1	0	7.96233	0.00091	0.04095	0.0378	MG/L
06-236-01	50	50	0.004	1	0	7.96233	0.00091	0.00038	<0.01	MG/L
06-202-05	50	50	0.02	1	0	7.96233	0.00091	0.00239	<0.01	MG/L
202-06	50	50	0.033	1	0	7.96233	0.00091	0.00402	<0.01	MG/L
202-07	50	50	0.034	1	0	7.96233	0.00091	0.00415	<0.01	MG/L
202-08	50	50	0.029	1	0	7.96233	0.00091	0.00352	<0.01	MG/L
CCV 0.20	50	50	0.35	1	0	1.65401	0.00046	0.21132	0.1951	MG/L
LCS 0.40	50	50	0.656	1	0	1.65401	0.00046	0.39633	0.3660	MG/L
06-212-01	50	50	0.094	1	0	1.65401	0.00046	0.05655	0.057	MG/L
06-219-01	50	50	0.219	1	0	1.65401	0.00046	0.13212	0.132	MG/L
219-02	50	50	0.307	0.04	0	1.65401	0.00046	4.63327	4.63	MG/L
202-06DUP	50	50	0.258	1	0	1.65401	0.00046	0.15570	0.156	MG/L
202-06MS	50	50	0.687	1	0	1.65401	0.00046	0.41507	0.38357	MG/L
CCV 0.20	50	50	0.343	1	0	1.65401	0.00046	0.20709	0.1912	MG/L

I2: SHEET

1	CURVE FITTING PROGRAM		Y = mX + B			
2						
3	Number of Pairs (X,Y):		7		Enter Y:	0.774
4	Slope (m):		1.654013		X-Value:	0.467674
5	Y-Intercept (B):		0.000460			
6	Coef. of Correlation (R2):		0.999942 DONT TYPE OVER THIS			
7						
8						
9	(CONC)	(ABS)				
10	Xi	yI	X2i	XiYi	Y - Fitted (mXi + B)	
11	0	0	0	0	0.000460	
12	0.02166	0.035	0.000469	0.000758	0.036286	
13	0.04332	0.074	0.001876	0.003205	0.072112	
14	0.1083	0.18	0.011728	0.019494	0.179590	
15	0.2166	0.36	0.046915	0.077976	0.358720	
16	0.3249	0.534	0.105560	0.173496	0.537849	
17	0.4332	0.719	0.187662	0.311470	0.716979	
18			0	0	0.000460	
19			0	0	0.000460	
20			0	0	0.000460	

MAIN

12-Jun-01 10:55 AM NUM [?]

I2: SHEET

CN 1cm curve
UV-120-02
DLN 6/12/01

I2: SHEET

1	CURVE FITTING PROGRAM		Y = mX + B			
2						
3	Number of Pairs (X,Y):		7		Enter Y:	0.353
4	Slope (m):		7.962334		X-Value:	0.044218
5	Y-Intercept (B):		0.000914			
6	Coef. of Correlation (R2):		0.998994 DONT TYPE OVER THIS			
7						
8						
9	(CONC)	(ABS)				
10	Xi	yI	X2i	XiYi	Y - Fitted (mXi + B)	
11	0	0	0	0	0.000914	
12	0.005415	0.045	0.000029	0.000243	0.044030	
13	0.01083	0.088	0.000117	0.000953	0.087146	
14	0.02166	0.17	0.000469	0.003682	0.173378	
15	0.03249	0.258	0.001055	0.008382	0.259610	
16	0.04332	0.356	0.001876	0.015421	0.345843	
17	0.05415	0.426	0.002932	0.023067	0.432075	
18			0	0	0.000914	
19			0	0	0.000914	
20			0	0	0.000914	

MAIN

12-Jun-01 10:48 AM NUM [?]

I2 X-Value: 0.044218
5 Y-Intercept

CN 5cm Curve
UV-120-02
DLN 6/12/01

KEMRON Environmental Services

TEST CODE: CN NAME: CYANIDE

METHOD: EPA METHOD 335.2 (MIDI)

UNITS: MG/L ADT: dln/6/12/01@0931

SamN	Vol1	Vol2	Resp	DilF	Blk	Slope	Int	Level	Results	Units
2nd 0.40	50	50	0.774	1	0	1.65401	0.00046	0.46767	0.4318	MG/L

KEMRON Environmental Services

TEST CODE: CN NAME: CYANIDE

METHOD: EPA METHOD 335.2 (MIDI)

UNITS: MG/L ADT: dln/6/12/01@0933

SamN	Vol1	Vol2	Resp	DilF	Blk	Slope	Int	Level	Results	Units
2nd 0.04	50	50	0.353	1	0	7.96233	0.00091	0.04421	0.0408	MG/L

992

Parameter: Cyanide

Spectrophotometer: UV-120-02

Calibration (Curve) standard stock: CS-03-12-07

Concentration: 1083

Recipe for preparation of curve standards found in:
SOP: 3354 Revision: 6 Page: Sec. 8

Second Source Stock CS-03-04-02 (concentration: 1083)

Daily Preparation: 5(1000)/250=20
10(20)/100=2
concentration = 1(2)/50=0.04
10(2)/50=0.40

Calibration Standards (mg/L)	Volume	Cell Size	Wavelength	Absorbance
Low Curve				
0	50mL	5	578	0.000
0.005415	↓	↓	↓	0.045
0.01083				0.088
0.02166				0.170
0.03249				0.258
0.04332				0.356
0.05415				0.426
2nd Source (0.04)	↓	↓	↓	0.353
High Curve				
0	50mL	1	578	0.000
0.02166	↓	↓	↓	0.035
0.04332				0.074
0.1083				0.180
0.2166				0.360
0.3249				0.534
0.4332				0.719
2nd Source (0.40)	↓	↓	↓	0.774

Analyst: Deanna Norton Date/Time: 6/12/01

Approved by: dlm 6/13/01

GENERAL CHEMISTRY DATA

Login Number: L0106236

Analyte: Flash

A. QC Summary

NA Batch QC Summary Form(s)

B. Raw Data

✓ Cover Page
✓ Analysis benchsheet
✓ Calculation spreadsheet
NA Calibration data
✓ Example calculation
(at end of package)

Checked By: MH Date: 6/15/01

B. RAW DATA

Wet Lab

Parameter: Flash
Analyst/Date/Time: JWR 06/11 1435
SOP: K- 1010 Revision: 8
Work Group(s): WG99245
Preservation Check: Yes ____ No ✓

	Analyst	
Calibration/Linearity	NA	
Second Source Check	↓	
ICV/CCV (std)	↓	
ICB/CCB	↓	
Blank	↓	
LCS	✓	
MS/MSD	NA	
Duplicate	✓	
Record On ACS Benchsheet	✓	
EXCEL QC Sheet	NA	
QC Violation Sheet	NA	
Signed Raw Data	✓	
STD/LCS On Benchsheet	✓	

Primary Reviewer Initials & Date Checked JWR 06/12/01

Secondary Reviewer Initials & Date Checked dch 6/12/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked dch 6/12/01

Commets: ____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

996

FLASHPOINT

LCS: CS-03-05-01 {2.60 / 2.53 Workgroup: 99245
TEMPERATURE: 21°C PRESSURE: 745 mmHg

SOP K1010 Revision #: 8 Method SW846 1010

	SAMPLE	DESCRIPTION	INITIAL TEMP(C)	COMMENTS or FLASHPOINT	FINAL RESULT (C)
	LCS	p-Xylene	15°	flashed	28°
	LCS DUP	p-Xylene	18°	flashed	27°
	06-077-01	Red/Brown Liquid - Lemon Odor	17°	no flash	>95°
	06-150-01	Cloudy White Liquid - Solvent Odor	-1°	no flash	>95°
*	06-164-03	Brown Liquid - Turpentine Odor	<-5°	See Note Below	A
	01	Brown Liquid - Musty Odor	20°	no flash	>95°
	06-236-01	Cloudy Tan Liquid - Sewage Odor	18°	no flash	>95°
A		* The sample emits vapors at temperatures <-5°C which prevent the test flame from entering the sample compartment. The pilot flame, above the sample compartment, exhibits characteristics consistant with a sample that has passed its flashpoint. The flame creates a dome-shaped area of burning vapor above the entrance slit where the test flame is introduced. This sample requires both a thermometer and cooling source that exceeds our capabilities at the current time in order to determine its true flashpoint.			
	DUP: 150-01	" "	10°	no flash	>95°

ANALYST: John Richards DATE: 06/11/01/1435

REVIEWED BY: dlh 6/12/01

A18: 'CORRECTION FOR FLASH: SHEET

1	OBSERVED BAROMETRIC PRESSURE:	745		
2				
3	LOWEST PRESSURE IN BRACKET:	740	ADT:JWR/06/11/01/1435	
4	TEMP CORR. 1:	2.6		
5	TEMP CORR. 2:	2.53	WRKGRP:	
6				
7	LOWEST PRESSURE IN BRACKET:	700		
8	GRAV CORR 1:	0.48		
9	GRAV CORR 2:	0.42		
10				
11				
12	TMP COR: 2.5475			
13				
14	GRAV COR: 0.447			
15				
16	CORRECTED BAROMETRIC PRESSURE:	758.4455		
17				
18	CORRECTION FOR FLASH:	0.051298		
19				
20				

MAIN

11-Jun-01 05:36 PM CAPSNUM [?]

GENERAL CHEMISTRY DATA

Login Number: L0106236

Analyte: Reactivity

A. QC Summary

NA Batch QC Summary Form(s)

B. Raw Data

✓ Cover Page
✓ Analysis benchsheet
✓ Calculation spreadsheet
NA Calibration data
✓ Example calculation
(at end of package)

Checked By: dlh Date: 6/15/01

B. RAW DATA

Wet Lab

Parameter: Reacton
Analyst/Date/Time: DLF 06-14-01 1530
SOP: K-7332 Revision: 7
Work Group(s): 99448
Preservation Check: Yes _____ No _____

	Analyst	
Calibration/Linearity		
Second Source Check		
ICV/CCV (std)		
ICB/CCB		
Blank		
LCS		
MS/MSD		
Duplicate	✓	
Record On ACS Benchsheet	✓	
EXCEL QC Sheet		
QC Violation Sheet		
Signed Raw Data	✓	
STD/LCS On Benchsheet		

Primary Reviewer Initials & Date Checked DLF 06-15-01

Secondary Reviewer Initials & Date Checked dlh 6/15/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked dlh 6/15/01

Comments: _____

2

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1001

REACTIVE CYANIDE

LCS: CS-03-04-02 Workgroup: 94448

CCV: CS-03-12-07

SOP: K7332 Revision: 7

Daily Dilution: 5(1000)/250 = 20
10(20)/100 = 2.0
5(2.0)/50 = 0.2

Spec W120-1V

Sample	Grams Reacted	Dilution	Cell Size	Absorbance @ 578 nm
CCV: 0.2	NA		1	0.424
LCS:	10 g	1/5		0.385
06-242-01				0.000
06-265-01				0.000
-02				0.000
Cancel -03				0.000
06-236-01				0.000
06-259-01				0.000
-02				0.000
-03				0.000
06-232-01				0.000
-03				0.000
-05				0.000
-07				0.000
-08				0.000
10	↓		↓	0.000
DUP: 236-01	10		1	0.000

Analyst: Courtney Hayes Date/Time: 06-14-01/830

Reviewed By: dlh 6/15/01

KEMRON Environmental Services

TEST CODE: REACTC NAME: REACTIVE CYANIDE

METHOD: ?

UNITS: mg/kg CN ADT: DLP/06/14/01/0830

...MN	Vol1	Vol2	Resp	DilF	Blk	Slope	Int	Level	Resul
...V(0.2)	50	50	0.424	1	0	2.13473	0.00918	0.19431	0.19
LCS	10	50	0.385	0.2	0	2.13473	0.00918	4.40114	4.40
06-242-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-265-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-265-02	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-236-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-259-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-259-02	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-259-03	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-232-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
...323-03	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
...232-05	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-232-07	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-232-08	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
06-232-10	10	50	0	1	0	2.13473	0.00918	-0.0215	<10
DUP 236-01	10	50	0	1	0	2.13473	0.00918	-0.0215	<10

dlw

Wet Lab

Parameter: React S
Analyst/Date/Time: DLP 06-14-01 1530
SOP: K-7332 Revision: 7
Work Group(s): 99447
Preservation Check: Yes _____ No _____

	Analyst	
Calibration/Linearity		
Second Source Check		
ICV/CCV (std)		
ICB/CCB		
Blank		
LCS		
MS/MSD		
Duplicate	✓	
Record On ACS Benchsheet	✓	
EXCEL QC Sheet		
QC Violation Sheet		
Signed Raw Data	✓	
STD/LCS On Benchsheet		

Primary Reviewer Initials & Date Checked DLP 06-15-01

Secondary Reviewer Initials & Date Checked dch 6/15/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked dch 6/15/01

Commets: 2

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

REACTIVE SULFIDE

☐ EPA ch. 7 SOP K7332 Revision #: 7 Workgroup: 99447
☐ Other Instrument: buret
LCS: CS-03-08-01 Daily Dilution: (10/4/6)/200 =
non-reacted LCS Daily Dilution = 20.80

Iodine standardization (0.025 N and 0.1N)
mL 0.025 N titrant: 10 mL 0.025 N titrant: 8.0
Volume I: 10 mL Volume I: 2.0 mL
Normality I: 0.025 Normality I: 0.10
Stock standardization (in duplicate)
mL I 1) 10 2) 10
N I 1) 0.10 2) 0.10
mL 0.025 titrant 1) 25.6 2) 25.6

4/6 = stock conc (mg/L)

SAMPLE	Grams Reacted	Volume Titrated	mL Iodine	N Iodine	mL 0.025 N Sodium Thiosulfate
BLANK 20.80	X	200	15	0.025	15
Non-reacted LCS (4/6 mg/L)	X	200	15		5.0
Reacted (4/6 mg/L)	10	100	15		12.2
06-242-01		100	5		5.0
06-265-01					5.0
-02					5.0
Canceled -03					5.0
06-236-01					5.0
06-259-01					4.9
-02					4.8
-03					4.8
06-232-01					4.8
-03					5.0
-05					4.8
-07					4.9
-08					5.0
-10					5.0
0					
DUP: 06-236-01	10	100	pH to 5	0.025	5.0

Analyst: Dorothy Rayner Date / Time: 6-14-01 / 830

Reviewed by: dlh 6/15/01

KO◆╢

EMRON Environmental Services

TEST CODE: REACTS NAME: REACTIVE SULFIDE

METHOD: SW846 ch. 7

UNITS: mg/kg S ADT: DLP/06/14/01/0830

SamN	Vol	Iml	Titr	DilF	Blk	Level	Results	Units
BLANK	200	15	15	1	5	0	<100	mg/kg S
LCS(20.80)	200	15	5	1	1	20	19.23	mg/kg S
LCS(416)	100	15	12.2	1	5	56	56	mg/kg S
06-242-01	100	5	5	1	5	0	<100	mg/kg S
265-01	100	5	5	1	5	0	<100	mg/kg S
6-265-02	100	5	5	1	5	0	<100	mg/kg S
06-236-01	100	5	5	1	5	0	<100	mg/kg S
06-259-01	100	5	4.9	1	5	2	<100	mg/kg S
06-259-02	100	5	4.8	1	5	4	<100	mg/kg S
06-259-03	100	5	4.8	1	5	4	<100	mg/kg S
06-232-01	100	5	4.8	1	5	4	<100	mg/kg S
06-232-03	100	5	5	1	5	0	<100	mg/kg S
06-232-05	100	5	4.8	1	5	4	<100	mg/kg S
06-232-07	100	5	4.9	1	5	2	<100	mg/kg S
06-232-08	100	5	5	1	5	0	<100	mg/kg S
06-232-10	100	5	5	1	5	0	<100	mg/kg S
DUP 236-01	100	5	5	1	5	0	<100	mg/kg S

1006

GENERAL CHEMISTRY DATA

Login Number: L0106236

Analyte: pH

A. QC Summary

NA Batch QC Summary Form(s)

B. Raw Data

✓ Cover Page
✓ Analysis benchsheet
NA Calculation spreadsheet
NA Calibration data
✓ Example calculation
(at end of package)

Checked By: [signature] Date: 6/15/01

1007

B. RAW DATA

Wet Lab

Parameter: pH
Analyst/Date/Time: DLP 06-12-01 1600
SOP: K-1501 Revision: 8
Work Group(s): 99266
Preservation Check: Yes ____ No ____

	Analyst	
Calibration/Linearity		
Second Source Check		
ICV/CCV (std)		
ICB/CCB		
Blank		
LCS		
MS/MSD		
Duplicate	✓	
Record On ACS Benchsheet	✓	
EXCEL QC Sheet		
QC Violation Sheet		
Signed Raw Data	✓	
STD/LCS On Benchsheet		

Primary Reviewer Initials & Date Checked DLP 06-12-01

Secondary Reviewer Initials & Date Checked dlh 6/13/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked dlh 6/13/01

Commets: ____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

Sample	Calibration buffers	Water Misc. Liquid	50 % Slurry Of Solid	50% Water Org.Liq. Mix
LCS 6 CS-03-08-13	7,4,10	6.018		
06-232-01			11.90	
-03			11.55	
-05			11.83	
-07			11.59	
-09			11.75	
-10			11.78	
06-240-01				
DUP 06-232-10	7,4,10		11.83	
LCS 9 CS-03-02-05	7,4,10	8.99		

EPA 150.1
SW846 9040B/9045C

SOP K1501 Rev 8

ADT JKM 6-11-01/1430

WORKGROUP 99167

APPROVAL _____

Circle Instrument
(Orion 710A #1)
Orion 710A #2
Sargent - Welch

Sample	Calibration buffers	Water Misc. Liquid	50 % Slurry Of Solid	50% Water Org.Liq. Mix
LCS 6 CS-03-08-13	7,4,10	6.074		
06-261-01		5.90		
06-264-01		7.00		
-02		7.89		
-03		7.22		
-04		5.51		
-05		9.42		
-06		7.07		
07		6.84		
-08		9.37		
-09		7.66		
-10		8.06		
-11		7.15		
-12		4.94		
-13		6.52		
06-236-01		7.61		
DUP 06-261-01		5.90		
LCS 9 CS-03-02-05		9.058		

EPA 150.1
SW846 9040B/9045C

SOP K1501 Rev 8

ADT JKM 06-12-01/1600

WORKGROUP 99266

APPROVAL JKM 6/13/01

Circle Instrument
(Orion 710A #1)
Orion 710A #2
Sargent - Welch

Reviewed by: _____

EXAMPLE CALCULATION

Cyanide (total and weak-dissociable)

[(absorbance - intercept)/(slope * dilution)/(volume)] * 50 = mg/L or mg/kg CN

where: absorbance = reading from the spectrophotometer
intercept = calculated from calibration standard absorbencies
slope = calculated from calibration standard absorbencies
dilution = dilution of the distillate in decimal form (ex. 1/5 dilution = 0.2)
volume = grams or mL of sample used in the distillation
50 = total volume (mL) in the distillation flask

Cyanide (amenable to chlorination)

The cyanide calculation is used to calculate the cyanide in the total and treated portion of the sample

(Y - X) = mg/L of mg/kg CN amenable to chlorination

where: Y = result for the total sample
X = result for the treated sample

Spectrophotometric (excluding all forms of cyanide)

(absorbance - intercept)/(slope * dilution) = mg/L

where: absorbance = reading from the spectrophotometer
intercept = calculated from calibration standard absorbencies (unique to each parameter)
slope = calculated from calibration standard absorbencies (unique to each parameter)
dilution = dilution factor in decimal form (ex. 1/5 dilution = 0.2)

Direct Readout Parameters (includes pH, fluoride, turbidity, color, residual chlorine, automated procedures)

(Readout)/(dilution) = mg/L

where: readout = direct readout from the instrument
dilution = dilution in decimal form (ex. 1/5 dilution = 0.2)

Sulfide (liquids)

{[(mL Iodine * N Iodine)-(mL titrant * N titrant)] * 16000}/(volume * dilution) = mg/L Sulfide

where: mL Iodine = mL of Iodine used
N Iodine: normality of Iodine
mL titrant: mL of titrant used
N titrant = normality of titrant
16000 = factor: 1 mL of 0.025 N iodine reacts with 0.4 mg sulfide
volume = mL filtered or mL titrated(if not filtered)
dilution = dilution in decimal form (1/5 = 0.2)

Reactive Sulfide

A = {[(mL Iodine * N Iodine)-(mL titrant * N titrant)] * 16000}/volume = mg/L Sulfide
B = (volume NaOH)/(grams of sample)

[A * B] = mg/kg reactive sulfide

where: mL Iodine = mL of Iodine used
N Iodine: normality of Iodine
mL titrant: mL of titrant used
N titrant = normality of titrant
16000 = factor: 1 mL of 0.025 N iodine reacts with 0.4 mg sulfide
volume = volume (mL) of scrubber solution titrated
volume NaOH = volume of NaOH placed in the scrubber
grams of sample = grams of sample that was reacted

Sulfide (soil)

{[(mL Iodine * N Iodine)-(mL titrant * N titrant)] * 16.03}/weight = mg/kg sulfide

where: mL Iodine = mL of Iodine used
N Iodine: normality of Iodine
mL titrant: mL of titrant used
N titrant = normality of titrant
16.03 = 32.06 grams per 2 equivalents
weight = kg of sample used

Reactive cyanide

(absorbance - intercept)/(slope * dilution) = A
(volume NaOH)/(grams of sample) = B

[A * B] = mg/kg reactive cyanide

where: absorbance = reading from the spectrophotometer
intercept = calculated from calibration standard absorbencies
slope = calculated from calibration standard absorbencies
dilution = dilution of the distillate in decimal form (ex. 1/5 dilution = 0.2)
volume NaOH = mL of NaOH in the scrubber
grams sample = grams of the sample used for analysis

Flashpoint

C + 0.033(760 - P) = flashpoint, corrected for barometric pressure

where: C = observed flashpoint (Celsius)
P = ambient barometric pressure(mm Hg) corrected for temperature and gravity

Specific gravity

Liquids, sludges

[(S - W)/(R - W)] * F = specific gravity (water = 1.00)

Solids, rocks

(P - W) = A
[(R - W) - (Q - P) = B
(A B) * F = specific gravity (water = 1.00)

where: W = weight of container
S = weight of container & sample
R = weight of container & water
P = weight of container & solid sample
Q = weight of container, sample & water
F = temperature factor

BTU

[(D * 1.8 * A) - (C * 11373)]/B = heat of combustion (BTU/lb)

where: B = sample weight (grams)
C = benzoic acid weight if used (grams)
D = net temperature rise(corrected)
1.8 = constant to get units in BTU/lb
11373 = BTU/lb of benzoic acid
A = calibration constant of the bomb used

Waste Characterization for Sludge Contents of Oil/Water Separator

ACCURA ANALYTICAL LABORATORY
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800
Case Narrative

AAL Project #: 28121

Client Project: NAS Cecil Field Grey Sites III-Site 25 / 148799/CTO 005

CTO Manager: Rob Wright

The following items were noted concerning this project:

1. The sample was received by Accura Analytical Laboratory on 06/13/01 at 0930:

Client I.D.	Laboratory I.D.
005-25OWS2-W-0612-01	AC15162

2. The sample cooler temperature was noted to be 5^{0}C upon receipt.

3. The total soil sample results are reported on a dry weight basis.

4. The "J" values noted for the TCLP Metals, SVOC, Metals-TAL, FLA-PRO, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

5. The "B" values noted for the TCLP Metals, Metals-TAL, and VOC results indicate that the compound was detected in the sample and in the Method Blank, and the result should be considered estimated due to Method Blank contamination.

6. The pH of the sample was 1.0 for the VOC analysis.

7. There were hits of Aluminum and Calcium in the blank for the Metals-TAL analysis. The hits of Aluminum and Calcium in the sample were ten times greater than the concentration of the hit in the blank; therefore the results were not affected.

8. The detection limits were elevated for the sample due to limited sample volume:

Herbicides – SW-846-8151A Pesticides – SW-846-8081A

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9. The sample required dilution due to high analyte concentration and/or matrix interference, resulting in elevated detection limits:

SVOC-TCL – SW-846-8270C	VOC-TCL – SW-846-8260B
FLA-PRO	PCB – SW-846-8082
Pesticides – SW-846-8081A	Mercury-TAL – SW-846-7471A

10. The surrogates were diluted out for the sample; therefore no recoveries could be reported:

SVOC-TCL – SW-846-8270C	FLA-PRO

Note that the surrogates were also diluted out for the matrix spike and matrix duplicate analyses for the FLA-PRO analysis.

11. One of the surrogates (Nonatriacontane/C39), associated with the FL-PRO analyses was outside the method specified limit for Method Blank and Laboratory Control Sample performed for this project. The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

12. The following surrogates were outside the method specified limits due to matrix interference:

SVOC-TCL – SW-846-8270C
Nitrobenzene - Laboratory Control Sample Laboratory Control Sample Duplicate
2-Fluorobiphenyl - Laboratory Control Sample Laboratory Control Sample Duplicate
Terphenyl-d14 - Laboratory Control Sample
Phenol-d5 - Laboratory Control Sample
2,4,6-Tribromophenol - Laboratory Control Sample

13. Project Specific QC consists of a laboratory control sample and laboratory control sample duplicate for the following analyses due to limited sample volume:

SVOC-TCL – SW-846-8270C	Pesticides – SW-846-8081A
Herbicides – SW-846-8151A	

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14. The laboratory control sample and laboratory control sample duplicate recoveries (LCS/LCSD) were outside the project specified limit for the following analytes:

SVOC-TCL – SW-846-8270C
LCS- Bis(2-chloroethyl)ether bis(2-Chloroisopropyl)ether
N-Nitroso-di-n-propylamine Hexachlorocyclopentadiene
LCSD - Bis(2-chloroethyl)ether bis(2-Chloroisopropyl)ether
N-Nitroso-di-n-propylamine Hexachlorocyclopentadiene 3-Nitroaniline
2,4-Dinitrophenol 4-Nitroaniline Carbazole 3,3-Dichlorobenzidine
Di-n-octylphthalate

Metals-TAL – SW-846-6010B
LCS - Sodium

VOC-TCL – SW-846-8260B
Laboratory Control Sample - Bromomethane Methylene Chloride

The results for the SVOC analytes should be considered estimated. The result for Sodium was accepted due to the matrix spike and matrix spike duplicate recoveries were within the project specified limits. The laboratory control sample recoveries were bias high for the VOC analytes, and there were no hits of those analytes in the sample; therefore the data was accepted.

15. The following spike recoveries were outside the method specified limits due to matrix interference and/or sample heterogeneity:

PCB – SW-846-8082
Matrix Spike/Matrix Spike Duplicate - Arochlor 1260

Metals-TAL – SW-846-6010B
Matrix Spike - Aluminum Calcium Magnesium Zinc
Matrix Spike Duplicate - Aluminum Calcium Chromium Lead
Magnesium Zinc

VOC-TCL – SW-846-8260B
Matrix Spike - Acetone Trichloroethylene Tetrachloroethylene

16. The following spike recoveries could not be determined due to high sample concentration:

Metals-TAL – SW-846-6010B
Matrix Spike/Matrix Spike Duplicate - Iron

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17. The spike standard for the matrix spike and matrix spike duplicate was diluted out for the following analysis; therefore no recoveries could be reported:

    FLA-PRO

    The Laboratory Control Sample recovery was within the acceptable limit; therefore the data was accepted.

18. The relative percent difference between the laboratory control sample and laboratory control sample duplicate was outside the project specified limit for the following analytes due to sample heterogeneity:

    SVOC-TCL – SW-846-8270C
    Bis(2-chloroethyl)ether N-Nitroso-di-n-propylamine Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 4-Chloro-3-methylphenol 2-Nitroaniline Dimethyl phthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethyl phthalate 4-Chlorophenyl-phenyl ether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol 4-Bromophenyl-phenyl ether Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butylphthalate Fluoroanthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chyrsene bis(2-Ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoroanthene Benzo(k)fluoroanthene Benzo(a)pyrene Indeno(1,2,3-cd))pyrene Dibenzo(a,h)anthracene Benzo(g,h,I)perylene Terphenyl-d14 2,4,6-Tribromophenol

19. The relative percent difference between the matrix spike and matrix spike duplicate was outside the project specified limit for the following analytes due to sample heterogeneity:

    Metals-TAL – SW-846-6010B
    Iron Zinc

    VOC-TCL – SW-846-8260B
    Acetone Trichloroethylene Tetrachloroethylene

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20. Tentatively Identified Compounds were detected and results reported as quantitative estimates.

Approved for Quality Assurance Release By:

Camden Robinson — Date: 7/19/01
Quality Assurance Officer

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LABORATORY REPORT

Accura Sample ID #: AC15162 **Accura Project #:** 28121

Client: OmegaSys

Client Contact: ROB WRIGHT

Client Project Number: 148799/CTO 005

Client Project Name: NAS CECIL FIELD GREY SITES III-SITE 25

Client Sample ID: 005-25OWS2-W-0612-01

Date Sampled: 6/12/01
Date Received: 6/13/01
Date Reported: 7/18/01
Sample Matrix: SLUDGE

ANALYSIS: % Solids

Date Ext/Dig/Prep: 6/29/01 Date Analyzed: 6/29/01 Method Ref: EPA 160.3 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	51		1.0

ANALYSIS: Herbicides

Date Ext/Dig/Prep: 7/5/01 Date Analyzed: 7/12/01 Method Ref: 8151A Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,5-T	<RL		5.0
2,4,5-TP (Silvex)	<RL		5.0
2,4-D	<RL		5.0

ANALYSIS: Ignitability/Flash Point

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/12/01 Method Ref: 1010 Result Units: °F

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Ignitability/Flash Point	135		80

ANALYSIS: Metals - Mercury - TAL

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/12/01 Method Ref: 7471A Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	9.8		9.8

ANALYSIS: Metals - TAL

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/28/01 Method Ref: 3050B/6010B Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	8200		9.8
Antimony	<RL		9.8
Arsenic	3.0	J	9.8
Barium	180		9.8
Beryllium	0.87		0.59
Cadmium	.32		0.98
Calcium	31000		9.8
Chromium	450		9.8
Cobalt	6.7		2.0
Copper	180		9.8
Iron	22000		20
Lead	260		9.8
Magnesium	1200		9.8

Manganese	100		9.8
Nickel	28		9.8
Potassium	480	B	200
Selenium	32		9.8
Silver	2.7	J	9.8
Sodium	460	B	200
Thallium	12		9.8
Vanadium	21		2.0
Zinc	1300		200

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 6/18/01 Date Analyzed: 6/19/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	86		33
Aroclor-1221	<RL		650
Aroclor-1232	<RL		650
Aroclor-1242	<RL		330
Aroclor-1248	<RL		330
Aroclor-1254	<RL		330
Aroclor-1260	1900		330

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/27/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		5.4
4,4'-DDE	<RL		5.4
4,4'-DDT	<RL		11
Aldrin	<RL		5.4
alpha-BHC	<RL		5.4
alpha-Endosulfan	<RL		5.4
beta-BHC	<RL		5.4
beta-Endosulfan	<RL		5.4
delta-BHC	<RL		5.4
Dieldrin	<RL		5.4
Endosulfan sulfate	<RL		5.4
Endrin	<RL		5.4
Endrin aldehyde	<RL		5.4
Endrin ketone	<RL		5.4
gamma-BHC	<RL		5.4
Heptachlor	<RL		5.4
Heptachlor epoxide	<RL		5.4
Methoxychlor	<RL		27
Total Chlordane (Technical)	<RL		54
Toxaphene	<RL		270

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 6/15/01 Date Analyzed: 6/22/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	43000		8300

ANALYSIS: pH (Soil/Solid/Waste) Method Ref: 9045C

Date Ext/Dig/Prep: 6/22/01 Date Analyzed: 6/22/01 Result Units: pH units

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
pH	7.3		

ANALYSIS: Reactive Cyanide Method Ref: SW846-7.3.3.2

Date Ext/Dig/Prep: 7/11/01 Date Analyzed: 7/11/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Cyanide	<RL		0.39

ANALYSIS: Reactive Sulfide Method Ref: SW846-7.3.4.2

Date Ext/Dig/Prep: 7/13/01 Date Analyzed: 7/13/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Sulfide	20		20

ANALYSIS: SVOC's - TCL Method Ref: 8270C

Date Ext/Dig/Prep: 6/29/01 Date Analyzed: 7/2/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		1000
1,2-Dichlorobenzene	<RL		1000
1,3-Dichlorobenzene	<RL		1000
1,4-Dichlorobenzene	<RL		1000
2,4,5-Trichlorophenol	<RL		1000
2,4,6-Trichlorophenol	<RL		1000
2,4-Dichlorophenol	<RL		1000
2,4-Dimethylphenol	<RL		1000
2,4-Dinitrophenol	<RL		5000
2,4-Dinitrotoluene	<RL		1000
2,6-Dinitrotoluene	<RL		1000
2-Chloronaphthalene	<RL		1000
2-Chlorophenol	<RL		1000
2-Methylnaphthalene	2600		1000
2-Methylphenol	<RL		1000
2-Nitroaniline	<RL		2000
2-Nitrophenol	<RL		1000
3,3'-Dichlorobenzidine	<RL		1000
3,4-Methylphenol	<RL		1000
3-Nitroaniline	<RL		2000
4,6-Dinitro-2-methylphenol	<RL		2000
4-Bromophenyl phenyl ether	<RL		1000
4-Chloro-3-methylphenol	<RL		1000
4-Chloroaniline	<RL		1000
4-Chlorophenyl phenyl ether	<RL		1000
4-Nitroaniline	<RL		2000
4-Nitrophenol	<RL		2000
Acenaphthene	<RL		1000
Acenaphthylene	<RL		1000
Anthracene	<RL		1000
Benzo(a)anthracene	130	J	1000
Benzo(a)pyrene	<RL		1000
Benzo(b)fluoranthene	<RL		1000
Benzo(g,h,i)perylene	<RL		1000
Benzo(k)fluoranthene	<RL		1000
bis(2-Chloroethoxy)methane	<RL		1000
bis(2-Chloroethyl)ether	<RL		1000
bis(2-Chloroisopropyl)ether	<RL		1000
bis(2-Ethylhexyl)phthalate	3200		1000
Butyl benzyl phthalate	520	J	1000

Carbazole	<RL		1000
Chrysene	140	J	1000
Dibenz(a,h)anthracene	<RL		1000
Dibenzofuran	<RL		1000
Diethylphthalate	<RL		1000
Dimethylphthalate	<RL		1000
Di-n-butylphthalate	<RL		1000
Di-n-octylphthalate	<RL		1000
Fluoranthene	550	J	1000
Fluorene	<RL		1000
Hexachlorobenzene	<RL		1000
Hexachlorobutadiene	<RL		1000
Hexachlorocyclopentadiene	<RL		1000
Hexachloroethane	<RL		1000
Indeno(1,2,3-cd)pyrene	<RL		1000
Isophorone	<RL		1000
Naphthalene	<RL		1000
Nitrobenzene	<RL		1000
N-Nitroso-di-n-propylamine	<RL		1000
N-Nitrosodiphenylamine	<RL		1000
Pentachlorophenol	<RL		2000
Phenanthrene	670	J	1000
Phenol	<RL		1000
Pyrene	530	J	1000

ANALYSIS: TCLP Extraction Procedure Method Ref: 1311

Date Ext/Dig/Prep: 7/10/01 Date Analyzed: 7/11/01 Result Units:

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
TCLP Extraction	COMPLETED		

ANALYSIS: TCLP Mercury Method Ref: 7470A

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury (Reg Limit = 0.2)	<RL		0.020

ANALYSIS: TCLP Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/12/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic (Reg Limit = 5.0)	<RL		1.0
Barium (Reg Limit = 100.0)	0.95	JB	1.0
Cadmium (Reg Limit = 1.0)	<RL		1.0
Chromium (Reg Limit = 5.0)	<RL		1.0
Lead (Reg Limit = 5.0)	0.062	J	1.0
Selenium (Reg Limit = 1.0)	0.45	J	1.0
Silver (Reg Limit = 5.0)	<RL		1.0

ANALYSIS: VOC's - TCL Method Ref: 8260B

Date Ext/Dig/Prep: 6/22/01 Date Analyzed: 6/22/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		25
1,1,2,2-Tetrachloroethane	<RL		25
1,1,2-Trichloroethane	<RL		25
1,1-Dichloroethane	<RL		25
1,1-Dichloroethene	<RL		25

1,2-Dichloroethane	<RL		25
1,2-Dichloropropane	<RL		25
2-Butanone (MEK)	<RL		250
2-Hexanone (MBK)	<RL		250
4-Methyl-2-pentanone (MIBK)	<RL		250
Acetone	16	JB	250
Benzene	<RL		25
Bromodichloromethane	<RL		25
Bromoform	<RL		25
Bromomethane	<RL		25
Carbon disulfide	<RL		25
Carbon tetrachloride	<RL		25
Chlorobenzene	<RL		25
Chloroethane	<RL		25
Chloroform	<RL		25
Chloromethane	<RL		25
cis-1,2-Dichloroethene	<RL		25
cis-1,3-Dichloropropene	<RL		25
Dibromochloromethane	<RL		25
Ethylbenzene	2.8	J	25
Methylene chloride	<RL		25
Styrene	<RL		25
Tetrachloroethene	<RL		25
Toluene	3.3	J	25
trans-1,2-Dichloroethene	<RL		25
trans-1,3-Dichloropropene	<RL		25
Trichloroethene	<RL		25
Vinyl chloride	<RL		10
Xylenes (Total)	29		25

ANALYSIS: X Herbicide Sample Surrogates-W Method Ref: 8151A

Date Ext/Dig/Prep: 7/5/01 Date Analyzed: 7/12/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
DCAA (Range D-164)	69		

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 6/18/01 Date Analyzed: 6/19/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 45-127)	80		

ANALYSIS: X Pest Sample Surrogates (Water Method Ref: 8081A

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 30-150)	<RL	DO	
Tetrachloro-m-xylene (Range 30-150)	<RL	DO	

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 6/15/01 Date Analyzed: 6/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 60-118)	<RL	DO	
o-Terphenyl (Range 62-109)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 6/22/01 Date Analyzed: 6/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	94		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	97		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 6/29/01 Date Analyzed: 7/2/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 28-142)	<RL	DO	
2-Fluorobiphenyl (Range 21-122)	<RL	DO	
2-Fluorophenol (Range 11-114)	<RL	DO	
Nitrobenzene-d5 (Range 16-125)	<RL	DO	
Phenol-d6 (Range 9-109)	<RL	DO	
p-Terphenyl-d14 (Range 5-157)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC15163 **Accura Project #:** 28121

Client: OmegaSys Date Sampled: 6/13/01

Client Contact: ROB WRIGHT Date Received: 6/13/01

Client Project Number: 143799/CTO 005 Date Reported: 7/18/01

Client Project Name: NAS CECIL FIELD GREY SITES III-SITE 25 Sample Matrix: SLUDGE

Client Sample ID: METHOD BLANK

ANALYSIS: Herbicides Method Ref: 8151A

Date Ext/Dig/Prep: 7/5/01 Date Analyzed: 7/12/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,5-T	<RL		0.50
2,4,5-TP (Silvex)	<RL		0.50
2,4-D	<RL		0.50

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/12/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.50

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/28/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	18		5.0
Antimony	<RL		5.0
Arsenic	<RL		5.0
Barium	<RL		5.0
Beryllium	<RL		0.30
Cadmium	<RL		0.50
Calcium	46		5.0
Chromium	<RL		5.0
Cobalt	<RL		1.0
Copper	<RL		5.0
Iron	1.4	J	10
Lead	<RL		5.0
Magnesium	<RL		5.0
Manganese	<RL		5.0
Nickel	<RL		5.0
Potassium	25	J	100
Selenium	<RL		5.0
Silver	<RL		5.0
Sodium	39	J	100
Thallium	<RL		5.0
Vanadium	<RL		1.0
Zinc	5.6	J	100

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 6/18/01 Date Analyzed: 6/19/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		17
Aroclor-1221	<RL		33
Aroclor-1232	<RL		33
Aroclor-1242	<RL		17
Aroclor-1248	<RL		17
Aroclor-1254	<RL		17
Aroclor-1260	<RL		17

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/27/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		0.050
4,4'-DDE	<RL		0.050
4,4'-DDT	<RL		0.10
Aldrin	<RL		0.050
alpha-BHC	<RL		0.050
alpha-Endosulfan	<RL		0.050
beta-BHC	<RL		0.050
beta-Endosulfan	<RL		0.050
delta-BHC	<RL		0.050
Dieldrin	<RL		0.050
Endosulfan sulfate	<RL		0.050
Endrin	<RL		0.050
Endrin aldehyde	<RL		0.050
Endrin ketone	<RL		0.050
gamma-BHC	<RL		0.050
Heptachlor	<RL		0.050
Heptachlor epoxide	<RL		0.050
Methoxychlor	<RL		0.25
Total Chlordane (Technical)	<RL		0.50
Toxaphene	<RL		2.5

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 6/15/01 Date Analyzed: 6/20/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	13	J	30

ANALYSIS: Reactive Cyanide Method Ref: SW846-7.332

Date Ext/Dig/Prep: 7/11/01 Date Analyzed: 7/11/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Cyanide	<RL		0.20

ANALYSIS: Reactive Sulfide Method Ref: SW846-7.342

Date Ext/Dig/Prep: 7/13/01 Date Analyzed: 7/13/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Sulfide	<RL		10

ANALYSIS: SVOC's - TCL Method Ref: 8270C

Date Ext/Dig/Prep: 6/29/01 Date Analyzed: 7/2/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10
3,4-Methylphenol	<RL		10
3-Nitroaniline	<RL		20
4,6-Dinitro-2-methylphenol	<RL		20
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		10
4-Chloroaniline	<RL		10
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		20
4-Nitrophenol	<RL		20
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10

Client Sample ID: METHOD BLANK AALSample ID #: AC15163 Accura Project #: 28121

Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: TCLP Extraction Procedure Method Ref: 1311

Date Ext/Dig/Prep: 7/10/01 Date Analyzed: 7/11/01 Result Units:

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
TCLP Extraction	COMPLETED		

ANALYSIS: TCLP Mercury Method Ref: 7470A

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury (Reg Limit = 0.2)	<RL		0.020

ANALYSIS: TCLP Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 7/12/01 Date Analyzed: 7/12/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic (Reg Limit = 5.0)	<RL		1.0
Barium (Reg Limit = 100.0)	0.28	J	1.0
Cadmium (Reg Limit = 1.0)	<RL		1.0
Chromium (Reg Limit = 5.0)	<RL		1.0
Lead (Reg Limit = 5.0)	<RL		1.0
Selenium (Reg Limit = 1.0)	<RL		1.0
Silver (Reg Limit = 5.0)	<RL		1.0

ANALYSIS: VOC's - TCL Method Ref: 8260B

Date Ext/Dig/Prep: 6/22/01 Date Analyzed: 6/22/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		5
1,1,2,2-Tetrachloroethane	<RL		5
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		5
1,1-Dichloroethene	<RL		5
1,2-Dichloroethane	<RL		5
1,2-Dichloropropane	<RL		5
2-Butanone (MEK)	<RL		50
2-Hexanone (MBK)	<RL		50
4-Methyl-2-pentanone (MIBK)	<RL		50
Acetone	3.5	J	50
Benzene	<RL		5
Bromodichloromethane	<RL		5
Bromoform	<RL		5
Bromomethane	<RL		5
Carbon disulfide	<RL		5

Carbon tetrachloride	<RL	5
Chlorobenzene	<RL	5
Chloroethane	<RL	5
Chloroform	<RL	5
Chloromethane	<RL	5
cis-1,2-Dichloroethene	<RL	5
cis-1,3-Dichloropropene	<RL	5
Dibromochloromethane	<RL	5
Ethylbenzene	<RL	5
Methylene chloride	<RL	5
Styrene	<RL	5
Tetrachloroethene	<RL	5
Toluene	<RL	5
trans-1,2-Dichloroethene	<RL	5
trans-1,3-Dichloropropene	<RL	5
Trichloroethene	<RL	5
Vinyl chloride	<RL	2
Xylenes (Total)	<RL	5

ANALYSIS: X Herbicide QC Surrogates-Water Method Ref: 8151A

Date Ext/Dig/Prep: 7/5/01 Date Analyzed: 7/12/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
DCAA (Range 58-110)	90		

ANALYSIS: X PCB QC Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 6/18/01 Date Analyzed: 6/19/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 57-122)	85		

ANALYSIS: X Pest QC Surrogates (Waters) Method Ref: 8081A

Date Ext/Dig/Prep: 6/25/01 Date Analyzed: 6/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 30-150)	96		
Tetrachloro-m-xylene (Range 30-150)	105		

ANALYSIS: X PRO QC Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 6/15/01 Date Analyzed: 6/20/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 60-118)	24	Z	
o-Terphenyl (Range 62-109)	96		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 6/22/01 Date Analyzed: 6/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	101		
4-Bromofluorobenzene (81-118)	102		
Toluene-d8 (84-115)	101		

ANALYSIS: X SVOC QC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 6/29/01 Date Analyzed: 7/2/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 25-127)	71		
2-Fluorobiphenyl (Range 27-121)	80		

Client Sample ID: METHOD BLANK AALSample ID #: AC15163 Accura Project #: 28121

2-Fluorophenol	(Range 24-101)	67
Nitrobenzene-d5	(Range 24-114)	76
Phenol-d6	(Range 26-104)	73
p-Terphenyl-d14	(Range 28-139)	86

Waste Characterization for Liquid Contents of Oil/Water Separator

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia. 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27907
Client Project: NAS Cecil Field Grey Sites III – Site 25 / 148799/CTO 005
CTO Manager: Rob Wright

The following items were noted concerning this project:

1. The following sample was received by Accura Analytical Laboratory on 05/18/01 at 0925:

Client I.D.	Laboratory I.D.
005-25OWS1-W-0517-01	AC 13625

2. The sample cooler temperature was noted to be 4^0C upon receipt.

3. The sample was preserved at the laboratory for the FLA-PRO analysis.

4. The "J" values noted for the Metals-TAL, PCB, SVOC, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

5. The "B" values noted for the Metals-TAL analysis indicate that the compounds were detected in the sample and in the Method Blank, and the results should be considered estimated due to Method Blank contamination.

6. The pH of the sample was 1.0 for the VOC analysis.

7. The sample required dilution due to high analyte concentration and/or matrix interference, resulting in elevated detection limits:

FLA-PRO SVOC – SW-846-8270C

8. The following surrogate was outside the method specified limit as indicated by "Z" qualifier:

FLA-PRO	
(Nonatriacontane/C39) -	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate

The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

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9. The following surrogate was outside the method specified limit due to matrix interference as indicated by "Z" qualifier:

   FLA-PRO
   o-Terphenyl - 005-25OWS1-W-0517-01

10. The laboratory control sample recovery was outside the project specified limit for the following analyte:

    VOC – SW-846-8260B
    Bromomethane

    The laboratory control sample recovery was bias high, and there were no hits of Bromomethane in the samples; therefore the data results were accepted.

11. The laboratory control sample and laboratory control sample duplicate recoveries (LCS/LCSD) were outside the project specified limit for the following analytes:

    SVOC – SW-846-8270C

    LCS - Bis(2-chloroethoxy)methane 4-Chloroaniline Hexachlorocyclopentadiene 2-Nitroaniline Acenaphthylene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3-Dichlorobenzidine Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene

    LCSD - Bis(2-chloroethoxy)methane 4-Chloroaniline Hexachlorocyclopentadiene 2-Nitroaniline Acenaphthylene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3-Dichlorobenzidine Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene

    There were no hits in the sample for any of the analytes listed above; however, the recoveries for Bis(2-chloroethoxy)methane, 4-Chloroaniline, Hexachlorocyclopentadiene, 2-Nitroaniline, Acenaphthylene, 3-Nitroaniline, 4-Nitroaniline, N-Nitrosodiphenylamine, Carbazole, and 3,3-Dichlorobenzidine were all bias low, and the results for these analytes should be considered estimated. The recoveries for Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene were all bias high; therefore the data for these analytes were accepted.

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12. The following spike recoveries were outside the project specified limits:

Reactive Sulfide – SW846-7.342
Matrix Spike - Reactive Sulfide
Matrix Spike Duplicate - Reactive Sulfide

The recoveries were within the laboratory's in-house limits; therefore the data was accepted.

13. The relative percent difference between the laboratory control sample and laboratory control sample duplicate was outside the project specified limit for the following analytes:

SVOC – SW-846-8270C
4-Chloroaniline 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline
N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine

14. Batch QC for the following analyses consists of a laboratory control and a laboratory control sample duplicate due to limited sample volume:

SVOC – SW-846-8270C
Pesticides – SW-846-8081A
PCB – SW-846-8082
Herbicides – SW-846-8151A

Note that the laboratory control sample and laboratory control sample duplicate recoveries are reported as matrix spike and matrix spike duplicate recoveries on the QC spreadsheet.

Quality Assurance Officer
Camden L. Robinson

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LABORATORY REPORT

Accura Sample ID #: AC13625 **Accura Project #:** 27907

Client: OmegaSys Date Sampled: 5/17/01

Client Contact: ROB WRIGHT Date Received: 5/18/01

Client Project Number: 148799/CTO 005 Date Reported: 6/6/01

Client Project Name: NAS CECIL FIELD GREY SITES III-SITE 25 Sample Matrix: WATER

Client Sample ID: 005-25OWS1-W-0517-01

ANALYSIS: Herbicides Method Ref: 8151A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,5-T	<RL		0.50
2,4,5-TP (Silvex)	<RL		0.50
2,4-D	<RL		0.50

ANALYSIS: Ignitability/Flash Point Method Ref: 1010

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/23/01 Result Units: °F

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Ignitability/Flash Point	>140		80

ANALYSIS: Metals - Mercury -TAL Method Ref: 7470A

Date Ext/Dig/Prep: 5/24/01 Date Analyzed: 5/24/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - TAL Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/25/01 Date Analyzed: 5/29/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	0.17	JB	1.0
Antimony	<RL		0.0060
Arsenic	<RL		0.050
Barium	0.015	J	0.50
Beryllium	<RL		0.0030
Cadmium	<RL		0.0050
Calcium	12		1.0
Chromium	<RL		0.050
Cobalt	<RL		0.010
Copper	<RL		0.050
Iron	1.5		0.10
Lead	<RL		0.010
Magnesium	0.34		0.050
Manganese	0.024	J	0.050
Nickel	0.0022	J	0.010
Potassium	2.3		1.0
Selenium	<RL		0.050
Silver	<RL		0.050

Sodium	1.7	B	1.0
Thallium	<RL		0.0050
Vanadium	<RL		0.010
Zinc	0.026	JB	1.0

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: ug/l

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		0.50
Aroclor-1221	<RL		0.50
Aroclor-1232	<RL		0.50
Aroclor-1242	<RL		0.50
Aroclor-1248	<RL		0.50
Aroclor-1254	<RL		0.50
Aroclor-1260	0.40	J	0.50

ANALYSIS: Pesticides Navy Method Ref: 8081A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		0.10
4,4'-DDE	0.34		0.10
4,4'-DDT	<RL		0.10
Aldrin	<RL		0.050
alpha- Chlordane	<RL		0.050
alpha-BHC	<RL		0.050
alpha-Endosulfan	<RL		0.050
beta-BHC	<RL		0.050
beta-Endosulfan	<RL		0.10
delta-BHC	<RL		0.050
Dieldrin	<RL		0.10
Endosulfan sulfate	<RL		0.10
Endrin	<RL		0.10
Endrin aldehyde	<RL		0.10
Endrin Ketone	<RL		0.10
gamma-BHC	<RL		0.050
gamma-Chlordane	<RL		0.050
Heptachlor	<RL		0.050
Heptachlor epoxide	<RL		0.050
Methoxychlor	<RL		0.50
Toxaphene	<RL		5.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/22/01 Date Analyzed: 5/24/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	32		5.0

ANALYSIS: pH (Water) Method Ref: 9040B

Date Ext/Dig/Prep: 5/18/01 Date Analyzed: 5/18/01 Result Units: pH units

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
pH	6.2		

ANALYSIS: Reactive Cyanide

Date Ext/Dig/Prep: 5/18/01 Date Analyzed: 5/19/01 Method Ref: SW846-7.3.3.2 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Cyanide	<RL		0.20

ANALYSIS: Reactive Sulfide

Date Ext/Dig/Prep: 5/18/01 Date Analyzed: 5/19/01 Method Ref: SW846-7.3.4.2 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Sulfide	<RL		10

ANALYSIS: SVOC's - TCL

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/24/01 Method Ref: 8270C Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		50
1,2-Dichlorobenzene	<RL		50
1,3-Dichlorobenzene	<RL		50
1,4-Dichlorobenzene	<RL		50
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		50
2,4-Dichlorophenol	<RL		50
2,4-Dimethylphenol	<RL		50
2,4-Dinitrophenol	<RL		250
2,4-Dinitrotoluene	<RL		50
2,6-Dinitrotoluene	<RL		50
2-Chloronaphthalene	<RL		50
2-Chlorophenol	<RL		50
2-Methylnaphthalene	<RL		50
2-Methylphenol	<RL		50
2-Nitroaniline	<RL		100
2-Nitrophenol	<RL		50
3,3'-Dichlorobenzidine	<RL		50
3,4-Methylphenol	<RL		50
3-Nitroaniline	<RL		100
4,6-Dinitro-2-methylphenol	<RL		100
4-Bromophenyl phenyl ether	<RL		50
4-Chloro-3-methylphenol	<RL		50
4-Chloroaniline	<RL		50
4-Chlorophenyl phenyl ether	<RL		50
4-Nitroaniline	<RL		100
4-Nitrophenol	<RL		100
Acenaphthene	<RL		50
Acenaphthylene	<RL		50
Anthracene	<RL		50
Benzo(a)anthracene	9.3	J	50
Benzo(a)pyrene	<RL		50
Benzo(b)fluoranthene	<RL		50
Benzo(g,h,i)perylene	<RL		50
Benzo(k)fluoranthene	<RL		50
bis(2-Chloroethoxy)methane	<RL		50
bis(2-Chloroethyl)ether	<RL		50
bis(2-Chloroisopropyl)ether	<RL		50
bis(2-Ethylhexyl)phthalate	120		50
Butyl benzyl phthalate	<RL		50

Carbazole	<RL		50
Chrysene	9.0	J	50
Dibenz(a,h)anthracene	<RL		50
Dibenzofuran	<RL		50
Diethylphthalate	<RL		50
Dimethylphthalate	<RL		50
Di-n-butylphthalate	<RL		50
Di-n-octylphthalate	<RL		50
Fluoranthene	8.6	J	50
Fluorene	<RL		50
Hexachlorobenzene	<RL		50
Hexachlorobutadiene	<RL		50
Hexachlorocyclopentadiene	<RL		50
Hexachloroethane	<RL		50
Indeno(1,2,3-cd)pyrene	<RL		50
Isophorone	<RL		50
Naphthalene	<RL		50
Nitrobenzene	<RL		50
N-Nitroso-di-n-propylamine	<RL		50
N-Nitrosodiphenylamine	<RL		50
Pentachlorophenol	<RL		100
Phenanthrene	<RL		50
Phenol	<RL		50
Pyrene	8.6	J	50

ANALYSIS: VOC's - TCL (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/26/01 Date Analyzed: 5/26/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1.0
1,1,2,2-Tetrachloroethane	<RL		1.0
1,1,2-Trichloroethane	<RL		1.0
1,1-Dichloroethane	<RL		1.0
1,1-Dichloroethene	<RL		1.0
1,2-Dichloroethane	<RL		1.0
1,2-Dichloropropane	<RL		1.0
2-Butanone (MEK)	<RL		10
2-Hexanone (MBK)	<RL		10
4-Methyl-2-pentanone (MIBK)	<RL		10
Acetone	8.9	J	10
Benzene	<RL		1.0
Bromodichloromethane	<RL		1.0
Bromoform	<RL		1.0
Bromomethane	<RL		1.0
Carbon disulfide	<RL		1.0
Carbon tetrachloride	<RL		1.0
Chlorobenzene	<RL		1.0
Chloroethane	<RL		1.0
Chloroform	<RL		1.0
Chloromethane	<RL		1.0
cis-1,2-Dichloroethene	<RL		1.0
cis-1,3-Dichloropropene	<RL		1.0
Dibromochloromethane	<RL		1.0
Ethylbenzene	<RL		1.0
Methylene chloride	<RL		1.0
Styrene	<RL		1.0

Tetrachloroethene	<RL	1.0
Toluene	<RL	1.0
trans-1,2-Dichloroethene	<RL	1.0
trans-1,3-Dichloropropene	<RL	1.0
Trichloroethene	<RL	1.0
Vinyl chloride	<RL	1.0
Xylenes (Total)	<RL	1.0

ANALYSIS: X Herbicide Sample Surrogates-W Method Ref: 8151A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
DCAA (Range D-164)	70		

ANALYSIS: X PCB Sample Surrogates (Waters Method Ref: 8082

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range D-138)	94		

ANALYSIS: X Pest Sample Surrogates (Water Method Ref: 8081A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 30-150)	98		
Tetrachloro-m-xylene (Range 30-150)	70		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: PL-PRO

Date Ext/Dig/Prep: 5/22/01 Date Analyzed: 5/24/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	63		
o-Terphenyl (Range 82-142)	55	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/26/01 Date Analyzed: 5/26/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	123		
4-Bromofluorobenzene (80-120)	117		
Toluene-d8 (80-119)	107		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/24/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 28-142)	79		
2-Fluorobiphenyl (Range 21-122)	81		
2-Fluorophenol (Range 11-114)	51		
Nitrobenzene-d5 (Range 16-125)	86		
Phenol-d6 (Range 9-109)	43		
p-Terphenyl-d14 (Range 5-157)	77		

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LABORATORY REPORT

Accura Sample ID #: AC13626 **Accura Project #:** 27907

Client: OmegaSys
Client Contact: ROB WRIGHT
Client Project Number: 148799/CTO 005
Client Project Name: NAS CECIL FIELD GREY SITES III-SITE 25
Client Sample ID: METHOD BLANK

Date Sampled: 5/18/01
Date Received: 5/18/01
Date Reported: 6/6/01
Sample Matrix: WATER

ANALYSIS: Herbicides Method Ref: 8151A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,5-T	<RL		0.50
2,4,5-TP (Silvex)	<RL		0.50
2,4-D	<RL		0.50

ANALYSIS: Metals - Mercury -TAL Method Ref: 7470A

Date Ext/Dig/Prep: 5/24/01 Date Analyzed: 5/24/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.0020

ANALYSIS: Metals - TAL Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/25/01 Date Analyzed: 5/29/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	0.13	J	1.0
Antimony	<RL		0.0060
Arsenic	<RL		0.050
Barium	0.00040	J	0.50
Beryllium	<RL		0.0030
Cadmium	<RL		0.0050
Calcium	0.13	J	1.0
Chromium	<RL		0.050
Cobalt	<RL		0.010
Copper	<RL		0.050
Iron	<RL		0.10
Lead	<RL		0.010
Magnesium	<RL		0.050
Manganese	<RL		0.050
Nickel	<RL		0.010
Potassium	0.11	J	1.0
Selenium	<RL		0.050
Silver	<RL		0.050
Sodium	0.52	J	1.0
Thallium	<RL		0.0050
Vanadium	<RL		0.010
Zinc	0.011	J	1.0

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: ug/l

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		0.50
Aroclor-1221	<RL		0.50
Aroclor-1232	<RL		0.50
Aroclor-1242	<RL		0.50
Aroclor-1248	<RL		0.50
Aroclor-1254	<RL		0.50
Aroclor-1260	<RL		0.50

ANALYSIS: Pesticides Navy Method Ref: 8081A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		0.10
4,4'-DDE	<RL		0.10
4,4'-DDT	<RL		0.10
Aldrin	<RL		0.050
alpha- Chlordane	<RL		0.050
alpha-BHC	<RL		0.050
alpha-Endosulfan	<RL		0.050
beta-BHC	<RL		0.050
beta-Endosulfan	<RL		0.10
delta-BHC	<RL		0.050
Dieldrin	<RL		0.10
Endosulfan sulfate	<RL		0.10
Endrin	<RL		0.10
Endrin aldehyde	<RL		0.10
Endrin Ketone	<RL		0.10
gamma-BHC	<RL		0.050
gamma-Chlordane	<RL		0.050
Heptachlor	<RL		0.050
Heptachlor epoxide	<RL		0.050
Methoxychlor	<RL		0.50
Toxaphene	<RL		5.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/22/01 Date Analyzed: 5/24/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: Reactive Cyanide Method Ref: SW846-7.332

Date Ext/Dig/Prep: 5/18/01 Date Analyzed: 5/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Cyanide	<RL		0.20

ANALYSIS: Reactive Sulfide Method Ref: SW846-7.342

Date Ext/Dig/Prep: 5/18/01 Date Analyzed: 5/19/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Reactive Sulfide	<RL		10

ANALYSIS: SVOC's - TCL Method Ref: 8270C

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/24/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		10
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		20
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		10
3,4-Methylphenol	<RL		10
3-Nitroaniline	<RL		20
4,6-Dinitro-2-methylphenol	<RL		20
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		10
4-Chloroaniline	<RL		10
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		20
4-Nitrophenol	<RL		20
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10

Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	20
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - TCL (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/26/01 Date Analyzed: 5/26/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1.0
1,1,2,2-Tetrachloroethane	<RL		1.0
1,1,2-Trichloroethane	<RL		1.0
1,1-Dichloroethane	<RL		1.0
1,1-Dichloroethene	<RL		1.0
1,2-Dichloroethane	<RL		1.0
1,2-Dichloropropane	<RL		1.0
2-Butanone (MEK)	<RL		10
2-Hexanone (MBK)	<RL		10
4-Methyl-2-pentanone (MIBK)	<RL		10
Acetone	<RL		10
Benzene	<RL		1.0
Bromodichloromethane	<RL		1.0
Bromoform	<RL		1.0
Bromomethane	<RL		1.0
Carbon disulfide	<RL		1.0
Carbon tetrachloride	<RL		1.0
Chlorobenzene	<RL		1.0
Chloroethane	<RL		1.0
Chloroform	<RL		1.0
Chloromethane	<RL		1.0
cis-1,2-Dichloroethene	<RL		1.0
cis-1,3-Dichloropropene	<RL		1.0
Dibromochloromethane	<RL		1.0
Ethylbenzene	<RL		1.0
Methylene chloride	<RL		1.0
Styrene	<RL		1.0
Tetrachloroethene	<RL		1.0
Toluene	<RL		1.0
trans-1,2-Dichloroethene	<RL		1.0
trans-1,3-Dichloropropene	<RL		1.0
Trichloroethene	<RL		1.0
Vinyl chloride	<RL		1.0
Xylenes (Total)	<RL		1.0

ANALYSIS: X Herbicide QC Surrogates-Water Method Ref: 8151A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Client Sample ID: METHOD BLANK AALSample ID #: AC13626 Accura Project #: 27907

DCAA (Range 58-110)		85			

ANALYSIS: X PCB QC Surrogates (Waters) Method Ref: 8082

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 49-148)	101		

ANALYSIS: X Pest QC Surrogates (Waters) Method Ref: 8081A

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 30-150)	99		
Tetrachloro-m-xylene (Range 30-150)	92		

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/22/01 Date Analyzed: 5/24/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	24	Z	
o-Terphenyl (Range 82-142)	90		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/26/01 Date Analyzed: 5/26/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	107		
4-Bromofluorobenzene (81-118)	104		
Toluene-d8 (84-115)	108		

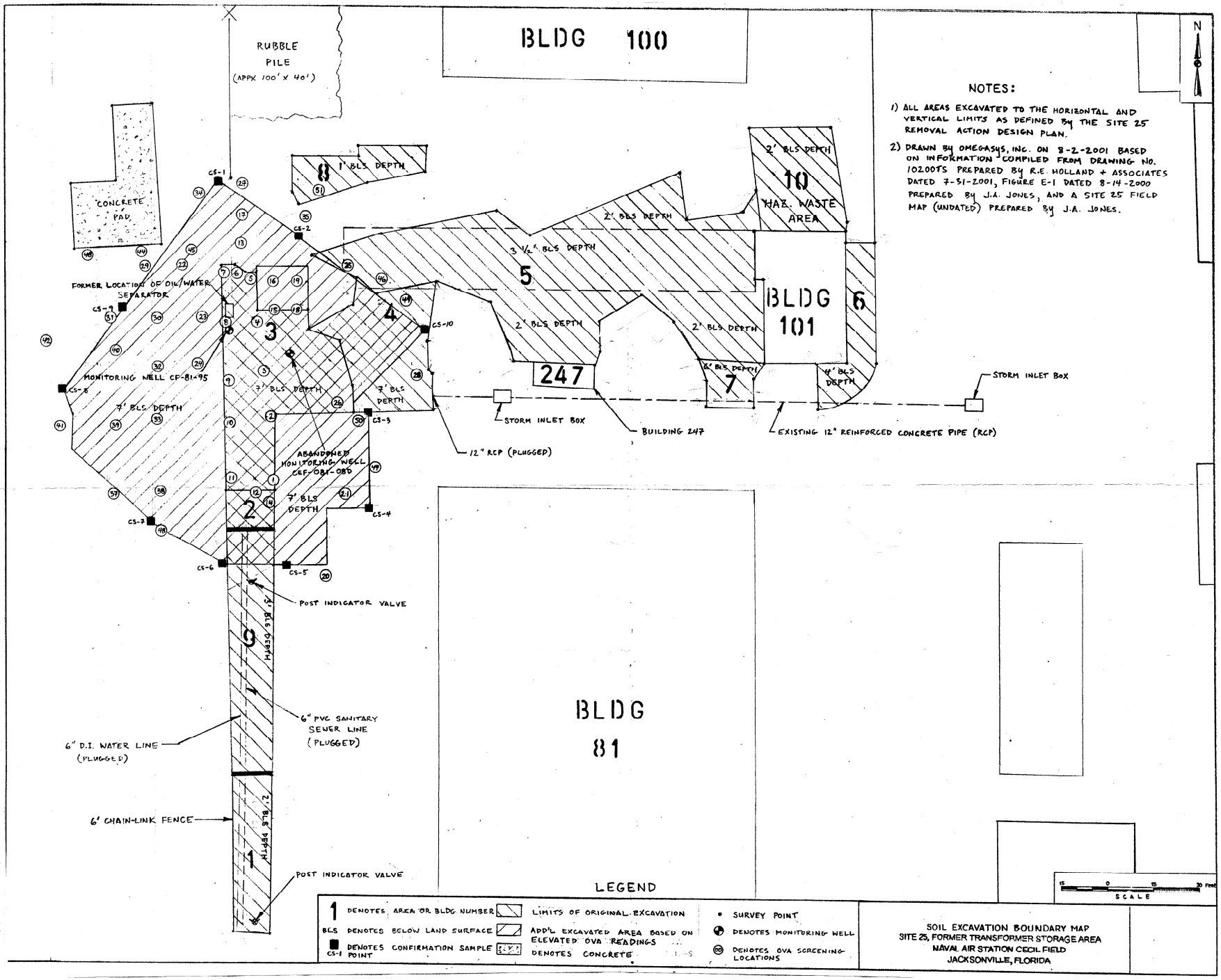
ANALYSIS: X SVOC QC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/21/01 Date Analyzed: 5/24/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 25-127)	79		
2-Fluorobiphenyl (Range 27-121)	81		
2-Fluorophenol (Range 24-101)	32		
Nitrobenzene-d5 (Range 24-114)	71		
Phenol-d6 (Range 26-104)	51		
p-Terphenyl-d14 (Range 28-139)	103		

Appendix E

Soil Excavation Boundary Map



SOIL EXCAVATION BOUNDARY MAP
SITE 25, FORMER TRANSFORMER STORAGE AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Appendix F

Confirmatory Sample Analytical Reports

(available upon request)
Kemron #WG97978
Kemron#WG98011

KEMRON REPORT L0105404

PREPARED FOR CH2MHILL

WORK ID: CECIL FIELD

Summary Report 1
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PCB GC Data (8082) 919
QC Summary 923
Sample Data 926
Standards Data 949
Raw QC Data 1016
DRO GC Data (8015) 1034
QC Summary 1038
Sample Data 1041
Standards Data 1066
Raw QC Data 1103
Metals 1121
Metals I C P Data 1122
QC Summary 1125
Raw Data 1131
Preparation Log (s) 2095
Sample Calculations 2100

Metals CVAA (Mercury) Data 2104
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Raw Data *2109*
Preparation Log (s) *2144*
Sample Calculations *2147*
General Chemistry Data 2149

1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0105404

CHAIN OF CUSTODY:

The chain of custody number was 148799-23.

SHIPMENT CONDITIONS:

The chain of custodies were received sealed in a cooler. The cooler temperatures were 0 & 1 ° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: _____ DATE: 6/5/01

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REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0105404

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD associated with sample fraction 02 yielded % recoveries for several compounds that were outside of the advisory limits. All of these outliers were acceptable in the associated LCS. All other acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample fraction 02 yielded a % recovery for 1,2-dichloroethane-d4 that was above the upper surrogate limit. Samplr fraction 08 yielded a % recovery for 4-BFB that was above the upper advisory limit. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: MES REVIEWED Stephanie L Lupe DATE: 5/31/01

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REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: Sample 02 was chosen by the client for MS/MSD analysis. All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: mdc

REVIEWED: Stephanie Lupo DATE: 6/1/01

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REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS associated with sample 02 yielded a % recovery for 4,4'-DDT that was above the acceptable limit. The secondary column MS yielded % recoveries for 4,4'-DDE, 4,4'-DDT and methoxychlor that were above the acceptable limits. This was due to sample matrix interference. All other acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.

Endrin/ DDT Breakdown : All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL REVIEWED: Stephanie L Tyler DATE: 5/31/01

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REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with work group WG97876 yielded % recoveries for both aroclor 1016 and aroclor 1260 that were above the acceptable limits. There were no positive results in samples associated with this LCS. All other acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL__ REVIEWED Stephanie L Segar DATE: 6/11/01

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REPORT NARRATIVE
GC DIESEL RANGE ORGANICS

KEMRON Report No.: L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED Stephanie Lopez DATE: 6/1/01

Rev. 7/14/00

8

REPORT NARRATIVE
METALS

KEMRON Login No:L0105404

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: WG97846 - The method blank associated with this sample batch yielded a positive result for aluminum of 9.48 mg/kg. All reported sample results exceeded the blank value by a factor of 10x or greater.
Laboratory Control Sample: All acceptance criteria were met
MS/MSD: WG97792 - A post digestion spike was performed for lead with 110 % recovery.
WG97846 - A post digestion spike was performed for antimony with 97.3% recovery and for magnesium with 94.5% recovery. A serial dilution was performed for aluminum and iron with results within 10% of the original determinations.

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SLP, JYH

REVIEWED: Kathy R Albert DATE: 06/05/01

Rev. 6/00

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97659
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MSD	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 01-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil
% Solids: 76 Initial Calibration ID: HPMS9 11-MAY-2001
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:21
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.526	5.3	0.526	.8	ND
1,1,1-Trichloroethane	0.526	5.3	0.526	.8	ND
1,1,2,2-Tetrachloroethane	0.526	5.3	0.526	.8	ND
1,1,2-Trichloroethane	0.526	5.3	0.526	.8	ND
1,1-Dichloroethane	1.05	5.3	1.05	.8	ND
1,1-Dichloroethene	0.526	5.3	0.526	.8	ND
1,1-Dichloropropene	0.526	5.3	0.526	.8	ND
1,2,3-Trichlorobenzene	0.526	5.3	0.526	.8	ND
1,2,3-Trichloropropane	0.674	5.3	0.674	.8	ND
1,2,4-Trichlorobenzene	0.526	5.3	0.526	.8	ND
1,2,4-Trimethylbenzene	0.526	5.3	0.526	.8	ND
1,2-Dibromo-3-chloropropane	0.526	5.3	0.526	.8	ND
1,2-Dibromoethane	0.526	5.3	0.526	.8	ND
1,2-Dichlorobenzene	0.526	5.3	0.526	.8	ND
1,2-Dichloroethane	0.526	5.3	0.526	.8	ND
1,2-Dichloropropane	0.526	5.3	0.526	.8	ND
1,3,5-Trimethylbenzene	0.526	5.3	0.526	.8	ND
1,3-Dichlorobenzene	0.526	5.3	0.526	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:21

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.526	5.3	0.526	.8	ND
1,4-Dichlorobenzene	0.526	5.3	0.526	.8	ND
2,2-Dichloropropane	0.526	5.3	0.526	.8	ND
2-Butanone	2.63	110	2.63	.8	ND
2-Chloroethyl vinyl ether	0.526	11	0.526	.8	ND
2-Chlorotoluene	0.526	5.3	0.526	.8	ND
2-Hexanone	2.63	11	2.63	.8	ND
4-Chlorotoluene	0.526	5.3	0.526	.8	ND
4-Methyl-2-pentanone	2.63	11	2.63	.8	ND
Acetone	2.63	110	2.63	.8	ND
Acrolein	21.1	110	21.1	.8	ND
Acrylonitrile	2.63	110	2.63	.8	ND
Benzene	0.526	5.3	0.526	.8	ND
Bromobenzene	0.526	5.3	0.526	.8	ND
Bromochloromethane	0.526	5.3	0.526	.8	ND
Bromodichloromethane	0.526	5.3	0.526	.8	ND
Bromoform	0.526	5.3	0.526	.8	ND
Bromomethane	1.05	11	1.05	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WQ97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil
% Solids: 76 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:21
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.526	5.3	0.526	.8	ND
Carbon tetrachloride	0.526	5.3	0.526	.8	ND
Chlorobenzene	0.526	5.3	0.526	.8	ND
Chlorodibromomethane	0.526	5.3	0.526	.8	ND
Chloroethane	1.05	11	1.05	.8	ND
Chloroform	0.526	5.3	0.526	.8	ND
Chloromethane	2.11	11	2.11	.8	ND
Dibromomethane	0.526	5.3	0.526	.8	ND
Dichlorodifluoromethane	1.05	11	1.05	.8	ND
Ethylbenzene	0.526	5.3	0.526	.8	ND
Hexachlorobutadiene	0.526	5.3	0.526	.8	ND
Isopropylbenzene	0.526	5.3	0.526	.8	ND
Methylene chloride	1.05	5.3	1.05	.8	ND
Naphthalene	0.526	11	0.526	.8	ND
Styrene	0.526	5.3	0.526	.8	ND
Tetrachloroethene	0.526	5.3	0.526	.8	ND
Toluene	0.526	5.3	0.526	.8	ND
Trichloroethene	0.526	5.3	0.526	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:21

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.05	11	1.05	.8	ND
Vinyl acetate	1.05	11	1.05	.8	ND
Vinyl chloride	1.05	11	1.05	.8	ND
cis-1,2-Dichloroethene	0.526	5.3	0.526	.8	ND
cis-1,3-Dichloropropene	0.526	5.3	0.526	.8	ND
m-Xylene	0.526	5.3	0.526	.8	ND
n-Butylbenzene	0.526	5.3	0.526	.8	ND
n-Propylbenzene	0.526	5.3	0.526	.8	ND
o-Xylene	0.526	5.3	0.526	.8	ND
p-Isopropyltoluene	0.526	5.3	0.526	.8	ND
p-Xylene		5.3		.8	ND
sec-Butylbenzene	0.526	5.3	0.526	.8	ND
tert-Butylbenzene	0.526	5.3	0.526	.8	ND
trans-1,2-Dichloroethene	0.526	5.3	0.526	.8	ND
trans-1,3-Dichloropropene	0.526	5.3	0.526	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	112	80 - 120	
4-Bromofluorobenzene	109	74 - 121	
Dibromofluoromethane	104	80 - 120	
Toluene-d8	105	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS9 11-MAY-2001
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 15:49
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.506	5.1	0.506	.8	ND
1,1,1-Trichloroethane	0.506	5.1	0.506	.8	ND
1,1,2,2-Tetrachloroethane	0.506	5.1	0.506	.8	ND
1,1,2-Trichloroethane	0.506	5.1	0.506	.8	ND
1,1-Dichloroethane	1.01	5.1	1.01	.8	ND
1,1-Dichloroethene	0.506	5.1	0.506	.8	ND
1,1-Dichloropropene	0.506	5.1	0.506	.8	ND
1,2,3-Trichlorobenzene	0.506	5.1	0.506	.8	ND
1,2,3-Trichloropropane	0.648	5.1	0.648	.8	ND
1,2,4-Trichlorobenzene	0.506	5.1	0.506	.8	ND
1,2,4-Trimethylbenzene	0.506	5.1	0.506	.8	ND
1,2-Dibromo-3-chloropropane	0.506	5.1	0.506	.8	ND
1,2-Dibromoethane	0.506	5.1	0.506	.8	ND
1,2-Dichlorobenzene	0.506	5.1	0.506	.8	ND
1,2-Dichloroethane	0.506	5.1	0.506	.8	ND
1,2-Dichloropropane	0.506	5.1	0.506	.8	ND
1,3,5-Trimethylbenzene	0.506	5.1	0.506	.8	ND
1,3-Dichlorobenzene	0.506	5.1	0.506	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 15:49

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.506	5.1	0.506	.8	ND
1,4-Dichlorobenzene	0.506	5.1	0.506	.8	ND
2,2-Dichloropropane	0.506	5.1	0.506	.8	ND
2-Butanone	2.53	100	2.53	.8	ND
2-Chloroethyl vinyl ether	0.506	10	0.506	.8	ND
2-Chlorotoluene	0.506	5.1	0.506	.8	ND
2-Hexanone	2.53	10	2.53	.8	ND
4-Chlorotoluene	0.506	5.1	0.506	.8	ND
4-Methyl-2-pentanone	2.53	10	2.53	.8	ND
Acetone	2.53	100	2.53	.8	ND
Acrolein	20.3	100	20.3	.8	ND
Acrylonitrile	2.53	100	2.53	.8	ND
Benzene	0.506	5.1	0.506	.8	ND
Bromobenzene	0.506	5.1	0.506	.8	ND
Bromochloromethane	0.506	5.1	0.506	.8	ND
Bromodichloromethane	0.506	5.1	0.506	.8	ND
Bromoform	0.506	5.1	0.506	.8	ND
Bromomethane	1.01	10	1.01	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 15:49
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.506	5.1	0.506	.8	ND
Carbon tetrachloride	0.506	5.1	0.506	.8	ND
Chlorobenzene	0.506	5.1	0.506	.8	ND
Chlorodibromomethane	0.506	5.1	0.506	.8	ND
Chloroethane	1.01	10	1.01	.8	ND
Chloroform	0.506	5.1	0.506	.8	ND
Chloromethane	2.03	10	2.03	.8	ND
Dibromomethane	0.506	5.1	0.506	.8	ND
Dichlorodifluoromethane	1.01	10	1.01	.8	ND
Ethylbenzene	0.506	5.1	0.506	.8	ND
Hexachlorobutadiene	0.506	5.1	0.506	.8	ND
Isopropylbenzene	0.506	5.1	0.506	.8	ND
Methylene chloride	1.01	5.1	1.01	.8	ND
Naphthalene	0.506	10	0.506	.8	ND
Styrene	0.506	5.1	0.506	.8	ND
Tetrachloroethene	0.506	5.1	0.506	.8	ND
Toluene	0.506	5.1	0.506	.8	ND
Trichloroethene	0.506	5.1	0.506	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 15:49

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.01	10	1.01	.8	ND
Vinyl acetate	1.01	10	1.01	.8	ND
Vinyl chloride	1.01	10	1.01	.8	ND
cis-1,2-Dichloroethene	0.506	5.1	0.506	.8	ND
cis-1,3-Dichloropropene	0.506	5.1	0.506	.8	ND
m-Xylene	0.506	5.1	0.506	.8	ND
n-Butylbenzene	0.506	5.1	0.506	.8	ND
n-Propylbenzene	0.506	5.1	0.506	.8	ND
o-Xylene	0.506	5.1	0.506	.8	ND
p-Isopropyltoluene	0.506	5.1	0.506	.8	ND
p-Xylene		6.3		1	ND
sec-Butylbenzene	0.506	5.1	0.506	.8	ND
tert-Butylbenzene	0.506	5.1	0.506	.8	ND
trans-1,2-Dichloroethene	0.506	5.1	0.506	.8	ND
trans-1,3-Dichloropropene	0.506	5.1	0.506	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	130	80 - 120	*
4-Bromofluorobenzene	109	74 - 121	
Dibromofluoromethane	113	80 - 120	
Toluene-d8	105	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WQ97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS9 11-MAY-2001
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:52
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.633	6.3	27.0	1	
1,1,1-Trichloroethane	0.633	6.3	31.0	1	
1,1,2,2-Tetrachloroethane	0.633	6.3	21.0	1	
1,1,2-Trichloroethane	0.633	6.3	25.0	1	
1,1-Dichloroethane	1.27	6.3	31.0	1	
1,1-Dichloroethene	0.633	6.3	28.0	1	
1,1-Dichloropropene	0.633	6.3	28.0	1	
1,2,3-Trichlorobenzene	0.633	6.3	20.0	1	
1,2,3-Trichloropropane	0.810	6.3	21.0	1	
1,2,4-Trichlorobenzene	0.633	6.3	20.0	1	
1,2,4-Trimethylbenzene	0.633	6.3	27.0	1	
1,2-Dibromo-3-chloropropane	0.633	6.3	16.0	1	
1,2-Dibromoethane	0.633	6.3	22.0	1	
1,2-Dichlorobenzene	0.633	6.3	24.0	1	
1,2-Dichloroethane	0.633	6.3	27.0	1	
1,2-Dichloropropane	0.633	6.3	29.0	1	
1,3,5-Trimethylbenzene	0.633	6.3	27.0	1	
1,3-Dichlorobenzene	0.633	6.3	26.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:52

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.633	6.3	23.0	1	
1,4-Dichlorobenzene	0.633	6.3	24.0	1	
2,2-Dichloropropane	0.633	6.3	30.0	1	
2-Butanone	3.16	130	17.0	1	
2-Chloroethyl vinyl ether	0.633	13	20.0	1	
2-Chlorotoluene	0.633	6.3	26.0	1	
2-Hexanone	3.16	13	13.0	1	
4-Chlorotoluene	0.633	6.3	28.0	1	
4-Methyl-2-pentanone	3.16	13	18.0	1	
Acetone	3.16	130	14.0	1	
Acrolein	25.3	130	25.3	1	ND
Acrylonitrile	3.16	130	3.16	1	ND
Benzene	0.633	6.3	31.0	1	
Bromobenzene	0.633	6.3	26.0	1	
Bromochloromethane	0.633	6.3	26.0	1	
Bromodichloromethane	0.633	6.3	29.0	1	
Bromoform	0.633	6.3	21.0	1	
Bromomethane	1.27	13	32.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:52

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.633	6.3	26.0	1	
Carbon tetrachloride	0.633	6.3	33.0	1	
Chlorobenzene	0.633	6.3	27.0	1	
Chlorodibromomethane	0.633	6.3	23.0	1	
Chloroethane	1.27	13	31.0	1	
Chloroform	0.633	6.3	31.0	1	
Chloromethane	2.53	13	27.0	1	
Dibromomethane	0.633	6.3	25.0	1	
Dichlorodifluoromethane	1.27	13	23.0	1	
Ethylbenzene	0.633	6.3	30.0	1	
Hexachlorobutadiene	0.633	6.3	26.0	1	
Isopropylbenzene	0.633	6.3	27.0	1	
Methylene chloride	1.27	6.3	27.0	1	
Naphthalene	0.633	13	16.0	1	
Styrene	0.633	6.3	26.0	1	
Tetrachloroethene	0.633	6.3	28.0	1	
Toluene	0.633	6.3	31.0	1	
Trichloroethene	0.633	6.3	29.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 16:52

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.27	13	28.0	1	
Vinyl acetate	1.27	13	16.0	1	
Vinyl chloride	1.27	13	28.0	1	
cis-1,2-Dichloroethene	0.633	6.3	28.0	1	
cis-1,3-Dichloropropene	0.633	6.3	25.0	1	
m-Xylene	0.633	6.3	59.0	1	Z
n-Butylbenzene	0.633	6.3	30.0	1	
n-Propylbenzene	0.633	6.3	29.0	1	
o-Xylene	0.633	6.3	28.0	1	
p-Isopropyltoluene	0.633	6.3	26.0	1	
p-Xylene		6.3		1	Z
sec-Butylbenzene	0.633	6.3	28.0	1	
tert-Butylbenzene	0.633	6.3	26.0	1	
trans-1,2-Dichloroethene	0.633	6.3	30.0	1	
trans-1,3-Dichloropropene	0.633	6.3	24.0	1	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	110	80 - 120	
4-Bromofluorobenzene	101	74 - 121	
Dibromofluoromethane	103	80 - 120	
Toluene-d8	105	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:24

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.506	5.1	18.0	.8	
1,1,1-Trichloroethane	0.506	5.1	22.0	.8	
1,1,2,2-Tetrachloroethane	0.506	5.1	14.0	.8	
1,1,2-Trichloroethane	0.506	5.1	16.0	.8	
1,1-Dichloroethane	1.01	5.1	22.0	.8	
1,1-Dichloroethene	0.506	5.1	20.0	.8	
1,1-Dichloropropene	0.506	5.1	19.0	.8	
1,2,3-Trichlorobenzene	0.506	5.1	15.0	.8	
1,2,3-Trichloropropane	0.648	5.1	13.0	.8	
1,2,4-Trichlorobenzene	0.506	5.1	15.0	.8	
1,2,4-Trimethylbenzene	0.506	5.1	20.0	.8	
1,2-Dibromo-3-chloropropane	0.506	5.1	12.0	.8	
1,2-Dibromoethane	0.506	5.1	14.0	.8	
1,2-Dichlorobenzene	0.506	5.1	17.0	.8	
1,2-Dichloroethane	0.506	5.1	18.0	.8	
1,2-Dichloropropane	0.506	5.1	20.0	.8	
1,3,5-Trimethylbenzene	0.506	5.1	20.0	.8	
1,3-Dichlorobenzene	0.506	5.1	19.0	.8	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:24

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.506	5.1	16.0	.8	
1,4-Dichlorobenzene	0.506	5.1	17.0	.8	
2,2-Dichloropropane	0.506	5.1	21.0	.8	
2-Butanone	2.53	100	11.0	.8	
2-Chloroethyl vinyl ether	0.506	10	13.0	.8	
2-Chlorotoluene	0.506	5.1	19.0	.8	
2-Hexanone	2.53	10	8.10	.8	
4-Chlorotoluene	0.506	5.1	20.0	.8	
4-Methyl-2-pentanone	2.53	10	14.0	.8	
Acetone	2.53	100	8.50	.8	
Acrolein	20.3	100	20.3	.8	ND
Acrylonitrile	2.53	100	2.53	.8	ND
Benzene	0.506	5.1	22.0	.8	
Bromobenzene	0.506	5.1	18.0	.8	
Bromochloromethane	0.506	5.1	18.0	.8	
Bromodichloromethane	0.506	5.1	19.0	.8	
Bromoform	0.506	5.1	14.0	.8	
Bromomethane	1.01	10	22.0	.8	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:24

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.506	5.1	16.0	.8	
Carbon tetrachloride	0.506	5.1	22.0	.8	
Chlorobenzene	0.506	5.1	19.0	.8	
Chlorodibromomethane	0.506	5.1	15.0	.8	
Chloroethane	1.01	10	22.0	.8	
Chloroform	0.506	5.1	21.0	.8	
Chloromethane	2.03	10	20.0	.8	
Dibromomethane	0.506	5.1	16.0	.8	
Dichlorodifluoromethane	1.01	10	16.0	.8	
Ethylbenzene	0.506	5.1	21.0	.8	
Hexachlorobutadiene	0.506	5.1	19.0	.8	
Isopropylbenzene	0.506	5.1	20.0	.8	
Methylene chloride	1.01	5.1	19.0	.8	
Naphthalene	0.506	10	11.0	.8	
Styrene	0.506	5.1	20.0	.8	
Tetrachloroethene	0.506	5.1	20.0	.8	
Toluene	0.506	5.1	22.0	.8	
Trichloroethene	0.506	5.1	21.0	.8	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:24

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.01	10	20.0	.8	
Vinyl acetate	1.01	10	9.40	.8	
Vinyl chloride	1.01	10	20.0	.8	
cis-1,2-Dichloroethene	0.506	5.1	20.0	.8	
cis-1,3-Dichloropropene	0.506	5.1	17.0	.8	
m-Xylene	0.506	5.1	44.0	.8	Z
n-Butylbenzene	0.506	5.1	23.0	.8	
n-Propylbenzene	0.506	5.1	21.0	.8	
o-Xylene	0.506	5.1	22.0	.8	
p-Isopropyltoluene	0.506	5.1	19.0	.8	
p-Xylene		5.1		.8	Z
sec-Butylbenzene	0.506	5.1	21.0	.8	
tert-Butylbenzene	0.506	5.1	19.0	.8	
trans-1,2-Dichloroethene	0.506	5.1	22.0	.8	
trans-1,3-Dichloropropene	0.506	5.1	16.0	.8	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	106	80 - 120	
4-Bromofluorobenzene	98.7	74 - 121	
Dibromofluoromethane	98.5	80 - 120	
Toluene-d8	99.0	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.549	5.5	0.549	.9	ND
1,1,1-Trichloroethane	0.549	5.5	0.549	.9	ND
1,1,2,2-Tetrachloroethane	0.549	5.5	0.549	.9	ND
1,1,2-Trichloroethane	0.549	5.5	0.549	.9	ND
1,1-Dichloroethane	1.10	5.5	1.10	.9	ND
1,1-Dichloroethene	0.549	5.5	0.549	.9	ND
1,1-Dichloropropene	0.549	5.5	0.549	.9	ND
1,2,3-Trichlorobenzene	0.549	5.5	0.549	.9	ND
1,2,3-Trichloropropane	0.702	5.5	0.702	.9	ND
1,2,4-Trichlorobenzene	0.549	5.5	0.549	.9	ND
1,2,4-Trimethylbenzene	0.549	5.5	0.549	.9	ND
1,2-Dibromo-3-chloropropane	0.549	5.5	0.549	.9	ND
1,2-Dibromoethane	0.549	5.5	0.549	.9	ND
1,2-Dichlorobenzene	0.549	5.5	0.549	.9	ND
1,2-Dichloroethane	0.549	5.5	0.549	.9	ND
1,2-Dichloropropane	0.549	5.5	0.549	.9	ND
1,3,5-Trimethylbenzene	0.549	5.5	0.549	.9	ND
1,3-Dichlorobenzene	0.549	5.5	0.549	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.549	5.5	0.549	.9	ND
1,4-Dichlorobenzene	0.549	5.5	0.549	.9	ND
2,2-Dichloropropane	0.549	5.5	0.549	.9	ND
2-Butanone	2.74	110	2.74	.9	ND
2-Chloroethyl vinyl ether	0.549	11	0.549	.9	ND
2-Chlorotoluene	0.549	5.5	0.549	.9	ND
2-Hexanone	2.74	11	2.74	.9	ND
4-Chlorotoluene	0.549	5.5	0.549	.9	ND
4-Methyl-2-pentanone	2.74	11	2.74	.9	ND
Acetone	2.74	110	2.74	.9	ND
Acrolein	22.0	110	22.0	.9	ND
Acrylonitrile	2.74	110	2.74	.9	ND
Benzene	0.549	5.5	0.549	.9	ND
Bromobenzene	0.549	5.5	0.549	.9	ND
Bromochloromethane	0.549	5.5	0.549	.9	ND
Bromodichloromethane	0.549	5.5	0.549	.9	ND
Bromoform	0.549	5.5	0.549	.9	ND
Bromomethane	1.10	11	1.10	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:56
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.549	5.5	0.549	.9	ND
Carbon tetrachloride	0.549	5.5	0.549	.9	ND
Chlorobenzene	0.549	5.5	0.549	.9	ND
Chlorodibromomethane	0.549	5.5	0.549	.9	ND
Chloroethane	1.10	11	1.10	.9	ND
Chloroform	0.549	5.5	0.549	.9	ND
Chloromethane	2.20	11	2.20	.9	ND
Dibromomethane	0.549	5.5	0.549	.9	ND
Dichlorodifluoromethane	1.10	11	1.10	.9	ND
Ethylbenzene	0.549	5.5	0.549	.9	ND
Hexachlorobutadiene	0.549	5.5	0.549	.9	ND
Isopropylbenzene	0.549	5.5	0.549	.9	ND
Methylene chloride	1.10	5.5	1.10	.9	ND
Naphthalene	0.549	11	0.570	.9	J
Styrene	0.549	5.5	2.00	.9	J
Tetrachloroethene	0.549	5.5	0.549	.9	ND
Toluene	0.549	5.5	0.549	.9	ND
Trichloroethene	0.549	5.5	0.549	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 17:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.10	11	1.10	.9	ND
Vinyl acetate	1.10	11	1.10	.9	ND
Vinyl chloride	1.10	11	1.10	.9	ND
cis-1,2-Dichloroethene	0.549	5.5	0.549	.9	ND
cis-1,3-Dichloropropene	0.549	5.5	0.549	.9	ND
m-Xylene	0.549	5.5	0.549	.9	ND
n-Butylbenzene	0.549	5.5	0.549	.9	ND
n-Propylbenzene	0.549	5.5	0.549	.9	ND
o-Xylene	0.549	5.5	0.549	.9	ND
p-Isopropyltoluene	0.549	5.5	0.549	.9	ND
p-Xylene		5.5		.9	ND
sec-Butylbenzene	0.549	5.5	0.549	.9	ND
tert-Butylbenzene	0.549	5.5	0.549	.9	ND
trans-1,2-Dichloroethene	0.549	5.5	0.549	.9	ND
trans-1,3-Dichloropropene	0.549	5.5	0.549	.9	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	80 - 120	
4-Bromofluorobenzene	100	74 - 121	
Dibromofluoromethane	99.5	80 - 120	
Toluene-d8	100	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:28

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,1-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1,2,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,2-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1-Dichloroethane	0.976	4.9	0.976	.8	ND
1,1-Dichloroethene	0.488	4.9	0.488	.8	ND
1,1-Dichloropropene	0.488	4.9	0.488	.8	ND
1,2,3-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,3-Trichloropropane	0.624	4.9	0.624	.8	ND
1,2,4-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,4-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,2-Dibromo-3-chloropropane	0.488	4.9	0.488	.8	ND
1,2-Dibromoethane	0.488	4.9	0.488	.8	ND
1,2-Dichlorobenzene	0.488	4.9	0.488	.8	ND
1,2-Dichloroethane	0.488	4.9	0.488	.8	ND
1,2-Dichloropropane	0.488	4.9	0.488	.8	ND
1,3,5-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,3-Dichlorobenzene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:28
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.488	4.9	0.488	.8	ND
1,4-Dichlorobenzene	0.488	4.9	0.488	.8	ND
2,2-Dichloropropane	0.488	4.9	0.488	.8	ND
2-Butanone	2.44	98	2.44	.8	ND
2-Chloroethyl vinyl ether	0.488	9.8	0.488	.8	ND
2-Chlorotoluene	0.488	4.9	0.488	.8	ND
2-Hexanone	2.44	9.8	2.44	.8	ND
4-Chlorotoluene	0.488	4.9	0.488	.8	ND
4-Methyl-2-pentanone	2.44	9.8	2.44	.8	ND
Acetone	2.44	98	2.44	.8	ND
Acrolein	19.5	98	19.5	.8	ND
Acrylonitrile	2.44	98	2.44	.8	ND
Benzene	0.488	4.9	0.488	.8	ND
Bromobenzene	0.488	4.9	0.488	.8	ND
Bromochloromethane	0.488	4.9	0.488	.8	ND
Bromodichloromethane	0.488	4.9	0.488	.8	ND
Bromoform	0.488	4.9	0.488	.8	ND
Bromomethane	0.976	9.8	0.976	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:28
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.488	4.9	0.488	.8	ND
Carbon tetrachloride	0.488	4.9	0.488	.8	ND
Chlorobenzene	0.488	4.9	0.488	.8	ND
Chlorodibromomethane	0.488	4.9	0.488	.8	ND
Chloroethane	0.976	9.8	0.976	.8	ND
Chloroform	0.488	4.9	0.488	.8	ND
Chloromethane	1.95	9.8	1.95	.8	ND
Dibromomethane	0.488	4.9	0.488	.8	ND
Dichlorodifluoromethane	0.976	9.8	0.976	.8	ND
Ethylbenzene	0.488	4.9	0.488	.8	ND
Hexachlorobutadiene	0.488	4.9	0.488	.8	ND
Isopropylbenzene	0.488	4.9	0.488	.8	ND
Methylene chloride	0.976	4.9	0.976	.8	ND
Naphthalene	0.488	9.8	0.488	.8	ND
Styrene	0.488	4.9	0.488	.8	ND
Tetrachloroethene	0.488	4.9	0.488	.8	ND
Toluene	0.488	4.9	0.488	.8	ND
Trichloroethene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:28

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.976	9.8	0.976	.8	ND
Vinyl acetate	0.976	9.8	0.976	.8	ND
Vinyl chloride	0.976	9.8	0.976	.8	ND
cis-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
cis-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND
m-Xylene	0.488	4.9	0.488	.8	ND
n-Butylbenzene	0.488	4.9	0.488	.8	ND
n-Propylbenzene	0.488	4.9	0.488	.8	ND
o-Xylene	0.488	4.9	0.488	.8	ND
p-Isopropyltoluene	0.488	4.9	0.488	.8	ND
p-Xylene		4.9		.8	ND
sec-Butylbenzene	0.488	4.9	0.488	.8	ND
tert-Butylbenzene	0.488	4.9	0.488	.8	ND
trans-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
trans-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	80 - 120	
4-Bromofluorobenzene	104	74 - 121	
Dibromofluoromethane	99.0	80 - 120	
Toluene-d8	97.9	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:59

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,1-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1,2,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,2-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1-Dichloroethane	0.976	4.9	0.976	.8	ND
1,1-Dichloroethene	0.488	4.9	0.488	.8	ND
1,1-Dichloropropene	0.488	4.9	0.488	.8	ND
1,2,3-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,3-Trichloropropane	0.624	4.9	0.624	.8	ND
1,2,4-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,4-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,2-Dibromo-3-chloropropane	0.488	4.9	0.488	.8	ND
1,2-Dibromoethane	0.488	4.9	0.488	.8	ND
1,2-Dichlorobenzene	0.488	4.9	0.488	.8	ND
1,2-Dichloroethane	0.488	4.9	0.488	.8	ND
1,2-Dichloropropane	0.488	4.9	0.488	.8	ND
1,3,5-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,3-Dichlorobenzene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:59

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.488	4.9	0.488	.8	ND
1,4-Dichlorobenzene	0.488	4.9	0.488	.8	ND
2,2-Dichloropropane	0.488	4.9	0.488	.8	ND
2-Butanone	2.44	98	2.44	.8	ND
2-Chloroethyl vinyl ether	0.488	9.8	0.488	.8	ND
2-Chlorotoluene	0.488	4.9	0.488	.8	ND
2-Hexanone	2.44	9.8	2.44	.8	ND
4-Chlorotoluene	0.488	4.9	0.488	.8	ND
4-Methyl-2-pentanone	2.44	9.8	2.44	.8	ND
Acetone	2.44	98	2.44	.8	ND
Acrolein	19.5	98	19.5	.8	ND
Acrylonitrile	2.44	98	2.44	.8	ND
Benzene	0.488	4.9	0.488	.8	ND
Bromobenzene	0.488	4.9	0.488	.8	ND
Bromochloromethane	0.488	4.9	0.488	.8	ND
Bromodichloromethane	0.488	4.9	0.488	.8	ND
Bromoform	0.488	4.9	0.488	.8	ND
Bromomethane	0.976	9.8	0.976	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:59
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.488	4.9	0.488	.8	ND
Carbon tetrachloride	0.488	4.9	0.488	.8	ND
Chlorobenzene	0.488	4.9	0.488	.8	ND
Chlorodibromomethane	0.488	4.9	0.488	.8	ND
Chloroethane	0.976	9.8	0.976	.8	ND
Chloroform	0.488	4.9	0.488	.8	ND
Chloromethane	1.95	9.8	1.95	.8	ND
Dibromomethane	0.488	4.9	0.488	.8	ND
Dichlorodifluoromethane	0.976	9.8	0.976	.8	ND
Ethylbenzene	0.488	4.9	0.488	.8	ND
Hexachlorobutadiene	0.488	4.9	0.488	.8	ND
Isopropylbenzene	0.488	4.9	0.488	.8	ND
Methylene chloride	0.976	4.9	0.976	.8	ND
Naphthalene	0.488	9.8	0.488	.8	ND
Styrene	0.488	4.9	0.488	.8	ND
Tetrachloroethene	0.488	4.9	0.488	.8	ND
Toluene	0.488	4.9	0.488	.8	ND
Trichloroethene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 18:59
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.976	9.8	0.976	.8	ND
Vinyl acetate	0.976	9.8	0.976	.8	ND
Vinyl chloride	0.976	9.8	0.976	.8	ND
cis-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
cis-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND
m-Xylene	0.488	4.9	0.488	.8	ND
n-Butylbenzene	0.488	4.9	0.488	.8	ND
n-Propylbenzene	0.488	4.9	0.488	.8	ND
o-Xylene	0.488	4.9	0.488	.8	ND
p-Isopropyltoluene	0.488	4.9	0.488	.8	ND
p-Xylene		4.9		.8	ND
sec-Butylbenzene	0.488	4.9	0.488	.8	ND
tert-Butylbenzene	0.488	4.9	0.488	.8	ND
trans-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
trans-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	80 - 120	
4-Bromofluorobenzene	104	74 - 121	
Dibromofluoromethane	101	80 - 120	
Toluene-d8	101	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-8-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 19:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.513	5.1	0.513	.8	ND
1,1,1-Trichloroethane	0.513	5.1	0.513	.8	ND
1,1,2,2-Tetrachloroethane	0.513	5.1	0.513	.8	ND
1,1,2-Trichloroethane	0.513	5.1	0.513	.8	ND
1,1-Dichloroethane	1.03	5.1	1.03	.8	ND
1,1-Dichloroethene	0.513	5.1	0.513	.8	ND
1,1-Dichloropropene	0.513	5.1	0.513	.8	ND
1,2,3-Trichlorobenzene	0.513	5.1	0.513	.8	ND
1,2,3-Trichloropropane	0.656	5.1	0.656	.8	ND
1,2,4-Trichlorobenzene	0.513	5.1	0.513	.8	ND
1,2,4-Trimethylbenzene	0.513	5.1	0.513	.8	ND
1,2-Dibromo-3-chloropropane	0.513	5.1	0.513	.8	ND
1,2-Dibromoethane	0.513	5.1	0.513	.8	ND
1,2-Dichlorobenzene	0.513	5.1	0.513	.8	ND
1,2-Dichloroethane	0.513	5.1	0.513	.8	ND
1,2-Dichloropropane	0.513	5.1	0.513	.8	ND
1,3,5-Trimethylbenzene	0.513	5.1	3.50	.8	J
1,3-Dichlorobenzene	0.513	5.1	0.513	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 19:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.513	5.1	0.513	.8	ND
1,4-Dichlorobenzene	0.513	5.1	0.513	.8	ND
2,2-Dichloropropane	0.513	5.1	0.513	.8	ND
2-Butanone	2.56	100	2.56	.8	ND
2-Chloroethyl vinyl ether	0.513	10	0.513	.8	ND
2-Chlorotoluene	0.513	5.1	0.513	.8	ND
2-Hexanone	2.56	10	2.56	.8	ND
4-Chlorotoluene	0.513	5.1	0.513	.8	ND
4-Methyl-2-pentanone	2.56	10	2.56	.8	ND
Acetone	2.56	100	5.90	.8	J
Acrolein	20.5	100	20.5	.8	ND
Acrylonitrile	2.56	100	2.56	.8	ND
Benzene	0.513	5.1	0.513	.8	ND
Bromobenzene	0.513	5.1	0.513	.8	ND
Bromochloromethane	0.513	5.1	0.513	.8	ND
Bromodichloromethane	0.513	5.1	0.513	.8	ND
Bromoform	0.513	5.1	0.513	.8	ND
Bromomethane	1.03	10	1.03	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 19:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.513	5.1	0.513	.8	ND
Carbon tetrachloride	0.513	5.1	0.513	.8	ND
Chlorobenzene	0.513	5.1	0.513	.8	ND
Chlorodibromomethane	0.513	5.1	0.513	.8	ND
Chloroethane	1.03	10	1.03	.8	ND
Chloroform	0.513	5.1	0.513	.8	ND
Chloromethane	2.05	10	2.05	.8	ND
Dibromomethane	0.513	5.1	0.513	.8	ND
Dichlorodifluoromethane	1.03	10	1.03	.8	ND
Ethylbenzene	0.513	5.1	0.513	.8	ND
Hexachlorobutadiene	0.513	5.1	0.513	.8	ND
Isopropylbenzene	0.513	5.1	1.40	.8	J
Methylene chloride	1.03	5.1	1.03	.8	ND
Naphthalene	0.513	10	0.513	.8	ND
Styrene	0.513	5.1	0.513	.8	ND
Tetrachloroethene	0.513	5.1	0.513	.8	ND
Toluene	0.513	5.1	0.513	.8	ND
Trichloroethene	0.513	5.1	0.513	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 19:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.03	10	1.03	.8	ND
Vinyl acetate	1.03	10	1.03	.8	ND
Vinyl chloride	1.03	10	1.03	.8	ND
cis-1,2-Dichloroethene	0.513	5.1	0.513	.8	ND
cis-1,3-Dichloropropene	0.513	5.1	0.513	.8	ND
m-Xylene	0.513	5.1	0.513	.8	ND
n-Butylbenzene	0.513	5.1	0.513	.8	ND
n-Propylbenzene	0.513	5.1	0.513	.8	ND
o-Xylene	0.513	5.1	0.513	.8	ND
p-Isopropyltoluene	0.513	5.1	0.513	.8	ND
p-Xylene		5.1		.8	ND
sec-Butylbenzene	0.513	5.1	0.513	.8	ND
tert-Butylbenzene	0.513	5.1	0.513	.8	ND
trans-1,2-Dichloroethene	0.513	5.1	0.513	.8	ND
trans-1,3-Dichloropropene	0.513	5.1	0.513	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	112	80 - 120	
4-Bromofluorobenzene	259	74 - 121	*
Dibromofluoromethane	106	80 - 120	
Toluene-d8	91.8	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.556	5.6	0.556	.9	ND
1,1,1-Trichloroethane	0.556	5.6	0.556	.9	ND
1,1,2,2-Tetrachloroethane	0.556	5.6	0.556	.9	ND
1,1,2-Trichloroethane	0.556	5.6	0.556	.9	ND
1,1-Dichloroethane	1.11	5.6	1.11	.9	ND
1,1-Dichloroethene	0.556	5.6	0.556	.9	ND
1,1-Dichloropropene	0.556	5.6	0.556	.9	ND
1,2,3-Trichlorobenzene	0.556	5.6	0.556	.9	ND
1,2,3-Trichloropropane	0.711	5.6	0.711	.9	ND
1,2,4-Trichlorobenzene	0.556	5.6	0.556	.9	ND
1,2,4-Trimethylbenzene	0.556	5.6	0.556	.9	ND
1,2-Dibromo-3-chloropropane	0.556	5.6	0.556	.9	ND
1,2-Dibromoethane	0.556	5.6	0.556	.9	ND
1,2-Dichlorobenzene	0.556	5.6	0.556	.9	ND
1,2-Dichloroethane	0.556	5.6	0.556	.9	ND
1,2-Dichloropropane	0.556	5.6	0.556	.9	ND
1,3,5-Trimethylbenzene	0.556	5.6	0.556	.9	ND
1,3-Dichlorobenzene	0.556	5.6	0.556	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.556	5.6	0.556	.9	ND
1,4-Dichlorobenzene	0.556	5.6	0.556	.9	ND
2,2-Dichloropropane	0.556	5.6	0.556	.9	ND
2-Butanone	2.78	110	2.78	.9	ND
2-Chloroethyl vinyl ether	0.556	11	0.556	.9	ND
2-Chlorotoluene	0.556	5.6	0.556	.9	ND
2-Hexanone	2.78	11	2.78	.9	ND
4-Chlorotoluene	0.556	5.6	0.556	.9	ND
4-Methyl-2-pentanone	2.78	11	2.78	.9	ND
Acetone	2.78	110	2.78	.9	ND
Acrolein	22.2	110	22.2	.9	ND
Acrylonitrile	2.78	110	2.78	.9	ND
Benzene	0.556	5.6	0.556	.9	ND
Bromobenzene	0.556	5.6	0.556	.9	ND
Bromochloromethane	0.556	5.6	0.556	.9	ND
Bromodichloromethane	0.556	5.6	0.556	.9	ND
Bromoform	0.556	5.6	0.556	.9	ND
Bromomethane	1.11	11	1.11	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.556	5.6	0.556	.9	ND
Carbon tetrachloride	0.556	5.6	0.556	.9	ND
Chlorobenzene	0.556	5.6	0.556	.9	ND
Chlorodibromomethane	0.556	5.6	0.556	.9	ND
Chloroethane	1.11	11	1.11	.9	ND
Chloroform	0.556	5.6	0.556	.9	ND
Chloromethane	2.22	11	2.22	.9	ND
Dibromomethane	0.556	5.6	0.556	.9	ND
Dichlorodifluoromethane	1.11	11	1.11	.9	ND
Ethylbenzene	0.556	5.6	0.556	.9	ND
Hexachlorobutadiene	0.556	5.6	0.556	.9	ND
Isopropylbenzene	0.556	5.6	0.556	.9	ND
Methylene chloride	1.11	5.6	1.11	.9	ND
Naphthalene	0.556	11	0.556	.9	ND
Styrene	0.556	5.6	0.556	.9	ND
Tetrachloroethene	0.556	5.6	0.556	.9	ND
Toluene	0.556	5.6	0.556	.9	ND
Trichloroethene	0.556	5.6	0.556	.9	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.11	11	1.11	.9	ND
Vinyl acetate	1.11	11	1.11	.9	ND
Vinyl chloride	1.11	11	1.11	.9	ND
cis-1,2-Dichloroethene	0.556	5.6	0.556	.9	ND
cis-1,3-Dichloropropene	0.556	5.6	0.556	.9	ND
m-Xylene	0.556	5.6	0.556	.9	ND
n-Butylbenzene	0.556	5.6	0.556	.9	ND
n-Propylbenzene	0.556	5.6	0.556	.9	ND
o-Xylene	0.556	5.6	0.556	.9	ND
p-Isopropyltoluene	0.556	5.6	0.556	.9	ND
p-Xylene		5.6		.9	ND
sec-Butylbenzene	0.556	5.6	0.556	.9	ND
tert-Butylbenzene	0.556	5.6	0.556	.9	ND
trans-1,2-Dichloroethene	0.556	5.6	0.556	.9	ND
trans-1,3-Dichloropropene	0.556	5.6	0.556	.9	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	89.5	80 - 120	
4-Bromofluorobenzene	101	74 - 121	
Dibromofluoromethane	91.4	80 - 120	
Toluene-d8	96.1	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:34

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,1-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1,2,2-Tetrachloroethane	0.488	4.9	0.488	.8	ND
1,1,2-Trichloroethane	0.488	4.9	0.488	.8	ND
1,1-Dichloroethane	0.976	4.9	0.976	.8	ND
1,1-Dichloroethene	0.488	4.9	0.488	.8	ND
1,1-Dichloropropene	0.488	4.9	0.488	.8	ND
1,2,3-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,3-Trichloropropane	0.624	4.9	0.624	.8	ND
1,2,4-Trichlorobenzene	0.488	4.9	0.488	.8	ND
1,2,4-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,2-Dibromo-3-chloropropane	0.488	4.9	0.488	.8	ND
1,2-Dibromoethane	0.488	4.9	0.488	.8	ND
1,2-Dichlorobenzene	0.488	4.9	0.488	.8	ND
1,2-Dichloroethane	0.488	4.9	0.488	.8	ND
1,2-Dichloropropane	0.488	4.9	0.488	.8	ND
1,3,5-Trimethylbenzene	0.488	4.9	0.488	.8	ND
1,3-Dichlorobenzene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS9
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:34
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.488	4.9	0.488	.8	ND
1,4-Dichlorobenzene	0.488	4.9	0.488	.8	ND
2,2-Dichloropropane	0.488	4.9	0.488	.8	ND
2-Butanone	2.44	98	2.44	.8	ND
2-Chloroethyl vinyl ether	0.488	9.8	0.488	.8	ND
2-Chlorotoluene	0.488	4.9	0.488	.8	ND
2-Hexanone	2.44	9.8	2.44	.8	ND
4-Chlorotoluene	0.488	4.9	0.488	.8	ND
4-Methyl-2-pentanone	2.44	9.8	2.44	.8	ND
Acetone	2.44	98	2.44	.8	ND
Acrolein	19.5	98	19.5	.8	ND
Acrylonitrile	2.44	98	2.44	.8	ND
Benzene	0.488	4.9	0.488	.8	ND
Bromobenzene	0.488	4.9	0.488	.8	ND
Bromochloromethane	0.488	4.9	0.488	.8	ND
Bromodichloromethane	0.488	4.9	0.488	.8	ND
Bromoform	0.488	4.9	0.488	.8	ND
Bromomethane	0.976	9.8	0.976	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:34

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.488	4.9	0.488	.8	ND
Carbon tetrachloride	0.488	4.9	0.488	.8	ND
Chlorobenzene	0.488	4.9	0.488	.8	ND
Chlorodibromomethane	0.488	4.9	0.488	.8	ND
Chloroethane	0.976	9.8	0.976	.8	ND
Chloroform	0.488	4.9	0.488	.8	ND
Chloromethane	1.95	9.8	1.95	.8	ND
Dibromomethane	0.488	4.9	0.488	.8	ND
Dichlorodifluoromethane	0.976	9.8	0.976	.8	ND
Ethylbenzene	0.488	4.9	0.488	.8	ND
Hexachlorobutadiene	0.488	4.9	0.488	.8	ND
Isopropylbenzene	0.488	4.9	0.488	.8	ND
Methylene chloride	0.976	4.9	0.976	.8	ND
Naphthalene	0.488	9.8	0.488	.8	ND
Styrene	0.488	4.9	0.488	.8	ND
Tetrachloroethene	0.488	4.9	0.488	.8	ND
Toluene	0.488	4.9	0.488	.8	ND
Trichloroethene	0.488	4.9	0.488	.8	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97659

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS9

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 18-MAY-01 20:34

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.976	9.8	0.976	.8	ND
Vinyl acetate	0.976	9.8	0.976	.8	ND
Vinyl chloride	0.976	9.8	0.976	.8	ND
cis-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
cis-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND
m-Xylene	0.488	4.9	0.488	.8	ND
n-Butylbenzene	0.488	4.9	0.488	.8	ND
n-Propylbenzene	0.488	4.9	0.488	.8	ND
o-Xylene	0.488	4.9	0.488	.8	ND
p-Isopropyltoluene	0.488	4.9	0.488	.8	ND
p-Xylene		4.9		.8	ND
sec-Butylbenzene	0.488	4.9	0.488	.8	ND
tert-Butylbenzene	0.488	4.9	0.488	.8	ND
trans-1,2-Dichloroethene	0.488	4.9	0.488	.8	ND
trans-1,3-Dichloropropene	0.488	4.9	0.488	.8	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	86.1	80 - 120	
4-Bromofluorobenzene	93.0	74 - 121	
Dibromofluoromethane	87.7	80 - 120	
Toluene-d8	96.1	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97946

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11
005-2TB1-S-0517-01	L0105404-12

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 01-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water
% Solids: 0 Initial Calibration ID: HPMS6 21-MAY-2001
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 22-MAY-01 23:46
Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	5.0	0.250	1	ND
1,1,1-Trichloroethane	0.250	5.0	0.250	1	ND
1,1,2,2-Tetrachloroethane	0.125	5.0	0.125	1	ND
1,1,2-Trichloroethane	0.250	5.0	0.250	1	ND
1,1-Dichloroethane	0.125	5.0	0.125	1	ND
1,1-Dichloroethene	0.500	5.0	0.500	1	ND
1,1-Dichloropropene	0.250	5.0	0.250	1	ND
1,2,3-Trichlorobenzene	0.125	5.0	0.125	1	ND
1,2,3-Trichloropropane	0.750	5.0	0.750	1	ND
1,2,4-Trichlorobenzene	0.200	5.0	0.200	1	ND
1,2,4-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,2-Dibromo-3-chloropropane	1.00	5.0	1.00	1	ND
1,2-Dibromoethane	0.250	5.0	0.250	1	ND
1,2-Dichlorobenzene	0.125	5.0	0.125	1	ND
1,2-Dichloroethane	0.250	5.0	0.250	1	ND
1,2-Dichloropropane	0.125	5.0	0.125	1	ND
1,3,5-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,3-Dichlorobenzene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 22-MAY-01 23:46

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.200	5.0	0.200	1	ND
1,4-Dichlorobenzene	0.125	5.0	0.125	1	ND
2,2-Dichloropropane	0.250	5.0	0.250	1	ND
2-Butanone	2.50	100	2.50	1	ND
2-Chloroethyl vinyl ether	10.0	10	10.0	1	ND
2-Chlorotoluene	0.125	5.0	0.125	1	ND
2-Hexanone	2.50	10	2.50	1	ND
4-Chlorotoluene	0.250	5.0	0.250	1	ND
4-Methyl-2-pentanone	2.50	10	2.50	1	ND
Acetone	2.50	100	2.50	1	ND
Acrolein	20.0	100	20.0	1	ND
Acrylonitrile	2.50	100	2.50	1	ND
Benzene	0.125	5.0	0.125	1	ND
Bromobenzene	0.125	5.0	0.125	1	ND
Bromochloromethane	0.200	5.0	0.200	1	ND
Bromodichloromethane	0.250	5.0	0.250	1	ND
Bromoform	0.540	5.0	0.540	1	ND
Bromomethane	0.500	10	0.500	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water
% Solids: 0 Initial Calibration ID: HPMS6
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 22-MAY-01 23:46
Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.500	5.0	0.500	1	ND
Carbon tetrachloride	0.250	5.0	0.250	1	ND
Chlorobenzene	0.125	5.0	0.125	1	ND
Chlorodibromomethane	0.250	5.0	0.250	1	ND
Chloroethane	0.500	10	0.500	1	ND
Chloroform	0.125	5.0	1.30	1	J
Chloromethane	0.250	10	0.250	1	ND
Dibromomethane	0.250	5.0	0.250	1	ND
Dichlorodifluoromethane	0.250	10	0.250	1	ND
Ethylbenzene	0.250	5.0	0.250	1	ND
Hexachlorobutadiene	0.250	5.0	0.250	1	ND
Isopropylbenzene	0.250	5.0	0.250	1	ND
Methylene chloride	0.250	5.0	0.250	1	ND
Naphthalene	0.200	10	0.200	1	ND
Styrene	0.125	5.0	0.125	1	ND
Tetrachloroethene	0.250	5.0	0.250	1	ND
Toluene	0.250	5.0	0.250	1	ND
Trichloroethene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 22-MAY-01 23:46

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.250	10	0.250	1	ND
Vinyl acetate	2.50	10	2.50	1	ND
Vinyl chloride	0.250	10	0.250	1	ND
cis-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
cis-1,3-Dichloropropene	0.250	5.0	0.250	1	ND
m-Xylene	0.330	5.0	0.330	1	ND
n-Butylbenzene	0.250	5.0	0.250	1	ND
n-Propylbenzene	0.125	5.0	0.125	1	ND
o-Xylene	0.250	5.0	0.250	1	ND
p-Isopropyltoluene	0.250	5.0	0.250	1	ND
sec-Butylbenzene	0.250	5.0	0.250	1	ND
tert-Butylbenzene	0.250	5.0	0.250	1	ND
trans-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
trans-1,3-Dichloropropene	0.500	5.0	0.500	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	86.3	80 - 120	*
4-Bromofluorobenzene	101	86 - 115	*
Dibromofluoromethane	89.0	86 - 118	*
Toluene-d8	98.1	88 - 110	*

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB1-S-0517-01 Lab Sample ID: L0105404-12 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 00:19

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	5.0	0.250	1	ND
1,1,1-Trichloroethane	0.250	5.0	0.250	1	ND
1,1,2,2-Tetrachloroethane	0.125	5.0	0.125	1	ND
1,1,2-Trichloroethane	0.250	5.0	0.250	1	ND
1,1-Dichloroethane	0.125	5.0	0.125	1	ND
1,1-Dichloroethene	0.500	5.0	0.500	1	ND
1,1-Dichloropropene	0.250	5.0	0.250	1	ND
1,2,3-Trichlorobenzene	0.125	5.0	0.125	1	ND
1,2,3-Trichloropropane	0.750	5.0	0.750	1	ND
1,2,4-Trichlorobenzene	0.200	5.0	0.200	1	ND
1,2,4-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,2-Dibromo-3-chloropropane	1.00	5.0	1.00	1	ND
1,2-Dibromoethane	0.250	5.0	0.250	1	ND
1,2-Dichlorobenzene	0.125	5.0	0.125	1	ND
1,2-Dichloroethane	0.250	5.0	0.250	1	ND
1,2-Dichloropropane	0.125	5.0	0.125	1	ND
1,3,5-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,3-Dichlorobenzene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB1-S-0517-01 Lab Sample ID: L0105404-12 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 00:19

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.200	5.0	0.200	1	ND
1,4-Dichlorobenzene	0.125	5.0	0.125	1	ND
2,2-Dichloropropane	0.250	5.0	0.250	1	ND
2-Butanone	2.50	100	2.50	1	ND
2-Chloroethyl vinyl ether	10.0	10	10.0	1	ND
2-Chlorotoluene	0.125	5.0	0.125	1	ND
2-Hexanone	2.50	10	2.50	1	ND
4-Chlorotoluene	0.250	5.0	0.250	1	ND
4-Methyl-2-pentanone	2.50	10	2.50	1	ND
Acetone	2.50	100	2.50	1	ND
Acrolein	20.0	100	20.0	1	ND
Acrylonitrile	2.50	100	2.50	1	ND
Benzene	0.125	5.0	0.125	1	ND
Bromobenzene	0.125	5.0	0.125	1	ND
Bromochloromethane	0.200	5.0	0.200	1	ND
Bromodichloromethane	0.250	5.0	0.250	1	ND
Bromoform	0.540	5.0	0.540	1	ND
Bromomethane	0.500	10	0.500	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-2TB1-S-0517-01 Lab Sample ID: L0105404-12 Matrix: Water
% Solids: 0 Initial Calibration ID: HPMS6
Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 00:19
Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.500	5.0	0.500	1	ND
Carbon tetrachloride	0.250	5.0	0.250	1	ND
Chlorobenzene	0.125	5.0	0.125	1	ND
Chlorodibromomethane	0.250	5.0	0.250	1	ND
Chloroethane	0.500	10	0.500	1	ND
Chloroform	0.125	5.0	0.125	1	ND
Chloromethane	0.250	10	0.250	1	ND
Dibromomethane	0.250	5.0	0.250	1	ND
Dichlorodifluoromethane	0.250	10	0.250	1	ND
Ethylbenzene	0.250	5.0	0.250	1	ND
Hexachlorobutadiene	0.250	5.0	0.250	1	ND
Isopropylbenzene	0.250	5.0	0.250	1	ND
Methylene chloride	0.250	5.0	0.450	1	J
Naphthalene	0.200	10	0.200	1	ND
Styrene	0.125	5.0	0.125	1	ND
Tetrachloroethene	0.250	5.0	0.250	1	ND
Toluene	0.250	5.0	0.250	1	ND
Trichloroethene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG97946

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB1-S-0517-01 Lab Sample ID: L0105404-12 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 18-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 00:19

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.250	10	0.250	1	ND
Vinyl acetate	2.50	10	2.50	1	ND
Vinyl chloride	0.250	10	0.250	1	ND
cis-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
cis-1,3-Dichloropropene	0.250	5.0	0.250	1	ND
m-Xylene	0.330	5.0	0.330	1	ND
n-Butylbenzene	0.250	5.0	0.250	1	ND
n-Propylbenzene	0.125	5.0	0.125	1	ND
o-Xylene	0.250	5.0	0.250	1	ND
p-Isopropyltoluene	0.250	5.0	0.250	1	ND
sec-Butylbenzene	0.250	5.0	0.250	1	ND
tert-Butylbenzene	0.250	5.0	0.250	1	ND
trans-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
trans-1,3-Dichloropropene	0.500	5.0	0.500	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	91.5	80 - 120	
4-Bromofluorobenzene	101	86 - 115	
Dibromofluoromethane	94.3	86 - 118	
Toluene-d8	98.5	88 - 110	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270 AAB # : WG98016

Lab Name : Kemron Environmental Services Contract # :

Base/Command : NAS Cecil Field Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe Name: Dennis S. Tepe

Date: 01-JUN-01 Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98016

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3 22-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 15:27

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	1.97	5.0	1.97	1	ND
1,2-Dichlorobenzene	1.91	5.0	1.91	1	ND
1,3-Dichlorobenzene	1.82	5.0	1.82	1	ND
1,4-Dichlorobenzene	1.86	5.0	1.86	1	ND
2,4,5-Trichlorophenol	1.83	5.0	1.83	1	ND
2,4,6-Trichlorophenol	1.72	5.0	1.72	1	ND
2,4-Dichlorophenol	1.88	5.0	1.88	1	ND
2,4-Dimethylphenol	2.08	5.0	2.08	1	ND
2,4-Dinitrophenol	9.02	25	9.02	1	ND
2,4-Dinitrotoluene	1.42	5.0	1.42	1	ND
2,6-Dinitrotoluene	1.66	5.0	1.66	1	ND
2-Chloronaphthalene	1.93	5.0	1.93	1	ND
2-Chlorophenol	1.68	5.0	1.68	1	ND
2-Methylphenol	1.65	5.0	1.65	1	ND
2-Nitroaniline	1.56	25	1.56	1	ND
2-Nitrophenol	1.60	5.0	1.60	1	ND
3,3'-Dichlorobenzidine	4.33	10	4.33	1	ND
3-Methylphenol	1.54	5.0	1.54	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98016

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 15:27

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	1.55	25	1.55	1	ND
4,6-Dinitro-2-methylphenol	2.23	25	2.23	1	ND
4-Bromophenyl-phenylether	2.21	5.0	2.21	1	ND
4-Chloro-3-methylphenol	1.77	5.0	1.77	1	ND
4-Chloroaniline	1.87	5.0	1.87	1	ND
4-Chlorophenyl-phenyl ether	1.74	5.0	1.74	1	ND
4-Methylphenol	1.54	5.0	1.54	1	ND
4-Nitroaniline	1.81	25	1.81	1	ND
4-Nitrophenol	1.64	25	1.64	1	ND
Benzidine	2.12	25	2.12	1	ND
Benzoic acid	4.64	25	4.64	1	ND
Benzyl alcohol	1.54	5.0	1.70	1	J
Bis(2-Chloroethoxy)Methane	1.60	5.0	1.60	1	ND
Bis(2-Chloroethyl)ether	1.59	5.0	1.59	1	ND
Butylbenzylphthalate	2.17	5.0	2.17	1	ND
Di-N-Butylphthalate	5.00	5.0	5.00	1	ND
Di-n-octylphthalate	2.04	5.0	2.04	1	ND
Dibenzofuran	1.86	5.0	1.86	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98016

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS3

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 15:27

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	1.87	5.0	1.87	1	ND
Dimethylphthalate	1.83	5.0	1.83	1	ND
Hexachlorobenzene	2.66	5.0	2.66	1	ND
Hexachlorobutadiene	2.35	5.0	2.35	1	ND
Hexachlorocyclopentadiene	2.61	5.0	2.61	1	ND
Hexachloroethane	1.99	5.0	1.99	1	ND
Isophorone	1.79	5.0	1.79	1	ND
N-Nitroso-di-n-propylamine	1.54	5.0	1.54	1	ND
N-Nitrosodimethylamine	2.50	5.0	2.50	1	ND
N-Nitrosodiphenylamine	4.27	5.0	4.27	1	ND
Nitrobenzene	1.61	5.0	1.61	1	ND
Pentachlorophenol	1.70	25	1.70	1	ND
Phenol	0.730	5.0	0.730	1	ND
bis(2-Chloroisopropyl)ether	1.80	5.0	1.80	1	ND
bis(2-Ethylhexyl)phthalate	2.47	5.0	2.47	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	69.8	10 - 123	
2-Fluorobiphenyl	39.7	43 - 116	*
2-Fluorophenol	23.5	21 - 100	
Nitrobenzene-d5	38.6	35 - 114	
Phenol-d5	17.2	10 - 94	
p-Terphenyl-d14	74.2	33 - 141	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97978
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 01-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 16:37

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	42.9	220	42.9	1	ND
1,2-Dichlorobenzene	43.3	220	43.3	1	ND
1,3-Dichlorobenzene	42.0	220	42.0	1	ND
1,4-Dichlorobenzene	44.5	220	44.5	1	ND
2,4,5-Trichlorophenol	61.7	1100	61.7	1	ND
2,4,6-Trichlorophenol	55.8	220	55.8	1	ND
2,4-Dichlorophenol	53.4	220	53.4	1	ND
2,4-Dimethylphenol	48.9	220	48.9	1	ND
2,4-Dinitrophenol	139	1100	139	1	ND
2,4-Dinitrotoluene	55.8	220	55.8	1	ND
2,6-Dinitrotoluene	52.9	220	52.9	1	ND
2-Chloronaphthalene	52.2	220	52.2	1	ND
2-Chlorophenol	44.4	220	44.4	1	ND
2-Methylphenol	83.1	220	83.1	1	ND
2-Nitroaniline	60.7	1100	60.7	1	ND
2-Nitrophenol	42.6	220	42.6	1	ND
3,3'-Dichlorobenzidine	202	430	202	1	ND
3-Methylphenol	54.3	220	54.3	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 16:37

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	94.9	1100	94.9	1	ND
4,6-Dinitro-2-methylphenol	47.4	1100	47.4	1	ND
4-Bromophenyl-phenylether	49.8	220	49.8	1	ND
4-Chloro-3-methylphenol	60.3	220	60.3	1	ND
4-Chloroaniline	69.9	220	69.9	1	ND
4-Chlorophenyl-phenyl ether	57.8	220	57.8	1	ND
4-Methylphenol	54.3	220	54.3	1	ND
4-Nitroaniline	52.4	1100	52.4	1	ND
4-Nitrophenol	74.7	1100	74.7	1	ND
Benzidine	86.8	1100	86.8	1	ND
Benzoic acid	25.6	1100	25.6	1	ND
Benzyl alcohol	77.9	220	77.9	1	ND
Bis(2-Chloroethoxy)Methane	62.1	220	62.1	1	ND
Bis(2-Chloroethyl)ether	53.1	220	53.1	1	ND
Butylbenzylphthalate	40.6	220	40.6	1	ND
Di-N-Butylphthalate	41.1	220	41.1	1	ND
Di-n-octylphthalate	40.2	220	40.2	1	ND
Dibenzofuran	56.7	220	56.7	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 16:37

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	64.1	220	64.1	1	ND
Dimethylphthalate	59.8	220	59.8	1	ND
Hexachlorobenzene	52.5	220	52.5	1	ND
Hexachlorobutadiene	48.4	220	48.4	1	ND
Hexachlorocyclopentadiene	115	220	115	1	ND
Hexachloroethane	42.8	220	42.8	1	ND
Isophorone	57.1	220	57.1	1	ND
N-Nitrosodimethylamine	32.9	220	32.9	1	ND
N-Nitrosodiphenylamine	62.5	220	62.5	1	ND
N-Nitrosodipropylamine	46.4	220	46.4	1	ND
Nitrobenzene	45.1	220	45.1	1	ND
Pentachlorophenol	26.7	1100	26.7	1	ND
Phenol	41.5	220	41.5	1	ND
bis(2-Chloroisopropyl)ether	54.4	220	54.4	1	ND
bis(2-Ethylhexyl)phthalate	51.9	220	51.9	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	50.8	19 - 122	
2-Fluorobiphenyl	54.4	30 - 115	
2-Fluorophenol	53.5	25 - 121	
Nitrobenzene-d5	52.5	23 - 120	
Phenol-d5	56.3	24 - 113	
p-Terphenyl-d14	76.6	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:08

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	41.2	210	41.2	1	ND
1,2-Dichlorobenzene	41.6	210	41.6	1	ND
1,3-Dichlorobenzene	40.4	210	40.4	1	ND
1,4-Dichlorobenzene	42.8	210	42.8	1	ND
2,4,5-Trichlorophenol	59.3	1000	59.3	1	ND
2,4,6-Trichlorophenol	53.7	210	53.7	1	ND
2,4-Dichlorophenol	51.4	210	51.4	1	ND
2,4-Dimethylphenol	47.0	210	47.0	1	ND
2,4-Dinitrophenol	134	1000	134	1	ND
2,4-Dinitrotoluene	53.6	210	53.6	1	ND
2,6-Dinitrotoluene	50.9	210	50.9	1	ND
2-Chloronaphthalene	50.2	210	50.2	1	ND
2-Chlorophenol	42.7	210	42.7	1	ND
2-Methylphenol	79.9	210	79.9	1	ND
2-Nitroaniline	58.4	1000	58.4	1	ND
2-Nitrophenol	41.0	210	41.0	1	ND
3,3'-Dichlorobenzidine	194	420	194	1	ND
3-Methylphenol	52.3	210	52.3	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:08

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	91.3	1000	91.3	1	ND
4,6-Dinitro-2-methylphenol	45.6	1000	45.6	1	ND
4-Bromophenyl-phenylether	47.9	210	47.9	1	ND
4-Chloro-3-methylphenol	58.0	210	58.0	1	ND
4-Chloroaniline	67.3	210	67.3	1	ND
4-Chlorophenyl-phenyl ether	55.6	210	55.6	1	ND
4-Methylphenol	52.2	210	52.2	1	ND
4-Nitroaniline	50.4	1000	50.4	1	ND
4-Nitrophenol	71.8	1000	71.8	1	ND
Benzidine	83.5	1000	83.5	1	ND
Benzoic acid	24.7	1000	24.7	1	ND
Benzyl alcohol	75.0	210	75.0	1	ND
Bis(2-Chloroethoxy)Methane	59.7	210	59.7	1	ND
Bis(2-Chloroethyl)ether	51.0	210	51.0	1	ND
Butylbenzylphthalate	39.1	210	39.1	1	ND
Di-N-Butylphthalate	39.5	210	39.5	1	ND
Di-n-octylphthalate	38.7	210	38.7	1	ND
Dibenzofuran	54.5	210	54.5	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:08

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	61.6	210	61.6	1	ND
Dimethylphthalate	57.5	210	57.5	1	ND
Hexachlorobenzene	50.5	210	50.5	1	ND
Hexachlorobutadiene	46.6	210	46.6	1	ND
Hexachlorocyclopentadiene	110	210	110	1	ND
Hexachloroethane	41.2	210	41.2	1	ND
Isophorone	54.9	210	54.9	1	ND
N-Nitrosodimethylamine	31.6	210	31.6	1	ND
N-Nitrosodiphenylamine	60.1	210	60.1	1	ND
N-Nitrosodipropylamine	44.7	210	44.7	1	ND
Nitrobenzene	43.4	210	43.4	1	ND
Pentachlorophenol	25.7	1000	25.7	1	ND
Phenol	39.9	210	39.9	1	ND
bis(2-Chloroisopropyl)ether	52.3	210	52.3	1	ND
bis(2-Ethylhexyl)phthalate	49.9	210	49.9	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	34.1	19 - 122	
2-Fluorobiphenyl	37.8	30 - 115	
2-Fluorophenol	39.1	25 - 121	
Nitrobenzene-d5	37.5	23 - 120	
Phenol-d5	40.7	24 - 113	
p-Terphenyl-d14	78.8	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:40

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	41.2	210	1000	1	
1,2-Dichlorobenzene	41.6	210	1100	1	
1,3-Dichlorobenzene	40.4	210	1000	1	
1,4-Dichlorobenzene	42.8	210	1000	1	
2,4,5-Trichlorophenol	59.3	1000	1200	1	
2,4,6-Trichlorophenol	53.7	210	1200	1	
2,4-Dichlorophenol	51.4	210	1100	1	
2,4-Dimethylphenol	47.0	210	1200	1	
2,4-Dinitrophenol	134	1000	1500	1	
2,4-Dinitrotoluene	53.6	210	1700	1	
2,6-Dinitrotoluene	50.9	210	1400	1	
2-Chloronaphthalene	50.2	210	1100	1	
2-Chlorophenol	42.7	210	1100	1	
2-Methylphenol	79.9	210	1100	1	
2-Nitroaniline	58.4	1000	1200	1	
2-Nitrophenol	41.0	210	1100	1	
3,3'-Dichlorobenzidine	194	420	1800	1	
3-Methylphenol	52.3	210	52.3	1	Z

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:40

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	91.3	1000	1600	1	
4,6-Dinitro-2-methylphenol	45.6	1000	1700	1	
4-Bromophenyl-phenylether	47.9	210	1200	1	
4-Chloro-3-methylphenol	58.0	210	1300	1	
4-Chloroaniline	67.3	210	1100	1	
4-Chlorophenyl-phenyl ether	55.6	210	1200	1	
4-Methylphenol	52.2	210	1100	1	
4-Nitroaniline	50.4	1000	2100	1	
4-Nitrophenol	71.8	1000	1500	1	
Benzidine	83.5	1000	83.5	1	NS
Benzoic acid	24.7	1000	670	1	
Benzyl alcohol	75.0	210	1100	1	
Bis(2-Chloroethoxy)Methane	59.7	210	1100	1	
Bis(2-Chloroethyl)ether	51.0	210	1100	1	
Butylbenzylphthalate	39.1	210	1800	1	
Di-N-Butylphthalate	39.5	210	1800	1	
Di-n-octylphthalate	38.7	210	1800	1	
Dibenzofuran	54.5	210	1200	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 17:40

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	61.6	210	1600	1	
Dimethylphthalate	57.5	210	1400	1	
Hexachlorobenzene	50.5	210	1500	1	
Hexachlorobutadiene	46.6	210	1100	1	
Hexachlorocyclopentadiene	110	210	1100	1	
Hexachloroethane	41.2	210	960	1	
Isophorone	54.9	210	1300	1	
N-Nitrosodimethylamine	31.6	210	1100	1	
N-Nitrosodiphenylamine	60.1	210	1500	1	
N-Nitrosodipropylamine	44.7	210	1200	1	
Nitrobenzene	43.4	210	1100	1	
Pentachlorophenol	25.7	1000	1700	1	
Phenol	39.9	210	1100	1	
bis(2-Chloroisopropyl)ether	52.3	210	1100	1	
bis(2-Ethylhexyl)phthalate	49.9	210	1800	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	69.2	19 - 122	
2-Fluorobiphenyl	54.8	30 - 115	
2-Fluorophenol	49.6	25 - 121	
Nitrobenzene-d5	53.3	23 - 120	
Phenol-d5	53.2	24 - 113	
p-Terphenyl-d14	82.3	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS4 24-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:12
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	41.2	210	970	1	
1,2-Dichlorobenzene	41.6	210	980	1	
1,3-Dichlorobenzene	40.4	210	960	1	
1,4-Dichlorobenzene	42.8	210	970	1	
2,4,5-Trichlorophenol	59.3	1000	1200	1	
2,4,6-Trichlorophenol	53.7	210	1100	1	
2,4-Dichlorophenol	51.4	210	1100	1	
2,4-Dimethylphenol	47.0	210	1100	1	
2,4-Dinitrophenol	134	1000	1400	1	
2,4-Dinitrotoluene	53.6	210	1600	1	
2,6-Dinitrotoluene	50.9	210	1300	1	
2-Chloronaphthalene	50.2	210	1000	1	
2-Chlorophenol	42.7	210	1000	1	
2-Methylphenol	79.9	210	1000	1	
2-Nitroaniline	58.4	1000	1200	1	
2-Nitrophenol	41.0	210	1100	1	
3,3'-Dichlorobenzidine	194	420	1800	1	
3-Methylphenol	52.3	210	52.3	1	Z

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS4
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:12
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	91.3	1000	1500	1	
4,6-Dinitro-2-methylphenol	45.6	1000	1700	1	
4-Bromophenyl-phenylether	47.9	210	1200	1	
4-Chloro-3-methylphenol	58.0	210	1300	1	
4-Chloroaniline	67.3	210	1000	1	
4-Chlorophenyl-phenyl ether	55.6	210	1200	1	
4-Methylphenol	52.2	210	1000	1	
4-Nitroaniline	50.4	1000	2000	1	
4-Nitrophenol	71.8	1000	1500	1	
Benzidine	83.5	1000	83.5	1	NS
Benzoic acid	24.7	1000	510	1	
Benzyl alcohol	75.0	210	1000	1	
Bis(2-Chloroethoxy)Methane	59.7	210	1100	1	
Bis(2-Chloroethyl)ether	51.0	210	1000	1	
Butylbenzylphthalate	39.1	210	1700	1	
Di-N-Butylphthalate	39.5	210	1700	1	
Di-n-octylphthalate	38.7	210	1700	1	
Dibenzofuran	54.5	210	1200	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:12

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	61.6	210	1500	1	
Dimethylphthalate	57.5	210	1300	1	
Hexachlorobenzene	50.5	210	1400	1	
Hexachlorobutadiene	46.6	210	1000	1	
Hexachlorocyclopentadiene	110	210	1100	1	
Hexachloroethane	41.2	210	880	1	
Isophorone	54.9	210	1200	1	
N-Nitrosodimethylamine	31.6	210	1000	1	
N-Nitrosodiphenylamine	60.1	210	1500	1	
N-Nitrosodipropylamine	44.7	210	1100	1	
Nitrobenzene	43.4	210	1000	1	
Pentachlorophenol	25.7	1000	1600	1	
Phenol	39.9	210	1100	1	
bis(2-Chloroisopropyl)ether	52.3	210	1000	1	
bis(2-Ethylhexyl)phthalate	49.9	210	1700	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	67.0	19 - 122	
2-Fluorobiphenyl	51.5	30 - 115	
2-Fluorophenol	45.8	25 - 121	
Nitrobenzene-d5	49.8	23 - 120	
Phenol-d5	49.4	24 - 113	
p-Terphenyl-d14	79.5	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 08:53

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	39.7	200	39.7	1	ND
1,2-Dichlorobenzene	40.1	200	40.1	1	ND
1,3-Dichlorobenzene	38.9	200	38.9	1	ND
1,4-Dichlorobenzene	41.3	200	41.3	1	ND
2,4,5-Trichlorophenol	57.1	1000	57.1	1	ND
2,4,6-Trichlorophenol	51.7	200	51.7	1	ND
2,4-Dichlorophenol	49.5	200	49.5	1	ND
2,4-Dimethylphenol	45.3	200	45.3	1	ND
2,4-Dinitrophenol	129	1000	129	1	ND
2,4-Dinitrotoluene	51.7	200	51.7	1	ND
2,6-Dinitrotoluene	49.0	200	49.0	1	ND
2-Chloronaphthalene	48.4	200	48.4	1	ND
2-Chlorophenol	41.1	200	41.1	1	ND
2-Methylphenol	77.0	200	77.0	1	ND
2-Nitroaniline	56.3	1000	56.3	1	ND
2-Nitrophenol	39.5	200	39.5	1	ND
3,3'-Dichlorobenzidine	187	400	187	1	ND
3-Methylphenol	50.4	200	50.4	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 08:53

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	88.0	1000	88.0	1	ND
4,6-Dinitro-2-methylphenol	44.0	1000	44.0	1	ND
4-Bromophenyl-phenylether	46.1	200	46.1	1	ND
4-Chloro-3-methylphenol	55.8	200	55.8	1	ND
4-Chloroaniline	64.8	200	64.8	1	ND
4-Chlorophenyl-phenyl ether	53.6	200	53.6	1	ND
4-Methylphenol	50.3	200	50.3	1	ND
4-Nitroaniline	48.6	1000	48.6	1	ND
4-Nitrophenol	69.2	1000	69.2	1	ND
Benzidine	80.5	1000	80.5	1	ND
Benzoic acid	23.8	1000	23.8	1	ND
Benzyl alcohol	72.2	200	72.2	1	ND
Bis(2-Chloroethoxy)Methane	57.6	200	57.6	1	ND
Bis(2-Chloroethyl)ether	49.2	200	49.2	1	ND
Butylbenzylphthalate	37.6	200	37.6	1	ND
Di-N-Butylphthalate	38.1	200	38.1	1	ND
Di-n-octylphthalate	37.2	200	37.2	1	ND
Dibenzofuran	52.5	200	52.5	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 08:53

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	59.4	200	59.4	1	ND
Dimethylphthalate	55.4	200	55.4	1	ND
Hexachlorobenzene	48.6	200	48.6	1	ND
Hexachlorobutadiene	44.9	200	44.9	1	ND
Hexachlorocyclopentadiene	106	200	106	1	ND
Hexachloroethane	39.7	200	39.7	1	ND
Isophorone	52.9	200	52.9	1	ND
N-Nitrosodimethylamine	30.5	200	30.5	1	ND
N-Nitrosodiphenylamine	57.9	200	57.9	1	ND
N-Nitrosodipropylamine	43.0	200	43.0	1	ND
Nitrobenzene	41.8	200	41.8	1	ND
Pentachlorophenol	24.7	1000	24.7	1	ND
Phenol	38.4	200	38.4	1	ND
bis(2-Chloroisopropyl)ether	50.4	200	50.4	1	ND
bis(2-Ethylhexyl)phthalate	48.1	200	48.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	46.5	19 - 122	
2-Fluorobiphenyl	49.8	30 - 115	
2-Fluorophenol	48.7	25 - 121	
Nitrobenzene-d5	51.6	23 - 120	
Phenol-d5	51.5	24 - 113	
p-Terphenyl-d14	86.8	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	39.7	200	39.7	1	ND
1,2-Dichlorobenzene	40.1	200	40.1	1	ND
1,3-Dichlorobenzene	38.9	200	38.9	1	ND
1,4-Dichlorobenzene	41.3	200	41.3	1	ND
2,4,5-Trichlorophenol	57.1	1000	57.1	1	ND
2,4,6-Trichlorophenol	51.7	200	51.7	1	ND
2,4-Dichlorophenol	49.5	200	49.5	1	ND
2,4-Dimethylphenol	45.3	200	45.3	1	ND
2,4-Dinitrophenol	129	1000	129	1	ND
2,4-Dinitrotoluene	51.7	200	51.7	1	ND
2,6-Dinitrotoluene	49.0	200	49.0	1	ND
2-Chloronaphthalene	48.4	200	48.4	1	ND
2-Chlorophenol	41.1	200	41.1	1	ND
2-Methylphenol	77.0	200	77.0	1	ND
2-Nitroaniline	56.3	1000	56.3	1	ND
2-Nitrophenol	39.5	200	39.5	1	ND
3,3'-Dichlorobenzidine	187	400	187	1	ND
3-Methylphenol	50.4	200	50.4	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	88.0	1000	88.0	1	ND
4,6-Dinitro-2-methylphenol	44.0	1000	44.0	1	ND
4-Bromophenyl-phenylether	46.1	200	46.1	1	ND
4-Chloro-3-methylphenol	55.8	200	55.8	1	ND
4-Chloroaniline	64.8	200	64.8	1	ND
4-Chlorophenyl-phenyl ether	53.6	200	53.6	1	ND
4-Methylphenol	50.3	200	50.3	1	ND
4-Nitroaniline	48.6	1000	48.6	1	ND
4-Nitrophenol	69.2	1000	69.2	1	ND
Benzidine	80.5	1000	80.5	1	ND
Benzoic acid	23.8	1000	23.8	1	ND
Benzyl alcohol	72.2	200	72.2	1	ND
Bis(2-Chloroethoxy)Methane	57.6	200	57.6	1	ND
Bis(2-Chloroethyl)ether	49.2	200	49.2	1	ND
Butylbenzylphthalate	37.6	200	37.6	1	ND
Di-N-Butylphthalate	38.1	200	38.1	1	ND
Di-n-octylphthalate	37.2	200	37.2	1	ND
Dibenzofuran	52.5	200	52.5	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	59.4	200	59.4	1	ND
Dimethylphthalate	55.4	200	55.4	1	ND
Hexachlorobenzene	48.6	200	48.6	1	ND
Hexachlorobutadiene	44.9	200	44.9	1	ND
Hexachlorocyclopentadiene	106	200	106	1	ND
Hexachloroethane	39.7	200	39.7	1	ND
Isophorone	52.9	200	52.9	1	ND
N-Nitrosodimethylamine	30.5	200	30.5	1	ND
N-Nitrosodiphenylamine	57.9	200	57.9	1	ND
N-Nitrosodipropylamine	43.0	200	43.0	1	ND
Nitrobenzene	41.8	200	41.8	1	ND
Pentachlorophenol	24.7	1000	24.7	1	ND
Phenol	38.4	200	38.4	1	ND
bis(2-Chloroisopropyl)ether	50.4	200	50.4	1	ND
bis(2-Ethylhexyl)phthalate	48.1	200	48.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	39.9	19 - 122	
2-Fluorobiphenyl	46.4	30 - 115	
2-Fluorophenol	45.7	25 - 121	
Nitrobenzene-d5	48.6	23 - 120	
Phenol-d5	48.3	24 - 113	
p-Terphenyl-d14	78.9	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:57

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	39.7	200	39.7	1	ND
1,2-Dichlorobenzene	40.1	200	40.1	1	ND
1,3-Dichlorobenzene	38.9	200	38.9	1	ND
1,4-Dichlorobenzene	41.3	200	41.3	1	ND
2,4,5-Trichlorophenol	57.1	1000	57.1	1	ND
2,4,6-Trichlorophenol	51.7	200	51.7	1	ND
2,4-Dichlorophenol	49.5	200	49.5	1	ND
2,4-Dimethylphenol	45.3	200	45.3	1	ND
2,4-Dinitrophenol	129	1000	129	1	ND
2,4-Dinitrotoluene	51.7	200	51.7	1	ND
2,6-Dinitrotoluene	49.0	200	49.0	1	ND
2-Chloronaphthalene	48.4	200	48.4	1	ND
2-Chlorophenol	41.1	200	41.1	1	ND
2-Methylphenol	77.0	200	77.0	1	ND
2-Nitroaniline	56.3	1000	56.3	1	ND
2-Nitrophenol	39.5	200	39.5	1	ND
3,3'-Dichlorobenzidine	187	400	187	1	ND
3-Methylphenol	50.4	200	50.4	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:57

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	88.0	1000	88.0	1	ND
4,6-Dinitro-2-methylphenol	44.0	1000	44.0	1	ND
4-Bromophenyl-phenylether	46.1	200	46.1	1	ND
4-Chloro-3-methylphenol	55.8	200	55.8	1	ND
4-Chloroaniline	64.8	200	64.8	1	ND
4-Chlorophenyl-phenyl ether	53.6	200	53.6	1	ND
4-Methylphenol	50.3	200	50.3	1	ND
4-Nitroaniline	48.6	1000	48.6	1	ND
4-Nitrophenol	69.2	1000	69.2	1	ND
Benzidine	80.5	1000	80.5	1	ND
Benzoic acid	23.8	1000	23.8	1	ND
Benzyl alcohol	72.2	200	72.2	1	ND
Bis(2-Chloroethoxy)Methane	57.6	200	57.6	1	ND
Bis(2-Chloroethyl)ether	49.2	200	49.2	1	ND
Butylbenzylphthalate	37.6	200	37.6	1	ND
Di-N-Butylphthalate	38.1	200	38.1	1	ND
Di-n-octylphthalate	37.2	200	37.2	1	ND
Dibenzofuran	52.5	200	52.5	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 09:57

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	59.4	200	59.4	1	ND
Dimethylphthalate	55.4	200	55.4	1	ND
Hexachlorobenzene	48.6	200	48.6	1	ND
Hexachlorobutadiene	44.9	200	44.9	1	ND
Hexachlorocyclopentadiene	106	200	106	1	ND
Hexachloroethane	39.7	200	39.7	1	ND
Isophorone	52.9	200	52.9	1	ND
N-Nitrosodimethylamine	30.5	200	30.5	1	ND
N-Nitrosodiphenylamine	57.9	200	57.9	1	ND
N-Nitrosodipropylamine	43.0	200	43.0	1	ND
Nitrobenzene	41.8	200	41.8	1	ND
Pentachlorophenol	24.7	1000	24.7	1	ND
Phenol	38.4	200	38.4	1	ND
bis(2-Chloroisopropyl)ether	50.4	200	50.4	1	ND
bis(2-Ethylhexyl)phthalate	48.1	200	48.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	34.2	19 - 122	
2-Fluorobiphenyl	40.6	30 - 115	
2-Fluorophenol	39.0	25 - 121	
Nitrobenzene-d5	40.8	23 - 120	
Phenol-d5	41.5	24 - 113	
p-Terphenyl-d14	77.5	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 10:29

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	41.8	210	41.8	1	ND
1,2-Dichlorobenzene	42.2	210	42.2	1	ND
1,3-Dichlorobenzene	40.9	210	40.9	1	ND
1,4-Dichlorobenzene	43.4	210	43.4	1	ND
2,4,5-Trichlorophenol	60.1	1100	60.1	1	ND
2,4,6-Trichlorophenol	54.4	210	54.4	1	ND
2,4-Dichlorophenol	52.1	210	52.1	1	ND
2,4-Dimethylphenol	47.6	210	47.6	1	ND
2,4-Dinitrophenol	136	1100	136	1	ND
2,4-Dinitrotoluene	54.3	210	54.3	1	ND
2,6-Dinitrotoluene	51.6	210	51.6	1	ND
2-Chloronaphthalene	50.9	210	50.9	1	ND
2-Chlorophenol	43.2	210	43.2	1	ND
2-Methylphenol	81.0	210	81.0	1	ND
2-Nitroaniline	59.2	1100	59.2	1	ND
2-Nitrophenol	41.6	210	41.6	1	ND
3,3'-Dichlorobenzidine	197	420	197	1	ND
3-Methylphenol	52.9	210	52.9	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 10:29

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	92.5	1100	92.5	1	ND
4,6-Dinitro-2-methylphenol	46.2	1100	46.2	1	ND
4-Bromophenyl-phenylether	48.5	210	48.5	1	ND
4-Chloro-3-methylphenol	58.7	210	58.7	1	ND
4-Chloroaniline	68.1	210	68.1	1	ND
4-Chlorophenyl-phenyl ether	56.3	210	56.3	1	ND
4-Methylphenol	52.9	210	52.9	1	ND
4-Nitroaniline	51.1	1100	51.1	1	ND
4-Nitrophenol	72.7	1100	72.7	1	ND
Benzidine	84.6	1100	84.6	1	ND
Benzoic acid	25.0	1100	25.0	1	ND
Benzyl alcohol	75.9	210	75.9	1	ND
Bis(2-Chloroethoxy)Methane	60.5	210	60.5	1	ND
Bis(2-Chloroethyl)ether	51.7	210	51.7	1	ND
Butylbenzylphthalate	39.6	210	39.6	1	ND
Di-N-Butylphthalate	40.0	210	40.0	1	ND
Di-n-octylphthalate	39.2	210	39.2	1	ND
Dibenzofuran	55.2	210	55.2	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 10:29

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	62.4	210	62.4	1	ND
Dimethylphthalate	58.3	210	58.3	1	ND
Hexachlorobenzene	51.1	210	51.1	1	ND
Hexachlorobutadiene	47.2	210	47.2	1	ND
Hexachlorocyclopentadiene	112	210	112	1	ND
Hexachloroethane	41.7	210	41.7	1	ND
Isophorone	55.6	210	55.6	1	ND
N-Nitrosodimethylamine	32.1	210	32.1	1	ND
N-Nitrosodiphenylamine	60.9	210	60.9	1	ND
N-Nitrosodipropylamine	45.2	210	45.2	1	ND
Nitrobenzene	43.9	210	43.9	1	ND
Pentachlorophenol	26.0	1100	26.0	1	ND
Phenol	40.4	210	40.4	1	ND
bis(2-Chloroisopropyl)ether	53.0	210	53.0	1	ND
bis(2-Ethylhexyl)phthalate	50.6	210	50.6	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	92.9	19 - 122	
2-Fluorobiphenyl	53.7	30 - 115	
2-Fluorophenol	49.8	25 - 121	
Nitrobenzene-d5	54.9	23 - 120	
Phenol-d5	55.2	24 - 113	
p-Terphenyl-d14	101	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS4 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:00

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	40.2	200	40.2	1	ND
1,2-Dichlorobenzene	40.6	200	40.6	1	ND
1,3-Dichlorobenzene	39.4	200	39.4	1	ND
1,4-Dichlorobenzene	41.8	200	41.8	1	ND
2,4,5-Trichlorophenol	57.9	1000	57.9	1	ND
2,4,6-Trichlorophenol	52.3	200	52.3	1	ND
2,4-Dichlorophenol	50.1	200	50.1	1	ND
2,4-Dimethylphenol	45.9	200	45.9	1	ND
2,4-Dinitrophenol	131	1000	131	1	ND
2,4-Dinitrotoluene	52.3	200	52.3	1	ND
2,6-Dinitrotoluene	49.7	200	49.7	1	ND
2-Chloronaphthalene	49.0	200	49.0	1	ND
2-Chlorophenol	41.6	200	41.6	1	ND
2-Methylphenol	78.0	200	78.0	1	ND
2-Nitroaniline	57.0	1000	57.0	1	ND
2-Nitrophenol	40.0	200	40.0	1	ND
3,3'-Dichlorobenzidine	189	410	189	1	ND
3-Methylphenol	51.0	200	51.0	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:00

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	89.1	1000	89.1	1	ND
4,6-Dinitro-2-methylphenol	44.5	1000	44.5	1	ND
4-Bromophenyl-phenylether	46.7	200	46.7	1	ND
4-Chloro-3-methylphenol	56.5	200	56.5	1	ND
4-Chloroaniline	65.6	200	65.6	1	ND
4-Chlorophenyl-phenyl ether	54.2	200	54.2	1	ND
4-Methylphenol	50.9	200	50.9	1	ND
4-Nitroaniline	49.2	1000	49.2	1	ND
4-Nitrophenol	70.0	1000	70.0	1	ND
Benzidine	81.5	1000	81.5	1	ND
Benzoic acid	24.1	1000	24.1	1	ND
Benzyl alcohol	73.1	200	73.1	1	ND
Bis(2-Chloroethoxy)Methane	58.3	200	58.3	1	ND
Bis(2-Chloroethyl)ether	49.8	200	49.8	1	ND
Butylbenzylphthalate	38.1	200	38.1	1	ND
Di-N-Butylphthalate	38.5	200	38.5	1	ND
Di-n-octylphthalate	37.7	200	37.7	1	ND
Dibenzofuran	53.2	200	53.2	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil
% Solids: 81 Initial Calibration ID: HPMS4
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:00
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	60.1	200	60.1	1	ND
Dimethylphthalate	56.1	200	56.1	1	ND
Hexachlorobenzene	49.2	200	49.2	1	ND
Hexachlorobutadiene	45.4	200	45.4	1	ND
Hexachlorocyclopentadiene	108	200	108	1	ND
Hexachloroethane	40.2	200	40.2	1	ND
Isophorone	53.5	200	53.5	1	ND
N-Nitrosodimethylamine	30.9	200	30.9	1	ND
N-Nitrosodiphenylamine	58.6	200	58.6	1	ND
N-Nitrosodipropylamine	43.6	200	43.6	1	ND
Nitrobenzene	42.3	200	42.3	1	ND
Pentachlorophenol	25.0	1000	25.0	1	ND
Phenol	38.9	200	38.9	1	ND
bis(2-Chloroisopropyl)ether	51.0	200	51.0	1	ND
bis(2-Ethylhexyl)phthalate	48.7	200	48.7	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	48.6	19 - 122	
2-Fluorobiphenyl	52.1	30 - 115	
2-Fluorophenol	50.2	25 - 121	
Nitrobenzene-d5	51.4	23 - 120	
Phenol-d5	53.0	24 - 113	
p-Terphenyl-d14	85.5	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil
% Solids: 82 Initial Calibration ID: HPMS4 24-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:31
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	39.7	200	39.7	1	ND
1,2-Dichlorobenzene	40.1	200	40.1	1	ND
1,3-Dichlorobenzene	38.9	200	38.9	1	ND
1,4-Dichlorobenzene	41.3	200	41.3	1	ND
2,4,5-Trichlorophenol	57.1	1000	57.1	1	ND
2,4,6-Trichlorophenol	51.7	200	51.7	1	ND
2,4-Dichlorophenol	49.5	200	49.5	1	ND
2,4-Dimethylphenol	45.3	200	45.3	1	ND
2,4-Dinitrophenol	129	1000	129	1	ND
2,4-Dinitrotoluene	51.7	200	51.7	1	ND
2,6-Dinitrotoluene	49.0	200	49.0	1	ND
2-Chloronaphthalene	48.4	200	48.4	1	ND
2-Chlorophenol	41.1	200	41.1	1	ND
2-Methylphenol	77.0	200	77.0	1	ND
2-Nitroaniline	56.3	1000	56.3	1	ND
2-Nitrophenol	39.5	200	39.5	1	ND
3,3'-Dichlorobenzidine	187	400	187	1	ND
3-Methylphenol	50.4	200	50.4	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Nitroaniline	88.0	1000	88.0	1	ND
4,6-Dinitro-2-methylphenol	44.0	1000	44.0	1	ND
4-Bromophenyl-phenylether	46.1	200	46.1	1	ND
4-Chloro-3-methylphenol	55.8	200	55.8	1	ND
4-Chloroaniline	64.8	200	64.8	1	ND
4-Chlorophenyl-phenyl ether	53.6	200	53.6	1	ND
4-Methylphenol	50.3	200	50.3	1	ND
4-Nitroaniline	48.6	1000	48.6	1	ND
4-Nitrophenol	69.2	1000	69.2	1	ND
Benzidine	80.5	1000	80.5	1	ND
Benzoic acid	23.8	1000	23.8	1	ND
Benzyl alcohol	72.2	200	72.2	1	ND
Bis(2-Chloroethoxy)Methane	57.6	200	57.6	1	ND
Bis(2-Chloroethyl)ether	49.2	200	49.2	1	ND
Butylbenzylphthalate	37.6	200	37.6	1	ND
Di-N-Butylphthalate	38.1	200	38.1	1	ND
Di-n-octylphthalate	37.2	200	37.2	1	ND
Dibenzofuran	52.5	200	52.5	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG97978

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS4

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 11:31

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Diethylphthalate	59.4	200	59.4	1	ND
Dimethylphthalate	55.4	200	55.4	1	ND
Hexachlorobenzene	48.6	200	48.6	1	ND
Hexachlorobutadiene	44.9	200	44.9	1	ND
Hexachlorocyclopentadiene	106	200	106	1	ND
Hexachloroethane	39.7	200	39.7	1	ND
Isophorone	52.9	200	52.9	1	ND
N-Nitrosodimethylamine	30.5	200	30.5	1	ND
N-Nitrosodiphenylamine	57.9	200	57.9	1	ND
N-Nitrosodipropylamine	43.0	200	43.0	1	ND
Nitrobenzene	41.8	200	41.8	1	ND
Pentachlorophenol	24.7	1000	24.7	1	ND
Phenol	38.4	200	38.4	1	ND
bis(2-Chloroisopropyl)ether	50.4	200	50.4	1	ND
bis(2-Ethylhexyl)phthalate	48.1	200	48.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	50.9	19 - 122	
2-Fluorobiphenyl	52.8	30 - 115	
2-Fluorophenol	50.5	25 - 121	
Nitrobenzene-d5	50.8	23 - 120	
Phenol-d5	53.8	24 - 113	
p-Terphenyl-d14	81.6	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG98002
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 01-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 17:13

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.29	6.6	3.29	1	ND
2-Methylnaphthalene	3.29	6.6	3.29	1	ND
Acenaphthene	3.29	6.6	3.29	1	ND
Acenaphthylene	3.29	6.6	3.29	1	ND
Anthracene	3.29	6.6	3.29	1	ND
Benzo(a)anthracene	3.29	6.6	3.29	1	ND
Benzo(a)pyrene	3.29	6.6	3.29	1	ND
Benzo(b)fluoranthene	3.29	6.6	3.29	1	ND
Benzo(g,h,i)perylene	3.29	6.6	3.29	1	ND
Benzo(k)fluoranthene	3.29	6.6	3.29	1	ND
Chrysene	3.29	6.6	3.29	1	ND
Dibenzo(a,h)anthracene	3.29	6.6	3.29	1	ND
Fluoranthene	3.29	6.6	3.29	1	ND
Fluorene	3.29	6.6	3.29	1	ND
Indeno(1,2,3-cd)pyrene	3.29	6.6	3.29	1	ND
Naphthalene	3.29	6.6	3.29	1	ND
Phenanthrene	3.29	6.6	3.29	1	ND
Pyrene	3.29	6.6	3.29	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 17:13

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	66.4	30 - 115	
Nitrobenzene-d5	77.6	23 - 120	
p-Terphenyl-d14	84.0	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 17:40

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.16	6.3	3.16	1	ND
2-Methylnaphthalene	3.16	6.3	3.16	1	ND
Acenaphthene	3.16	6.3	3.16	1	ND
Acenaphthylene	3.16	6.3	3.16	1	ND
Anthracene	3.16	6.3	3.16	1	ND
Benzo(a)anthracene	3.16	6.3	3.16	1	ND
Benzo(a)pyrene	3.16	6.3	3.16	1	ND
Benzo(b)fluoranthene	3.16	6.3	3.16	1	ND
Benzo(g,h,i)perylene	3.16	6.3	3.16	1	ND
Benzo(k)fluoranthene	3.16	6.3	3.16	1	ND
Chrysene	3.16	6.3	3.16	1	ND
Dibenzo(a,h)anthracene	3.16	6.3	3.16	1	ND
Fluoranthene	3.16	6.3	3.16	1	ND
Fluorene	3.16	6.3	3.16	1	ND
Indeno(1,2,3-cd)pyrene	3.16	6.3	3.16	1	ND
Naphthalene	3.16	6.3	3.16	1	ND
Phenanthrene	3.16	6.3	3.16	1	ND
Pyrene	3.16	6.3	3.16	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 17:40

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	63.2	30 - 115	
Nitrobenzene-d5	72.8	23 - 120	
p-Terphenyl-d14	74.8	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:06

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.16	6.3	34.9	1	
2-Methylnaphthalene	3.16	6.3	37.7	1	
Acenaphthene	3.16	6.3	33.0	1	
Acenaphthylene	3.16	6.3	38.0	1	
Anthracene	3.16	6.3	46.0	1	
Benzo(a)anthracene	3.16	6.3	69.0	1	
Benzo(a)pyrene	3.16	6.3	57.0	1	
Benzo(b)fluoranthene	3.16	6.3	52.0	1	
Benzo(g,h,i)perylene	3.16	6.3	45.0	1	
Benzo(k)fluoranthene	3.16	6.3	50.0	1	
Chrysene	3.16	6.3	62.0	1	
Dibenzo(a,h)anthracene	3.16	6.3	39.0	1	
Fluoranthene	3.16	6.3	66.0	1	
Fluorene	3.16	6.3	36.0	1	
Indeno(1,2,3-cd)pyrene	3.16	6.3	44.0	1	
Naphthalene	3.16	6.3	35.0	1	
Phenanthrene	3.16	6.3	43.0	1	
Pyrene	3.16	6.3	60.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:06

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	54.8	30 - 115	
Nitrobenzene-d5	63.2	23 - 120	
p-Terphenyl-d14	79.6	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS7 21-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:33
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.16	6.3	30.3	1	
2-Methylnaphthalene	3.16	6.3	31.5	1	
Acenaphthene	3.16	6.3	28.0	1	
Acenaphthylene	3.16	6.3	33.0	1	
Anthracene	3.16	6.3	40.0	1	
Benzo(a)anthracene	3.16	6.3	67.0	1	
Benzo(a)pyrene	3.16	6.3	57.0	1	
Benzo(b)fluoranthene	3.16	6.3	52.0	1	
Benzo(g,h,i)perylene	3.16	6.3	45.0	1	
Benzo(k)fluoranthene	3.16	6.3	50.0	1	
Chrysene	3.16	6.3	59.0	1	
Dibenzo(a,h)anthracene	3.16	6.3	40.0	1	
Fluoranthene	3.16	6.3	56.0	1	
Fluorene	3.16	6.3	32.0	1	
Indeno(1,2,3-cd)pyrene	3.16	6.3	44.0	1	
Naphthalene	3.16	6.3	31.0	1	
Phenanthrene	3.16	6.3	35.0	1	
Pyrene	3.16	6.3	53.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:33

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	45.6	30 - 115	
Nitrobenzene-d5	52.4	23 - 120	
p-Terphenyl-d14	80.0	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 20:45

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.05	6.1	3.05	1	ND
2-Methylnaphthalene	3.05	6.1	3.05	1	ND
Acenaphthene	3.05	6.1	3.05	1	ND
Acenaphthylene	3.05	6.1	3.05	1	ND
Anthracene	3.05	6.1	3.05	1	ND
Benzo(a)anthracene	3.05	6.1	3.05	1	ND
Benzo(a)pyrene	3.05	6.1	3.05	1	ND
Benzo(b)fluoranthene	3.05	6.1	3.05	1	ND
Benzo(g,h,i)perylene	3.05	6.1	3.05	1	ND
Benzo(k)fluoranthene	3.05	6.1	3.05	1	ND
Chrysene	3.05	6.1	3.05	1	ND
Dibenzo(a,h)anthracene	3.05	6.1	3.05	1	ND
Fluoranthene	3.05	6.1	6.80	1	
Fluorene	3.05	6.1	3.05	1	ND
Indeno(1,2,3-cd)pyrene	3.05	6.1	3.05	1	ND
Naphthalene	3.05	6.1	3.05	1	ND
Phenanthrene	3.05	6.1	6.50	1	
Pyrene	3.05	6.1	3.05	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 20:45

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	59.6	30 - 115	
Nitrobenzene-d5	68.0	23 - 120	
p-Terphenyl-d14	79.2	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:59

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.05	6.1	3.05	1	ND
2-Methylnaphthalene	3.05	6.1	3.05	1	ND
Acenaphthene	3.05	6.1	3.05	1	ND
Acenaphthylene	3.05	6.1	3.05	1	ND
Anthracene	3.05	6.1	3.05	1	ND
Benzo(a)anthracene	3.05	6.1	3.05	1	ND
Benzo(a)pyrene	3.05	6.1	3.05	1	ND
Benzo(b)fluoranthene	3.05	6.1	3.05	1	ND
Benzo(g,h,i)perylene	3.05	6.1	3.05	1	ND
Benzo(k)fluoranthene	3.05	6.1	3.05	1	ND
Chrysene	3.05	6.1	3.05	1	ND
Dibenzo(a,h)anthracene	3.05	6.1	3.05	1	ND
Fluoranthene	3.05	6.1	3.05	1	ND
Fluorene	3.05	6.1	3.05	1	ND
Indeno(1,2,3-cd)pyrene	3.05	6.1	3.05	1	ND
Naphthalene	3.05	6.1	3.05	1	ND
Phenanthrene	3.05	6.1	3.05	1	ND
Pyrene	3.05	6.1	3.05	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 18:59

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	60.0	30 – 115	
Nitrobenzene-d5	70.0	23 – 120	
p-Terphenyl-d14	79.2	18 – 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 19:26

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.05	6.1	3.05	1	ND
2-Methylnaphthalene	3.05	6.1	3.05	1	ND
Acenaphthene	3.05	6.1	3.05	1	ND
Acenaphthylene	3.05	6.1	3.05	1	ND
Anthracene	3.05	6.1	3.05	1	ND
Benzo(a)anthracene	3.05	6.1	3.05	1	ND
Benzo(a)pyrene	3.05	6.1	3.05	1	ND
Benzo(b)fluoranthene	3.05	6.1	3.05	1	ND
Benzo(g,h,i)perylene	3.05	6.1	3.05	1	ND
Benzo(k)fluoranthene	3.05	6.1	3.05	1	ND
Chrysene	3.05	6.1	3.05	1	ND
Dibenzo(a,h)anthracene	3.05	6.1	3.05	1	ND
Fluoranthene	3.05	6.1	3.05	1	ND
Fluorene	3.05	6.1	3.05	1	ND
Indeno(1,2,3-cd)pyrene	3.05	6.1	3.05	1	ND
Naphthalene	3.05	6.1	3.05	1	ND
Phenanthrene	3.05	6.1	3.05	1	ND
Pyrene	3.05	6.1	3.05	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 19:26

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	62.0	30 - 115	
Nitrobenzene-d5	68.8	23 - 120	
p-Terphenyl-d14	79.6	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 21:12

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.21	6.4	3.21	1	ND
2-Methylnaphthalene	3.21	6.4	3.21	1	ND
Acenaphthene	3.21	6.4	3.21	1	ND
Acenaphthylene	3.21	6.4	3.21	1	ND
Anthracene	3.21	6.4	36.0	1	
Benzo(a)anthracene	3.21	6.4	3.21	1	ND
Benzo(a)pyrene	3.21	6.4	3.21	1	ND
Benzo(b)fluoranthene	3.21	6.4	3.21	1	ND
Benzo(g,h,i)perylene	3.21	6.4	3.21	1	ND
Benzo(k)fluoranthene	3.21	6.4	3.21	1	ND
Chrysene	3.21	6.4	3.21	1	ND
Dibenzo(a,h)anthracene	3.21	6.4	3.21	1	ND
Fluoranthene	3.21	6.4	3.21	1	ND
Fluorene	3.21	6.4	3.21	1	ND
Indeno(1,2,3-cd)pyrene	3.21	6.4	3.21	1	ND
Naphthalene	3.21	6.4	3.21	1	ND
Phenanthrene	3.21	6.4	46.0	1	
Pyrene	3.21	6.4	13.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 21:12

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	45.6	30 - 115	
Nitrobenzene-d5	53.6	23 - 120	
p-Terphenyl-d14	82.8	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 19:52

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.09	6.2	3.09	1	ND
2-Methylnaphthalene	3.09	6.2	3.09	1	ND
Acenaphthene	3.09	6.2	3.09	1	ND
Acenaphthylene	3.09	6.2	3.09	1	ND
Anthracene	3.09	6.2	3.09	1	ND
Benzo(a)anthracene	3.09	6.2	3.09	1	ND
Benzo(a)pyrene	3.09	6.2	3.09	1	ND
Benzo(b)fluoranthene	3.09	6.2	3.09	1	ND
Benzo(g,h,i)perylene	3.09	6.2	3.09	1	ND
Benzo(k)fluoranthene	3.09	6.2	3.09	1	ND
Chrysene	3.09	6.2	3.09	1	ND
Dibenzo(a,h)anthracene	3.09	6.2	3.09	1	ND
Fluoranthene	3.09	6.2	3.09	1	ND
Fluorene	3.09	6.2	3.09	1	ND
Indeno(1,2,3-cd)pyrene	3.09	6.2	3.09	1	ND
Naphthalene	3.09	6.2	3.09	1	ND
Phenanthrene	3.09	6.2	3.09	1	ND
Pyrene	3.09	6.2	3.09	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 19:52

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	56.4	30 - 115	
Nitrobenzene-d5	64.8	23 - 120	
p-Terphenyl-d14	84.8	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 20:19

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.05	6.1	3.05	1	ND
2-Methylnaphthalene	3.05	6.1	3.05	1	ND
Acenaphthene	3.05	6.1	3.05	1	ND
Acenaphthylene	3.05	6.1	3.05	1	ND
Anthracene	3.05	6.1	3.05	1	ND
Benzo(a)anthracene	3.05	6.1	3.05	1	ND
Benzo(a)pyrene	3.05	6.1	3.05	1	ND
Benzo(b)fluoranthene	3.05	6.1	3.05	1	ND
Benzo(g,h,i)perylene	3.05	6.1	3.05	1	ND
Benzo(k)fluoranthene	3.05	6.1	3.05	1	ND
Chrysene	3.05	6.1	3.05	1	ND
Dibenzo(a,h)anthracene	3.05	6.1	3.05	1	ND
Fluoranthene	3.05	6.1	3.05	1	ND
Fluorene	3.05	6.1	3.05	1	ND
Indeno(1,2,3-cd)pyrene	3.05	6.1	3.05	1	ND
Naphthalene	3.05	6.1	3.05	1	ND
Phenanthrene	3.05	6.1	3.05	1	ND
Pyrene	3.05	6.1	3.05	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98002

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 20:19

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	54.4	30 - 115	
Nitrobenzene-d5	64.8	23 - 120	
p-Terphenyl-d14	71.2	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97994

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 01-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG97994

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 17:04

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.050	0.10	0.050	1	ND
2-Methylnaphthalene	0.050	0.10	0.050	1	ND
Acenaphthene	0.050	0.10	0.050	1	ND
Acenaphthylene	0.050	0.10	0.050	1	ND
Anthracene	0.050	0.10	0.050	1	ND
Benzo(a)anthracene	0.050	0.10	0.050	1	ND
Benzo(a)pyrene	0.050	0.10	0.050	1	ND
Benzo(b)fluoranthene	0.050	0.10	0.050	1	ND
Benzo(g,h,i)perylene	0.050	0.10	0.050	1	ND
Benzo(k)fluoranthene	0.050	0.10	0.050	1	ND
Chrysene	0.050	0.10	0.050	1	ND
Dibenzo(a,h)anthracene	0.050	0.10	0.050	1	ND
Fluoranthene	0.050	0.10	0.050	1	ND
Fluorene	0.050	0.10	0.050	1	ND
Indeno(1,2,3-cd)pyrene	0.050	0.10	0.050	1	ND
Naphthalene	0.050	0.10	0.130	1	
Phenanthrene	0.050	0.10	0.050	1	ND
Pyrene	0.050	0.10	0.050	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG97994

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS7

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 17:04

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	71.2	43 - 116	
Nitrobenzene-d5	78.4	35 - 114	
p-Terphenyl-d14	70.0	33 - 141	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8081
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97881
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MSD	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 01-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.09	4.3	1.09	1	ND
4,4'-DDE	1.09	4.3	1.09	1	ND
4,4'-DDT	1.09	4.3	1.09	1	ND
Aldrin	0.526	2.2	0.526	1	ND
Dieldrin	1.09	4.3	1.09	1	ND
Endosulfan I	0.526	2.2	0.526	1	ND
Endosulfan II	1.09	4.3	1.09	1	ND
Endosulfan sulfate	1.09	4.3	1.09	1	ND
Endrin	1.09	4.3	1.09	1	ND
Endrin aldehyde	1.09	4.3	1.09	1	ND
Endrin ketone	1.09	4.3	1.09	1	ND
Heptachlor	0.526	2.2	0.526	1	ND
Heptachlor epoxide	0.526	2.2	0.526	1	ND
Methoxychlor	1.09	22	1.09	1	ND
Toxaphene	22.0	43	22.0	1	ND
alpha Chlordane	0.526	2.2	0.526	1	ND
alpha-BHC	0.526	2.2	0.526	1	ND
beta-BHC	0.526	2.2	0.526	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.526	2.2	0.526	1	ND
gamma Chlordane	0.526	2.2	0.526	1	ND
gamma-BHC (Lindane)	0.526	2.2	0.526	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	76.6	29 - 133	
Decachlorobiphenyl	89.8	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:49

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.04	4.2	1.04	1	ND
4,4'-DDE	1.04	4.2	1.04	1	ND
4,4'-DDT	1.04	4.2	2.80	1	J
Aldrin	0.506	2.1	0.506	1	ND
Dieldrin	1.04	4.2	1.04	1	ND
Endosulfan I	0.506	2.1	0.506	1	ND
Endosulfan II	1.04	4.2	1.04	1	ND
Endosulfan sulfate	1.04	4.2	1.04	1	ND
Endrin	1.04	4.2	1.04	1	ND
Endrin aldehyde	1.04	4.2	1.04	1	ND
Endrin ketone	1.04	4.2	1.04	1	ND
Heptachlor	0.506	2.1	0.506	1	ND
Heptachlor epoxide	0.506	2.1	0.506	1	ND
Methoxychlor	1.04	21	1.04	1	ND
Toxaphene	21.1	42	21.1	1	ND
alpha Chlordane	0.506	2.1	0.506	1	ND
alpha-BHC	0.506	2.1	0.506	1	ND
beta-BHC	0.506	2.1	0.506	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 18:49

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.506	2.1	0.506	1	ND
gamma Chlordane	0.506	2.1	0.506	1	ND
gamma-BHC (Lindane)	0.506	2.1	0.506	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	87.9	29 - 133	
Decachlorobiphenyl	88.9	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 19:14

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.04	4.2	21.0	1	
4,4'-DDE	1.04	4.2	23.0	1	
4,4'-DDT	1.04	4.2	63.0	1	
Aldrin	0.506	2.1	18.0	1	
Dieldrin	1.04	4.2	20.0	1	
Endosulfan I	0.506	2.1	16.0	1	
Endosulfan II	1.04	4.2	14.0	1	
Endosulfan sulfate	1.04	4.2	13.0	1	
Endrin	1.04	4.2	21.0	1	
Endrin aldehyde	1.04	4.2	11.0	1	
Endrin ketone	1.04	4.2	14.0	1	
Heptachlor	0.506	2.1	19.0	1	
Heptachlor epoxide	0.506	2.1	19.0	1	
Methoxychlor	1.04	21	21.0	1	
Toxaphene	21.1	42	21.1	1	ND
alpha Chlordane	0.506	2.1	20.0	1	
alpha-BHC	0.506	2.1	19.0	1	
beta-BHC	0.506	2.1	18.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 19:14

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.506	2.1	19.0	1	
gamma Chlordane	0.506	2.1	20.0	1	
gamma-BHC (Lindane)	0.506	2.1	19.0	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	79.8	29 - 133	
Decachlorobiphenyl	87.6	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 19:38

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.04	4.2	23.0	1	
4,4'-DDE	1.04	4.2	22.0	1	
4,4'-DDT	1.04	4.2	23.0	1	
Aldrin	0.506	2.1	19.0	1	
Dieldrin	1.04	4.2	22.0	1	
Endosulfan I	0.506	2.1	17.0	1	
Endosulfan II	1.04	4.2	14.0	1	
Endosulfan sulfate	1.04	4.2	12.0	1	
Endrin	1.04	4.2	23.0	1	
Endrin aldehyde	1.04	4.2	9.40	1	
Endrin ketone	1.04	4.2	14.0	1	
Heptachlor	0.506	2.1	21.0	1	
Heptachlor epoxide	0.506	2.1	21.0	1	
Methoxychlor	1.04	21	25.0	1	
Toxaphene	21.1	42	21.1	1	ND
alpha Chlordane	0.506	2.1	22.0	1	
alpha-BHC	0.506	2.1	21.0	1	
beta-BHC	0.506	2.1	20.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 19:38

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.506	2.1	21.0	1	
gamma Chlordane	0.506	2.1	22.0	1	
gamma-BHC (Lindane)	0.506	2.1	21.0	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	88.6	29 - 133	
Decachlorobiphenyl	91.8	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.01	4.0	1.01	1	ND
4,4'-DDE	1.01	4.0	1.01	1	ND
4,4'-DDT	1.01	4.0	1.01	1	ND
Aldrin	0.488	2.0	0.488	1	ND
Dieldrin	1.01	4.0	1.01	1	ND
Endosulfan I	0.488	2.0	0.488	1	ND
Endosulfan II	1.01	4.0	1.01	1	ND
Endosulfan sulfate	1.01	4.0	1.01	1	ND
Endrin	1.01	4.0	1.01	1	ND
Endrin aldehyde	1.01	4.0	1.01	1	ND
Endrin ketone	1.01	4.0	1.01	1	ND
Heptachlor	0.488	2.0	0.488	1	ND
Heptachlor epoxide	0.488	2.0	0.488	1	ND
Methoxychlor	1.01	20	1.01	1	ND
Toxaphene	20.4	40	20.4	1	ND
alpha Chlordane	0.488	2.0	0.488	1	ND
alpha-BHC	0.488	2.0	0.488	1	ND
beta-BHC	0.488	2.0	0.488	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.488	2.0	0.488	1	ND
gamma Chlordane	0.488	2.0	0.488	1	ND
gamma-BHC (Lindane)	0.488	2.0	0.488	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	76.1	29 - 133	
Decachlorobiphenyl	87.4	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:26

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.01	4.0	1.01	1	ND
4,4'-DDE	1.01	4.0	1.01	1	ND
4,4'-DDT	1.01	4.0	1.01	1	ND
Aldrin	0.488	2.0	0.488	1	ND
Dieldrin	1.01	4.0	1.01	1	ND
Endosulfan I	0.488	2.0	0.488	1	ND
Endosulfan II	1.01	4.0	1.01	1	ND
Endosulfan sulfate	1.01	4.0	1.01	1	ND
Endrin	1.01	4.0	1.01	1	ND
Endrin aldehyde	1.01	4.0	1.01	1	ND
Endrin ketone	1.01	4.0	1.01	1	ND
Heptachlor	0.488	2.0	0.488	1	ND
Heptachlor epoxide	0.488	2.0	0.488	1	ND
Methoxychlor	1.01	20	1.01	1	ND
Toxaphene	20.4	40	20.4	1	ND
alpha Chlordane	0.488	2.0	0.488	1	ND
alpha-BHC	0.488	2.0	0.488	1	ND
beta-BHC	0.488	2.0	0.488	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:26

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.488	2.0	0.488	1	ND
gamma Chlordane	0.488	2.0	0.488	1	ND
gamma-BHC (Lindane)	0.488	2.0	0.488	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	68.1	29 - 133	
Decachlorobiphenyl	74.5	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:50

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.01	4.0	1.01	1	ND
4,4'-DDE	1.01	4.0	1.01	1	ND
4,4'-DDT	1.01	4.0	1.01	1	ND
Aldrin	0.488	2.0	0.488	1	ND
Dieldrin	1.01	4.0	1.01	1	ND
Endosulfan I	0.488	2.0	0.488	1	ND
Endosulfan II	1.01	4.0	1.01	1	ND
Endosulfan sulfate	1.01	4.0	1.01	1	ND
Endrin	1.01	4.0	1.01	1	ND
Endrin aldehyde	1.01	4.0	1.01	1	ND
Endrin ketone	1.01	4.0	1.01	1	ND
Heptachlor	0.488	2.0	0.488	1	ND
Heptachlor epoxide	0.488	2.0	0.488	1	ND
Methoxychlor	1.01	20	1.01	1	ND
Toxaphene	20.4	40	20.4	1	ND
alpha Chlordane	0.488	2.0	0.488	1	ND
alpha-BHC	0.488	2.0	0.488	1	ND
beta-BHC	0.488	2.0	0.488	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25C85-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:50

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.488	2.0	0.488	1	ND
gamma Chlordane	0.488	2.0	0.488	1	ND
gamma-BHC (Lindane)	0.488	2.0	0.488	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.7	29 - 133	
Decachlorobiphenyl	76.4	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:50

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.06	4.2	4.90	1	
4,4'-DDE	1.06	4.2	1.06	1	ND
4,4'-DDT	1.06	4.2	1.06	1	ND
Aldrin	0.513	2.1	0.513	1	ND
Dieldrin	1.06	4.2	1.06	1	ND
Endosulfan I	0.513	2.1	0.513	1	ND
Endosulfan II	1.06	4.2	1.06	1	ND
Endosulfan sulfate	1.06	4.2	1.06	1	ND
Endrin	1.06	4.2	1.06	1	ND
Endrin aldehyde	1.06	4.2	1.06	1	ND
Endrin ketone	1.06	4.2	1.06	1	ND
Heptachlor	0.513	2.1	0.513	1	ND
Heptachlor epoxide	0.513	2.1	0.513	1	ND
Methoxychlor	1.06	21	1.06	1	ND
Toxaphene	21.4	42	21.4	1	ND
alpha Chlordane	0.513	2.1	0.513	1	ND
alpha-BHC	0.513	2.1	0.513	1	ND
beta-BHC	0.513	2.1	0.513	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 20:50

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.513	2.1	0.513	1	ND
gamma Chlordane	0.513	2.1	0.513	1	ND
gamma-BHC (Lindane)	0.513	2.1	0.513	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	55.8	29 - 133	
Decachlorobiphenyl	82.0	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil
% Solids: 78 Initial Calibration ID: HP9 24-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 21:14
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.06	4.2	5.40	1	
4,4'-DDE	1.06	4.2	1.06	1	ND
4,4'-DDT	1.06	4.2	1.06	1	ND
Aldrin	0.513	2.1	0.513	1	ND
Dieldrin	1.06	4.2	1.06	1	ND
Endosulfan I	0.513	2.1	0.513	1	ND
Endosulfan II	1.06	4.2	1.06	1	ND
Endosulfan sulfate	1.06	4.2	1.06	1	ND
Endrin	1.06	4.2	1.06	1	ND
Endrin aldehyde	1.06	4.2	1.06	1	ND
Endrin ketone	1.06	4.2	1.06	1	ND
Heptachlor	0.513	2.1	0.513	1	ND
Heptachlor epoxide	0.513	2.1	0.513	1	ND
Methoxychlor	1.06	21	1.06	1	ND
Toxaphene	21.4	42	21.4	1	ND
alpha Chlordane	0.513	2.1	0.513	1	ND
alpha-BHC	0.513	2.1	0.513	1	ND
beta-BHC	0.513	2.1	0.513	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 21:14

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.513	2.1	0.513	1	ND
gamma Chlordane	0.513	2.1	0.513	1	ND
gamma-BHC (Lindane)	0.513	2.1	0.513	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	56.2	29 - 133	
Decachlorobiphenyl	90.2	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 22:51

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.02	4.1	1.02	1	ND
4,4'-DDE	1.02	4.1	1.02	1	ND
4,4'-DDT	1.02	4.1	1.02	1	ND
Aldrin	0.494	2.0	0.494	1	ND
Dieldrin	1.02	4.1	1.02	1	ND
Endosulfan I	0.494	2.0	0.494	1	ND
Endosulfan II	1.02	4.1	1.02	1	ND
Endosulfan sulfate	1.02	4.1	1.02	1	ND
Endrin	1.02	4.1	1.02	1	ND
Endrin aldehyde	1.02	4.1	1.02	1	ND
Endrin ketone	1.02	4.1	1.02	1	ND
Heptachlor	0.494	2.0	0.494	1	ND
Heptachlor epoxide	0.494	2.0	0.494	1	ND
Methoxychlor	1.02	20	1.02	1	ND
Toxaphene	20.6	41	20.6	1	ND
alpha Chlordane	0.494	2.0	0.494	1	ND
alpha-BHC	0.494	2.0	0.494	1	ND
beta-BHC	0.494	2.0	0.494	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 22:51

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.494	2.0	0.494	1	ND
gamma Chlordane	0.494	2.0	0.494	1	ND
gamma-BHC (Lindane)	0.494	2.0	0.494	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	74.4	29 - 133	
Decachlorobiphenyl	82.6	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil
% Solids: 82 Initial Calibration ID: HP9 24-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 23:15
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.01	4.0	1.01	1	ND
4,4'-DDE	1.01	4.0	1.01	1	ND
4,4'-DDT	1.01	4.0	1.01	1	ND
Aldrin	0.488	2.0	0.488	1	ND
Dieldrin	1.01	4.0	1.01	1	ND
Endosulfan I	0.488	2.0	0.488	1	ND
Endosulfan II	1.01	4.0	1.01	1	ND
Endosulfan sulfate	1.01	4.0	1.01	1	ND
Endrin	1.01	4.0	1.01	1	ND
Endrin aldehyde	1.01	4.0	1.01	1	ND
Endrin ketone	1.01	4.0	1.01	1	ND
Heptachlor	0.488	2.0	0.488	1	ND
Heptachlor epoxide	0.488	2.0	0.488	1	ND
Methoxychlor	1.01	20	1.01	1	ND
Toxaphene	20.4	40	20.4	1	ND
alpha Chlordane	0.488	2.0	0.488	1	ND
alpha-BHC	0.488	2.0	0.488	1	ND
beta-BHC	0.488	2.0	0.488	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG97881

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 24-MAY-01 23:15

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.488	2.0	0.488	1	ND
gamma Chlordane	0.488	2.0	0.488	1	ND
gamma-BHC (Lindane)	0.488	2.0	0.488	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	80.2	29 - 133	
Decachlorobiphenyl	90.9	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8081

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97874

Contract # :

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 01-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG97874

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 00:28

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.025	0.10	0.025	1	ND
4,4'-DDE	0.025	0.10	0.025	1	ND
4,4'-DDT	0.025	0.10	0.025	1	ND
Aldrin	0.010	0.05	0.010	1	ND
Dieldrin	0.025	0.10	0.025	1	ND
Endosulfan I	0.010	0.05	0.010	1	ND
Endosulfan II	0.025	0.10	0.025	1	ND
Endosulfan sulfate	0.025	0.10	0.025	1	ND
Endrin	0.025	0.10	0.025	1	ND
Endrin aldehyde	0.025	0.10	0.025	1	ND
Endrin ketone	0.025	0.10	0.025	1	ND
Heptachlor	0.010	0.05	0.010	1	ND
Heptachlor epoxide	0.010	0.05	0.010	1	ND
Methoxychlor	0.025	0.50	0.025	1	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.010	0.05	0.010	1	ND
alpha-BHC	0.010	0.05	0.010	1	ND
beta-BHC	0.010	0.05	0.010	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG97874

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 00:28

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.010	0.05	0.010	1	ND
gamma Chlordane	0.010	0.05	0.010	1	ND
gamma-BHC (Lindane)	0.010	0.05	0.010	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.9	13 - 154	
Decachlorobiphenyl	117	25 - 140	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8082
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97878
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 01-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 12:48

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.9	22	10.9	1	ND
Aroclor-1221	10.9	22	10.9	1	ND
Aroclor-1232	10.9	22	10.9	1	ND
Aroclor-1242	10.9	22	10.9	1	ND
Aroclor-1248	10.9	22	10.9	1	ND
Aroclor-1254	10.9	22	10.9	1	ND
Aroclor-1260	10.9	22	10.9	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	83.1	29 - 133	
Decachlorobiphenyl	86.5	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 13:06

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.4	21	10.4	1	ND
Aroclor-1221	10.4	21	10.4	1	ND
Aroclor-1232	10.4	21	10.4	1	ND
Aroclor-1242	10.4	21	10.4	1	ND
Aroclor-1248	10.4	21	10.4	1	ND
Aroclor-1254	10.4	21	10.4	1	ND
Aroclor-1260	10.4	21	10.4	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	90.8	29 - 133	
Decachlorobiphenyl	82.4	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 13:24

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.4	21	97.0	1	
Aroclor-1221	10.4	21	10.4	1	NS
Aroclor-1232	10.4	21	10.4	1	NS
Aroclor-1242	10.4	21	10.4	1	NS
Aroclor-1248	10.4	21	10.4	1	NS
Aroclor-1254	10.4	21	10.4	1	NS
Aroclor-1260	10.4	21	140	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.3	29 - 133	
Decachlorobiphenyl	72.9	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 13:42

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.4	21	120	1	
Aroclor-1221	10.4	21	10.4	1	NS
Aroclor-1232	10.4	21	10.4	1	NS
Aroclor-1242	10.4	21	10.4	1	NS
Aroclor-1248	10.4	21	10.4	1	NS
Aroclor-1254	10.4	21	10.4	1	NS
Aroclor-1260	10.4	21	110	1	

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	83.1	29 - 133	
Decachlorobiphenyl	83.3	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil
% Solids: 82 Initial Calibration ID: HP4 03-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 13:59
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.1	20	10.1	1	ND
Aroclor-1221	10.1	20	10.1	1	ND
Aroclor-1232	10.1	20	10.1	1	ND
Aroclor-1242	10.1	20	10.1	1	ND
Aroclor-1248	10.1	20	10.1	1	ND
Aroclor-1254	10.1	20	10.1	1	ND
Aroclor-1260	10.1	20	10.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	82.4	29 - 133	
Decachlorobiphenyl	86.2	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 14:17

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.1	20	10.1	1	ND
Aroclor-1221	10.1	20	10.1	1	ND
Aroclor-1232	10.1	20	10.1	1	ND
Aroclor-1242	10.1	20	10.1	1	ND
Aroclor-1248	10.1	20	10.1	1	ND
Aroclor-1254	10.1	20	10.1	1	ND
Aroclor-1260	10.1	20	10.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	59.0	29 - 133	
Decachlorobiphenyl	60.8	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 14:35

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.1	20	10.1	1	ND
Aroclor-1221	10.1	20	10.1	1	ND
Aroclor-1232	10.1	20	10.1	1	ND
Aroclor-1242	10.1	20	10.1	1	ND
Aroclor-1248	10.1	20	10.1	1	ND
Aroclor-1254	10.1	20	10.1	1	ND
Aroclor-1260	10.1	20	10.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	52.2	29 - 133	
Decachlorobiphenyl	54.1	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 14:53

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.6	21	10.6	1	ND
Aroclor-1221	10.6	21	10.6	1	ND
Aroclor-1232	10.6	21	10.6	1	ND
Aroclor-1242	10.6	21	10.6	1	ND
Aroclor-1248	10.6	21	10.6	1	ND
Aroclor-1254	10.6	21	10.6	1	ND
Aroclor-1260	10.6	21	10.6	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	56.2	29 - 133	
Decachlorobiphenyl	71.9	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:29

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.2	20	10.2	1	ND
Aroclor-1221	10.2	20	10.2	1	ND
Aroclor-1232	10.2	20	10.2	1	ND
Aroclor-1242	10.2	20	10.2	1	ND
Aroclor-1248	10.2	20	10.2	1	ND
Aroclor-1254	10.2	20	10.2	1	ND
Aroclor-1260	10.2	20	10.2	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	58.1	29 - 133	
Decachlorobiphenyl	59.3	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG97878

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:47

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.1	20	10.1	1	ND
Aroclor-1221	10.1	20	10.1	1	ND
Aroclor-1232	10.1	20	10.1	1	ND
Aroclor-1242	10.1	20	10.1	1	ND
Aroclor-1248	10.1	20	10.1	1	ND
Aroclor-1254	10.1	20	10.1	1	ND
Aroclor-1260	10.1	20	10.1	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	46.3	29 - 133	
Decachlorobiphenyl	65.2	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8082
AAB # : WG97876
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 01-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3510C AAB # : WG97876

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP4 03-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 16:40

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	0.250	0.50	0.250	1	ND
Aroclor-1221	0.250	0.50	0.250	1	ND
Aroclor-1232	0.250	0.50	0.250	1	ND
Aroclor-1242	0.250	0.50	0.250	1	ND
Aroclor-1248	0.250	0.50	0.250	1	ND
Aroclor-1254	0.250	0.50	0.250	1	ND
Aroclor-1260	0.250	0.50	0.250	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	80.6	30 - 132	
Decachlorobiphenyl	114	36 - 144	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97877
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe

Date: 01-JUN-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WQ97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:10

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6580	13000	11000	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	75.3	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6330	13000	10000	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	76.8	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:39

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6330	13000	130000	1	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	101	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil
% Solids: 79 Initial Calibration ID: HP2 16-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 15:53
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6330	13000	120000	1	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	91.8	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil
% Solids: 82 Initial Calibration ID: HP2 16-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 09:29
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6100	12000	9300	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	68.2	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil
% Solids: 82 Initial Calibration ID: HP2 16-MAY-2001
Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 09:43
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6100	12000	8500	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	73.2	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 09:57

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6100	12000	10000	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	68.2	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:12

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6410	13000	260000	1	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	60.0	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:26

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6170	12000	7300	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	64.2	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG97877

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:40

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6100	12000	7900	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	69.1	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015
Lab Name : Kemron Environmental Services
Base/Command : NAS Cecil Field

AAB # : WG97873
Contract # :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 01-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3510C AAB # : WG97873

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 13:34

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	260	520	260	1.04	ND

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	91.1	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97846

Contract # :

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 04-JUN-01

Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: IRIS-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:09

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.16	6.6	12000	1	
Antimony, Total	0.592	13	0.592	1	ND
Barium, Total	0.0184	0.66	16.0	1	
Beryllium, Total	0.0105	0.66	0.066	1	J
Cadmium, Total	0.0421	0.66	0.0421	1	ND
Calcium, Total	3.71	13	430	1	
Chromium, Total	0.0789	1.3	8.30	1	
Cobalt, Total	0.0566	1.3	1.10	1	J
Copper, Total	0.191	1.3	0.380	1	J
Iron, Total	1.47	2.6	2100	1	
Magnesium, Total	6.01	33	290	1	
Manganese, Total	0.00921	0.66	5.10	1	
Nickel, Total	0.137	2.6	4.60	1	
Potassium, Total	7.76	66	140	1	
Selenium, Total	0.337	1.3	1.50	1	
Silver, Total	0.136	2.6	0.150	1	J
Sodium, Total	1.13	33	15.0	1	J
Thallium, Total	0.458	2.6	0.458	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:09

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.300	0.66	10.0	1	
Zinc, Total	0.612	1.3	3.40	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:19

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.00	6.3	19000	1	
Antimony, Total	0.570	13	0.570	1	ND
Barium, Total	0.0177	0.63	9.70	1	
Beryllium, Total	0.0101	0.63	0.042	1	J
Cadmium, Total	0.0405	0.63	0.0405	1	ND
Calcium, Total	3.57	13	950	1	
Chromium, Total	0.0759	1.3	20.0	1	
Cobalt, Total	0.0544	1.3	0.490	1	J
Copper, Total	0.184	1.3	0.184	1	ND
Iron, Total	1.42	2.5	1400	1	
Magnesium, Total	5.78	32	250	1	
Manganese, Total	0.00886	0.63	1.10	1	
Nickel, Total	0.132	2.5	3.50	1	
Potassium, Total	7.47	63	81.0	1	
Selenium, Total	0.324	1.3	1.80	1	
Silver, Total	0.130	2.5	0.130	1	ND
Sodium, Total	1.09	32	13.0	1	J
Thallium, Total	0.441	2.5	0.441	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:19

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.289	0.63	12.0	1	
Zinc, Total	0.589	1.3	1.00	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.00	6.3	23000	1	
Antimony, Total	0.570	13	36.0	1	
Barium, Total	0.0177	0.63	570	1	
Beryllium, Total	0.0101	0.63	58.0	1	
Cadmium, Total	0.0405	0.63	55.0	1	
Calcium, Total	3.57	13	1500	1	
Chromium, Total	0.0759	1.3	73.0	1	
Cobalt, Total	0.0544	1.3	56.0	1	
Copper, Total	0.184	1.3	55.0	1	
Iron, Total	1.42	2.5	4300	1	
Magnesium, Total	5.78	32	990	1	
Manganese, Total	0.00886	0.63	57.0	1	
Nickel, Total	0.132	2.5	62.0	1	
Potassium, Total	7.47	63	2900	1	
Selenium, Total	0.324	1.3	55.0	1	
Silver, Total	0.130	2.5	11.0	1	
Sodium, Total	1.09	32	2800	1	
Thallium, Total	0.441	2.5	55.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.289	0.63	74.0	1	
Zinc, Total	0.589	1.3	58.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:43

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.00	6.3	26000	1	
Antimony, Total	0.570	13	39.0	1	
Barium, Total	0.0177	0.63	630	1	
Beryllium, Total	0.0101	0.63	63.0	1	
Cadmium, Total	0.0405	0.63	60.0	1	
Calcium, Total	3.57	13	1600	1	
Chromium, Total	0.0759	1.3	82.0	1	
Cobalt, Total	0.0544	1.3	62.0	1	
Copper, Total	0.184	1.3	61.0	1	
Iron, Total	1.42	2.5	8800	1	
Magnesium, Total	5.78	32	1100	1	
Manganese, Total	0.00886	0.63	61.0	1	
Nickel, Total	0.132	2.5	68.0	1	
Potassium, Total	7.47	63	3200	1	
Selenium, Total	0.324	1.3	61.0	1	
Silver, Total	0.130	2.5	12.0	1	
Sodium, Total	1.09	32	3100	1	
Thallium, Total	0.441	2.5	61.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 21-MAY-01 19:43

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.289	0.63	85.0	1	
Zinc, Total	0.589	1.3	64.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:25

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.85	6.1	16000	1	
Antimony, Total	0.549	12	0.549	1	ND
Barium, Total	0.0171	0.61	11.0	1	
Beryllium, Total	0.00976	0.61	0.047	1	J
Cadmium, Total	0.039	0.61	0.065	1	J
Calcium, Total	3.44	12	890	1	
Chromium, Total	0.0732	1.2	11.0	1	
Cobalt, Total	0.0524	1.2	0.450	1	J
Copper, Total	0.177	1.2	0.177	1	ND
Iron, Total	1.37	2.4	1000	1	
Magnesium, Total	5.57	30	250	1	
Manganese, Total	0.00854	0.61	1.30	1	
Nickel, Total	0.127	2.4	3.50	1	
Potassium, Total	7.20	61	110	1	
Selenium, Total	0.312	1.2	1.30	1	
Silver, Total	0.126	2.4	0.126	1	ND
Sodium, Total	1.05	30	7.80	1	J
Thallium, Total	0.424	2.4	0.424	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:25

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.278	0.61	6.20	1	
Zinc, Total	0.567	1.2	1.40	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:29

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.85	6.1	25000	1	
Antimony, Total	0.549	12	0.549	1	ND
Barium, Total	0.0171	0.61	9.90	1	
Beryllium, Total	0.00976	0.61	0.043	1	J
Cadmium, Total	0.039	0.61	0.039	1	ND
Calcium, Total	3.44	12	260	1	
Chromium, Total	0.0732	1.2	21.0	1	
Cobalt, Total	0.0524	1.2	0.570	1	J
Copper, Total	0.177	1.2	0.177	1	ND
Iron, Total	1.37	2.4	1600	1	
Magnesium, Total	5.57	30	190	1	
Manganese, Total	0.00854	0.61	1.60	1	
Nickel, Total	0.127	2.4	4.50	1	
Potassium, Total	7.20	61	87.0	1	
Selenium, Total	0.312	1.2	1.80	1	
Silver, Total	0.126	2.4	0.126	1	ND
Sodium, Total	1.05	30	15.0	1	J
Thallium, Total	0.424	2.4	0.424	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:29

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.278	0.61	20.0	1	
Zinc, Total	0.567	1.2	1.20	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:34

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.85	6.1	15000	1	
Antimony, Total	0.549	12	0.549	1	ND
Barium, Total	0.0171	0.61	11.0	1	
Beryllium, Total	0.00976	0.61	0.045	1	J
Cadmium, Total	0.039	0.61	0.039	1	ND
Calcium, Total	3.44	12	690	1	
Chromium, Total	0.0732	1.2	11.0	1	
Cobalt, Total	0.0524	1.2	0.600	1	J
Copper, Total	0.177	1.2	0.400	1	J
Iron, Total	1.37	2.4	3100	1	
Magnesium, Total	5.57	30	200	1	
Manganese, Total	0.00854	0.61	2.10	1	
Nickel, Total	0.127	2.4	3.30	1	
Potassium, Total	7.20	61	120	1	
Selenium, Total	0.312	1.2	1.30	1	
Silver, Total	0.126	2.4	0.126	1	ND
Sodium, Total	1.05	30	6.70	1	J
Thallium, Total	0.424	2.4	0.424	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:34

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.278	0.61	10.0	1	
Zinc, Total	0.567	1.2	1.70	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.05	6.4	26000	1	
Antimony, Total	0.577	13	0.577	1	ND
Barium, Total	0.0179	0.64	20.0	1	
Beryllium, Total	0.0103	0.64	0.072	1	J
Cadmium, Total	0.041	0.64	0.044	1	J
Calcium, Total	3.62	13	620	1	
Chromium, Total	0.0769	1.3	16.0	1	
Cobalt, Total	0.0551	1.3	0.670	1	J
Copper, Total	0.186	1.3	0.370	1	J
Iron, Total	1.44	2.6	1600	1	
Magnesium, Total	5.86	32	250	1	
Manganese, Total	0.00897	0.64	3.20	1	
Nickel, Total	0.133	2.6	4.70	1	
Potassium, Total	7.56	64	150	1	
Selenium, Total	0.328	1.3	1.80	1	
Silver, Total	0.132	2.6	0.132	1	ND
Sodium, Total	1.10	32	7.00	1	J
Thallium, Total	0.446	2.6	0.446	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.292	0.64	10.0	1	
Zinc, Total	0.596	1.3	2.60	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:44

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.90	6.2	23000	1	
Antimony, Total	0.556	12	0.556	1	ND
Barium, Total	0.0173	0.62	9.70	1	
Beryllium, Total	0.00988	0.62	0.057	1	J
Cadmium, Total	0.0395	0.62	0.0395	1	ND
Calcium, Total	3.48	12	530	1	
Chromium, Total	0.0741	1.2	22.0	1	
Cobalt, Total	0.0531	1.2	0.750	1	J
Copper, Total	0.179	1.2	0.750	1	J
Iron, Total	1.38	2.5	8600	1	
Magnesium, Total	5.64	31	150	1	
Manganese, Total	0.00864	0.62	0.930	1	
Nickel, Total	0.128	2.5	3.70	1	
Potassium, Total	7.28	62	95.0	1	
Selenium, Total	0.316	1.2	3.90	1	
Silver, Total	0.127	2.5	0.127	1	ND
Sodium, Total	1.06	31	8.00	1	J
Thallium, Total	0.430	2.5	0.430	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:44

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.281	0.62	51.0	1	
Zinc, Total	0.574	1.2	0.720	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:49

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.85	6.1	13000	1	
Antimony, Total	0.549	12	0.549	1	ND
Barium, Total	0.0171	0.61	6.70	1	
Beryllium, Total	0.00976	0.61	0.043	1	J
Cadmium, Total	0.039	0.61	0.052	1	J
Calcium, Total	3.44	12	790	1	
Chromium, Total	0.0732	1.2	11.0	1	
Cobalt, Total	0.0524	1.2	0.440	1	J
Copper, Total	0.177	1.2	0.180	1	J
Iron, Total	1.37	2.4	3000	1	
Magnesium, Total	5.57	30	210	1	
Manganese, Total	0.00854	0.61	0.990	1	
Nickel, Total	0.127	2.4	2.60	1	
Potassium, Total	7.20	61	91.0	1	
Selenium, Total	0.312	1.2	1.60	1	
Silver, Total	0.126	2.4	0.126	1	ND
Sodium, Total	1.05	30	12.0	1	J
Thallium, Total	0.424	2.4	0.424	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG97846

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: IRIS-ICP

Date Received: 18-MAY-01 Date Extracted: 18-MAY-01 Date Analyzed: 24-MAY-01 01:49

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.278	0.61	8.10	1	
Zinc, Total	0.567	1.2	2.20	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG98120

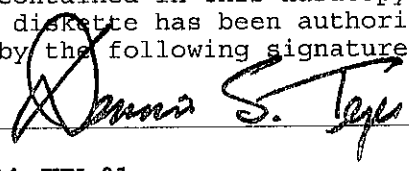
Contract # :

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Dennis S. Tepe

Date: 04-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG98120

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 24-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 24-MAY-01 11:03

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.049	0.10	0.049	1	ND
Arsenic, Total	0.000796	0.004	0.000796	1	ND
Barium, Total	0.0016	0.01	0.0016	1	ND
Beryllium, Total	0.000035	0.01	0.000035	1	ND
Cadmium, Total	0.00071	0.01	0.00071	1	ND
Calcium, Total	0.0308	0.20	0.270	1	
Chromium, Total	0.000647	0.005	0.000647	1	ND
Cobalt, Total	0.00047	0.02	0.00047	1	ND
Copper, Total	0.0019	0.02	0.0019	1	ND
Iron, Total	0.0046	0.04	0.026	1	J
Magnesium, Total	0.00991	0.50	0.063	1	J
Manganese, Total	0.00021	0.01	0.00022	1	J
Nickel, Total	0.0036	0.04	0.0036	1	ND
Potassium, Total	0.250	1.0	0.250	1	ND
Silver, Total	0.00045	0.004	0.00045	1	ND
Sodium, Total	0.150	0.50	0.150	1	ND
Vanadium, Total	0.0036	0.01	0.0036	1	ND
Zinc, Total	0.00317	0.02	0.00317	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6020A

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97792

Contract # :

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 04-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:09

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.329	0.66	0.459	10	J
Lead, Total	0.329	0.66	7.20	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 15:45

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.316	0.63	0.316	10	ND
Lead, Total	0.316	0.63	4.76	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 15:50

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.316	0.63	10.7	10	
Lead, Total	0.316	0.63	19.7	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 15:55

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.316	0.63	11.2	10	
Lead, Total	0.316	0.63	22.2	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:14

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.305	0.61	0.305	10	ND
Lead, Total	0.305	0.61	7.02	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:19

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.305	0.61	0.305	10	ND
Lead, Total	0.305	0.61	6.48	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:24

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.305	0.61	0.466	10	J
Lead, Total	0.305	0.61	5.27	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:29

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.321	0.64	0.321	10	ND
Lead, Total	0.321	0.64	3.33	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:34

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.309	0.62	0.986	10	
Lead, Total	0.309	0.62	5.89	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3051 AAB # : WG97792

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: ELAN-ICP 21-MAY-01

Date Received: 18-MAY-01 Date Extracted: 20-MAY-01 Date Analyzed: 21-MAY-01 17:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.305	0.61	0.568	10	J
Lead, Total	0.305	0.61	5.15	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6020A**

AAB # : **WG98190**

Lab Name : **Kemron Environmental Services**

Contract # :

Base/Command : **NAS Cecil Field**

Prime Contractor : **CCI, Inc.**

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **04-JUN-01**

Title: **Laboratory Manager**

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG98190

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: ELAN-ICP 25-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 25-MAY-01 12:25

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Antimony, Total	0.0005	0.001	0.0005	1	ND
Lead, Total	0.0005	0.001	0.0005	1	ND
Selenium, Total	0.0005	0.001	0.0005	1	ND
Thallium, Total	0.0001	0.0002	0.0001	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 7471A

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG97966

Contract # :

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25CS1-S-0517-01	L0105404-01
005-25CS2-S-0517-01	L0105404-02
005-25CS2-S-0517-01/MS	L0105404-03
005-25CS2-S-0517-01/MS	L0105404-04
005-25CS3-S-0517-01	L0105404-05
005-25CS4-S-0517-01	L0105404-06
005-25CS5-S-0517-01	L0105404-07
005-25CS6-S-0517-01	L0105404-08
005-25CS7-S-0517-01	L0105404-09
005-25DUP1-S-0517-01	L0105404-10

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 04-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS1-S-0517-01 Lab Sample ID: L0105404-01 Matrix: Soil

% Solids: 76 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:13

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0237	0.33	0.0237	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01 Lab Sample ID: L0105404-02 Matrix: Soil

% Solids: 79 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:16

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0228	0.32	0.0228	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MS Lab Sample ID: L0105404-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:17

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0228	0.32	0.240	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS2-S-0517-01/MSD Lab Sample ID: L0105404-04 Matrix: Soil

% Solids: 79 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:19

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0228	0.32	0.240	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS3-S-0517-01 Lab Sample ID: L0105404-05 Matrix: Soil

% Solids: 82 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:20

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.022	0.30	0.022	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS4-S-0517-01 Lab Sample ID: L0105404-06 Matrix: Soil

% Solids: 82 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:25

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.022	0.30	0.022	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS5-S-0517-01 Lab Sample ID: L0105404-07 Matrix: Soil

% Solids: 82 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:26

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.022	0.30	0.022	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS6-S-0517-01 Lab Sample ID: L0105404-08 Matrix: Soil

% Solids: 78 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:28

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0231	0.32	0.032	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS7-S-0517-01 Lab Sample ID: L0105404-09 Matrix: Soil

% Solids: 81 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:29

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0222	0.31	0.027	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG97966

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25DUP1-S-0517-01 Lab Sample ID: L0105404-10 Matrix: Soil

% Solids: 82 Initial Calibration ID: PS202 23-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 23-MAY-01 10:30

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.022	0.30	0.022	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 7470A

AAB # : WG97889

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : NAS Cecil Field

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25EB1-S-0517-01	L0105404-11

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe

Name: Dennis S. Tepe

Date: 04-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7470A Preparatory Method: METHOD AAB # : WG97889

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB1-S-0517-01 Lab Sample ID: L0105404-11 Matrix: Water

% Solids: 0 Initial Calibration ID: PS202 22-MAY-01

Date Received: 18-MAY-01 Date Extracted: 21-MAY-01 Date Analyzed: 22-MAY-01 11:35

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.000052	0.0002	0.000052	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

05/08/2001

ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LRR - LUCYNDA R. ROBERTS
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SKH - SHARON K. HANDSCHUMACHER
SLC - SHAWN L. COLE
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

148799-23

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	148799	Kemron Environmental Services	Jennifer Zimmerman, CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904 777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Grey Sites III - Site 25 Excavation Confirmation	CTO 005	2880	Jeff Wilmoth, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (740) 373-4071 FAX (740)-373-4835	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Bill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) EPA 8260 Volatiles	EPA 8270 Semi-Volatiles	EPA 8270 PAH Low	EPA 8081A Pesticides	EPA 0082 PCBs	TAL Metals As, Cd, Cr, Pb	FL PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	005-25CS1-S-0517-01	sample location CS-1	soil	05/17/01	15:00	III/C	7	x	x	x	x	x	x	x						
2	005-25CS2-S-0517-01	sample location CS-2	soil	05/17/01	15:05	III/C	7	x	x	x	x	x	x	x						
3	005-25CS2-S-0517-01	MS/MSD	soil	05/17/01	15:10	III/C	7	x	x	x	x	x	x	x						
4	005-25CS3-S-0517-01	sample location CS-3	soil	05/17/01	15:20	III/C	7	x	x	x	x	x	x	x						
5	005-25CS4-S-0517-01	sample location CS-4	soil	05/17/01	15:30	III/C	7	x	x	x	x	x	x	x						
6	005-25CS5-S-0517-01	sample location CS-5	soil	05/17/01	15:40	III/C	7	x	x	x	x	x	x	x						
7	005-25CS6-S-0517-01	sample location CS-6	soil	05/17/01	15:50	III/C	7	x	x	x	x	x	x	x						
	005-25CS7-S-0517-01	sample location CS-7	soil	05/17/01	16:00	III/C	7	x	x	x	x	x	x	x						
8	005-25DUP1-S-0517-01	duplicate #1	soil	05/17/01	--	III/C	7	x	x	x	x	x	x	x						
9	005-25EB1-W-0517-01	equip blank #1	wtr	05/17/01	16:05	III/C	7	x	x	x	x	x	x	x						
10	005-2TB1-W-0517-01	trip blank #1	wtr	05/17/01	--	III/C	7	x												Lot Sealed Sx intact

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: 0.1

SAMPLER(S) AND COMPANY: (please print)
Dave Keul, CCI/JAJES

COURIER AND SHIPPING NUMBER:
FedEx Tracking #828023556344 & 822544562089

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Bill Canelos, CCI/JAJES	5/17/01	16:50	FedEx Tracking #828023556344 & 822544562089	5/17/01	16:50
Printed Name and Signature:			Printed Name and Signature: Angelina P. Scott	5-18-01	953

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

KEMRON Internal Laboratory Chain of Custody

Work Order: L015404 **Client:** CCI **# of Samples:** 12 **Due Date:** 5/25/01 **Page:** 1

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
1-10	8260SL	anal	CWS 5-18-01 @1415	VI	VOA frig	CWS	CWS 6-5-01 @1300	archive	BLG	archive
11 A	MET	DIG	@1600 FD 05-18-01	walk in	DIG	BLG	@1600 FD 05-22-01	archive	CWS	archive
01-10A	MET	DIG	@1600 FD 05-18-01	walk in	DIG	BLG	VC 5/22/01 1340	Archives	CWS	Archive
11,12 all	8270 ADUL	anal	CDS 5/18/01 @2110	V-1	VOA frig	SRS	CWS 6-5-01 @1300	archive	BLG	archive
01-10A	PEST/PCB/BNA	EXT	CEB 5/21/01 @ 0708	WALKIN	ELAB	DSK	CEB 5/21/01 @ 1503	Archive	BLG	Archive
11A	BNA	EXT	5/21/01 @0715 MW	WALKIN	ELAB	JJS	JEA 5/22/01 0800	dumpster	CEB	disposal
11A	8081/8082	EXT	MW 5/21/01 @0715	WALKIN	ELAB	JJS	JEA 5/22/01 0800	dumpster	CEB	disposal
1-10A	PCT-5	test	Timm @845 5/21/01	walk in	elt	SKW	Timm @1445 5/21/01	archive	BLG	archive
11A	DAHL	EXT	CEB 5/21/01 @ 1404	WALKIN	ELAB	CWS	JEA 5/22/01 0800	dumpster	CEB	disposal
11A	FLA PRO	EXT	JAS 5/21/01 17:40	walk in	Elab	~~JCW~~ CWS	JEA 5/22/01 0800	dumpster	CEB	disposal

KEMRON Environmental Services | **SAMPLES RECEIPT FORM #1** | Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
CCI BRG ARS Other _____	5-8-01	(✓) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

	COOLER ID: KL1063	COOLER ID: KL1010	COOLER ID:
	INDEX # : 822544562089	INDEX # : 828023556344	INDEX # :
	SEALED (✓) YES ( ) NO	SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO
	CUSTODY (✓) YES ( ) NO	CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO
	TEMP : (C) (D) 0 °C	TEMP : (C) (D) 1 °C	TEMP : (C) (D) °C
	TEMP IN RANGE ( ) YES (✓) NO (4°C ± 2°)	TEMP IN RANGE ( ) YES (✓) NO (4°C ± 2°)	TEMP IN RANGE ( ) YES ( ) NO (4°C ± 2°)
	WET ICE (✓) BLUE ICE ( )	WET ICE (✓) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
	ICE FROZEN (✓) MELTED ( )	ICE FROZEN (✓) MELTED ( )	ICE FROZEN ( ) MELTED ( )
	RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
	SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
	SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
	LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
	pH IN RANGE (2 - >9 - >12) (✓) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) (✓) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE
	LOG-IN COMMENTS (W)	LOG-IN COMMENTS (S)	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

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CRF#4

Sample Receipt Form #2

Client: CCI Project: Nas Cecil Field

Date Received: 5-18-01

_____ Cooler temperature > than 6 degrees Celcius

Reason _____

_____ Samples received not on chain of custody

_____ Samples on chain of custody not received

_____ Information on sample containers different from chain of custody

X Sample containers received broken, leaking or not sealed (List sample ID)

All 5x jars have water in them other then CS7, Water is not standing on jars. 1 encore of the dup 5x need w/water in them. ✓ 5X is just moist

_____ pH out (List sample ID & which container)

? Insufficient sample volume

Only have 3 encores for the MS/MSD

_____ Air bubbles present in Voa vials (List sample ID)

_____ Hold time expired (List sample ID)

TSR:

Was client notified regarding information: YES NO

Name of person contacted: Bill Canelos Company: CCF

TSR: Q Scott Date: 5-18-01

Attach: Phone Logs, e-mails, faxes, etc.

COOLER RECEIPT FORM

Contractor Cooler _____
MRD Cooler # _____
Number of Coolers 2

PROJECT: NAS Cecil Field LIMS# _____

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONERNING CHECK-IN PROBLEMS

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler opened: 5-18-01 C-of-C Number: 148799.23
by (print) Angelina R. Scott (sign) Angelina R. Scott

1. Did cooler come with a shipping slip (air bill, etc.)? ..... (YES) NO
   If YES, enter carrier name & air bill number here: Fedex See CRF # 3
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many & where? 2-front, seal date: 5/17/01 seal name: Kemron
3. Were custody seals unbroken and intact at the data and time of arrival? ..... (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter? ..... (YES) NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
7. Did you sign custody papers in the appropriate place? ..... (YES) NO
8. Was project identifiable from custody papers? If yes, enter project name at the top of this form ..... (YES) NO
9. If required, was enough ice used? ..... Type of ice: wet Temp 2.0 °C ..... (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: AS (date) 5-18-01

B. **LOG-IN PHASE:** Date samples were logged-in: 5-18-01
by (print) Angelina R. Scott (sign) Angelina R. Scott

11. Describe type of packing in cooler: plastic dividers, foamies, baggies
12. Were all bottles sealed in separate plastic bags? ..... YES (NO)
13. Did all bottles arrive unbroken & were labels in good condition? ..... (YES) NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
15. Did all bottle labels agree with custody papers? ..... (YES) NO
16. Were correct containers used for the tests indicated? ..... (YES) NO
17. Were correct preservatives added to samples? ..... (YES) NO
18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
19. Were bubbles absent in volatile samples? If NO, list by Sample # _____ (YES) NO
20 Was the project manager called and status discussed? If YES, give details on the back of this form ..... (YES) NO
21. Who was called? _____ By whom? _____ (date) _____

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2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0105404

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD associated with sample fraction 02 yielded % recoveries for several compounds that were outside of the advisory limits. All of these outliers were acceptable in the associated LCS. All other acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample fraction 02 yielded a % recovery for 1,2-dichloroethane-d4 that was above the upper surrogate limit. Samplr fraction 08 yielded a % recovery for 4-BFB that was above the upper advisory limit. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: MES REVIEWED: Stephanie Lepe DATE: 5/31/01

VOLATILES GC/MS DATA

Login Number: L0105404

A. QC Summary

- ✓ Batch QC Summary Forms
- ✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

- ✓ Target Compound List Results - See Summary Report
- ne Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
- ✓ Reconstructed total ion chromatograph (RIC) and quantitation report for each sample
- ✓ Raw spectra and background subtracted mass spectra of target compounds identified
- na Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

- ✓ Initial calibration data summary form
- ✓ Chromatograms and quantitation reports for initial calibration standards
- ✓ Continuing calibration data summary form
- ✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

- ✓ GC/MS Instrument Performance Check (BFB)
- ✓ Blank chromatogram and quantitation report
- ✓ Laboratory Control Sample chromatogram and quantitation report
- na Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- ✓ Instrument runlogs
- na 5035 preservation logs

Checked By: Cwatson **Date:** 5-30-01

2.1.1.1 QC Summary

VOA - GC/MS

Date: 5.18.01 Analyst: MES Method: 8260 624

Instrument: HPMS9 Work Group: WG 976659

	Analyst
System Performance Check	✓
BFB	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source standard % Difference	✓
Continuing Calibration / Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	—
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Spectra of TCL Hits	✓
Surrogates	✓
Internal Standards Criteria	✓
Calculations & Correct Factors	✓
Dilutions Run	NA
Reruns	⊥
Excel Spreadsheets	✓
Case Narrative	
Narrative Summary	✓
Results Reporting / Data Qualifiers	✓
Client Data Package Assembly	
Check for Completeness	✓

Primary Reviewers Initials & Date Checked: mcg 5.21.01

Secondary Reviewers Initials & Date Checked: MT 5/21/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked: _____

Comments: _____

✓ = Checked & OK
NA = Not Applicable

VOA - GC/MS

Date: 5-22-01 (PM) **Analyst:** CMS **Method:** (8260) 624

Instrument: HPMS6 **Work Group:** WG97946

	Analyst
System Performance Check	✓
BFB	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source standard % Difference	✓
Continuing Calibration / Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Spectra of TCL Hits	✓
Surrogates	✓
Internal Standards Criteria	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	NA
Excel Spreadsheets	✓
Case Narrative	
Narrative Summary	✓
Results Reporting / Data Qualifiers	✓
Client Data Package Assembly	
Check for Completeness	✓

Primary Reviewers Initials & Date Checked: CMS 5-23-01

Secondary Reviewers Initials & Date Checked: SLT 5/23/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked: _____

Comments: _____

✓ = Checked & OK
NA = Not Applicable

Workgroup:	WG97659	Run Date:	5/18/01	Sample Number:	05-404-02	LCS DF: 1
Method:	8260B	Instrument:	HPMS9	Sample Filename:	9M15697.D	Sample DF: 0.8
Matrix:	Soil	Blank Filename:	9M15689.D	MS Filename:	9M15699.D	MS DF: 1.0
Units:	ug/kg	LCS Filename:	9M15690.D	MSD Filename:	9M15700.D	MSD DF: 0.8

		CONCENTRATION, ug/kg							PERCENT RECOVERY								OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	MS Spike	MSD Spike	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	1.00	ND	16.91	ND	17.85	12.90	20.0	16.0	ND	84.6	ND	89.3	80.6	70.0	130.0	9.0	28.0					
chloromethane	2.00	ND	21.16	ND	21.70	15.67	20.0	16.0	ND	105.8	ND	108.5	97.9	32.0	189.0	9.0	96.0					
vinyl chloride	1.00	ND	19.63	ND	22.47	15.74	20.0	16.0	ND	98.2	ND	112.4	98.4	59.0	172.0	11.7	69.0					
bromomethane	1.00	ND	24.44	ND	25.07	17.08	20.0	16.0	ND	122.2	ND	125.4	106.8	38.0	164.0	14.1	77.0					
chloroethane	1.00	ND	21.89	ND	24.82	17.30	20.0	16.0	ND	109.5	ND	124.1	108.1	46.0	175.0	12.1	80.0					
trichlorofluoromethane	1.00	ND	19.73	ND	22.36	15.97	20.0	16.0	ND	98.7	ND	111.8	99.8	37.0	168.0	10.0	22.0					
acetone	2.50	ND	15.52	ND	11.35	6.69	20.0	16.0	ND	77.6	ND	56.8	41.8	10.0	179.0	26.5	51.0					
1,1-dichloroethene	0.50	ND	18.99	ND	21.83	16.03	20.0	16.0	ND	95.0	ND	109.2	100.2	70.0	137.0	7.6	32.0					
iodomethane	1.00	ND	26.78	ND	30.99	21.99	20.0	16.0	ND	133.9	ND	155.0	137.4	10.0	247.0	10.6	164.0					
methylene chloride	1.00	ND	21.00	ND	21.62	15.17	20.0	16.0	ND	105.0	ND	108.1	94.8	70.0	131.0	11.6	36.0					
carbon disulfide	0.50	ND	17.36	ND	20.59	12.63	20.0	16.0	ND	86.8	ND	103.0	78.9	49.0	154.0	23.1	64.0					
methyl-tert-butyl ether	0.50	ND	17.28	ND	17.26	11.38	20.0	16.0	ND	86.4	ND	86.3	71.1	62.1	NA	17.0	52.0					
trans-1,2-dichloroethene	0.50	ND	20.62	ND	23.72	17.19	20.0	16.0	ND	103.1	ND	118.6	107.4	70.0	130.0	8.7	26.0					
n-hexane	0.50	ND	21.24	ND	24.45	16.17	20.0	16.0	ND	106.2	ND	122.3	101.1	51.0	151.0	16.7	61.0					
vinyl acetate	1.00	ND	14.27	ND	12.40	7.46	20.0	16.0	ND	71.4	ND	62.0	46.6	10.0	179.0	24.8	105					
1,1-dichloroethane	1.00	ND	22.32	ND	24.59	17.06	20.0	16.0	ND	111.6	ND	123.0	106.6	70.0	130.0	12.5	26.0					
2-butanone	2.50	ND	17.61	ND	13.25	8.56	20.0	16.0	ND	88.1	ND	66.3	53.5	29.0	159.0	18.7	79.0					
2,2-dichloropropane	0.50	ND	20.47	ND	24.08	16.92	20.0	16.0	ND	102.4	ND	120.4	105.8	70.0	136.0	11.4	35.0					
cis-1,2-dichloroethene	0.50	ND	20.15	ND	22.43	15.67	20.0	16.0	ND	100.8	ND	112.2	97.9	70.0	130.0	11.9	29.0					
chloroform	0.50	ND	22.14	ND	24.32	16.90	20.0	16.0	ND	110.7	ND	121.6	105.6	70.0	131.0	12.4	29.0					
bromochloromethane	0.50	ND	21.06	ND	20.74	14.58	20.0	16.0	ND	105.3	ND	103.7	91.1	65.0	140.0	11.4	56.0					
1,1,1-trichloroethane	0.50	ND	20.81	ND	24.55	17.20	20.0	16.0	ND	104.1	ND	122.8	107.5	70.0	138.0	11.7	36.0					
1,1-dichloropropene	0.50	ND	18.06	ND	22.32	15.40	20.0	16.0	ND	90.3	ND	111.6	96.3	70.0	159.0	13.0	43.0					
carbon tetrachloride	0.50	ND	22.13	ND	26.13	17.71	20.0	16.0	ND	110.7	ND	130.7	110.7	70.0	144.0	14.6	41.0					
1,2-dichloroethane	0.50	ND	21.38	ND	21.18	14.06	20.0	16.0	ND	106.9	ND	105.9	87.9	70.0	130.0	16.4	51.0					
benzene	0.50	ND	22.27	ND	24.57	17.49	20.0	16.0	ND	111.4	ND	122.9	109.3	70.0	130.0	10.3	20.0					
trichloroethene	0.50	ND	20.95	ND	22.90	16.63	20.0	16.0	ND	104.8	ND	114.5	103.9	70.0	130.0	8.6	22.0					
1,2-dichloropropane	0.50	ND	20.35	ND	22.99	15.58	20.0	16.0	ND	101.8	ND	115.0	97.4	70.0	130.0	14.6	25.0					
bromodichloromethane	0.50	ND	21.95	ND	22.82	15.33	20.0	16.0	ND	109.8	ND	114.1	95.8	70.0	136.0	15.3	31.0					
dibromomethane	0.50	ND	21.98	ND	19.44	12.78	20.0	16.0	ND	109.9	ND	97.2	79.9	70.0	130.0	17.2	28.0					
2-chloroethylvinyl ether	0.50	ND	15.66	ND	16.03	10.58	20.0	16.0	ND	78.3	ND	80.2	66.1	10.0	246.0	16.9	182.0					
4-methyl-2-pentanone	2.50	ND	17.84	ND	14.56	10.68	20.0	16.0	ND	89.2	ND	72.8	66.8	45.0	153.0	7.7	67.0					
cis-1,3-dichloropropene	0.50	ND	19.22	ND	19.89	13.81	20.0	16.0	ND	96.1	ND	99.5	86.3	70.0	141.0	12.5	39.0					
toluene	0.50	ND	22.00	ND	24.73	17.38	20.0	16.0	ND	110.0	ND	123.7	108.6	70.0	130.0	11.4	26.0					
trans-1,3-dichloropropene	0.50	ND	17.85	ND	19.19	12.30	20.0	16.0	ND	89.3	ND	96.0	76.9	70.0	130.0	19.4	27.0					
1,1,2-trichloroethane	0.50	ND	18.72	ND	19.76	12.63	20.0	16.0	ND	93.6	ND	98.8	78.9	70.0	130.0	19.6	22.0					
2-hexanone	2.50	ND	14.66	ND	10.63	6.40	20.0	16.0	ND	73.3	ND	53.2	40.0	42.0	138.0	24.7	59.0				L	
1,3-dichloropropane	0.50	ND	17.70	ND	18.44	12.43	20.0	16.0	ND	88.5	ND	92.2	77.7	70.0	130.0	15.0	24.0					
tetrachloroethene	0.50	ND	19.03	ND	22.18	15.92	20.0	16.0	ND	95.2	ND	110.9	99.5	70.0	130.0	9.6	24.0					
dibromochloromethane	0.50	ND	18.06	ND	18.34	11.96	20.0	16.0	ND	90.3	ND	91.7	74.8	70.0	130.0	17.9	29.0					
1,2-dibromoethane	0.50	ND	17.38	ND	17.11	10.99	20.0	16.0	ND	86.9	ND	85.6	68.7	70.0	130.0	19.2	22.0				L	
1-chlorohexane	0.50	ND	17.97	ND	19.37	13.31	20.0	16.0	ND	89.9	ND	96.9	83.2	70.0	139.0	13.4	40.0					
chlorobenzene	0.50	ND	20.65	ND	21.55	14.96	20.0	16.0	ND	103.3	ND	107.8	93.5	70.0	130.0	12.5	20.0					
1,1,1,2-tetrachloroethane	0.50	ND	18.99	ND	21.67	14.39	20.0	16.0	ND	95.0	ND	108.4	89.9	70.0	131.0	16.3	29.0					
ethylbenzene	0.50	ND	21.99	ND	23.71	16.95	20.0	16.0	ND	110.0	ND	118.6	105.9	70.0	130.0	9.9	20.0					
m+p-xylene	0.50	ND	47.70	ND	46.88	34.80	40.0	32.0	ND	119.3	ND	117.2	108.8	70.0	130.0	6.6	33.0					
o-xylene	0.50	ND	22.22	ND	21.81	17.30	20.0	16.0	ND	111.1	ND	109.1	108.1	70.0	130.0	0.8	21.0					
styrene	0.50	ND	21.52	ND	20.67	15.46	20.0	16.0	ND	107.6	ND	103.4	96.6	70.0	130.0	6.0	26.0					
bromoform	0.50	ND	19.04	ND	16.48	11.34	20.0	16.0	ND	95.2	ND	82.4	70.9	70.0	130.0	13.3	33.0					
isopropylbenzene	0.30	ND	20.11	ND	21.13	16.10	20.0	16.0	ND	100.6	ND	105.7	100.6	85.0	124.0	4.3	15.0					
1,1,2,2-tetrachloroethane	0.50	ND	17.53	ND	16.26	10.94	20.0	16.0	ND	87.7	ND	81.3	68.4	70.0	130.0	15.2	28.0				L	
1,2,3-trichloropropane	0.64	ND	18.23	ND	16.87	10.46	20.0	16.0	ND	91.2	ND	84.4	65.4	70.0	130.0	22.2	28.0				L	
propyl-benzene	0.50	ND	20.83	ND	22.61	16.76	20.0	16.0	ND	104.2	ND	113.1	104.8	70.0	130.0	6.7	26.0					
bromobenzene	0.50	ND	19.46	ND	20.18	13.92	20.0	16.0	ND	97.3	ND	100.9	87.0	70.0	130.0	13.0	22.0					
1,3,5-trimethylbenzene	0.50	ND	20.34	ND	21.60	15.88	20.0	16.0	ND	101.7	ND	108.0	99.3	70.0	130.0	7.5	22.0					
2-chlorotoluene	0.50	ND	20.48	ND	20.62	15.40	20.0	16.0	ND	102.4	ND	103.1	96.3	70.0	130.0	6.1	24.0					
4-chlorotoluene	0.50	ND	22.68	ND	21.75	15.65	20.0	16.0	ND	113.4	ND	108.8	97.8	70.0	130.0	9.4	23.0					
tert-butyl-benzene	0.50	ND	18.56	ND	20.17	14.81	20.0	16.0	ND	92.8	ND	100.9	92.6	70.0	130.0	7.6	30.0					
1,2,4-trimethylbenzene	0.50	ND	21.45	ND	21.62	15.74	20.0	16.0	ND	107.3	ND	108.1	98.4	70.0	130.0	8.3	22.0					
sec-butyl-benzene	0.50	ND	20.06	ND	22.18	16.51	20.0	16.0	ND	100.3	ND	110.9	103.2	70.0	130.0	6.4	26.0					
p-isopropyl-toluene	0.50	ND	19.15	ND	20.70	15.08	20.0	16.0	ND	95.8	ND	103.5	94.3	70.0	130.0	8.3	21.0					
1,3-dichlorobenzene	0.50	ND	20.12	ND	20.36	14.69	20.0	16.0	ND	100.6	ND	101.8	91.8	70.0	130.0	9.1	20.0					
1,4-dichlorobenzene	0.50	ND	19.91	ND	19.15	13.73	20.0	16.0	ND	99.6	ND	95.8	85.8	70.0	130.0	9.7	20.0					
n-butyl-benzene	0.50	ND	22.94	ND	24.00	17.85	20.0	16.0	ND	114.7	ND	120.0	111.6	70.0	130.0	6.5	29.0					
1,2-dichlorobenzene	0.50	ND	20.35	ND	18.91	13.77	20.0	16.0	ND	101.8	ND	94.6	86.1	70.0	130.0	8.3	20.0					
1,2-dibromo-3-chloropropane	0.50	ND	18.06	ND	12.64	9.14	20.0	16.0	ND	90.3	ND	63.2	57.1	63.0	131.0	8.9	20.0				L	
1,2,4-trichlorobenzene	0.50	ND	19.42	ND	16.18	11.51	20.0	16.0	ND	97.1	ND	80.9	71.9	70.0	130.0	10.4	25.0					
hexachlorobutadiene	0.50	ND	19.85	ND	20.64	15.38	20.0	16.0	ND	99.3	ND	103.2	96.1	70.0	130.0	6.3	29.0					
naphthalene	0.50	ND	17.86	ND	12.30	9.05	20.0	16.0	ND	89.3	ND	61.5	56.6	59.0	130.0	7.4	43.0				L	
1,2,3-trichlorobenzene	0.50	ND	19.42	ND	16.18	11.51	20.0	16.0	ND	97.1	ND	80.9	71.9	70.0	130.0	10.4	29.0					
Surrogates																						
dibromofluoromethane		49.12	48.03	56.47	51.62	49.27	50.0		98.2	96.1	112.9	103.2	98.5	80	120							
1,2-dichloroethane-d4		50.79	50.64	65.00	54.96	53.24	50.0		101.6	101.3	130.0	109.9	106.5	80	120							
toluene-d8		48.97	47.22	52.66	52.57	49.49	50.0		97.9	94.4	105.3	105.1	99.0	81	117							
p-bromofluorobenzene		53.42	47.51	54.25	50.50	49.36	50.0		106.8	95.0	108.5	101.0	98.7	74	121							

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

Volatile Quality Control Summary - 8260

Workgroup:	WG97946	**Run Date:**	5/22/2001	**Sample Number:**	05-319-11	**LCS DF:**	1
Method:	8260B	**Instrument:**	HPMS6	**Sample Filename:**	6M25875.D	**Sample DF:**	1
Matrix:	WATER	**Blank Filename:**	6M25868.D	**MS Filename:**	6M25876.D	**MS DF:**	1
Units:	ug/L	**LCS Filename:**	6M25869.D	**MSD Filename:**	6M25877.D	**MSD DF:**	1

		CONCENTRATION, ug/L						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.25	ND	13.43	ND	11.64	12.17	20.0	ND	67.2	ND	58.2	60.9	34.0	202.0	4.5	30.0					
chloromethane	0.25	ND	15.71	ND	13.62	14.91	20.0	ND	78.6	ND	68.1	74.6	44.0	182.0	9.0	85.0					
vinyl chloride	0.25	ND	16.96	ND	16.58	15.60	20.0	ND	84.8	ND	82.9	78.0	61.0	164.0	6.1	63.0					
bromomethane	0.50	ND	16.67	ND	14.95	15.88	20.0	ND	83.4	ND	74.8	79.4	64.2	140.0	6.0	58.0					
chloroethane	0.50	ND	16.84	ND	14.86	15.68	20.0	ND	84.2	ND	74.3	78.4	74.0	148.0	5.4	47.0					
trichlorofluoromethane	0.25	ND	20.19	ND	18.29	16.92	20.0	ND	101.0	ND	91.5	84.6	50.0	157.0	7.8	65.0					
acetone	2.50	ND	17.03	ND	13.61	14.76	20.0	ND	85.2	ND	68.1	73.8	39.0	149.0	8.1	67.0					
1,1-dichloroethene	0.50	ND	21.83	ND	18.31	17.11	20.0	ND	109.2	ND	91.6	85.6	80.0	138.0	6.8	34.0					
Iodomethane	0.50	3.26	21.90	ND	15.43	18.70	20.0	3.26	109.5	ND	77.2	93.5	10.0	274.0	19.2	171.0					
methylene chloride	0.25	ND	19.55	ND	16.98	17.60	20.0	ND	97.8	ND	84.9	88.0	80.0	123.0	3.6	24.0					
carbon disulfide	0.50	ND	14.42	ND	12.02	11.50	20.0	ND	72.1	ND	60.1	57.5	71.0	143.0	4.4	44.0			L	L	
methyl-tert-butyl ether	0.50	ND	22.75	ND	20.08	19.76	20.0	ND	113.8	ND	100.4	98.8	78.0	140.0	1.6	38.0					
trans-1,2-dichloroethene	0.25	ND	21.63	ND	18.29	17.54	20.0	ND	108.2	ND	91.5	87.7	80.0	128.0	4.2	25.0					
n-hexane	0.56	ND	21.45	ND	15.85	15.61	20.0	ND	107.3	ND	79.3	78.1	68.0	137.0	1.5	42.0					
vinyl acetate	2.50	ND	14.41	ND	12.62	12.72	20.0	ND	72.1	ND	63.1	63.6	20.0	196.0	0.8	108.0					
1,1-dichloroethane	0.13	ND	21.03	ND	18.23	17.38	20.0	ND	105.2	ND	91.2	86.9	80.0	124.0	4.8	25.0					
2-butanone	2.50	ND	21.41	ND	16.56	17.25	20.0	ND	107.1	ND	82.8	86.3	53.0	146.0	4.1	57.0					
2,2-dichloropropane	0.25	ND	20.47	ND	16.26	15.78	20.0	ND	102.4	ND	81.3	78.9	78.0	137.0	3.0	36.0					
cis-1,2-dichloroethene	0.25	ND	21.70	ND	18.83	18.08	20.0	ND	108.5	ND	94.2	90.4	80.0	122.0	4.1	22.0					
chloroform	0.13	ND	20.57	ND	18.47	17.80	20.0	ND	102.9	ND	92.4	89.0	80.0	125.0	3.7	22.0					
bromochloromethane	0.20	ND	21.67	ND	19.84	18.90	20.0	ND	108.4	ND	99.2	94.5	80.0	130.0	4.9	29.0					
1,1,1-trichloroethane	0.25	ND	20.12	ND	17.26	17.01	20.0	ND	100.6	ND	86.3	85.1	80.0	135.0	1.5	29.0					
1,1-dichloropropene	0.25	ND	19.62	ND	15.94	16.05	20.0	ND	98.1	ND	79.7	80.3	80.0	154.0	0.7	33.0			L		
carbon tetrachloride	0.25	ND	21.05	ND	18.08	17.68	20.0	ND	105.3	ND	90.4	88.4	80.0	140.0	2.2	34.0					
1,2-dichloroethane	0.25	ND	19.80	ND	18.84	18.45	20.0	ND	99.0	ND	94.2	92.3	81.0	136.0	2.1	34.0					
benzene	0.13	ND	21.36	ND	17.66	18.09	20.0	ND	106.8	ND	88.3	90.5	80.0	123.0	2.4	24.0					
trichloroethene	0.25	ND	21.05	ND	17.24	17.59	20.0	ND	105.3	ND	86.2	88.0	80.0	125.0	2.0	22.0					
1,2-dichloropropane	0.25	ND	20.07	ND	17.09	17.51	20.0	ND	100.4	ND	85.5	87.6	80.0	128.0	2.4	28.0					
bromodichloromethane	0.25	ND	21.19	ND	19.28	19.24	20.0	ND	106.0	ND	96.4	96.2	80.0	132.0	0.2	25.0					
dibromomethane	0.25	ND	21.64	ND	19.75	19.72	20.0	ND	108.2	ND	98.8	98.6	80.0	127.0	0.2	27.0					
2-chloroethylvinyl ether	10.00	ND	18.06	ND	0.00	0.00	20.0	ND	90.3	ND	0.0	0.0	10.0	294.0	#######	246.0			L	L	###
4-methyl-2-pentanone	2.50	ND	18.58	ND	14.54	15.50	20.0	ND	92.9	ND	72.7	77.5	63.1	132.0	6.4	52.0					
cis-1,3-dichloropropene	0.25	ND	22.99	ND	19.76	20.32	20.0	ND	115.0	ND	98.8	101.6	80.0	139.0	2.8	26.0					
toluene	0.25	ND	21.86	ND	17.03	17.44	20.0	ND	109.3	ND	85.2	87.2	80.0	128.0	2.4	29.0					
trans-1,3-dichloropropene	0.50	ND	22.45	ND	18.81	19.13	20.0	ND	112.3	ND	94.1	95.7	80.0	126.0	1.7	26.0					
1,1,2-trichloroethane	0.13	ND	21.31	ND	18.03	18.41	20.0	ND	106.6	ND	90.2	92.1	73.0	128.0	2.1	34.0					
2-hexanone	2.50	ND	18.12	ND	14.32	14.92	20.0	ND	90.6	ND	71.6	74.6	56.0	135.0	4.1	48.0					
1,3-dichloropropane	0.20	ND	21.13	ND	17.97	18.35	20.0	ND	105.7	ND	89.9	91.8	80.0	126.0	2.1	27.0					
tetrachloroethene	0.25	ND	21.32	ND	16.33	16.56	20.0	ND	106.6	ND	81.7	82.8	80.0	126.0	1.4	27.0					
dibromochloromethane	0.25	ND	21.42	ND	18.17	18.67	20.0	ND	107.1	ND	90.9	93.4	80.0	133.0	2.7	29.0					
1,2-dibromoethane	0.25	ND	21.69	ND	18.79	19.07	20.0	ND	108.5	ND	94.0	95.4	26.0	187.0	1.5	99.0					
1-chlorohexane	0.13	ND	21.71	ND	15.94	16.11	20.0	ND	108.6	ND	79.7	80.6	80.0	133.0	1.1	31.0			L		
chlorobenzene	0.13	ND	20.03	ND	16.05	16.45	20.0	ND	100.2	ND	80.3	82.3	80.0	120.0	2.5	21.0					
1,1,1,2-tetrachloroethane	0.25	ND	21.70	ND	18.04	18.51	20.0	ND	108.5	ND	90.2	92.6	80.0	130.0	2.6	27.0					
ethylbenzene	0.25	ND	20.44	ND	15.84	16.29	20.0	ND	102.2	ND	79.2	81.5	80.0	121.0	2.8	22.0			L		
m+p-xylene	0.50	ND	41.61	ND	32.23	32.99	40.0	ND	104.0	ND	80.6	82.5	80.0	124.0	2.3	52.0					
o-xylene	0.25	ND	21.45	ND	16.92	17.46	20.0	ND	107.3	ND	84.6	87.3	80.0	120.0	3.1	18.0					
styrene	0.13	ND	21.57	ND	17.35	17.94	20.0	ND	107.9	ND	86.8	89.7	80.0	121.0	3.3	20.0					
bromoform	0.34	ND	18.64	ND	16.29	16.59	20.0	ND	93.2	ND	81.5	83.0	75.0	132.0	1.8	34.0					
isopropylbenzene	0.25	ND	19.85	ND	15.44	15.79	20.0	ND	99.3	ND	77.2	79.0	80.0	121.0	2.2	24.0			L	L	
1,1,2,2-tetrachloroethane	0.13	ND	21.20	ND	18.68	19.40	20.0	ND	106.0	ND	93.4	97.0	73.0	128.0	3.8	34.0					
1,2,3-trichloropropane	0.75	ND	21.33	ND	19.07	19.82	20.0	ND	106.7	ND	95.4	99.1	78.0	130.0	3.9	32.0					
propyl-benzene	0.13	ND	21.57	ND	16.99	17.34	20.0	ND	107.9	ND	85.0	86.7	79.0	127.0	2.0	29.0					
bromobenzene	0.13	ND	20.73	ND	17.53	18.31	20.0	ND	103.7	ND	87.7	91.6	80.0	120.0	4.4	22.0					
1,3,5-trimethylbenzene	0.25	ND	21.87	ND	17.57	17.99	20.0	ND	109.4	ND	87.9	90.0	80.0	122.0	2.4	25.0					
2-chlorotoluene	0.13	ND	20.64	ND	16.74	17.43	20.0	ND	103.2	ND	83.7	87.2	53.0	164.0	4.0	62.0					
4-chlorotoluene	0.25	ND	20.66	ND	16.99	17.28	20.0	ND	103.3	ND	85.0	86.4	42.0	163.0	1.7	74.0					
tert-butyl-benzene	0.25	ND	20.05	ND	16.17	16.26	20.0	ND	100.3	ND	80.9	81.3	76.0	132.0	0.6	34.0					
1,2,4-trimethylbenzene	0.25	ND	20.77	ND	16.89	17.24	20.0	ND	103.9	ND	84.5	86.2	80.0	128.0	2.1	27.0					
sec-butyl-benzene	0.25	ND	20.53	ND	16.13	16.45	20.0	ND	102.7	ND	80.7	82.3	73.0	126.0	2.0	33.0					
p-isopropyl-toluene	0.25	ND	20.18	ND	15.77	16.17	20.0	ND	100.9	ND	78.9	80.9	77.0	124.0	2.5	29.0					
1,3-dichlorobenzene	0.25	ND	20.30	ND	16.91	17.49	20.0	ND	101.5	ND	84.6	87.5	80.0	120.0	3.4	22.0					
1,4-dichlorobenzene	0.13	ND	19.43	ND	16.31	16.88	20.0	ND	97.2	ND	81.6	84.4	80.0	120.0	3.4	18.0					
n-butyl-benzene	0.25	ND	20.51	ND	15.81	16.06	20.0	ND	102.6	ND	79.1	80.3	73.0	136.0	1.6	39.0					
1,2-dichlorobenzene	0.13	ND	20.03	ND	17.13	17.72	20.0	ND	100.2	ND	85.7	88.6	80.0	120.0	3.4	20.0					
1,2-dibromo-3-chloropropane	1.00	ND	20.16	ND	17.89	18.19	20.0	ND	100.8	ND	89.5	91.0	22.0	178.0	1.7	96.0					
1,2,4-trichlorobenzene	0.20	0.35	21.06	ND	17.41	17.91	20.0	0.35	105.3	ND	87.1	89.6	75.0	126.0	2.8	31.0					
hexachlorobutadiene	0.25	0.81	20.08	ND	15.25	15.49	20.0	0.81	100.4	ND	76.3	77.5	68.0	126.0	1.6	36.0					
naphthalene	0.20	0.53	22.98	ND	19.46	20.22	20.0	0.53	114.9	ND	97.3	101.1	57.0	138.0	3.8	50.0					
1,2,3-trichlorobenzene	0.13	0.55	21.01	ND	17.69	18.26	20.0	0.55	105.1	ND	88.5	91.3	66.0	130.0	3.2	39.0					
Surrogates																					
dibromofluoromethane		22.30	23.98	23.16	25.31	23.70	25.0	89.2	95.9	92.6	101.2	94.8	86	118							
1,2-dichloroethane-d4		21.59	23.15	22.80	25.40	23.88	25.0	86.4	92.6	91.2	101.6	95.5	80	120							
toluene-d8		24.77	24.88	24.65	22.92	22.78	25.0	99.1	99.5	98.6	91.7	91.1	88	110							
p-bromofluorobenzene		25.14	25.25	25.33	25.04	25.03	25.0	100.6	101.0	101.3	100.2	100.1	86	115							

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H=Above control limit
L=Below control limit
DF=Dilution Factor

Tune File : D:\HPCHEM\1\DATA\051801\9M15686.D
Tune Time : 18 May 2001 8:57

Daily Calibration File : D:\HPCHEM\1\DATA\051801\9M15687.D

						1032550	754449	461543
File	Sample	Surrogate Recovery %				Internal Standard Responses		
9M15688.D	WG97659-	103	111	101	112	769036	562639	318815
9M15689.D	WG97659-	98	102	98	107	878967	641419	357556
9M15690.D	WG97659-	96	101	94	95	697503	592647	411569
9M15691.D	WG97659	103	108	100	109	766352	596509	357113
9M15692.D	L0105381	101	109	99	103	863640	657339	388009
9M15693.D	L0105381	99	106	100	99	1026053	774940	475815
9M15694.D	L0105381	96	101	98	94	933658	731964	476724
9M15695.D	SYSTEM B	106	113	97	92	565679	515254	381737
9M15696.D	L0105381	101	108	99	105	708390	573894	356097
9M15697.D	L0105404	113	130*	105	108	610128	515785	333171
9M15698.D	L0105404	104	112	105	109	868995	634773	355506
9M15699.D	L0105404	103	110	105	101	986818	733418	459955
9M15700.D	L0105404	99	106	99	99	955851	738294	477779
9M15701.D	L0105404	99	104	100	100	848557	655130	400518
9M15702.D	L0105404	99	105	98	104	880938	707972	409217
9M15703.D	L0105404	101	104	101	104	804985	626734	356451
9M15704.D	L0105404	106	112	92	259*	739323	648983	319637
9M15705.D	L0105404	91	89	96	101	1193547	943018	559803
9M15706.D	L0105404	88	86	96	93	1069016	815975	528317

t - fails 12hr time check * - fails criteria

Created: Sat May 19 09:27:03 2001 HPMS9

Tune File : C:\HPCHEM\1\DATA\052201\6M25865.D
Tune Time : 22 May 2001 19:50

Daily Calibration File : C:\HPCHEM\1\DATA\052201\6M25867.D

		DFM	DCA	TOL	BFB	FBZ	CBZ	
						1656560	1384230	744361
File	Sample	Surrogate Recovery %				Internal Standard Responses		
6M25868.D	WG97946-	89	86	99	101	1506040	1273594	676898
6M25869.D	WG97946-	96	93	100	101	1587286	1337619	723729
6M25870.D	L0105260	93	91	99	101	1565225	1306923	707922
6M25871.D	L0105404	89	86	98	101	1432523	1264856	669130
6M25872.D	L0105404	94	92	98	101	1404228	1224377	651077
6M25873.D	L0105319	94	92	97	101	1363047	1199651	645652
6M25874.D	L0105319	91	89	98	100	1308098	1171356	635636
6M25875.D	L0105319	93	91	99	101	1359709	1186252	632493
6M25876.D	L0105319	101	102	92	100	1534838	1368358	722628
6M25877.D	L0105319	95	96	91	100	1530150	1384047	728669
6M25878.D	L0105402	90	90	98	101	1470078	1250548	667376
6M25879.D	L0105402	96	94	100	101	1496788	1238398	668667
6M25880.D	SYSTEM B	93	92	98	100	1314913	1169879	632505
6M25881.D	L0105319	93	92	98	102	1335692	1175540	620325
6M25882.D	L0105319	93	93	100	103	1314113	1153555	607012
6M25883.D	L0105319	93	94	98	102	1303050	1139639	595943
6M25884.D	L0105319	94	95	100	102	1259875	1111094	589655
6M25885.D	L0105319	91	94	100	103	1300714	1122007	586949

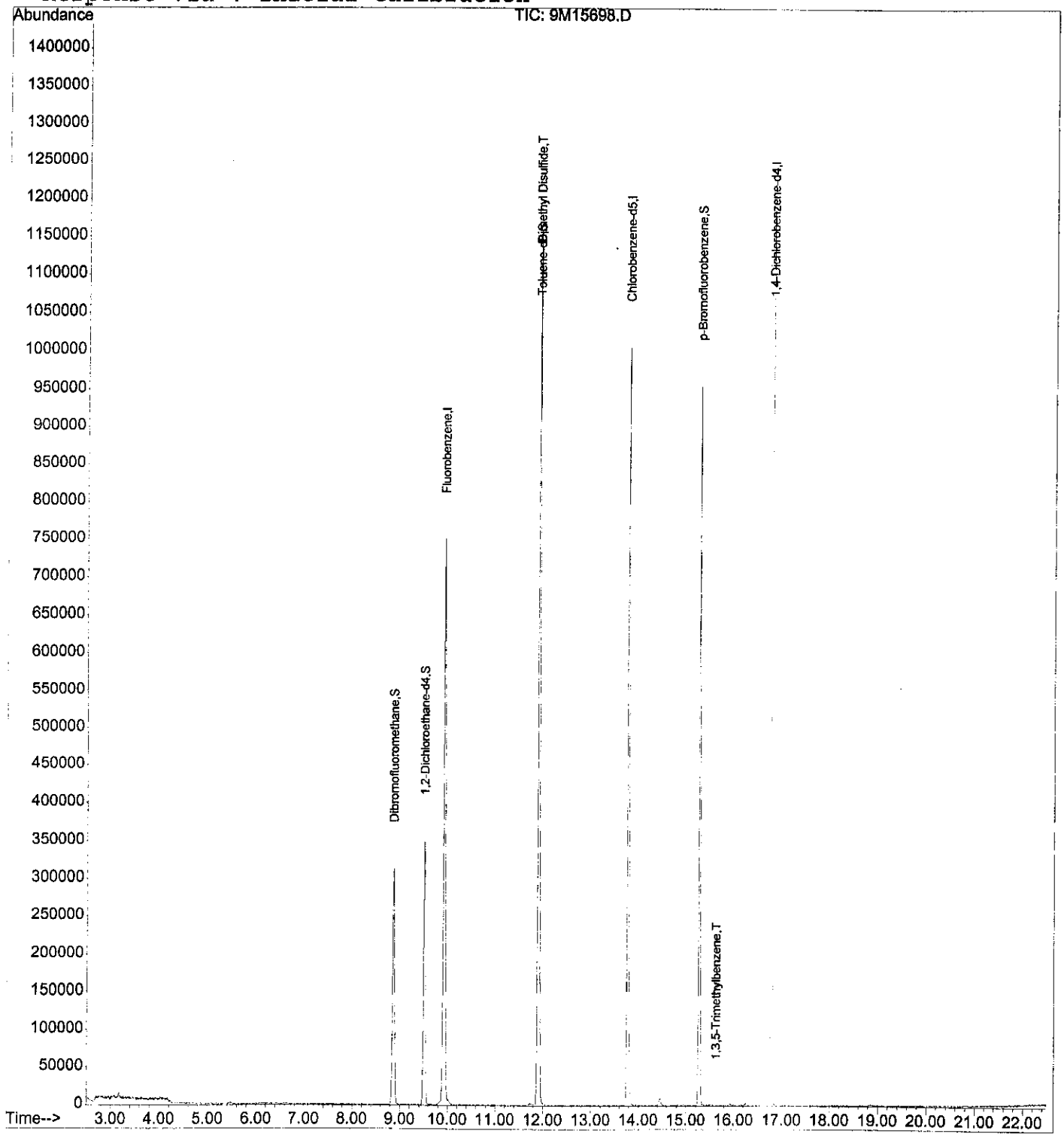
t - fails 12hr time check * - fails criteria

Created: Wed May 23 08:06:52 2001 HPMS6

2.1.1.2 Sample Data

Data File : D:\HPCHEM\1\DATA\051801\9M15698.D Vial: 13
Acq On : 18 May 2001 16:21 Operator: MES
Sample : L0105404-01 B 00 0.8X 630-NAVY-CTO 6.32G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:20 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

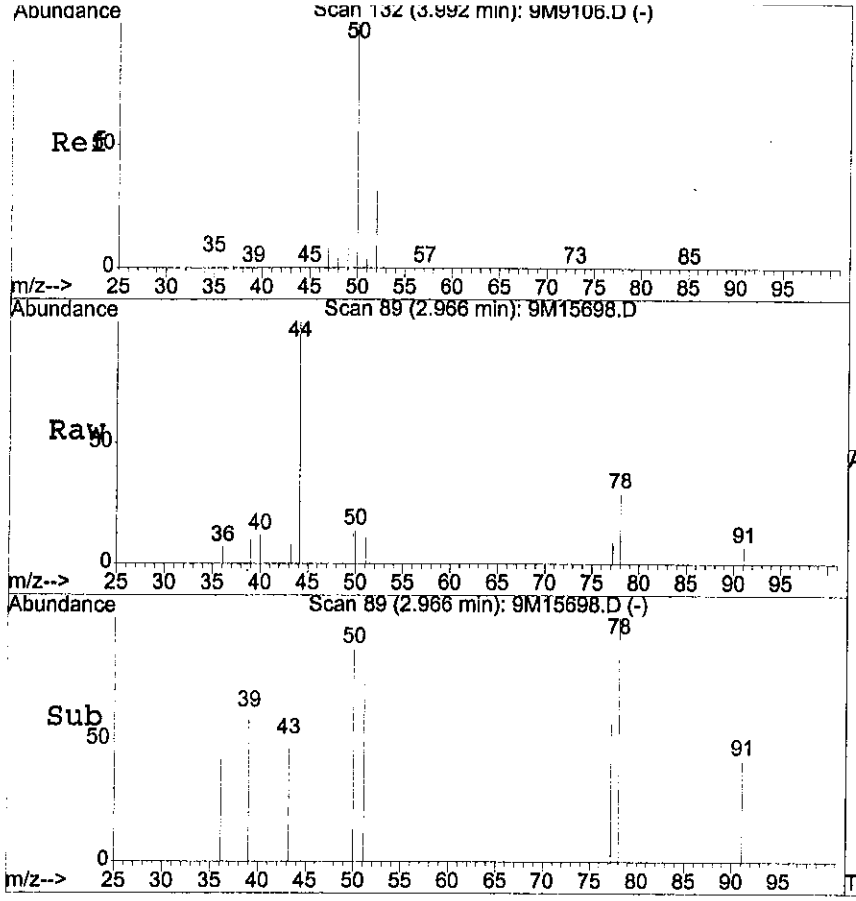


Data File : D:\HPCHEM\1\DATA\051801\9M15698.D Vial: 13
Acq On : 18 May 2001 16:21 Operator: MES
Sample : L0105404-01 B 00 0.8X 630-NAVY-CTO 6.32G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:20 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	868995	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	634773	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.78	152	355506	50.00	ug/kg	0.01
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	279787	51.90	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.80%			
33) 1,2-Dichloroethane-d4	9.51	65	364805	55.83	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.66%			
45) Toluene-d8	11.90	98	1008318	52.62	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 105.24%			
66) p-Bromofluorobenzene	15.27	95	402053	54.65	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 109.30%			
Target Compounds						Qvalue
3) Chloromethane	2.97	50	1392	Below Cal	#	89
11) Acetone	5.46	43	4299	Below Cal	#	59
43) Dimethyl Disulfide	11.89	79	468	3.72	ug/kg#	1
71) 1,3,5-Trimethylbenzene	15.63	105	265	1.85	ug/kg	96

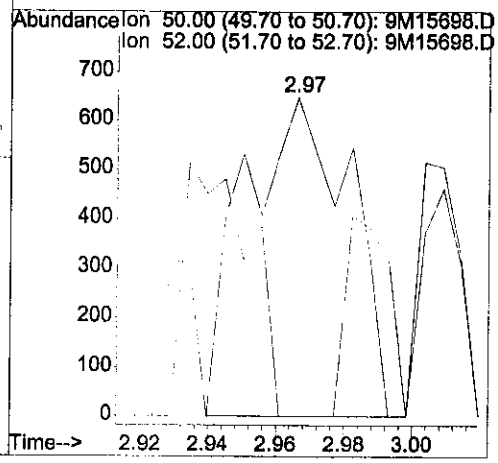
(#) = qualifier out of range (m) = manual integration
9M15698.D 8260SOIL.M Mon May 21 16:20:49 2001 HPMS_9 Page 1

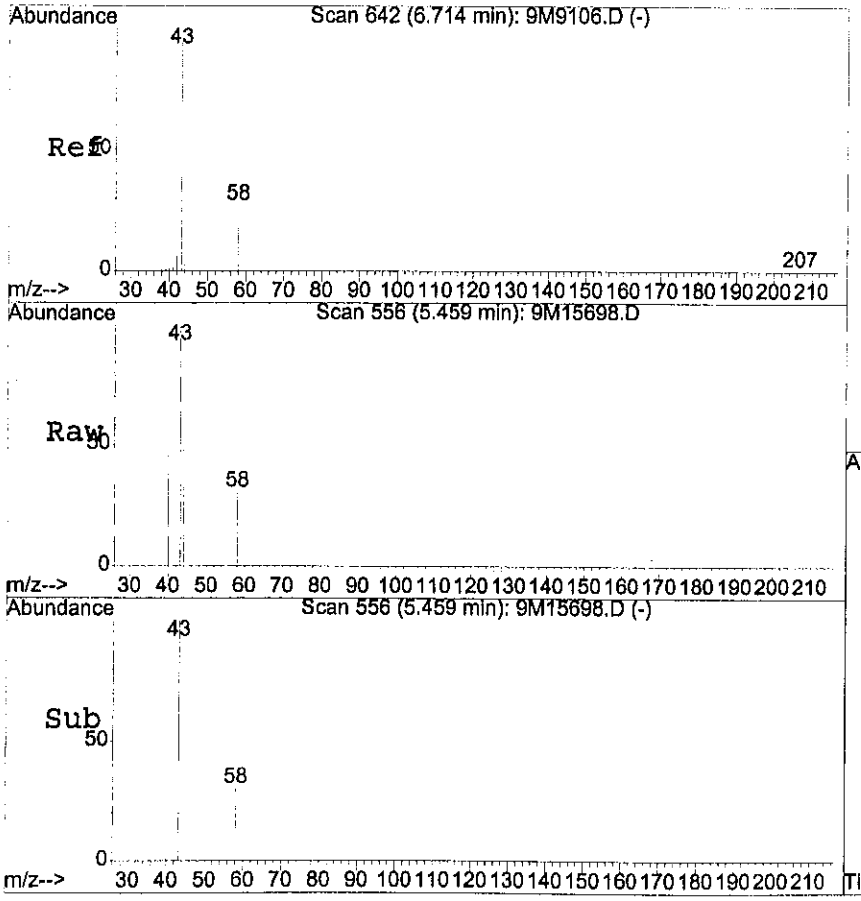


#3
Chloromethane
Concen: Below Cal
RT: 2.97 min Scan# 89
Delta R.T. -0.02 min
Lab File: 9M15698.D
Acq: 18 May 2001 16:21

Tgt Ion: 50 Resp: 1392

Ion	Ratio	Lower	Upper
50	100		
52	25.4	25.4	38.2#

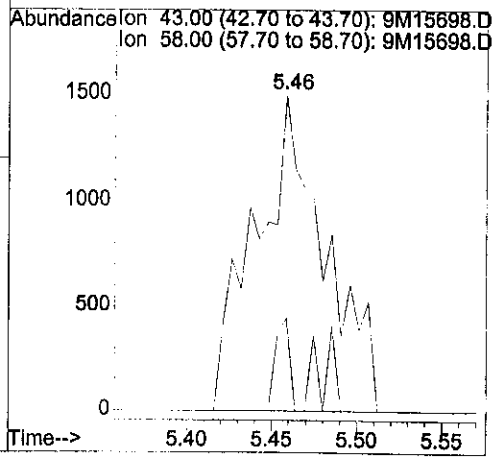


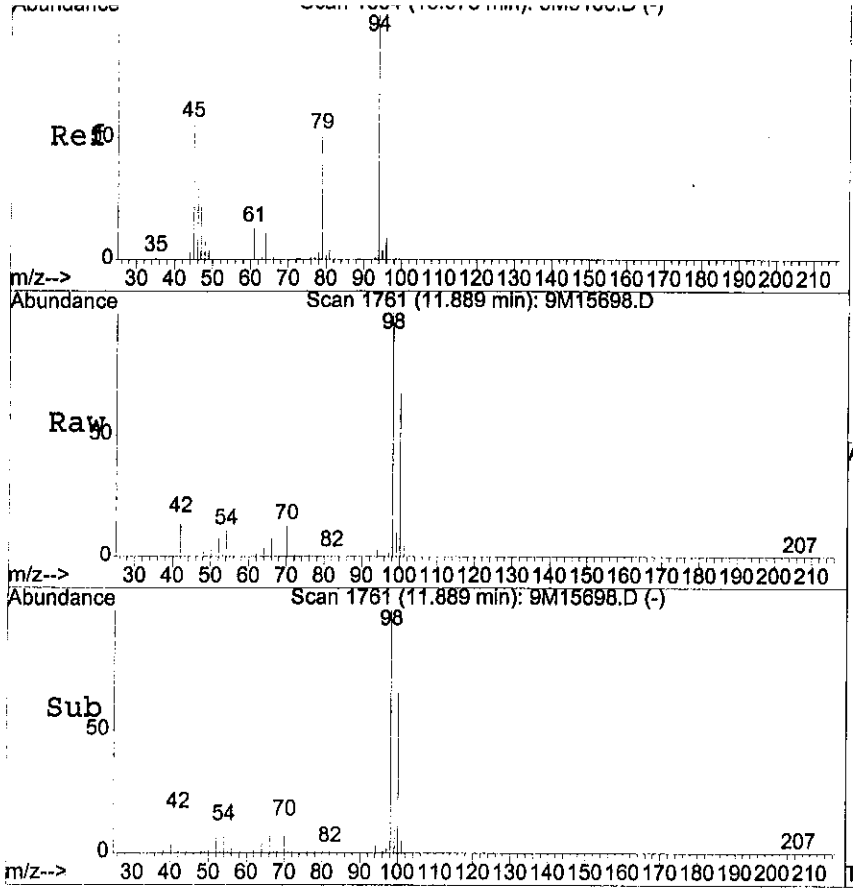


#11
Acetone
Concen: Below Cal
RT: 5.46 min Scan# 556
Delta R.T. 0.03 min
Lab File: 9M15698.D
Acq: 18 May 2001 16:21

Tgt Ion: 43 Resp: 4299

Ion	Ratio	Lower	Upper
43	100		
58	6.1	21.9	32.9#

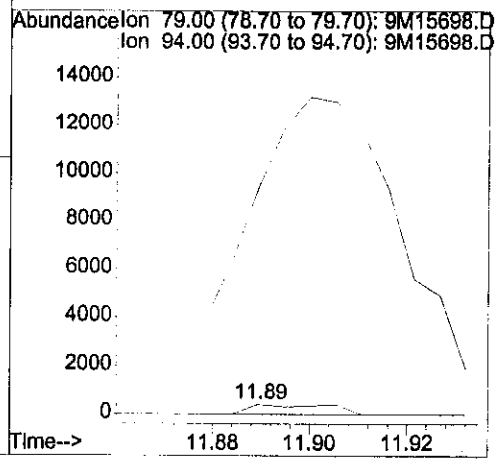


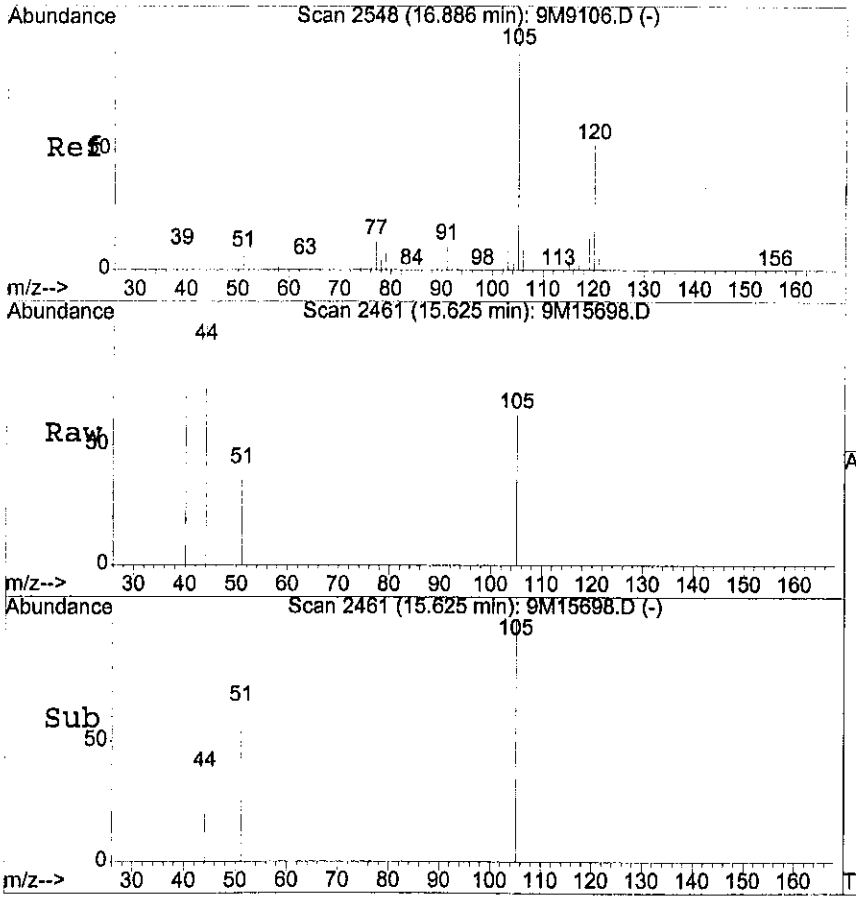


#43
Dimethyl Disulfide
Concen: 3.72 ug/kg
RT: 11.89 min Scan# 1761
Delta R.T. 0.08 min
Lab File: 9M15698.D
Acq: 18 May 2001 16:21

Tgt Ion: 79 Resp: 468

Ion	Ratio	Lower	Upper
79	100		
94	6775.9	153.5	230.3#

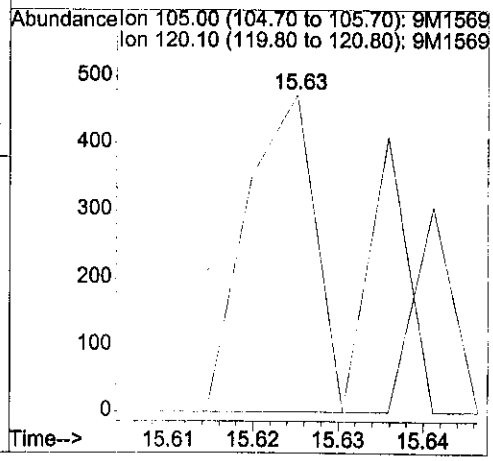




#71
1,3,5-Trimethylbenzene
Concen: 1.85 ug/kg
RT: 15.63 min Scan# 2461
Delta R.T. 0.00 min
Lab File: 9M15698.D
Acq: 18 May 2001 16:21

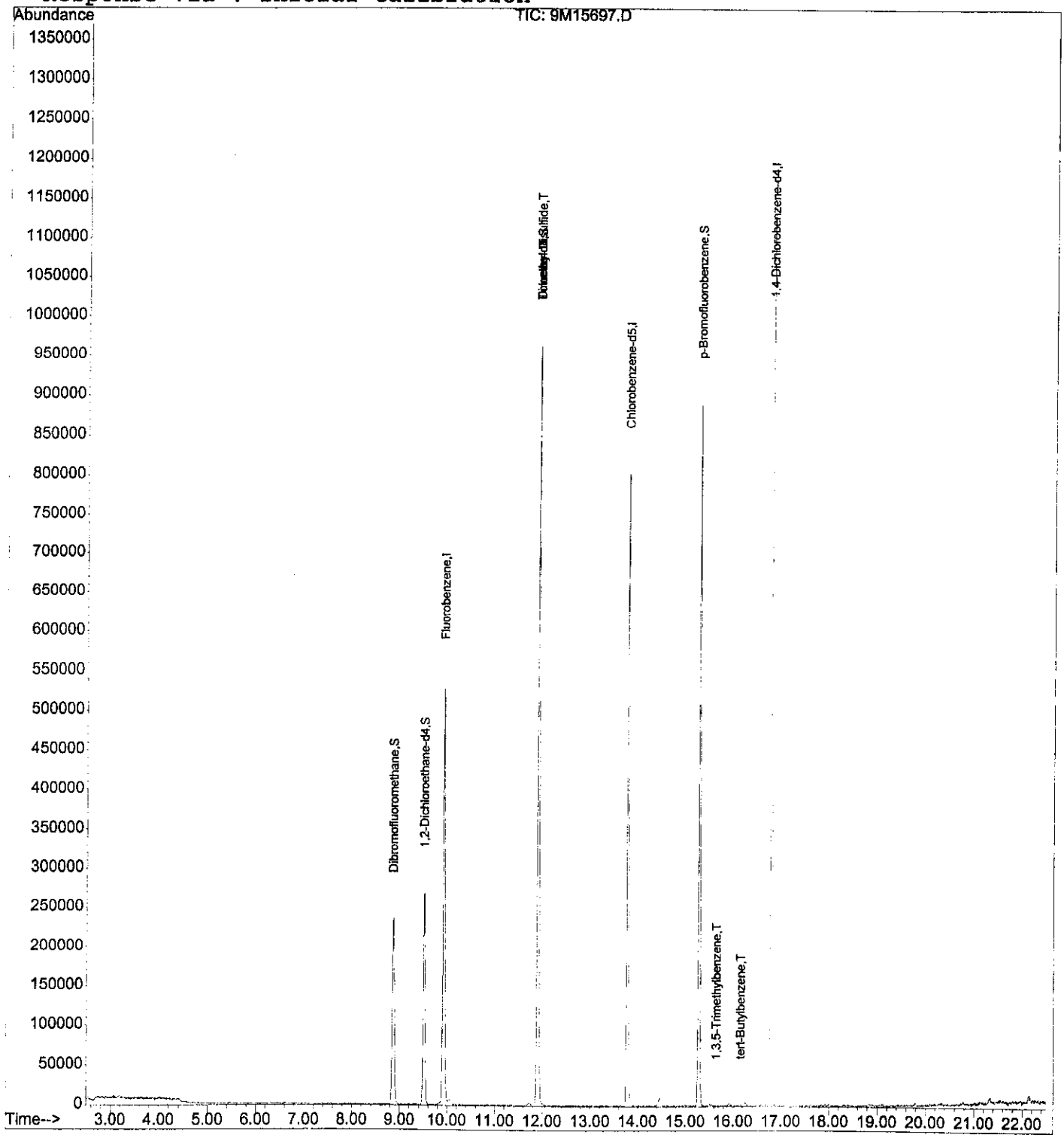
Tgt Ion:105 Resp: 265

Ion	Ratio	Lower	Upper
105	100		
120	49.4	37.3	55.9



Data File : D:\HPCHEM\1\DATA\051801\9M15697.D Vial: 12
Acq On : 18 May 2001 15:49 Operator: MES
Sample : L0105404-02 A 00 0.8X 630-NAVY-CTO 5.85G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:20 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



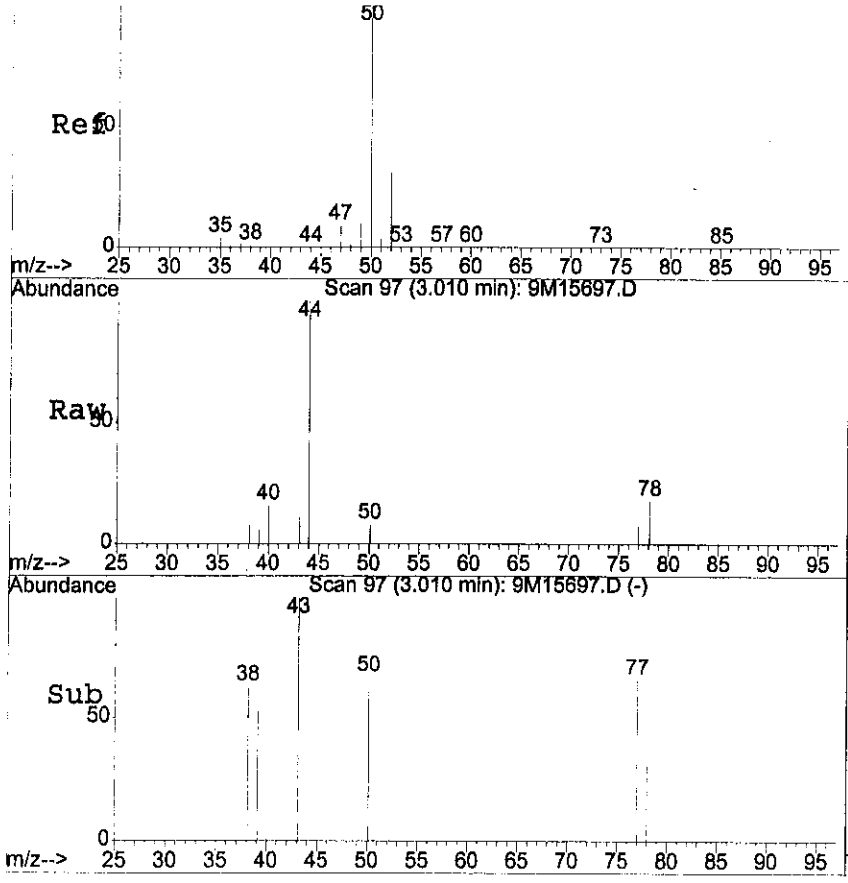
9M15697.D 8260SOIL.M Mon May 21 16:20:34 2001 HPMS_9 Page 2

Data File : D:\HPCHEM\1\DATA\051801\9M15697.D Vial: 12
Acq On : 18 May 2001 15:49 Operator: MES
Sample : L0105404-02 A 00 0.8X 630-NAVY-CTO 5.85G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:20 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	610128	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	515785	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.78	152	333171	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	213747	56.47	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.94%			
33) 1,2-Dichloroethane-d4	9.52	65	298208	65.00	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 130.00%#			
45) Toluene-d8	11.90	98	819823	52.66	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 105.32%			
66) p-Bromofluorobenzene	15.27	95	374050	54.25	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 108.50%			
Target Compounds						Qvalue
3) Chloromethane	3.01	50	353	Below Cal		92
11) Acetone	5.45	43	1256	Below Cal	#	71
43) Dimethyl Disulfide	11.91	79	233	3.69	ug/kg#	1
71) 1,3,5-Trimethylbenzene	15.64	105	117	1.84	ug/kg#	30
75) tert-Butylbenzene	16.15	119	133	0.88	ug/kg#	36

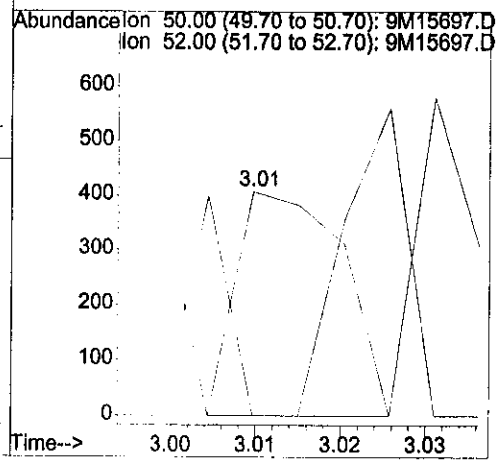
(#) = qualifier out of range (m) = manual integration
9M15697.D 8260SOIL.M Mon May 21 16:20:32 2001 HPMS_9 Page 1

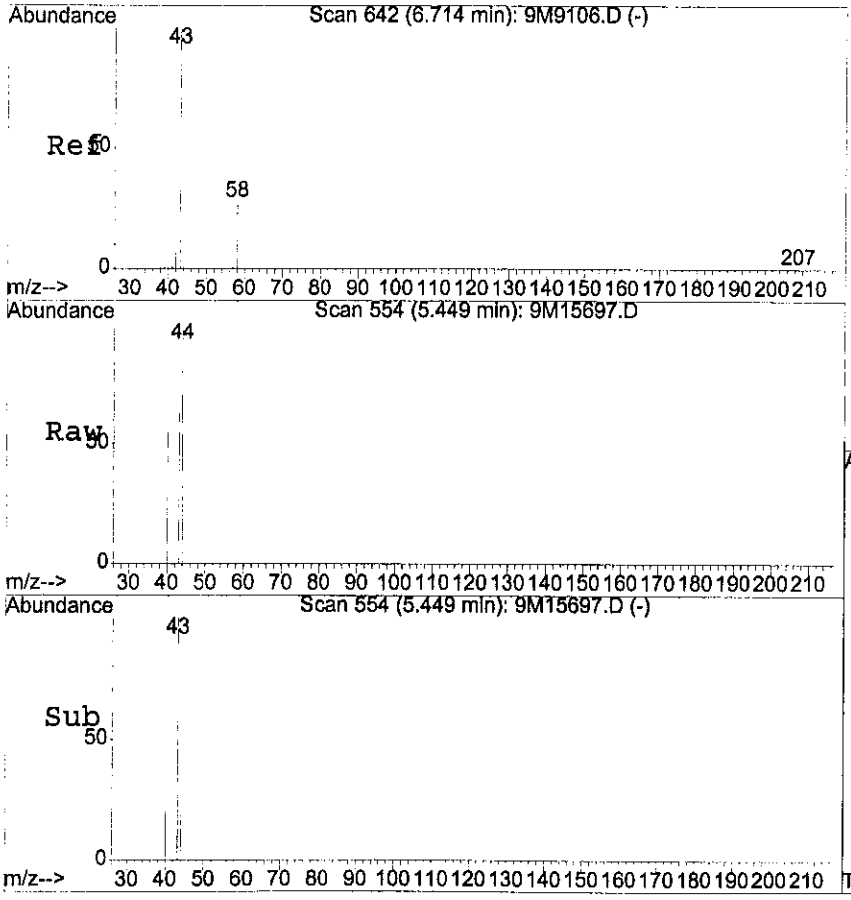


#5
Chloromethane
Concen: Below Cal
RT: 3.01 min Scan# 97
Delta R.T. 0.02 min
Lab File: 9M15697.D
Acq: 18 May 2001 15:49

Tgt Ion: 50 Resp: 353

Ion	Ratio	Lower	Upper
50	100		
52	36.3	25.4	38.2

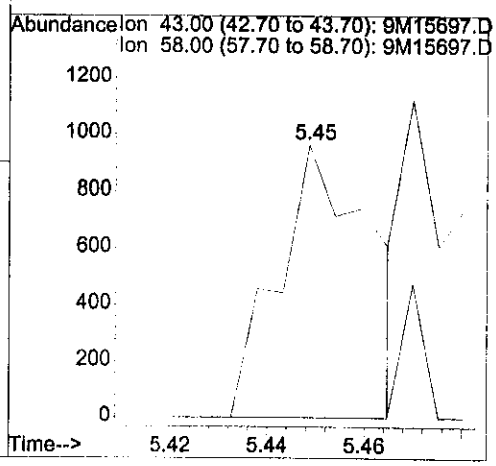


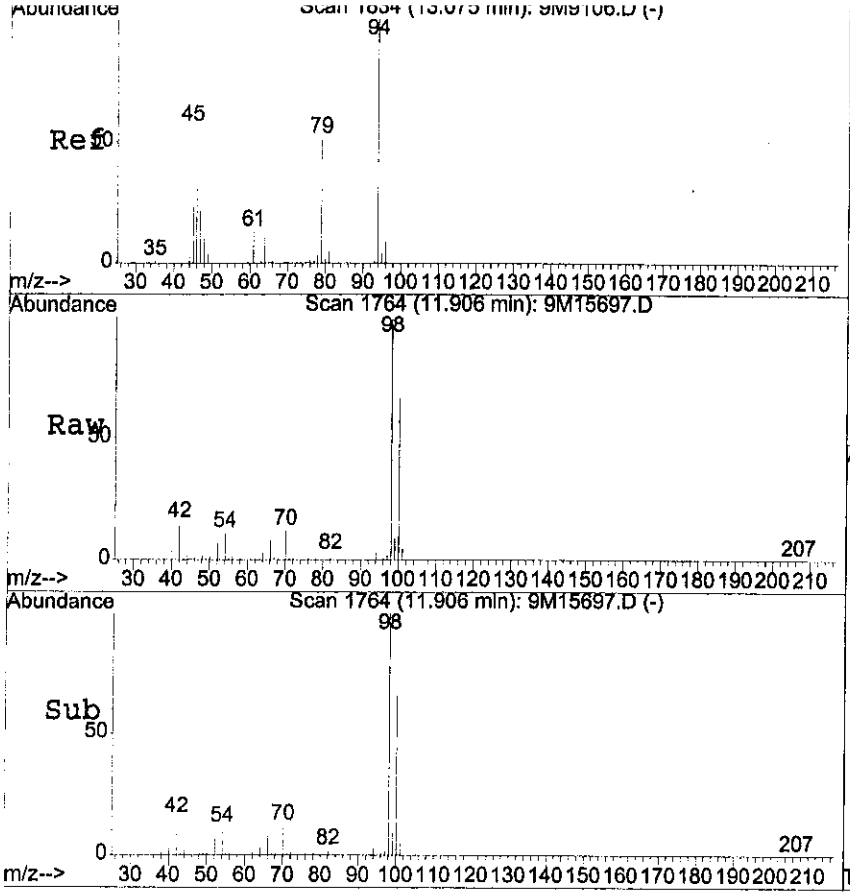


#11
Acetone
Concen: Below Cal
RT: 5.45 min Scan# 554
Delta R.T. 0.02 min
Lab File: 9M15697.D
Acq: 18 May 2001 15:49

Tgt Ion: 43 Resp: 1256

Ion	Ratio	Lower	Upper
43	100		
58	12.1	21.9	32.9#

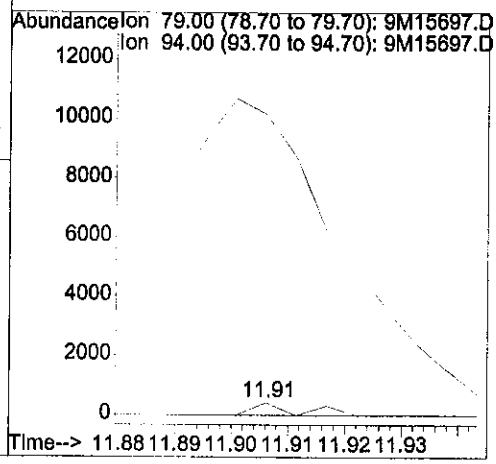


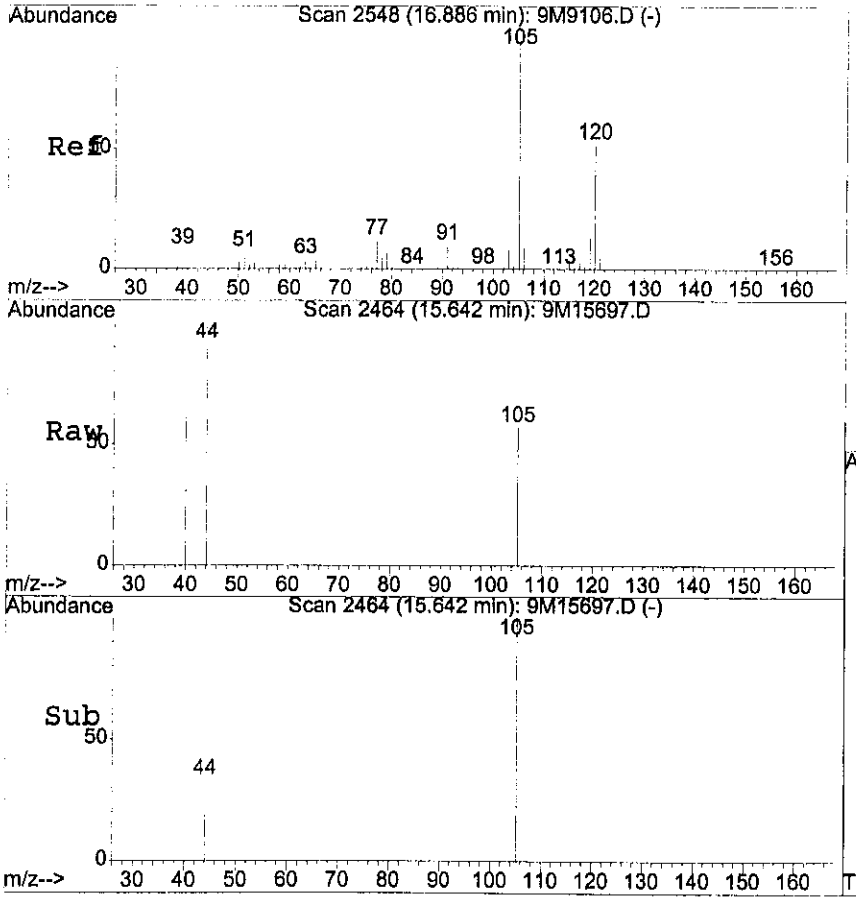


#43
Dimethyl Disulfide
Concen: 3.69 ug/kg
RT: 11.91 min Scan# 1764
Delta R.T. 0.10 min
Lab File: 9M15697.D
Acq: 18 May 2001 15:49

Tgt Ion: 79 Resp: 233

Ion	Ratio	Lower	Upper
79	100		
94	11025.3	153.5	230.3#

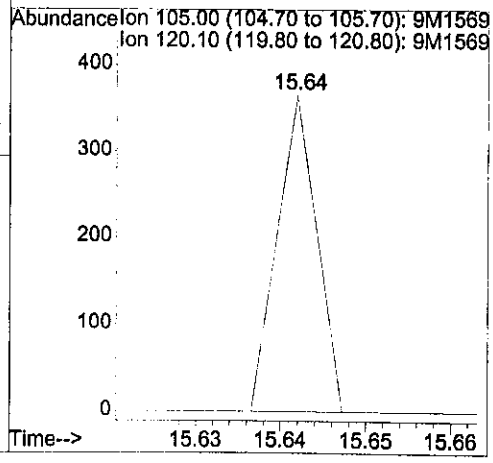


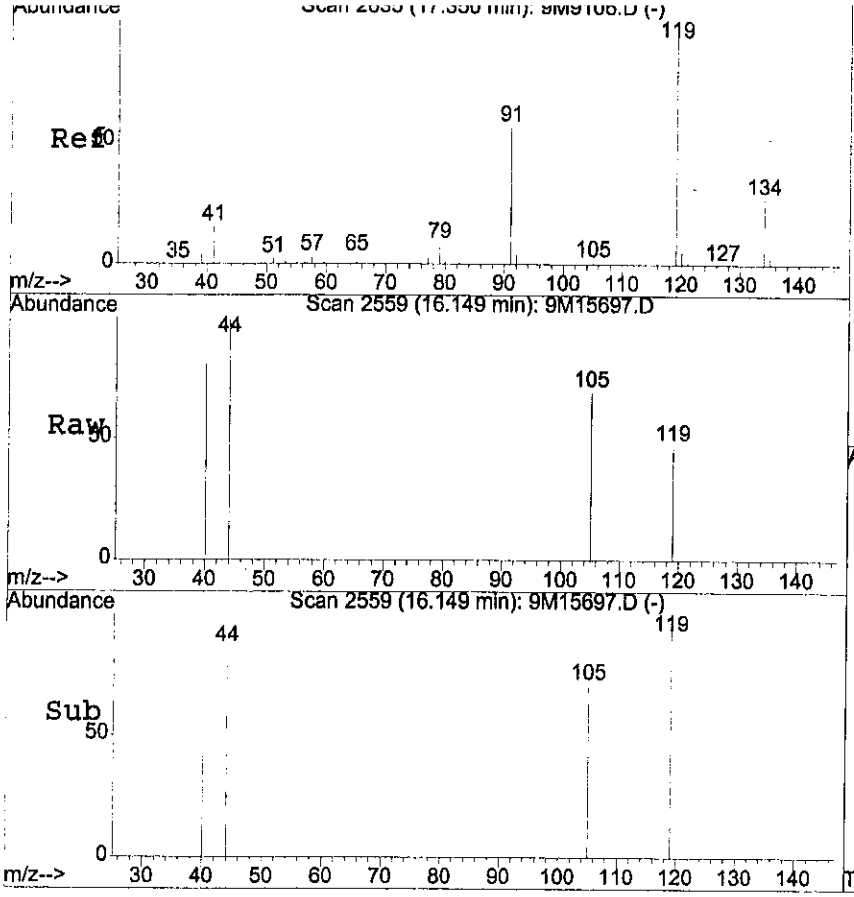


#71
1,3,5-Trimethylbenzene
Concen: 1.84 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.02 min
Lab File: 9M15697.D
Acq: 18 May 2001 15:49

Tgt Ion:105 Resp: 117

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#

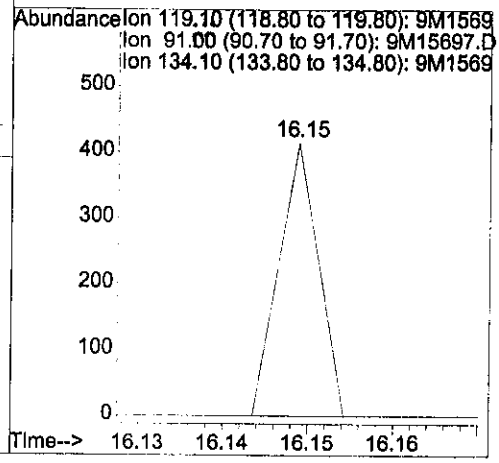




#75
tert-Butylbenzene
Concen: 0.88 ug/kg
RT: 16.15 min Scan# 2559
Delta R.T. 0.07 min
Lab File: 9M15697.D
Acq: 18 May 2001 15:49

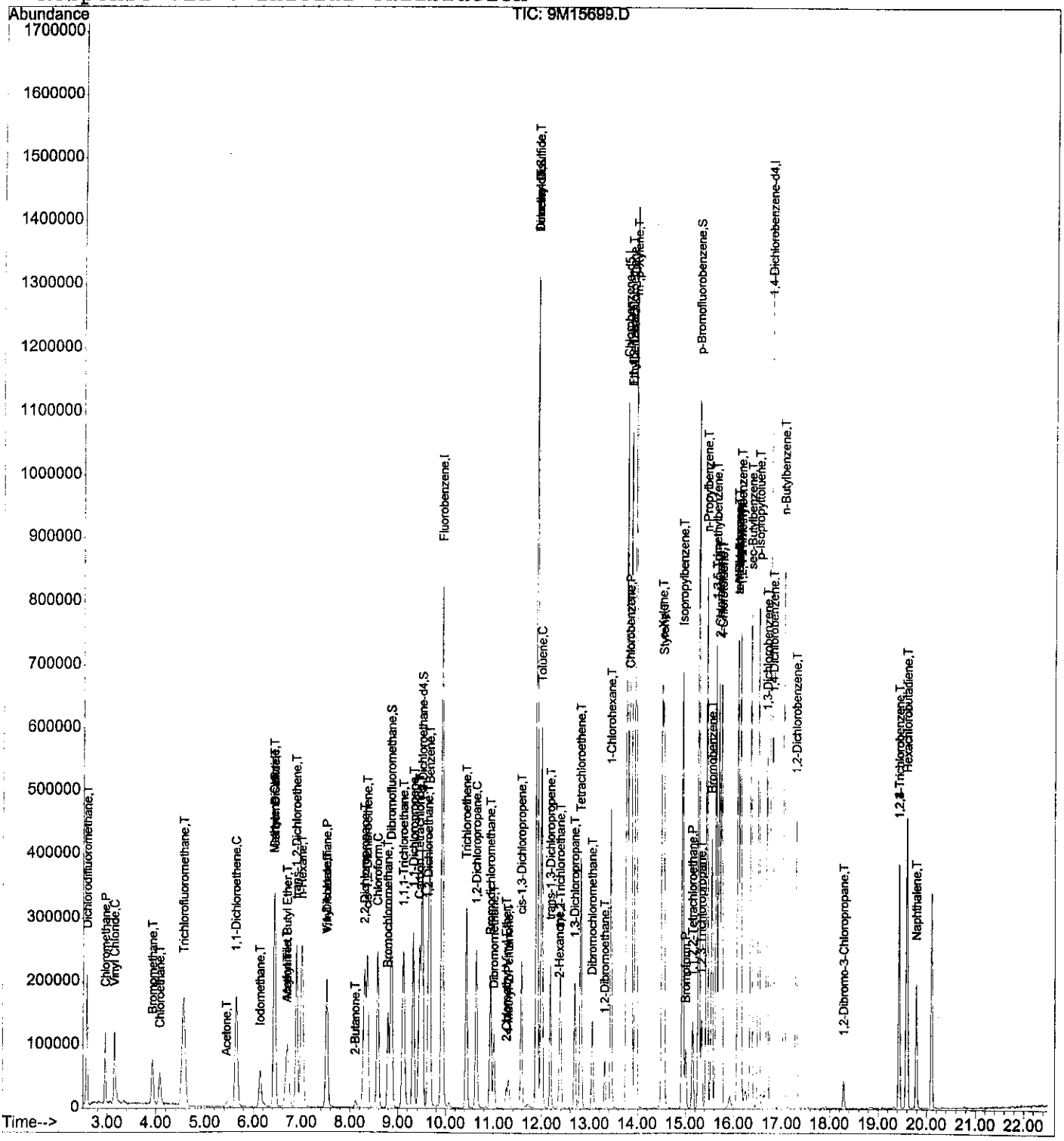
Tgt Ion:119 Resp: 133

Ion	Ratio	Lower	Upper
119	100		
91	0.0	39.5	59.3#
134	0.0	16.0	24.0#



Data File : d:\HPCHEM\1\DATA\051801\9M15699.D Vial: 14
Acq On : 18 May 2001 16:52 Operator: MES
Sample : L0105404-03 MS A 00 630-NAVY-CTO 5.18G Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 17:15 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051801\9M15699.D Vial: 14
Acq On : 18 May 2001 16:52 Operator: MES
Sample : L0105404-03 MS A 00 630-NAVY-CTO 5.18G Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 17:15 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	986818	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	733418	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.78	152	459955	50.00	ug/kg	0.01
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	316042	51.62	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.24%			
33) 1,2-Dichloroethane-d4	9.51	65	407765	54.96	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.92%			
45) Toluene-d8	11.90	98	1163778	52.57	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 105.14%			
66) p-Bromofluorobenzene	15.27	95	480683	50.50	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 101.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	216191	17.85	ug/kg	97
3) Chloromethane	2.96	50	124999	21.70	ug/kg	99
4) Vinyl Chloride	3.15	62	111670	22.47	ug/kg	99
5) Bromomethane	3.93	94	71933	25.07	ug/kg	97
6) Chloroethane	4.08	64	68708	24.82	ug/kg	97
7) Trichlorofluoromethane	4.56	101	338172	22.36	ug/kg	99
11) Acetone	5.44	43	20062	11.35	ug/kg#	89
12) 1,1-Dichloroethene	5.64	96	112628	21.83	ug/kg	87
14) Iodomethane	6.14	142	103329	30.99	ug/kg	91
15) Methylene Chloride	6.43	84	117836	21.62	ug/kg	85
16) Carbon Disulfide	6.45	76	383379	20.59	ug/kg	99
17) Acrylonitrile	6.69	53	2111	1.85	ug/kg#	15
18) Methyl Tert Butyl Ether	6.70	73	187298	17.26	ug/kg	100
19) trans-1,2-Dichloroethene	6.90	96	139051	23.72	ug/kg	90
20) n-Hexane	7.01	57	213463	24.45	ug/kg	98
21) Vinyl Acetate	7.51	43	69152	12.40	ug/kg#	93
22) 1,1-Dichloroethane	7.52	63	278633	24.59	ug/kg	98
23) 2-Butanone	8.11	43	19321	13.25	ug/kg	92
24) 2,2-Dichloropropane	8.31	77	261324	24.08	ug/kg	95
25) cis-1,2-Dichloroethene	8.36	96	124306	22.43	ug/kg	84
26) Chloroform	8.58	83	287467	24.32	ug/kg	99
27) Bromochloromethane	8.80	128	47651	20.74	ug/kg	88
29) 1,1,1-Trichloroethane	9.12	97	304850	24.55	ug/kg	92
31) 1,1-Dichloropropene	9.32	75	185870	22.32	ug/kg	94
32) Carbon Tetrachloride	9.46	117	279420	26.13	ug/kg	98
34) 1,2-Dichloroethane	9.63	62	190727	21.18	ug/kg	99
35) Benzene	9.66	78	521055	24.57	ug/kg	98

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051801\9M15699.D Vial: 14
Acq On : 18 May 2001 16:52 Operator: MES
Sample : L0105404-03 MS A 00 630-NAVY-CTO 5.18G Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 17:15 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Trichloroethene	10.43	130	125698	22.90	ug/kg	96
37)	1,2-Dichloropropane	10.64	63	115740	22.99	ug/kg	93
38)	Bromodichloromethane	10.93	83	183398	22.82	ug/kg	99
39)	Dibromomethane	11.00	93	57980	19.44	ug/kg	94
40)	2-Chloroethyl Vinyl Ether	11.26	63	16665	16.03	ug/kg	90
41)	4-Methyl-2-Pentanone	11.31	58	14942	14.56	ug/kg	99
42)	cis-1,3-Dichloropropene	11.58	75	155892	19.89	ug/kg	98
43)	Dimethyl Disulfide	11.90	79	167	4.57	ug/kg#	1
46)	Toluene	12.00	91	583599	24.73	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	148098	19.19	ug/kg	96
49)	1,1,2-Trichloroethane	12.39	97	81705	19.76	ug/kg	99
50)	2-Hexanone	12.36	43	28291	10.63	ug/kg#	45
51)	1,3-Dichloropropane	12.69	76	129654	18.44	ug/kg	86
52)	Tetrachloroethene	12.81	164	112151	22.18	ug/kg	92
53)	Dibromochloromethane	13.06	129	95973	18.34	ug/kg	97
54)	1,2-Dibromoethane	13.31	107	64252	17.11	ug/kg	99
55)	1-Chlorohexane	13.45	91	163814	19.37	ug/kg#	78
56)	Chlorobenzene	13.83	112	351863	21.55	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.86	131	126460	21.67	ug/kg	98
58)	Ethylbenzene	13.86	106	210731	23.71	ug/kg	99
59)	m-,p-Xylene	13.96	106	514413	46.88	ug/kg	94
60)	o-Xylene	14.52	106	221333	21.81	ug/kg	94
61)	Styrene	14.55	104	359180	20.67	ug/kg	90
62)	Bromoform	15.01	173	56324	16.48	ug/kg	99
63)	Isopropylbenzene	14.94	105	612974	21.13	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.15	83	86780	16.26	ug/kg	98
67)	1,2,3-Trichloropropane	15.34	110	28224	16.87	ug/kg	96
69)	n-Propylbenzene	15.44	91	892569	22.61	ug/kg	100
70)	Bromobenzene	15.55	156	138135	20.18	ug/kg	90
71)	1,3,5-Trimethylbenzene	15.64	105	565175	21.60	ug/kg	99
72)	2-Chlorotoluene	15.70	91	504640	20.62	ug/kg	96
73)	4-Chlorotoluene	15.75	91	515026	21.75	ug/kg	99
74)	a-Methylstyrene	16.08	118	11171	4.70	ug/kg#	1
75)	tert-Butylbenzene	16.09	119	557879	20.17	ug/kg#	75
76)	1,2,4-Trimethylbenzene	16.14	105	582914	21.62	ug/kg	100
77)	sec-Butylbenzene	16.36	105	746735	22.18	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	606036	20.70	ug/kg	99
79)	1,3-Dichlorobenzene	16.69	146	268962	20.36	ug/kg	97
80)	1,4-Dichlorobenzene	16.82	146	267100	19.15	ug/kg	94
81)	n-Butylbenzene	17.05	91	665858	24.00	ug/kg	98
82)	1,2-Dichlorobenzene	17.31	146	220303	18.91	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15699.D 8260SOIL.M Fri May 18 17:15:45 2001 HPMS_9 Page 2

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Data File : d:\HPCHEM\1\DATA\051801\9M15699.D Vial: 14
Acq On : 18 May 2001 16:52 Operator: MES
Sample : L0105404-03 MS A 00 630-NAVY-CTO 5.18G Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 17:15 2001 Quant Results File: 8260SOIL.RES

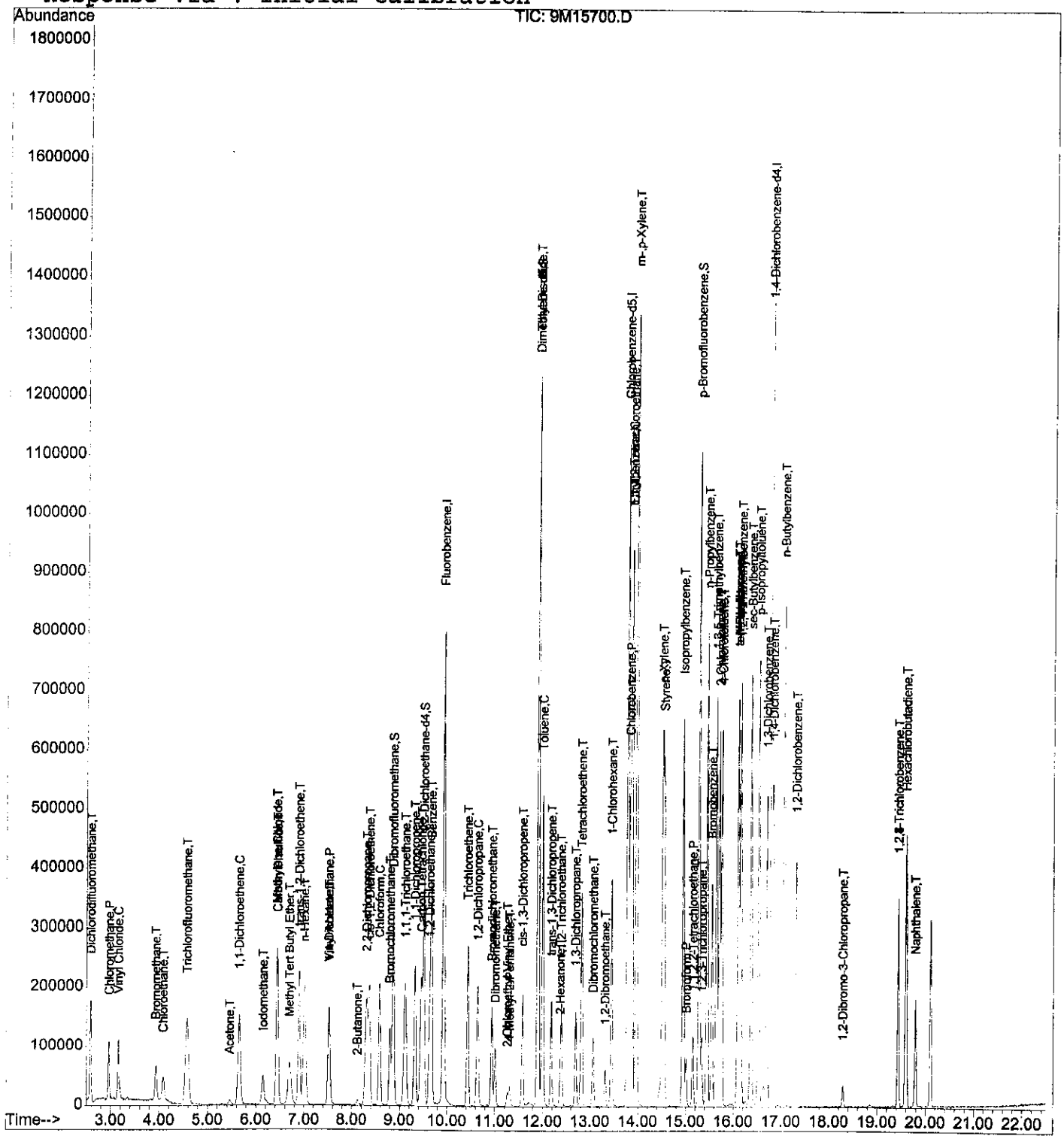
Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,2-Dibromo-3-Chloropropan	18.29	157	12968	12.64	ug/kg#	76
84)	1,2,4-Trichlorobenzene	19.43	180	143412	16.18	ug/kg	100
85)	Hexachlorobutadiene	19.60	225	138478	20.64	ug/kg	96
86)	Naphthalene	19.79	128	179980	12.30	ug/kg	100
87)	1,2,3-Trichlorobenzene	19.43	180	143412	16.18	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15699.D 8260SOIL.M Fri May 18 17:15:45 2001 HPMS_9 Page 3

Data File : D:\HPCHEM\1\DATA\051801\9M15700.D Vial: 15
Acq On : 18 May 2001 17:24 Operator: MES
Sample : L0105404-04 MSD A 00 0.8X 630-NAVY-CTO 6 Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 18 17:47 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\051801\9M15700.D Vial: 15
Acq On : 18 May 2001 17:24 Operator: MES
Sample : L0105404-04 MSD A 00 0.8X 630-NAVY-CTO 6 Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 18 17:47 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	955851	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	738294	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	477779	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	292155	49.27	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.54%			
33) 1,2-Dichloroethane-d4	9.51	65	382612	53.24	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.48%			
45) Toluene-d8	11.90	98	1102840	49.49	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 98.98%			
66) p-Bromofluorobenzene	15.28	95	488038	49.36	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 98.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	189171	12.90	ug/kg	97
3) Chloromethane	2.96	50	110685	15.67	ug/kg	97
4) Vinyl Chloride	3.16	62	95573	15.74	ug/kg	99
5) Bromomethane	3.93	94	59319	17.08	ug/kg	97
6) Chloroethane	4.08	64	57986	17.30	ug/kg	99
7) Trichlorofluoromethane	4.56	101	292377	15.97	ug/kg	98
11) Acetone	5.45	43	15958	6.69	ug/kg#	73
12) 1,1-Dichloroethene	5.65	96	100159	16.03	ug/kg	87
14) Iodomethane	6.14	142	88804	21.99	ug/kg	93
15) Methylene Chloride	6.43	84	100128	15.17	ug/kg	89
16) Carbon Disulfide	6.45	76	284758	12.63	ug/kg	100
18) Methyl Tert Butyl Ether	6.70	73	143654	11.38	ug/kg	97
19) trans-1,2-Dichloroethene	6.90	96	122001	17.19	ug/kg	89
20) n-Hexane	7.02	57	170911	16.17	ug/kg	97
21) Vinyl Acetate	7.52	43	44344	7.46	ug/kg#	88
22) 1,1-Dichloroethane	7.52	63	234051	17.06	ug/kg	99
23) 2-Butanone	8.12	43	15124	8.56	ug/kg	100
24) 2,2-Dichloropropane	8.31	77	222362	16.92	ug/kg	96
25) cis-1,2-Dichloroethene	8.37	96	105147	15.67	ug/kg	83
26) Chloroform	8.58	83	241860	16.90	ug/kg	99
27) Bromochloromethane	8.80	128	40540	14.58	ug/kg	88
29) 1,1,1-Trichloroethane	9.12	97	258546	17.20	ug/kg	92
31) 1,1-Dichloropropene	9.32	75	155280	15.40	ug/kg	96
32) Carbon Tetrachloride	9.46	117	229302	17.71	ug/kg#	95
34) 1,2-Dichloroethane	9.63	62	153303	14.06	ug/kg	97
35) Benzene	9.67	78	449161	17.49	ug/kg	99
36) Trichloroethene	10.43	130	110494	16.63	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051801\9M15700.D Vial: 15
Acq On : 18 May 2001 17:24 Operator: MES
Sample : L0105404-04 MSD A 00 0.8X 630-NAVY-CTO 6 Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 18 17:47 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,2-Dichloropropane	10.64	63	94950	15.58	ug/kg	93
38)	Bromodichloromethane	10.94	83	149137	15.33	ug/kg	99
39)	Dibromomethane	11.01	93	46159	12.78	ug/kg	97
40)	2-Chloroethyl Vinyl Ether	11.26	63	11624	10.58	ug/kg#	81
41)	4-Methyl-2-Pentanone	11.30	58	12573	10.68	ug/kg	89
42)	cis-1,3-Dichloropropene	11.58	75	128604	13.81	ug/kg	97
43)	Dimethyl Disulfide	11.89	79	290	3.68	ug/kg#	1
46)	Toluene	12.00	91	516216	17.38	ug/kg	99
48)	trans-1,3-Dichloropropene	12.19	75	119425	12.30	ug/kg	96
49)	1,1,2-Trichloroethane	12.39	97	65719	12.63	ug/kg	100
50)	2-Hexanone	12.36	43	21425	6.40	ug/kg#	38
51)	1,3-Dichloropropane	12.69	76	109916	12.43	ug/kg	91
52)	Tetrachloroethene	12.81	164	101329	15.92	ug/kg	92
53)	Dibromochloromethane	13.07	129	78768	11.96	ug/kg	98
54)	1,2-Dibromoethane	13.31	107	51898	10.99	ug/kg	96
55)	1-Chlorohexane	13.45	91	138886	13.31	ug/kg#	81
56)	Chlorobenzene	13.82	112	307336	14.96	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	105631	14.39	ug/kg	97
58)	Ethylbenzene	13.87	106	189532	16.95	ug/kg	97
59)	m-,p-Xylene	13.96	106	480566	34.80	ug/kg	95
60)	o-Xylene	14.51	106	220847	17.30	ug/kg	98
61)	Styrene	14.55	104	335890	15.46	ug/kg	91
62)	Bromoform	15.01	173	48759	11.34	ug/kg	99
63)	Isopropylbenzene	14.94	105	587968	16.10	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.15	83	75852	10.94	ug/kg	99
67)	1,2,3-Trichloropropane	15.34	110	22714	10.46	ug/kg#	89
69)	n-Propylbenzene	15.45	91	859308	16.76	ug/kg	98
70)	Bromobenzene	15.55	156	123693	13.92	ug/kg	88
71)	1,3,5-Trimethylbenzene	15.64	105	533773	15.88	ug/kg	100
72)	2-Chlorotoluene	15.70	91	489333	15.40	ug/kg	96
73)	4-Chlorotoluene	15.76	91	481166	15.65	ug/kg	100
74)	a-Methylstyrene	16.09	118	9938	3.68	ug/kg#	1
75)	tert-Butylbenzene	16.09	119	529319	14.81	ug/kg#	73
76)	1,2,4-Trimethylbenzene	16.14	105	551139	15.74	ug/kg	100
77)	sec-Butylbenzene	16.36	105	721590	16.51	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	573283	15.08	ug/kg	99
79)	1,3-Dichlorobenzene	16.69	146	251990	14.69	ug/kg	96
80)	1,4-Dichlorobenzene	16.82	146	248788	13.73	ug/kg	95
81)	n-Butylbenzene	17.05	91	643299	17.85	ug/kg	100
82)	1,2-Dichlorobenzene	17.31	146	208347	13.77	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.29	157	12179	9.14	ug/kg	90

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051801\9M15700.D Vial: 15
Acq On : 18 May 2001 17:24 Operator: MES
Sample : L0105404-04 MSD A 00 0.8X 630-NAVY-CTO 6 Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 18 17:47 2001 Quant Results File: 8260SOIL.RES

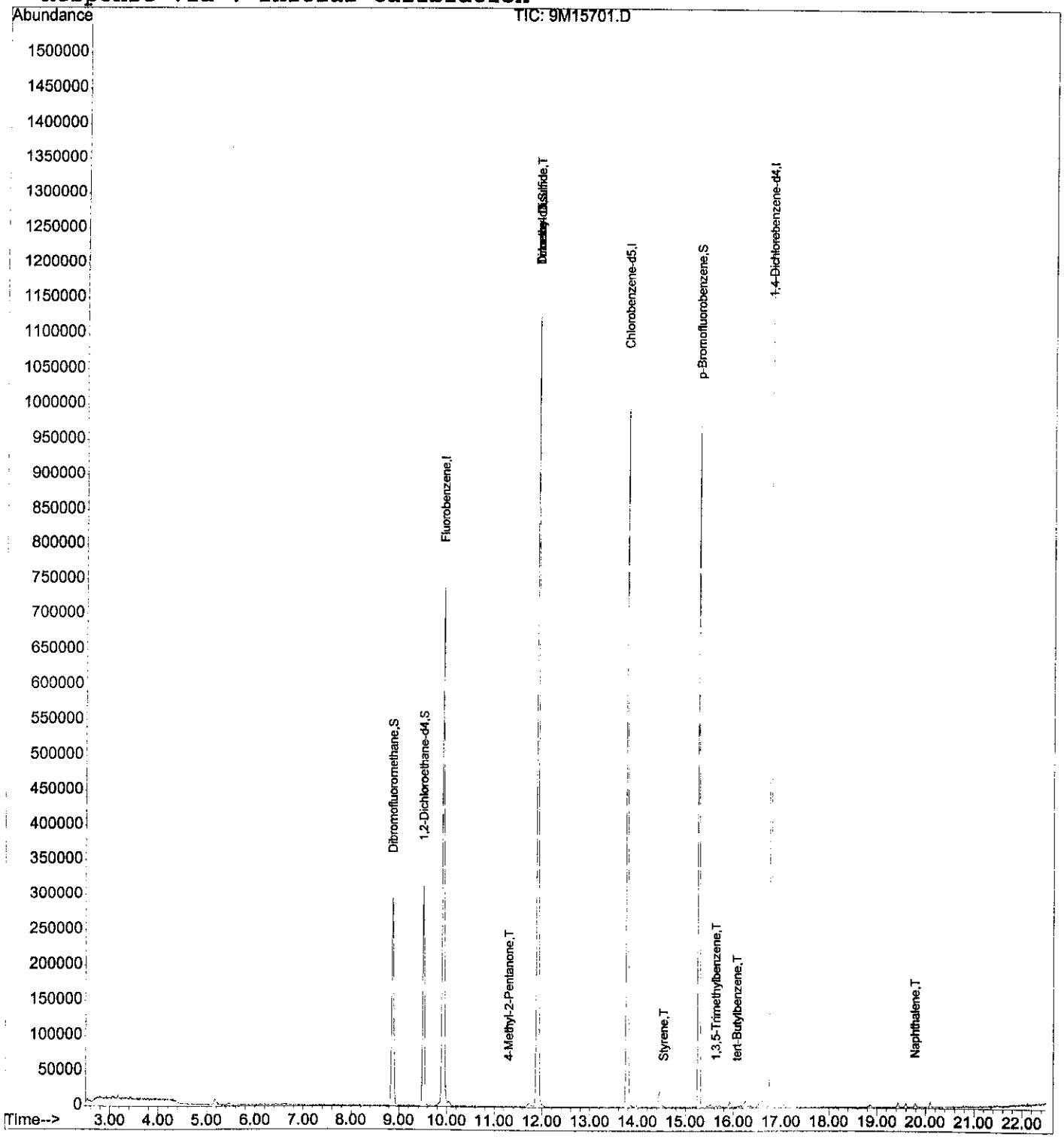
Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84)	1,2,4-Trichlorobenzene	19.44	180	132494	11.51	ug/kg	99
85)	Hexachlorobutadiene	19.60	225	133974	15.38	ug/kg	95
86)	Naphthalene	19.79	128	171937	9.05	ug/kg	100
87)	1,2,3-Trichlorobenzene	19.44	180	132494	11.51	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15700.D 8260SOIL.M Mon May 21 16:19:57 2001 HPMS_9 Page 3

Data File : D:\HPCHEM\1\DATA\051801\9M15701.D Vial: 16
Acq On : 18 May 2001 17:56 Operator: MES
Sample : L0105404-05 A 00 0.9X 630-NAVY-CTO 5.77G Inst : HPMS9
Misc : SOLID,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



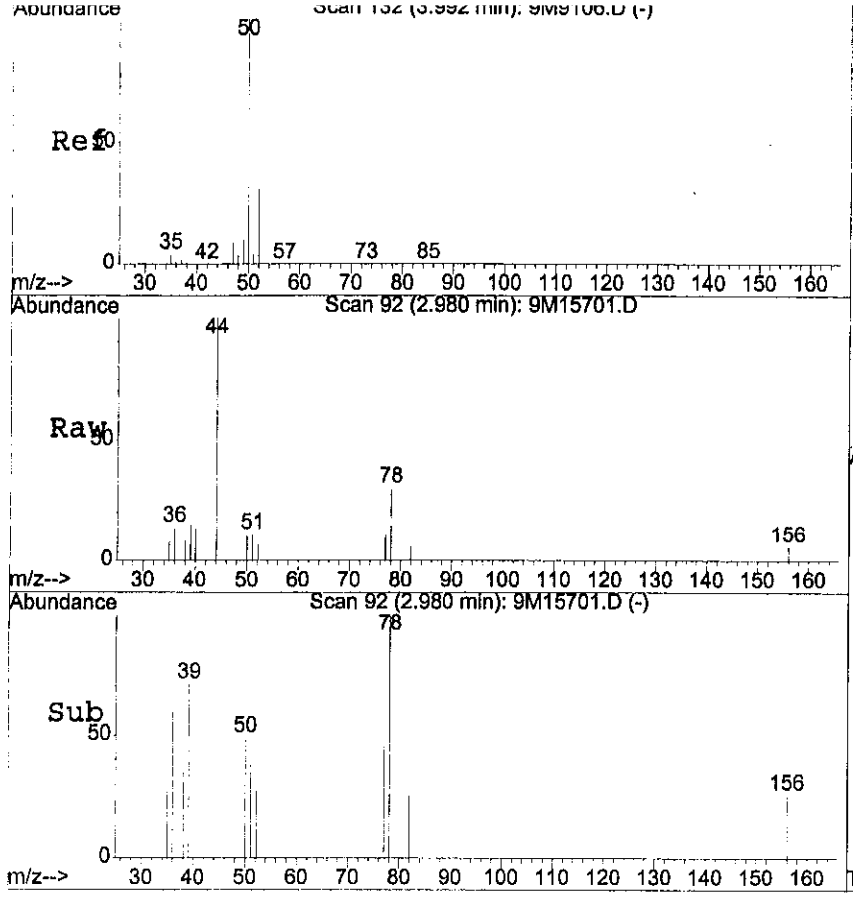
9M15701.D 8260SOIL.M Mon May 21 16:21:08 2001 HPMS_9 Page 2

Data File : D:\HPCHEM\1\DATA\051801\9M15701.D Vial: 16
Acq On : 18 May 2001 17:56 Operator: MES
Sample : L0105404-05 A 00 0.9X 630-NAVY-CTO 5.77G Inst : HPMS9
Misc : SOLID,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 21 16:28 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	848557	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	655130	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	400518	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	261823	49.74	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.48%			
33) 1,2-Dichloroethane-d4	9.51	65	332396	52.10	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.20%			
45) Toluene-d8	11.90	98	992660	50.20	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 100.40%			
66) p-Bromofluorobenzene	15.28	95	414525	50.01	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 100.02%			
Target Compounds						Qvalue
3) Chloromethane	2.98	50	1007	Below Cal		89
4) Vinyl Chloride	3.17	62	243	Below Cal	#	43
11) Acetone	5.44	43	1949	Below Cal		94
41) 4-Methyl-2-Pentanone	11.30	58	112	4.91	ug/kg#	35
43) Dimethyl Disulfide	11.90	79	235	4.14	ug/kg#	1
61) Styrene	14.55	104	1070	1.63	ug/kg F	98
71) 1,3,5-Trimethylbenzene	15.64	105	1664	2.13	ug/kg	89
75) tert-Butylbenzene	16.08	119	270	0.99	ug/kg#	36
86) Naphthalene	19.79	128	6702	0.47	ug/kg F	94

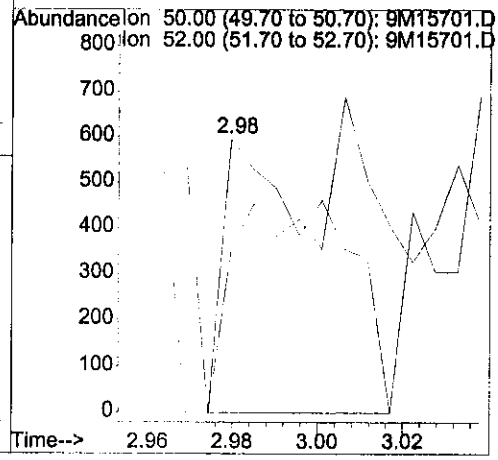
(#) = qualifier out of range (m) = manual integration

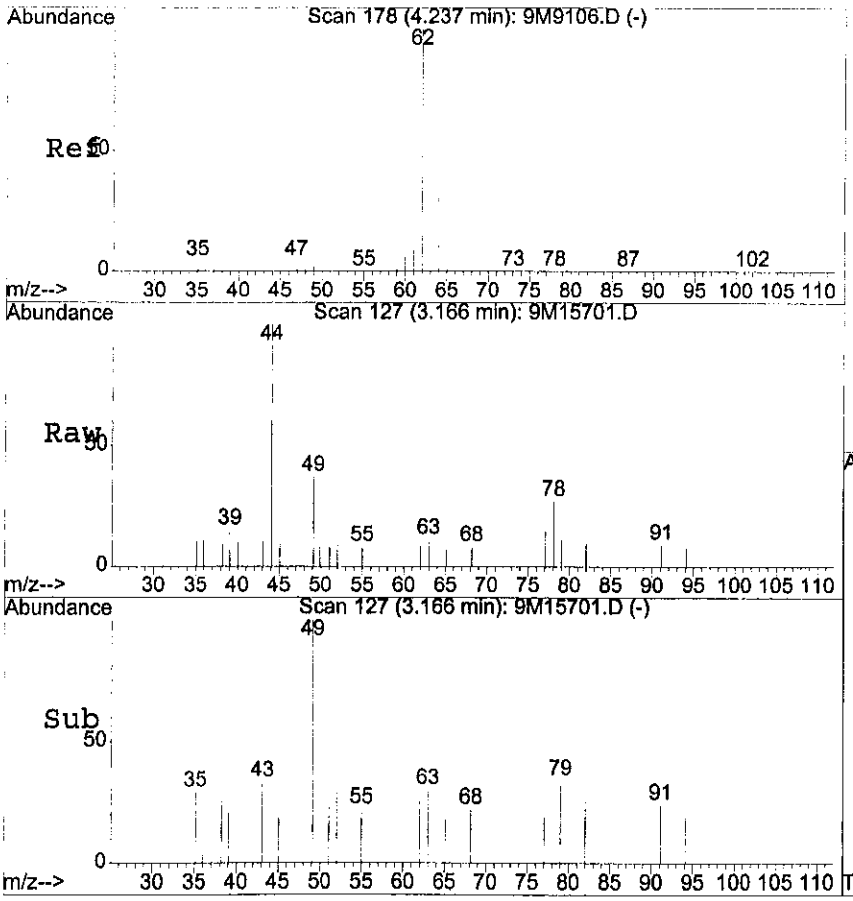


#3
Chloromethane
Concen: Below Cal
RT: 2.98 min Scan# 92
Delta R.T. -0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion: 50 Resp: 1007

Ion	Ratio	Lower	Upper
50	100		
52	37.7	25.4	38.2

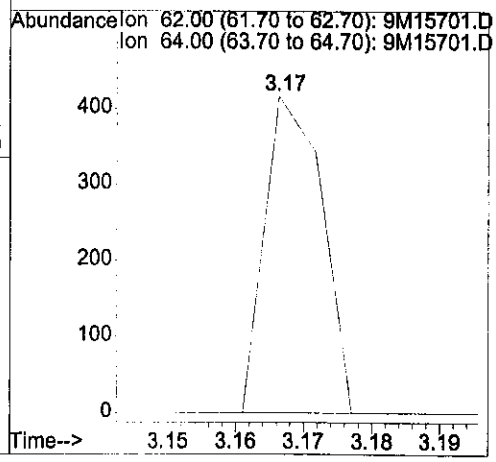


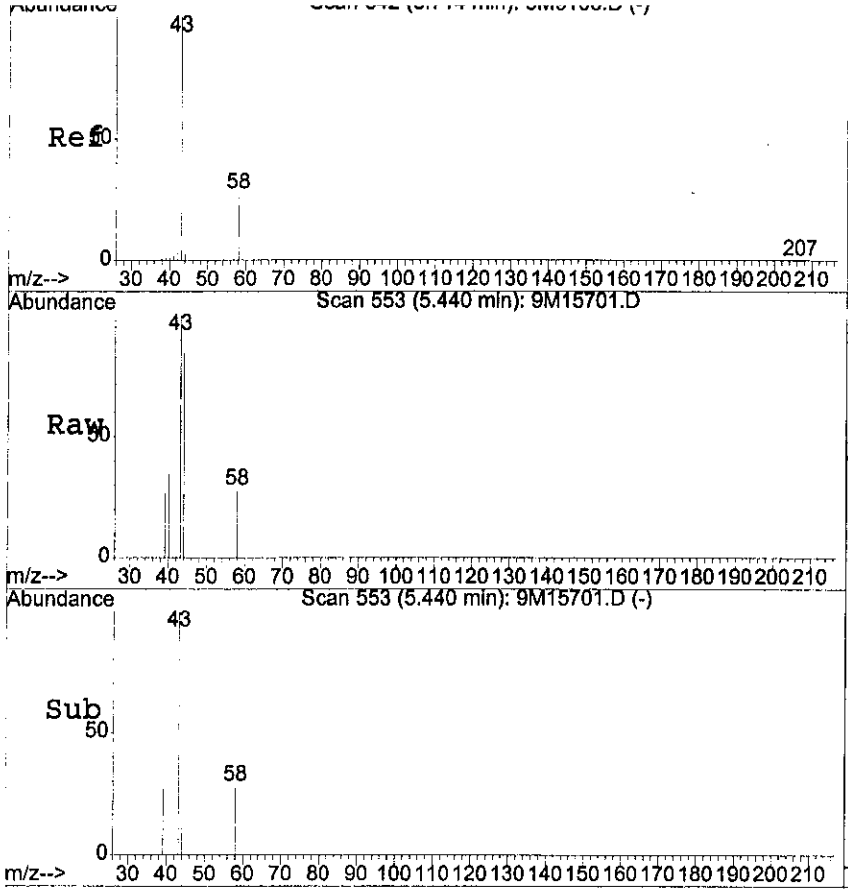


#4
Vinyl Chloride
Concen: Below Cal
RT: 3.17 min Scan# 127
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion: 62 Resp: 243

Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.6	38.4#

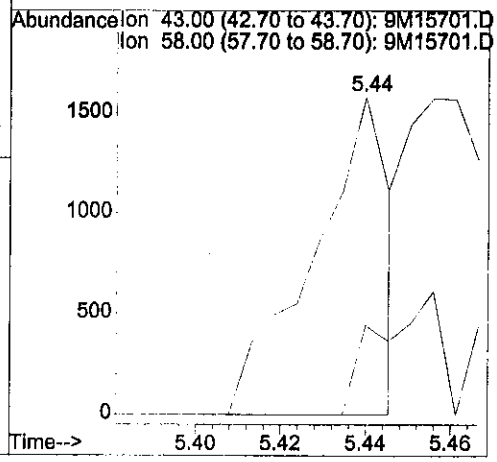


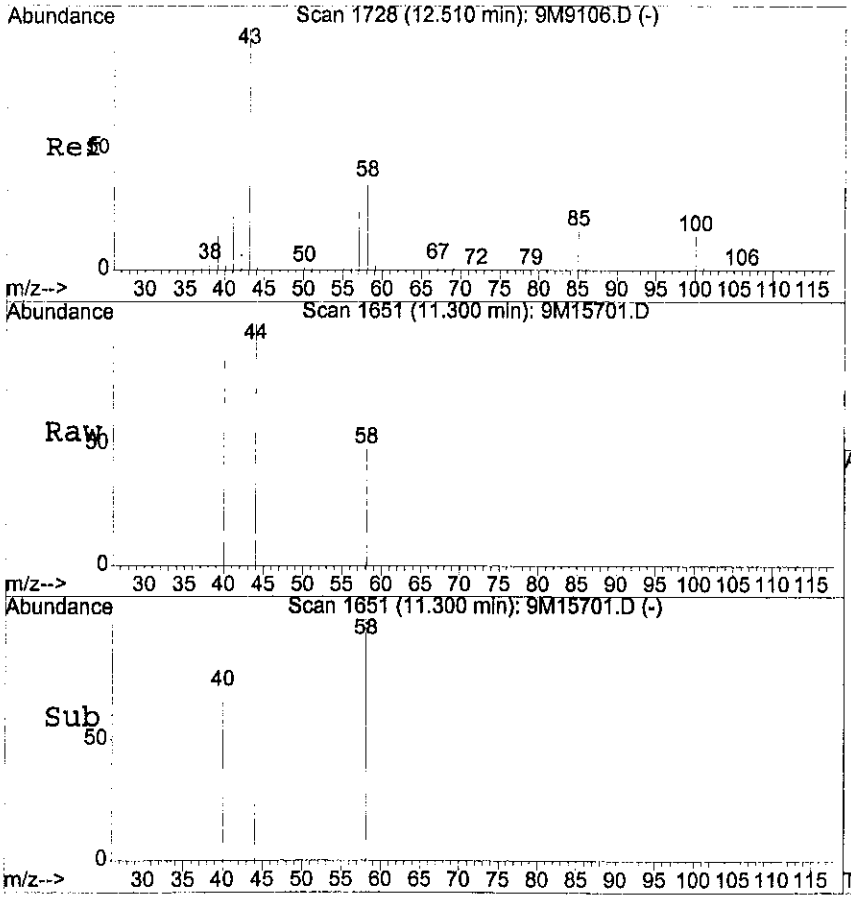


#11
Acetone
Concen: Below Cal
RT: 5.44 min Scan# 553
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion: 43 Resp: 1949

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.9	32.9

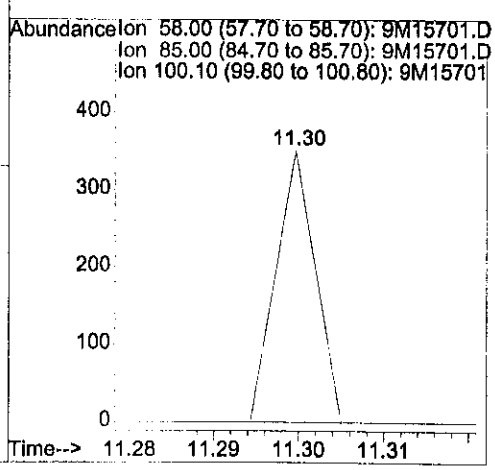


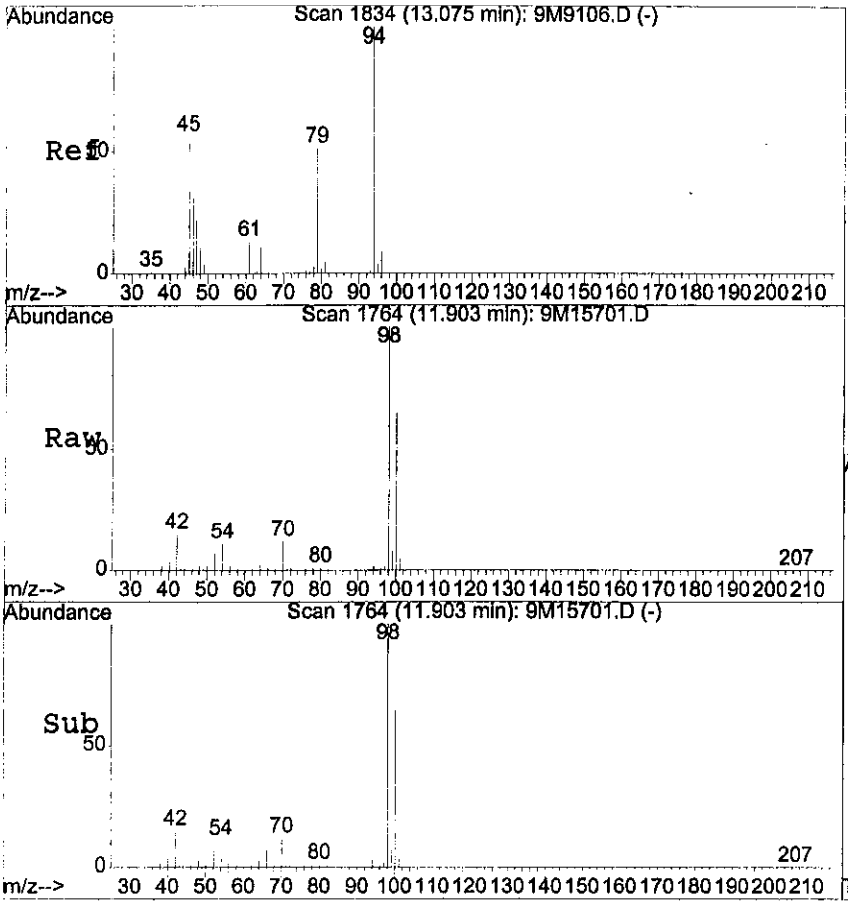


#41
4-Methyl-2-Pentanone
Concen: 4.91 ug/kg
RT: 11.30 min Scan# 1651
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion: 58 Resp: 112

Ion	Ratio	Lower	Upper
58	100		
85	0.0	36.1	54.1#
100	0.0	28.5	42.7#

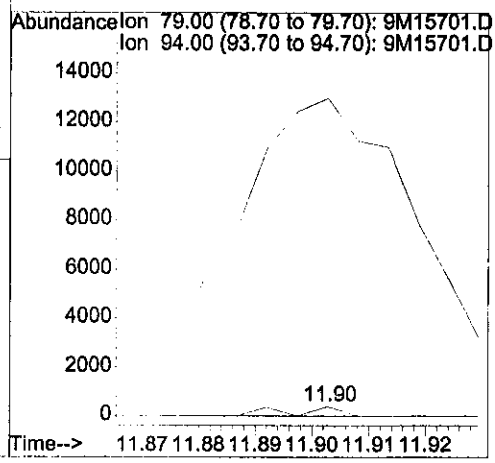


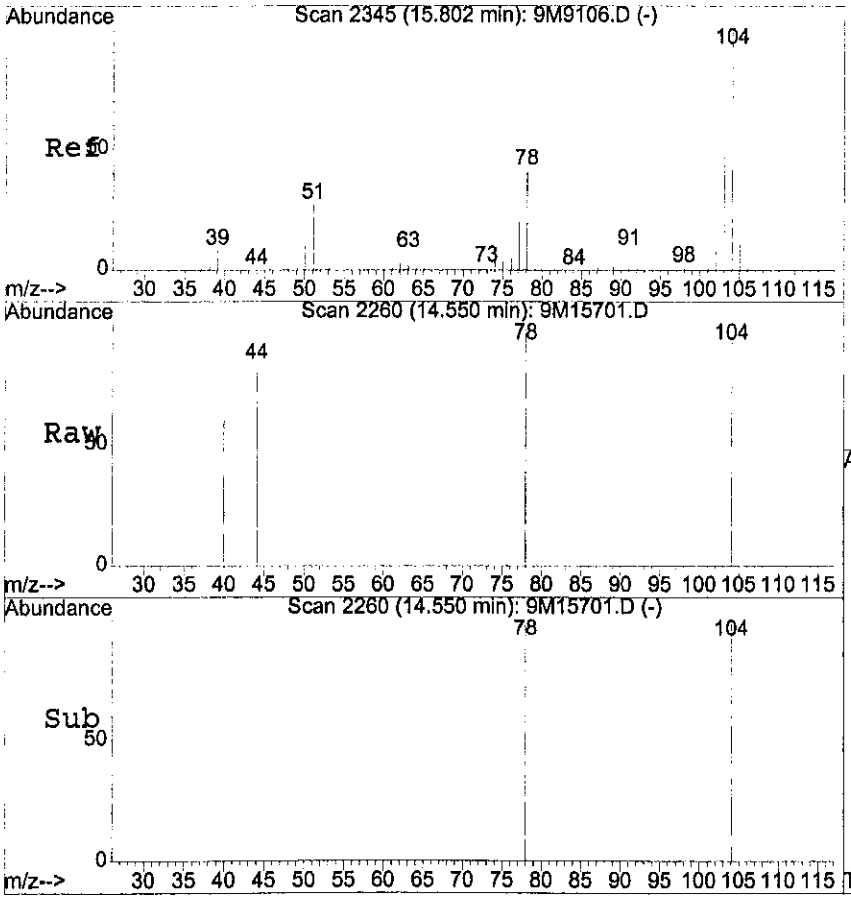


#43
Dimethyl Disulfide
Concen: 4.14 ug/kg
RT: 11.90 min Scan# 1764
Delta R.T. 0.09 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion: 79 Resp: 235

Ion	Ratio	Lower	Upper
79	100		
94	13406.0	153.5	230.3#

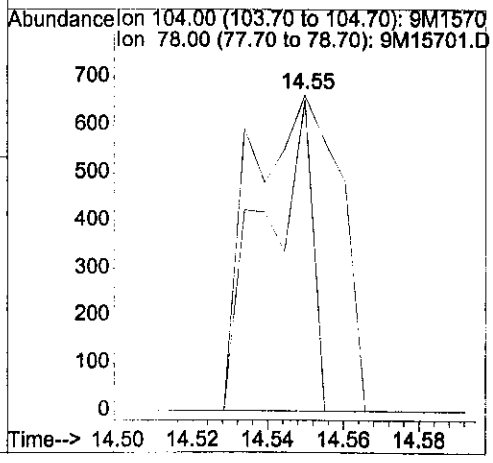


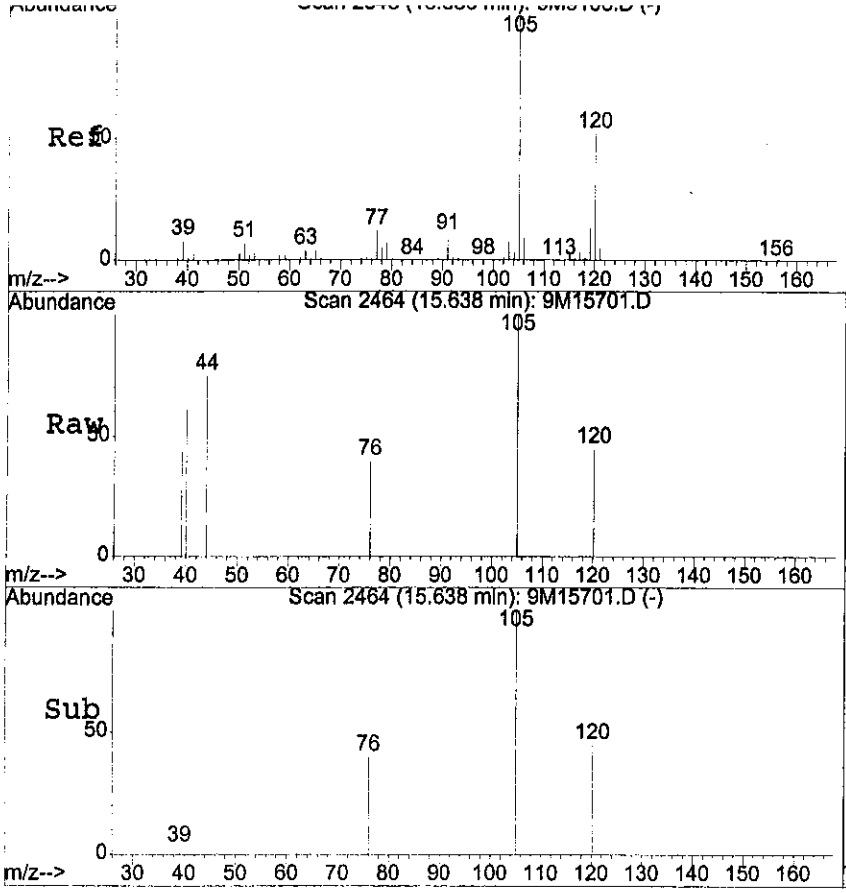


#61
Styrene
Concen: 1.63 ug/kg
RT: 14.55 min Scan# 2260
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion:104 Resp: 1070

Ion	Ratio	Lower	Upper
104	100		
78	55.0	45.0	67.4

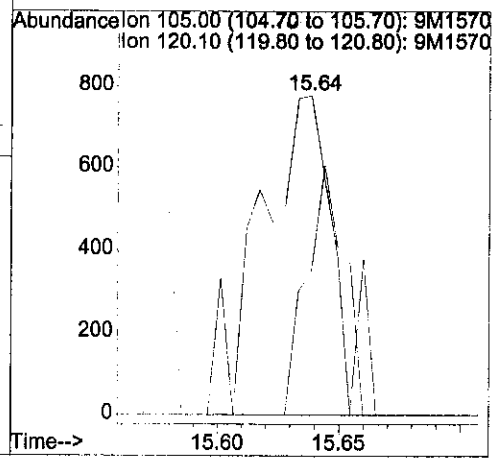


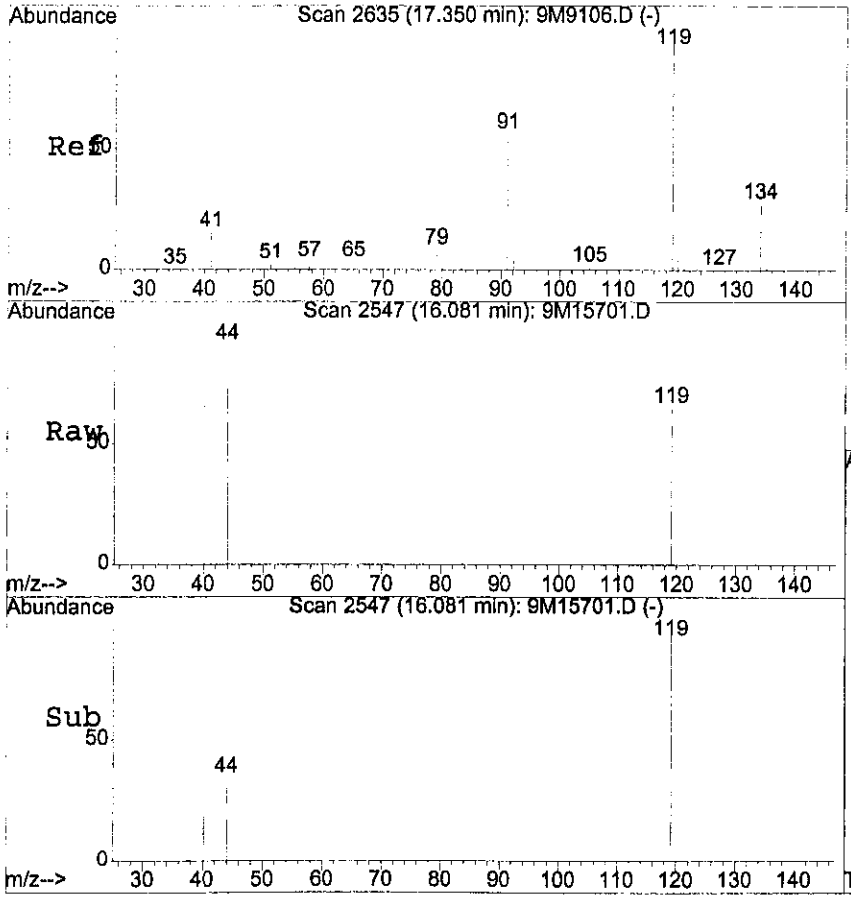


#71
1,3,5-Trimethylbenzene
Concen: 2.13 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion:105 Resp: 1664

Ion	Ratio	Lower	Upper
105	100		
120	39.1	37.3	55.9

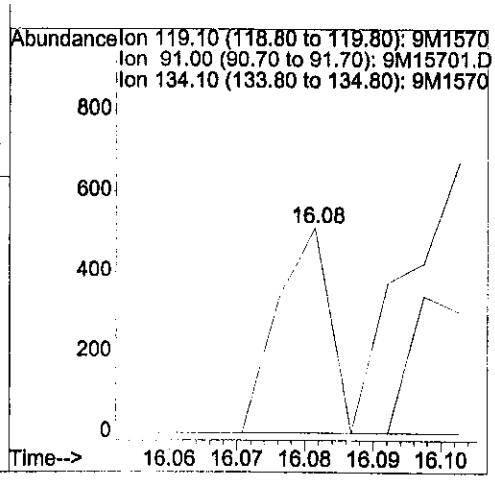


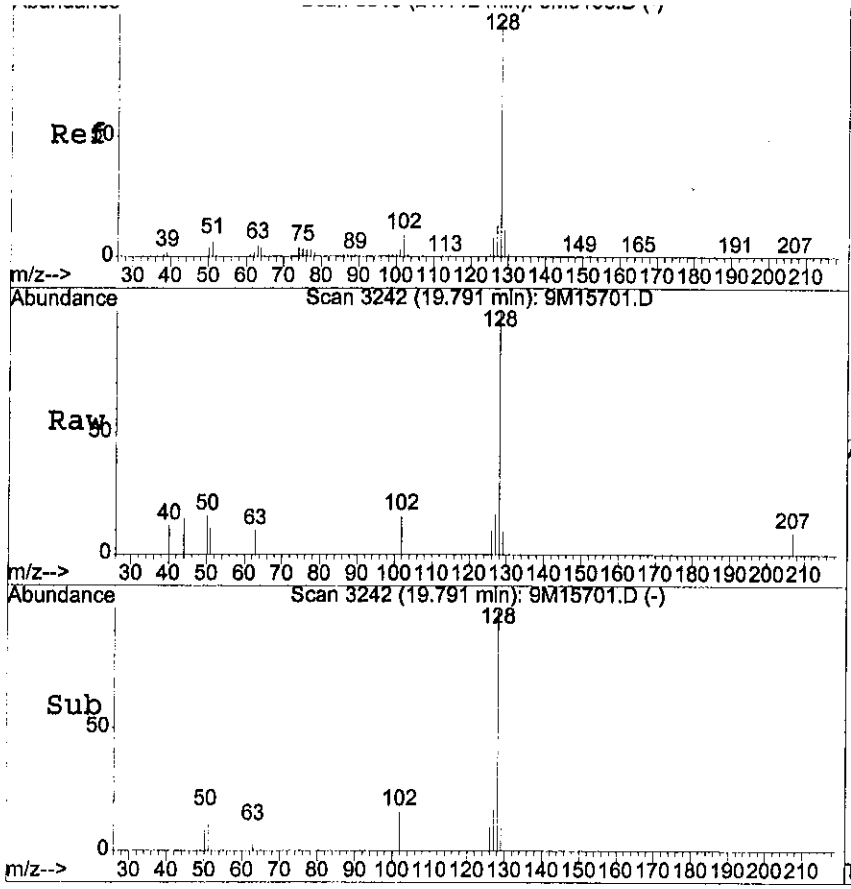


#75
tert-Butylbenzene
Concen: 0.99 ug/kg
RT: 16.08 min Scan# 2547
Delta R.T. -0.00 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

Tgt Ion:119 Resp: 270

Ion	Ratio	Lower	Upper
119	100		
91	0.0	39.5	59.3#
134	0.0	16.0	24.0#

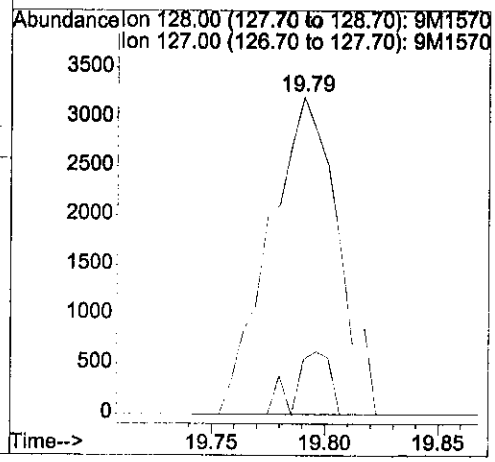




#86
Naphthalene
Concen: 0.47 ug/kg
RT: 19.79 min Scan# 3242
Delta R.T. 0.01 min
Lab File: 9M15701.D
Acq: 18 May 2001 17:56

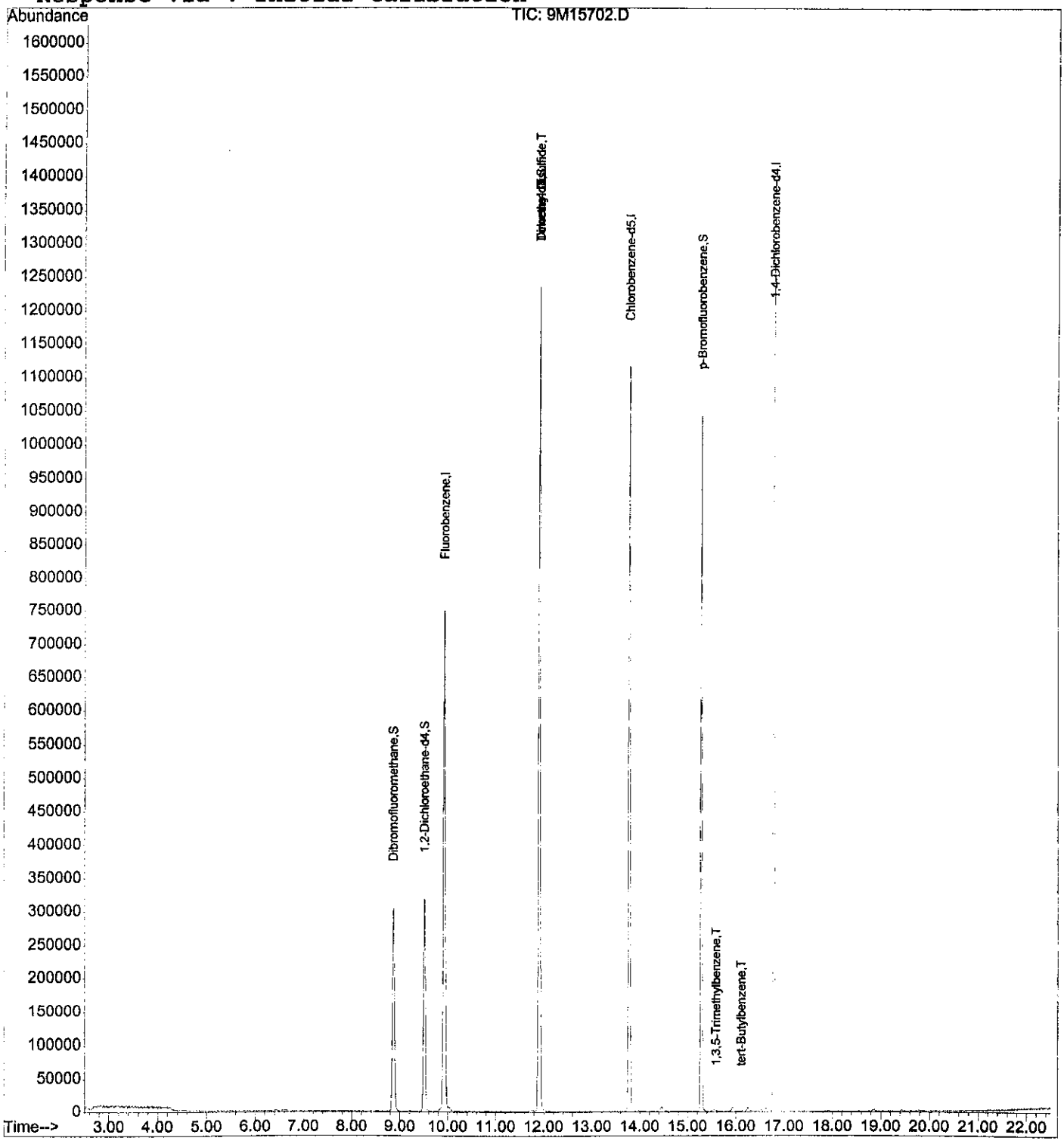
Tgt Ion:128 Resp: 6702

Ion	Ratio	Lower	Upper
128	100		
127	10.2	9.9	14.9



Data File : D:\HPCHEM\1\DATA\051801\9M15702.D Vial: 17
Acq On : 18 May 2001 18:28 Operator: MES
Sample : L0105404-06 A 00 0.8X 630-NAVY-CTO 5.91G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

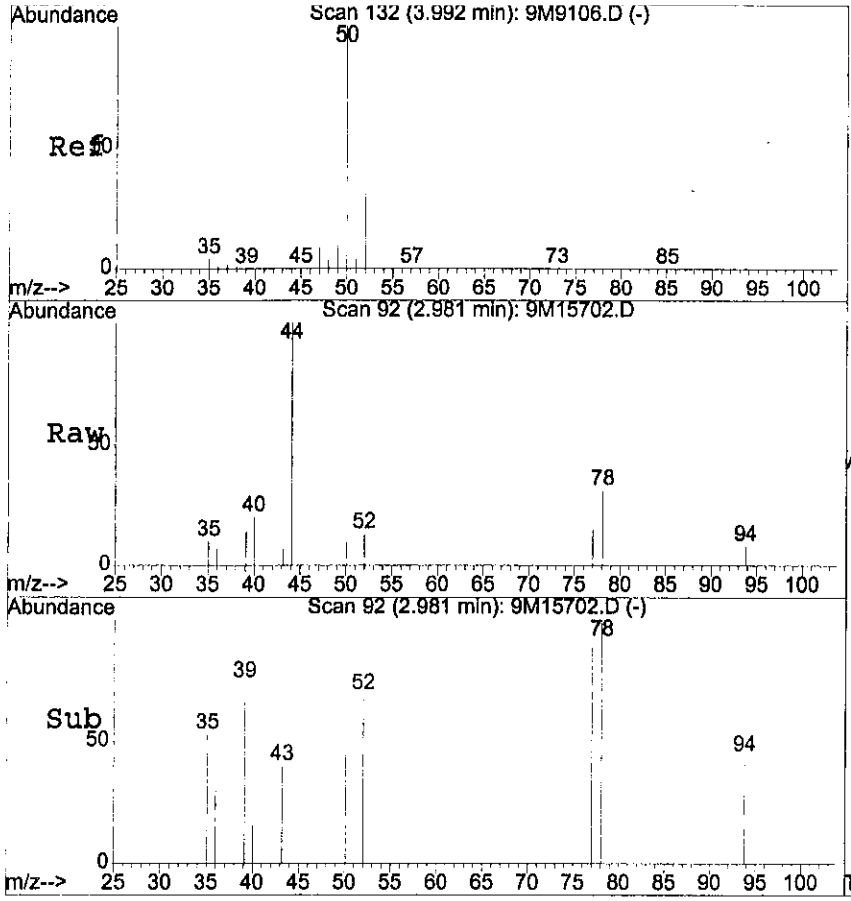


Data File : D:\HPCHEM\1\DATA\051801\9M15702.D Vial: 17
Acq On : 18 May 2001 18:28 Operator: MES
Sample : L0105404-06 A 00 0.8X 630-NAVY-CTO 5.91G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	880938	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	707972	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.79	152	409217	50.00	ug/kg	0.02
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	270449	49.49	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.98%			
33) 1,2-Dichloroethane-d4	9.51	65	347945	52.53	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.06%			
45) Toluene-d8	11.90	98	1045861	48.94	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 97.88%			
66) p-Bromofluorobenzene	15.28	95	439856	51.94	ug/kg	0.02
Spiked Amount 50.000	Range 74 - 121		Recovery = 103.88%			
Target Compounds						Qvalue
3) Chloromethane	2.98	50	134	Below Cal	#	1
11) Acetone	5.45	43	2489	Below Cal	#	70
43) Dimethyl Disulfide	11.90	79	165	3.66	ug/kg#	1
71) 1,3,5-Trimethylbenzene	15.59	105	240	1.85	ug/kg#	30
75) tert-Butylbenzene	16.11	119	116	0.88	ug/kg#	36

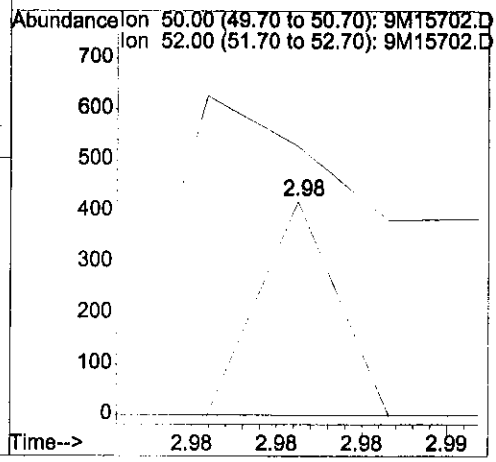
(#) = qualifier out of range (m) = manual integration
9M15702.D 8260SOIL.M Mon May 21 16:21:24 2001 HPMS_9 Page 1

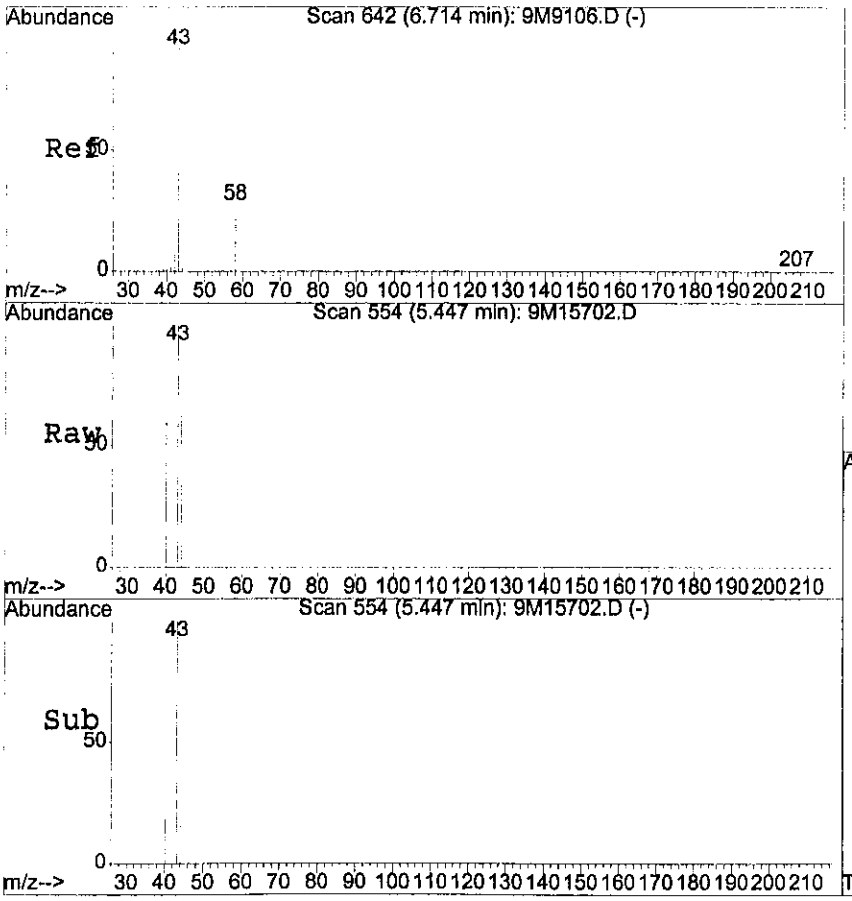


#3
Chloromethane
Concen: Below Cal
RT: 2.98 min Scan# 92
Delta R.T. -0.00 min
Lab File: 9M15702.D
Acq: 18 May 2001 18:28

Tgt Ion: 50 Resp: 134

Ion	Ratio	Lower	Upper
50	100		
52	816.4	25.4	38.2#

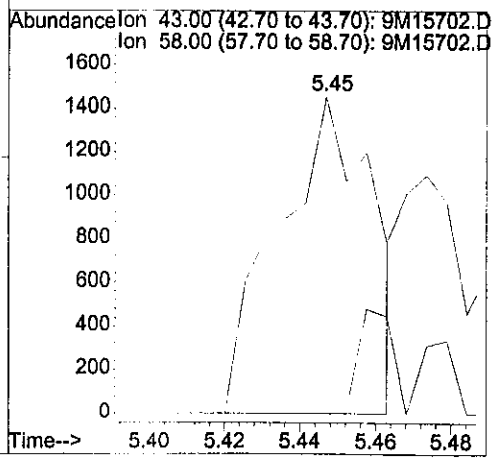


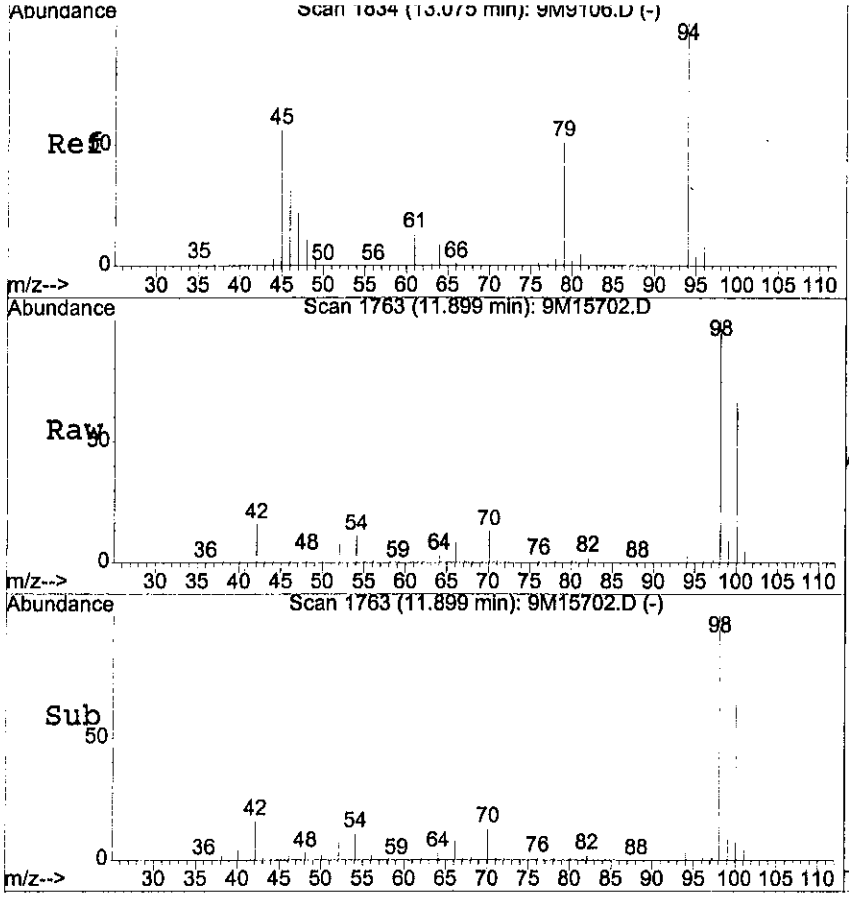


#11
Acetone
Concen: Below Cal
RT: 5.45 min Scan# 554
Delta R.T. 0.02 min
Lab File: 9M15702.D
Acq: 18 May 2001 18:28

Tgt Ion: 43 Resp: 2489

Ion	Ratio	Lower	Upper
43	100		
58	11.9	21.9	32.9#

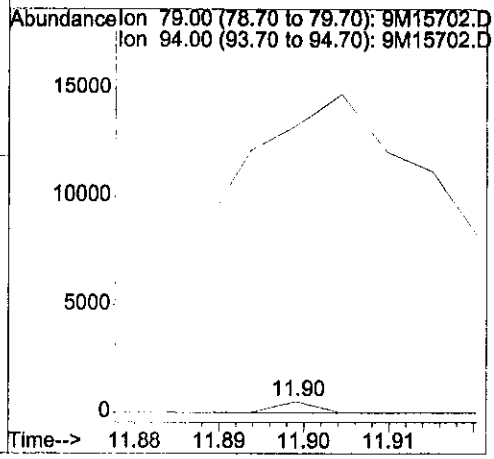


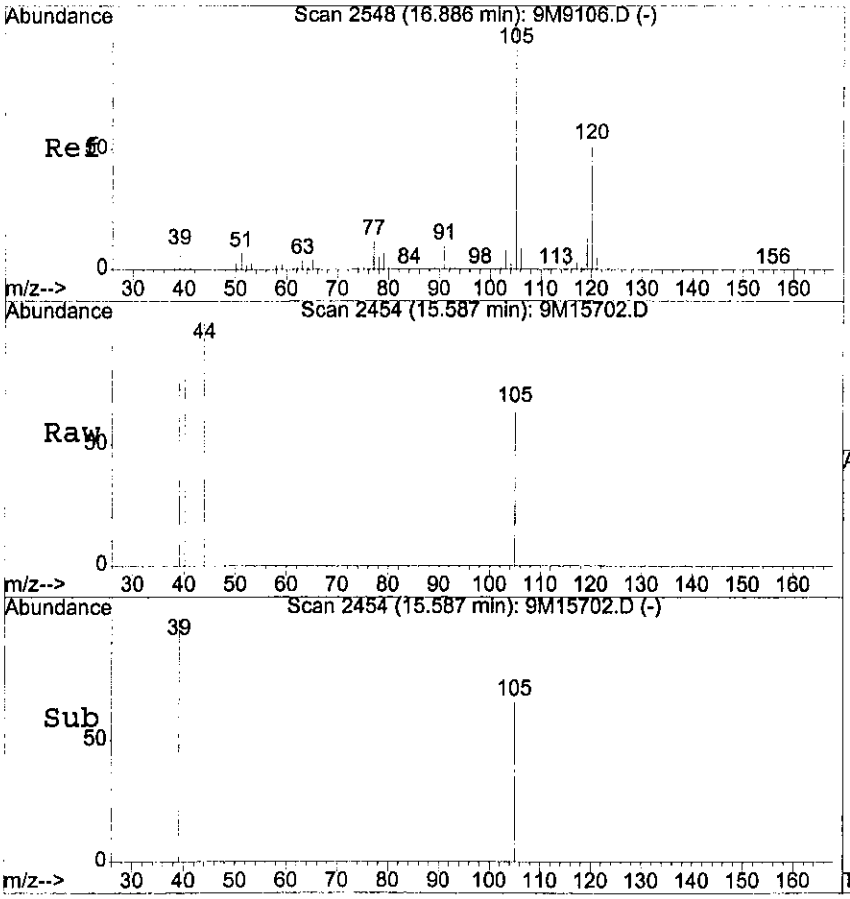


#43
Dimethyl Disulfide
Concen: 3.66 ug/kg
RT: 11.90 min Scan# 1763
Delta R.T. 0.09 min
Lab File: 9M15702.D
Acq: 18 May 2001 18:28

Tgt Ion: 79 Resp: 165

Ion	Ratio	Lower	Upper
79	100		
94	20658.2	153.5	230.3#

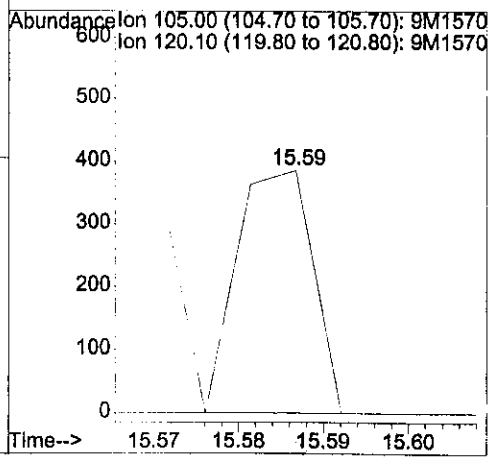


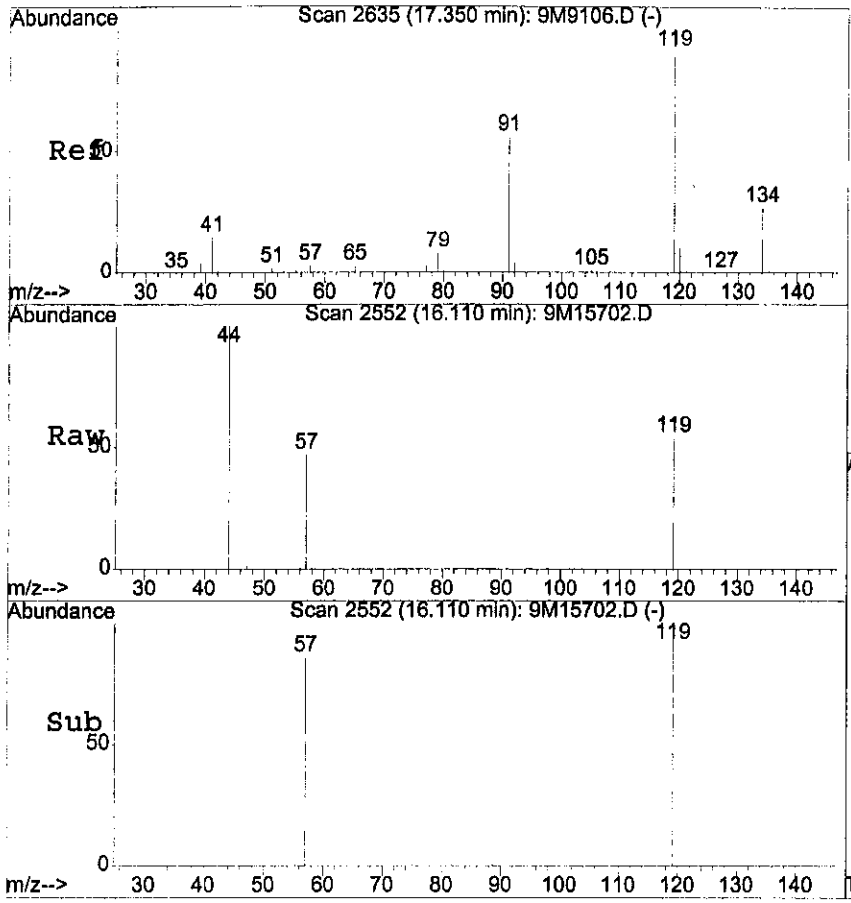


#71
1,3,5-Trimethylbenzene
Concen: 1.85 ug/kg
RT: 15.59 min Scan# 2454
Delta R.T. -0.04 min
Lab File: 9M15702.D
Acq: 18 May 2001 18:28

Tgt Ion:105 Resp: 240

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#

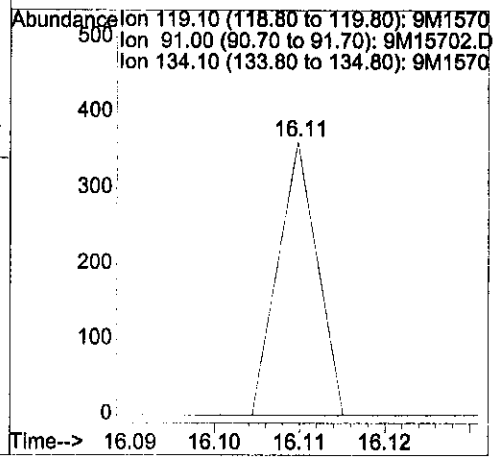




#75
tert-Butylbenzene
Concen: 0.88 ug/kg
RT: 16.11 min Scan# 2552
Delta R.T. 0.03 min
Lab File: 9M15702.D
Acq: 18 May 2001 18:28

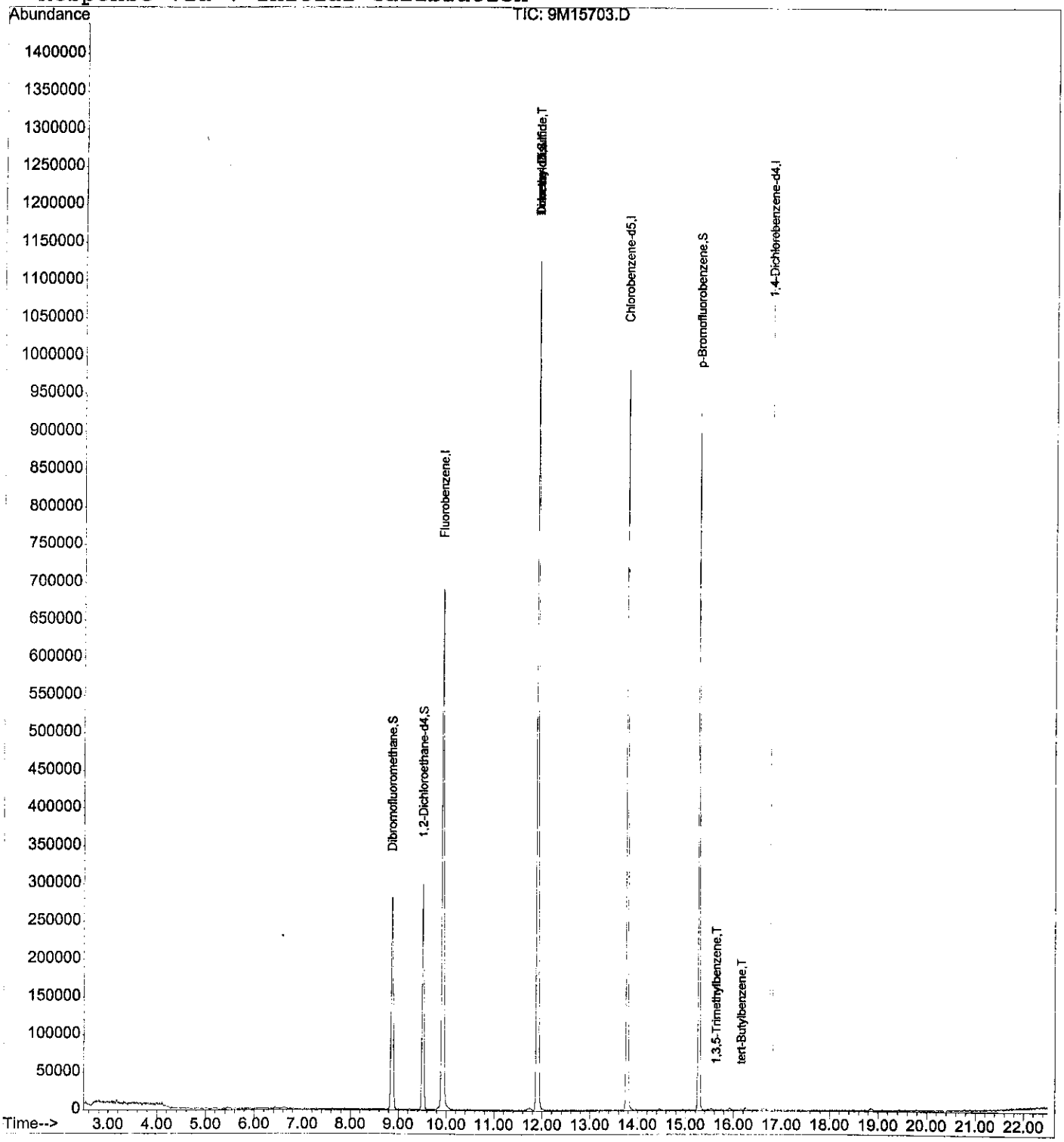
Tgt Ion:119 Resp: 116

Ion	Ratio	Lower	Upper
119	100		
91	0.0	39.5	59.3#
134	0.0	16.0	24.0#



Data File : D:\HPCHEM\1\DATA\051801\9M15703.D Vial: 18
Acq On : 18 May 2001 18:59 Operator: MES
Sample : L0105404-07 A 00 0.8X 630-NAVY-CTO 5.92G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

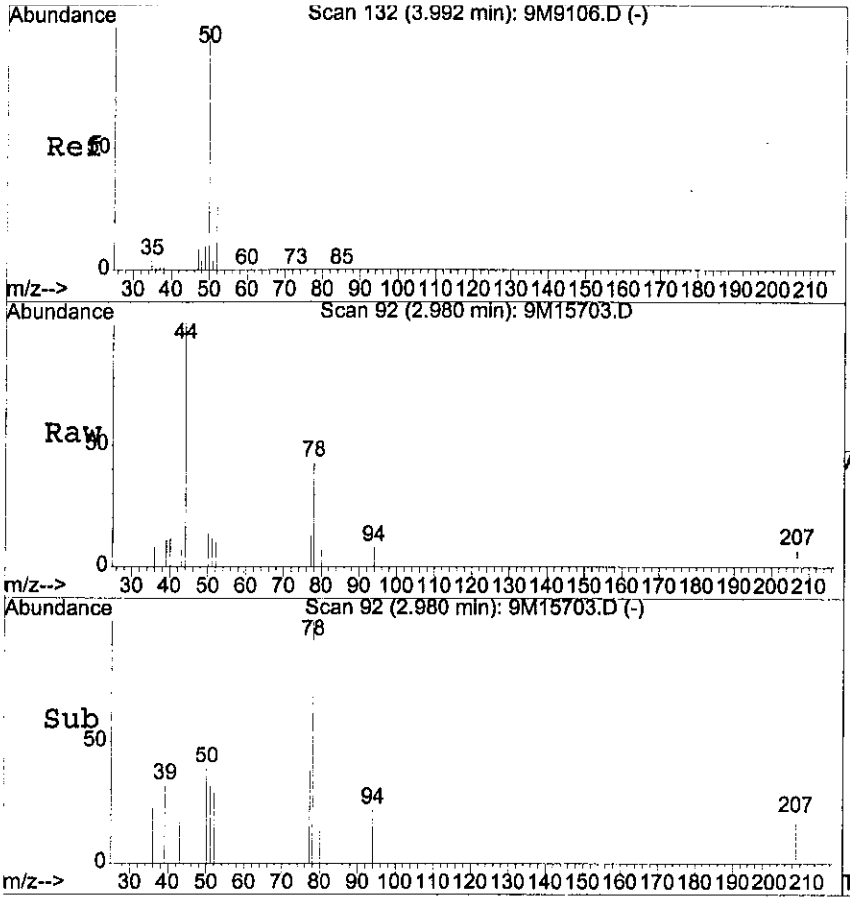


Data File : D:\HPCHEM\1\DATA\051801\9M15703.D Vial: 18
Acq On : 18 May 2001 18:59 Operator: MES
Sample : L0105404-07 A 00 0.8X 630-NAVY-CTO 5.92G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	804985	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	626734	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.79	152	356451	50.00	ug/kg	0.01
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	252111	50.48	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.96%			
33) 1,2-Dichloroethane-d4	9.51	65	315516	52.13	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.26%			
45) Toluene-d8	11.90	98	958788	50.68	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 101.36%			
66) p-Bromofluorobenzene	15.28	95	383991	52.05	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 104.10%			
Target Compounds						Qvalue
3) Chloromethane	2.98	50	901	Below Cal		90
4) Vinyl Chloride	3.17	62	104	Below Cal	#	43
11) Acetone	5.46	43	4675	Below Cal	#	58
43) Dimethyl Disulfide	11.90	79	303	3.69	ug/kg#	1
71) 1,3,5-Trimethylbenzene	15.64	105	148	1.84	ug/kg#	30
75) tert-Butylbenzene	16.16	119	102	0.88	ug/kg#	36

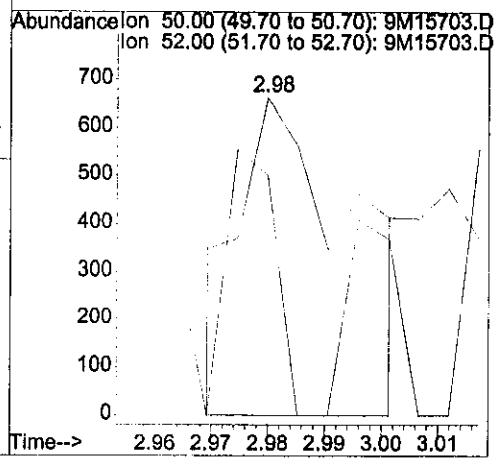
(#) = qualifier out of range (m) = manual integration
9M15703.D 8260SOIL.M Mon May 21 16:21:41 2001 HPMS_9 Page 1

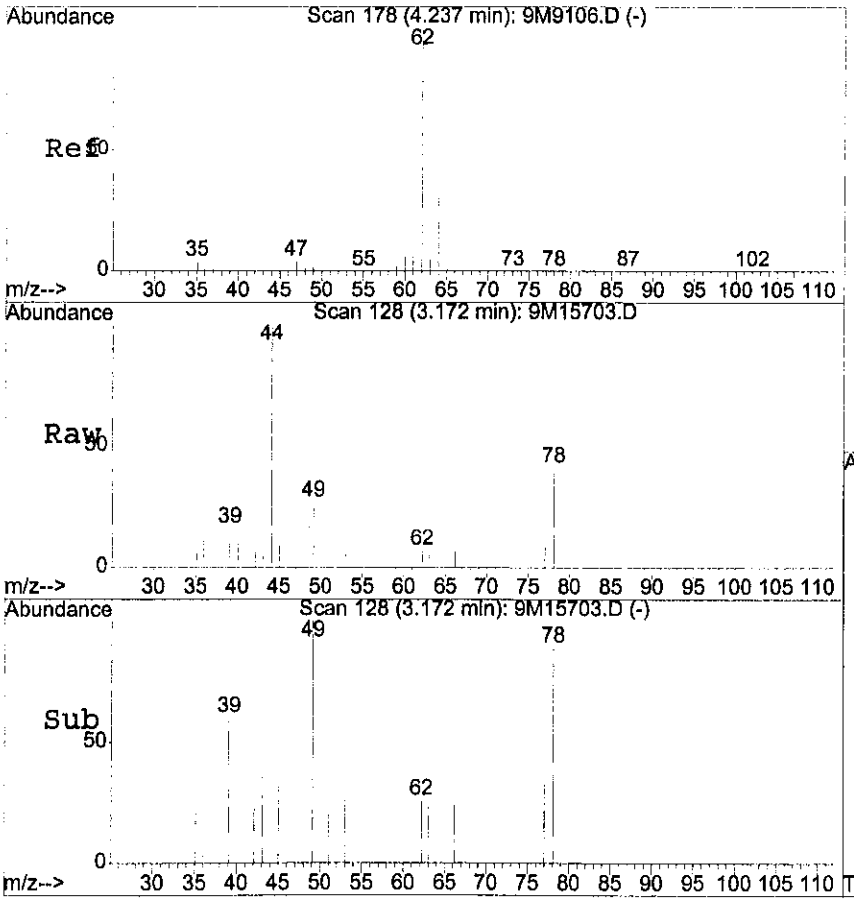


#3
Chloromethane
Concen: Below Cal
RT: 2.98 min Scan# 92
Delta R.T. -0.01 min
Lab File: 9M15703.D
Acq: 18 May 2001 18:59

Tgt Ion: 50 Resp: 901

Ion	Ratio	Lower	Upper
50	100		
52	37.5	25.4	38.2

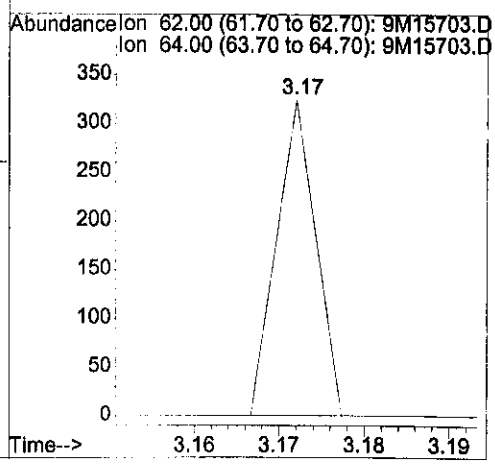


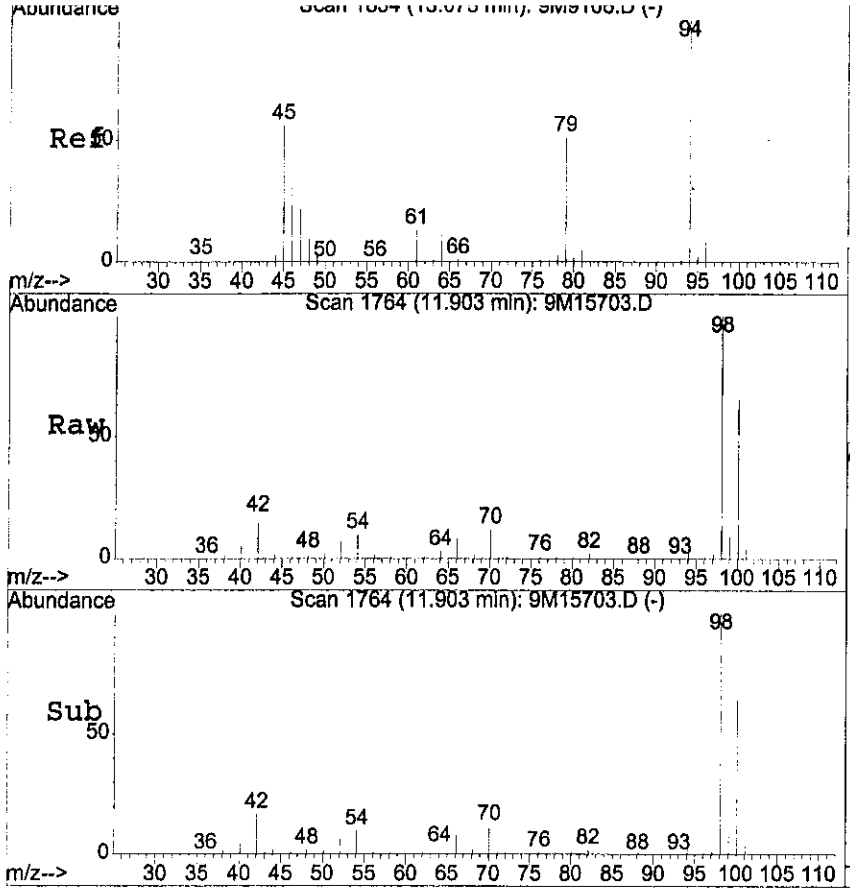


#4
Vinyl Chloride
Concen: Below Cal
RT: 3.17 min Scan# 128
Delta R.T. 0.02 min
Lab File: 9M15703.D
Acq: 18 May 2001 18:59

Tgt Ion: 62 Resp: 104

Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.6	38.4#

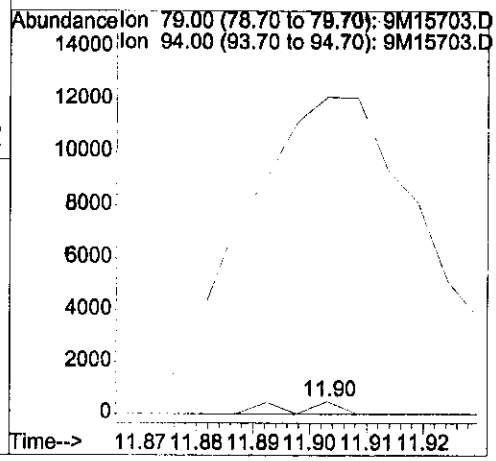


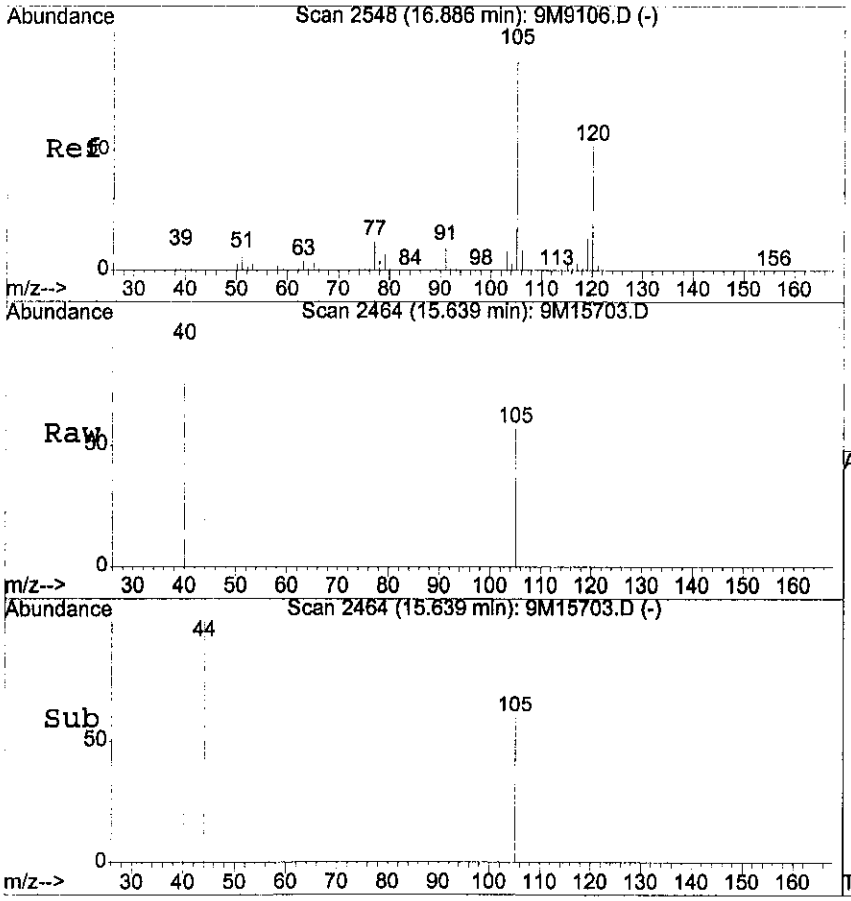


#43
Dimethyl Disulfide
Concen: 3.69 ug/kg
RT: 11.90 min Scan# 1764
Delta R.T. 0.10 min
Lab File: 9M15703.D
Acq: 18 May 2001 18:59

Tgt Ion: 79 Resp: 303

Ion	Ratio	Lower	Upper
79	100		
94	9454.5	153.5	230.3#

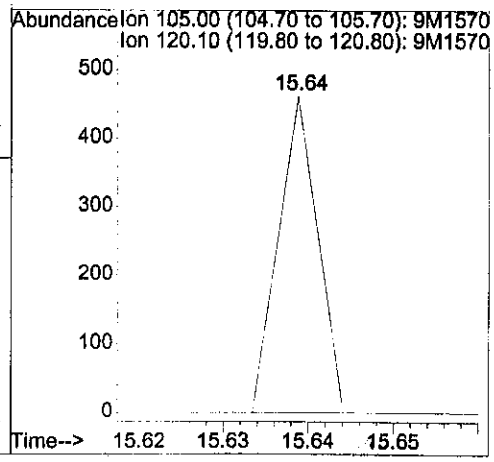


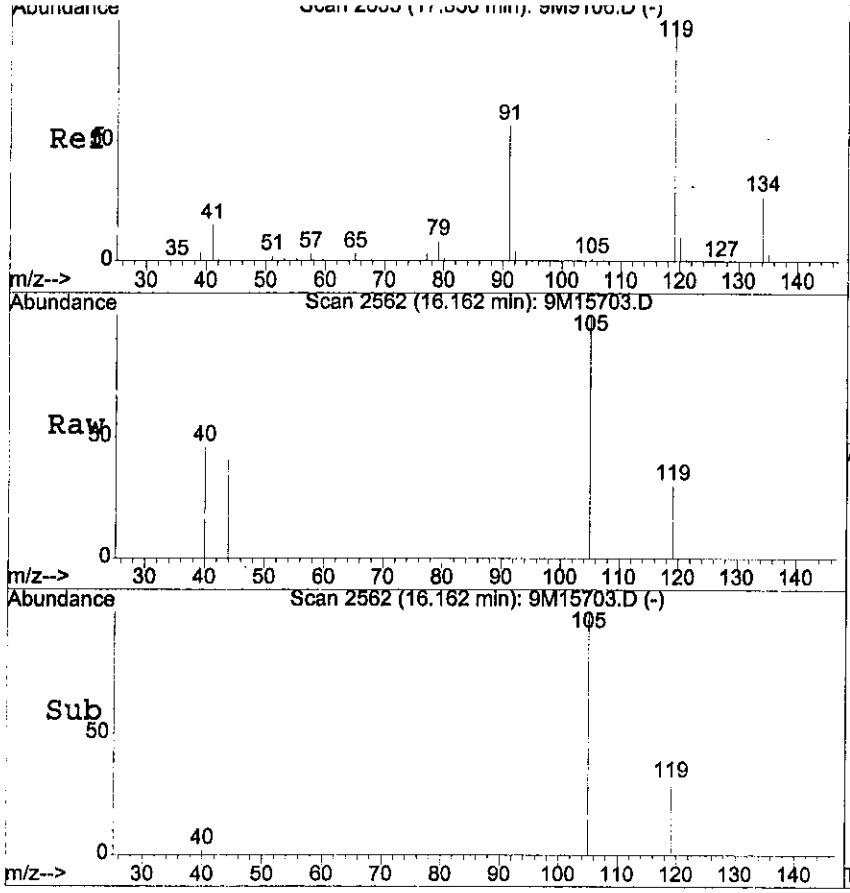


#71
1,3,5-Trimethylbenzene
Concen: 1.84 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.01 min
Lab File: 9M15703.D
Acq: 18 May 2001 18:59

Tgt Ion:105 Resp: 148

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#

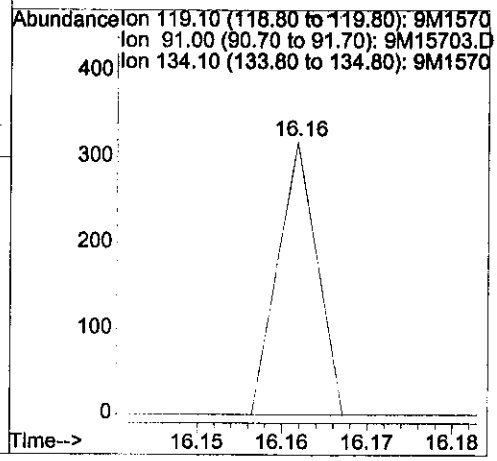




#75
tert-Butylbenzene
Concen: 0.88 ug/kg
RT: 16.16 min Scan# 2562
Delta R.T. 0.08 min
Lab File: 9M15703.D
Acq: 18 May 2001 18:59

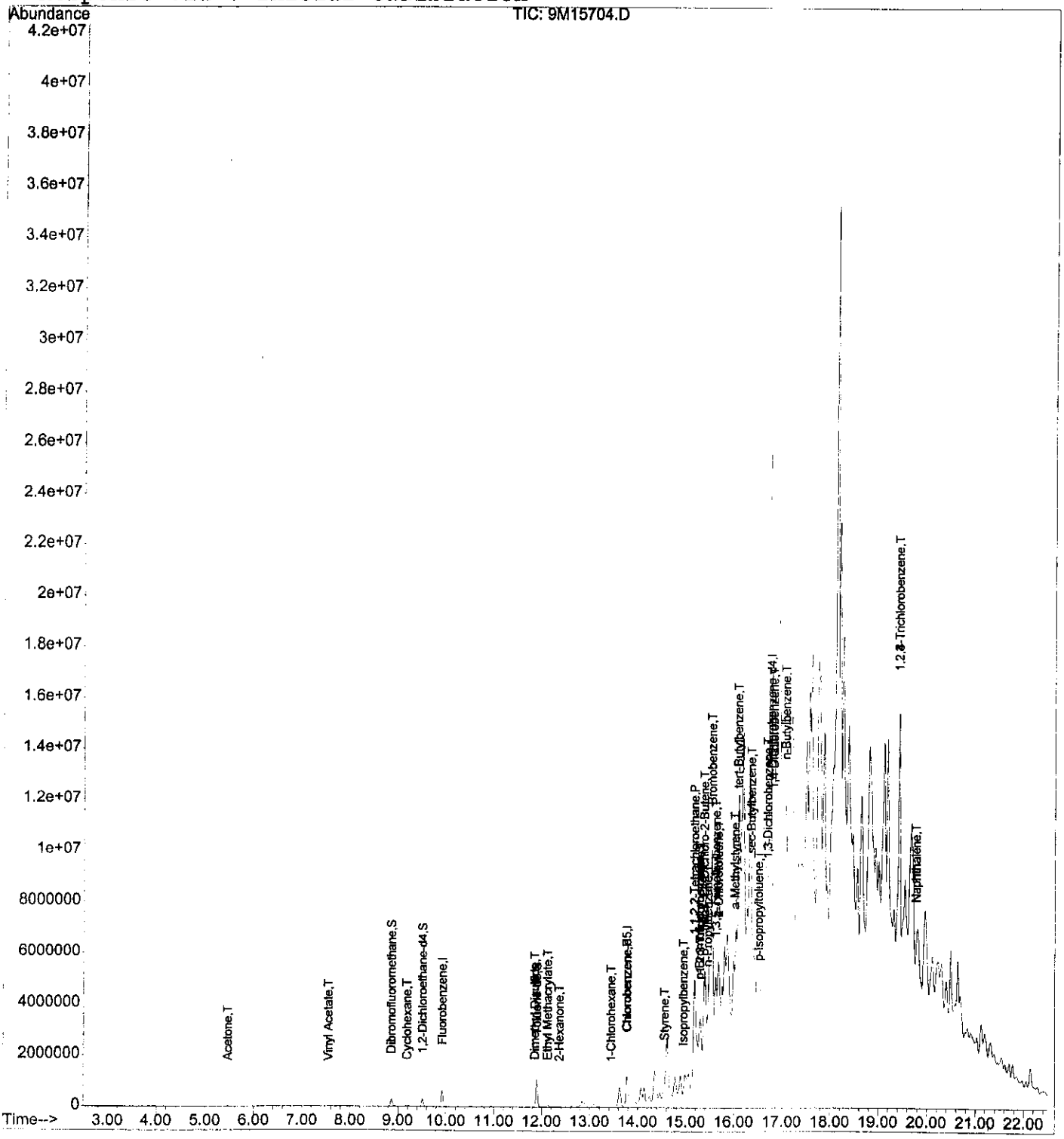
Tgt Ion:119 Resp: 102

Ion	Ratio	Lower	Upper
119	100		
91	0.0	39.5	59.3#
134	0.0	16.0	24.0#



Data File : D:\HPCHEM\1\DATA\051801\9M15704.D Vial: 19
Acq On : 18 May 2001 19:31 Operator: MES
Sample : L0105404-08 A 00 0.8X 630-NAVY-CTO 5.90G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

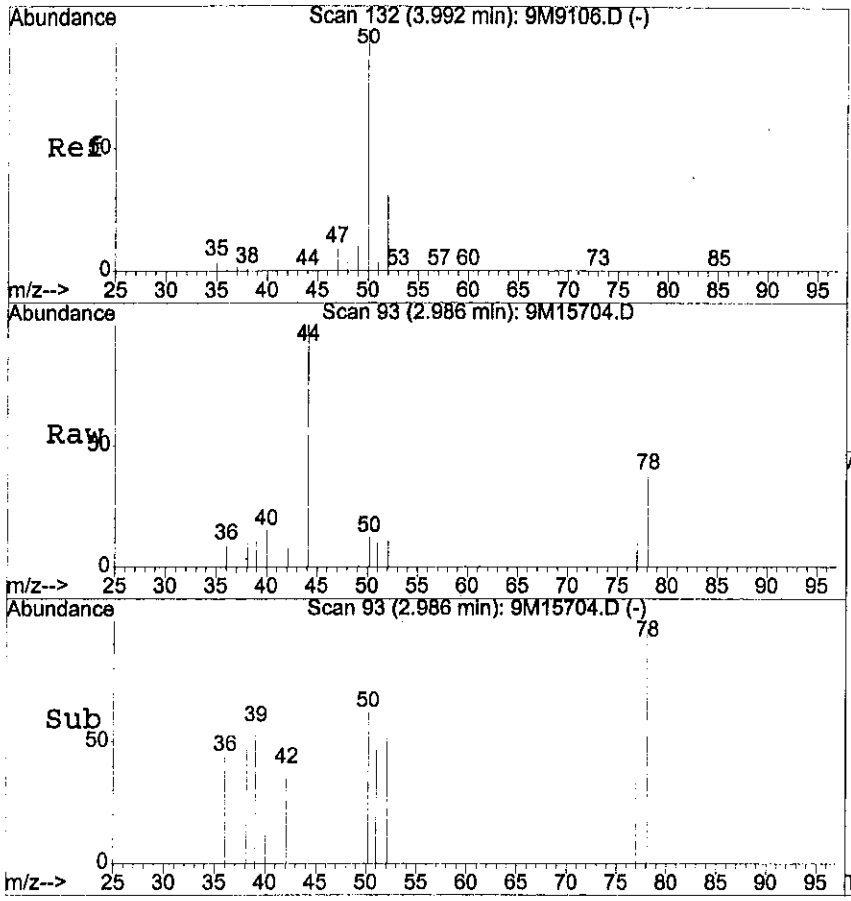


Data File : D:\HPCHEM\1\DATA\051801\9M15704.D Vial: 19
Acq On : 18 May 2001 19:31 Operator: MES
Sample : L0105404-08 A 00 0.8X 630-NAVY-CTO 5.90G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:21 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	739323	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	648983	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.78	152	319637	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	242758	52.93	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.86%			
33) 1,2-Dichloroethane-d4	9.51	65	311835	56.10	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.20%			
45) Toluene-d8	11.90	98	899249	45.90	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 91.80%			
66) p-Bromofluorobenzene	15.28	95	857718	129.66	ug/kg	0.02
Spiked Amount 50.000	Range 74 - 121		Recovery = 259.32%#			
Target Compounds						Qvalue
3) Chloromethane	2.99	50	1037	Below Cal	#	1
11) Acetone	5.47	43	10012	4.61	ug/kg# F	66
21) Vinyl Acetate	7.55	43	107	2.65	ug/kg#	75
30) Cyclohexane	9.19	56	28933	3.22	ug/kg#	18
43) Dimethyl Disulfide	11.86	79	895	3.82	ug/kg#	1
47) Ethyl Methacrylate	12.12	69	12155	5.07	ug/kg#	1
50) 2-Hexanone	12.37	43	5406	1.84	ug/kg#	19
55) 1-Chlorohexane	13.44	91	245	1.65	ug/kg#	11
61) Styrene	14.56	104	354	1.42	ug/kg#	1
63) Isopropylbenzene	14.95	105	33979	1.06	ug/kg F	94
65) 1,1,2,2-Tetrachloroethane	15.18	83	672776	145.10	ug/kg#	72
67) 1,2,3-Trichloropropane	15.31	110	113285	77.97	ug/kg#	21
68) trans-1,4-Dichloro-2-Buten	15.38	53	140927	103.11	ug/kg#	7
69) n-Propylbenzene	15.45	91	45411	1.32	ug/kg#	79
70) Bromobenzene	15.55	156	56137	9.44	ug/kg#	28
71) 1,3,5-Trimethylbenzene	15.63	105	22372	2.72	ug/kg F	99
74) a-Methylstyrene	16.02	118	114	3.19	ug/kg#	1
75) tert-Butylbenzene	16.08	119	25169	1.87	ug/kg#	14
77) sec-Butylbenzene	16.37	105	65114	2.23	ug/kg	94
78) p-Isopropyltoluene	16.52	119	20897	0.82	ug/kg	99
79) 1,3-Dichlorobenzene	16.70	146	17063	1.49	ug/kg#	1
80) 1,4-Dichlorobenzene	16.82	146	38475	3.17	ug/kg#	1
81) n-Butylbenzene	17.08	91	121506	5.04	ug/kg#	60
84) 1,2,4-Trichlorobenzene	19.42	180	84701	11.00	ug/kg#	1
86) Naphthalene	19.77	128	28044	2.21	ug/kg#	68
87) 1,2,3-Trichlorobenzene	19.42	180	84701	11.00	ug/kg#	1

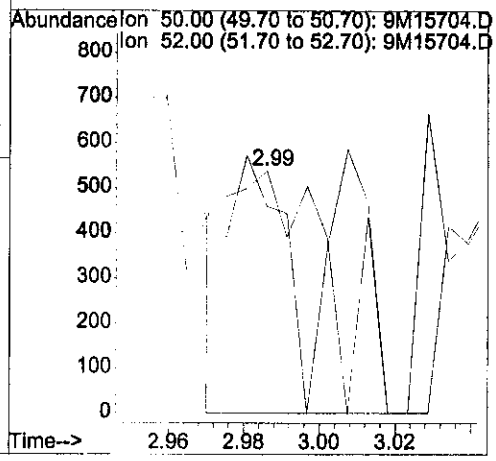
(#) = qualifier out of range (m) = manual integration

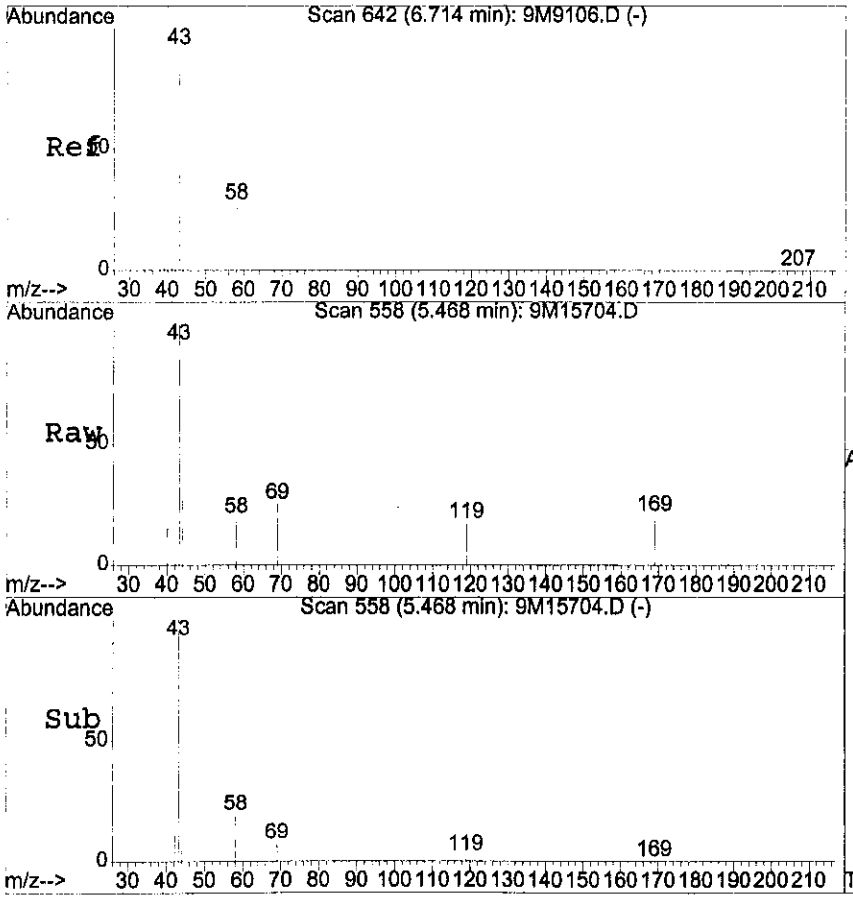


#3
Chloromethane
Concen: Below Cal
RT: 2.99 min Scan# 93
Delta R.T. 0.00 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 50 Resp: 1037

Ion	Ratio	Lower	Upper
50	100		
52	95.2	25.4	38.2#

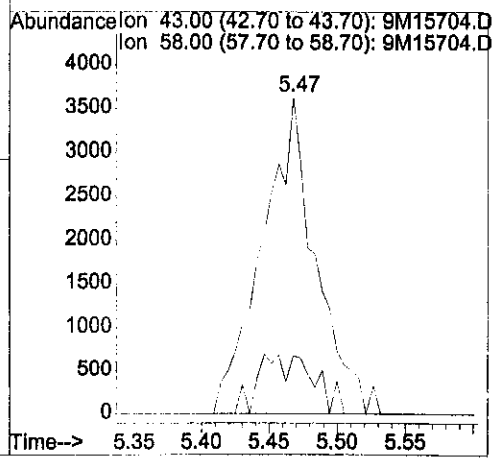


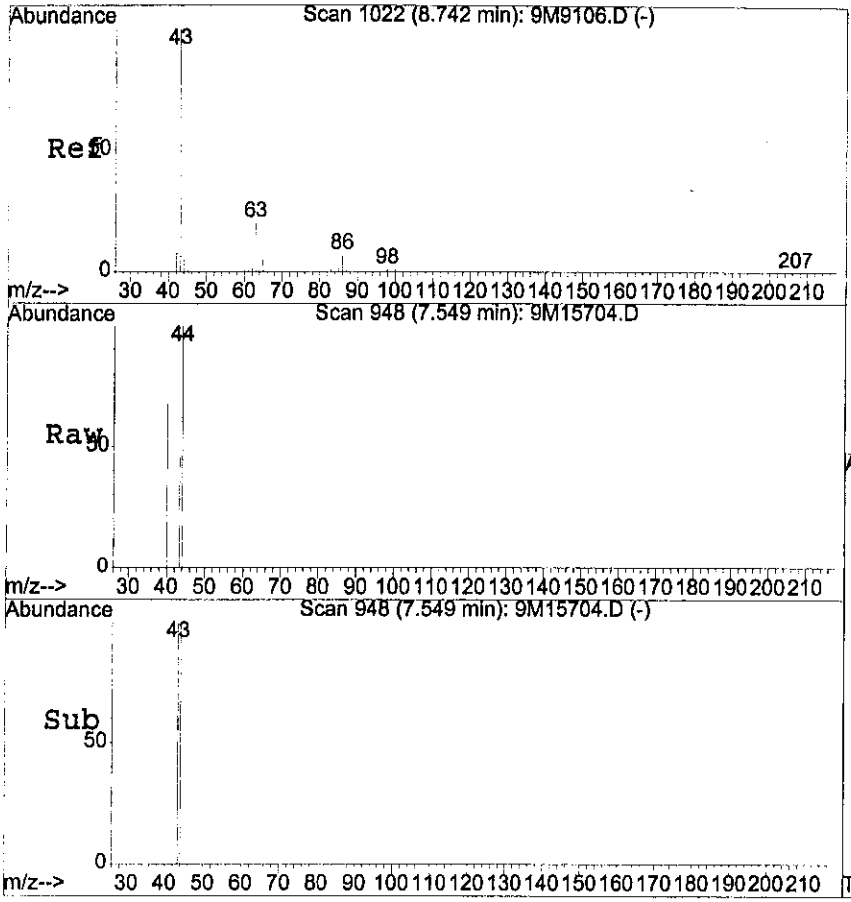


#11
Acetone
Concen: 4.61 ug/kg
RT: 5.47 min Scan# 558
Delta R.T. 0.04 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 43 Resp: 10012

Ion	Ratio	Lower	Upper
43	100		
58	9.9	21.9	32.9#

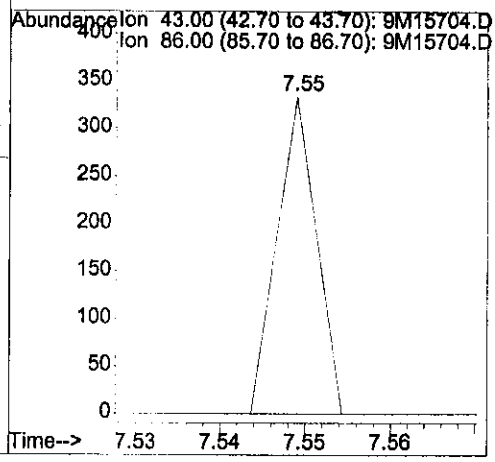


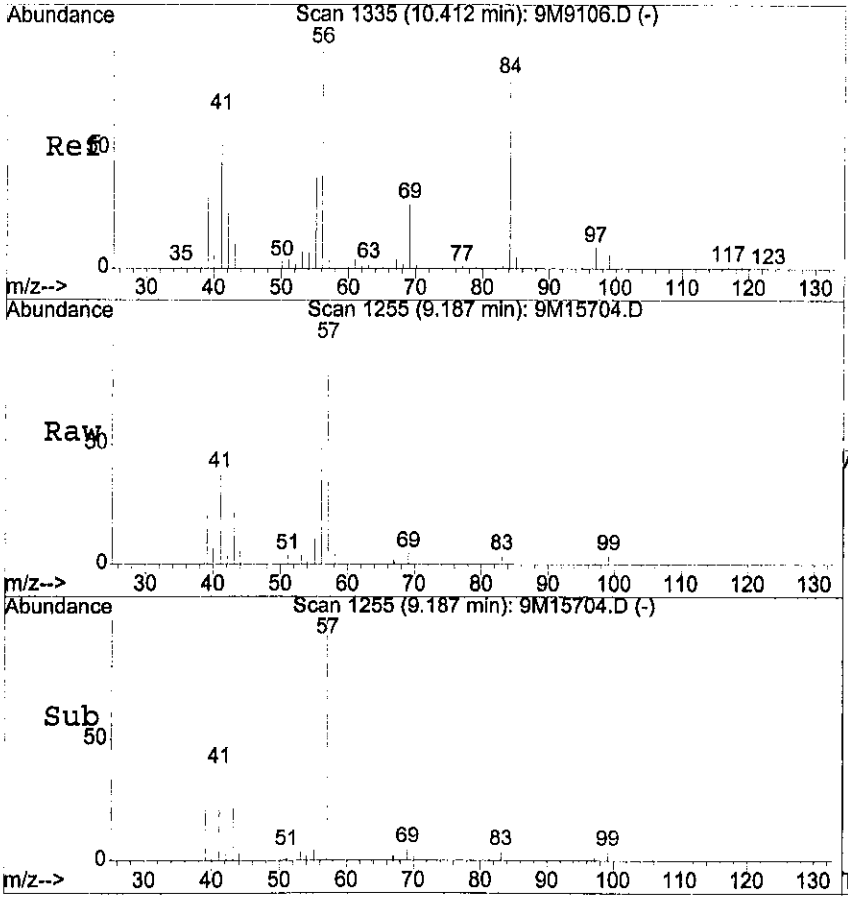


#21
Vinyl Acetate
Concen: 2.65 ug/kg
RT: 7.55 min Scan# 948
Delta R.T. 0.05 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 43 Resp: 107

Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.1	10.7#

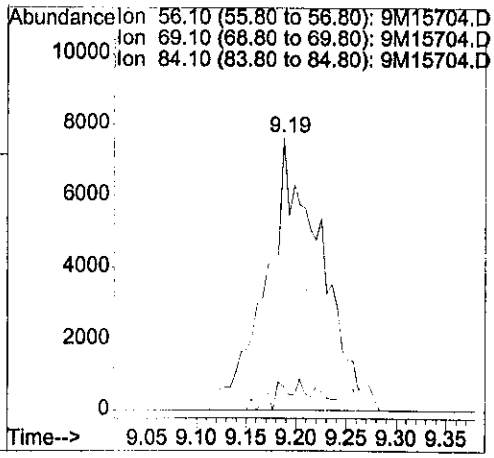


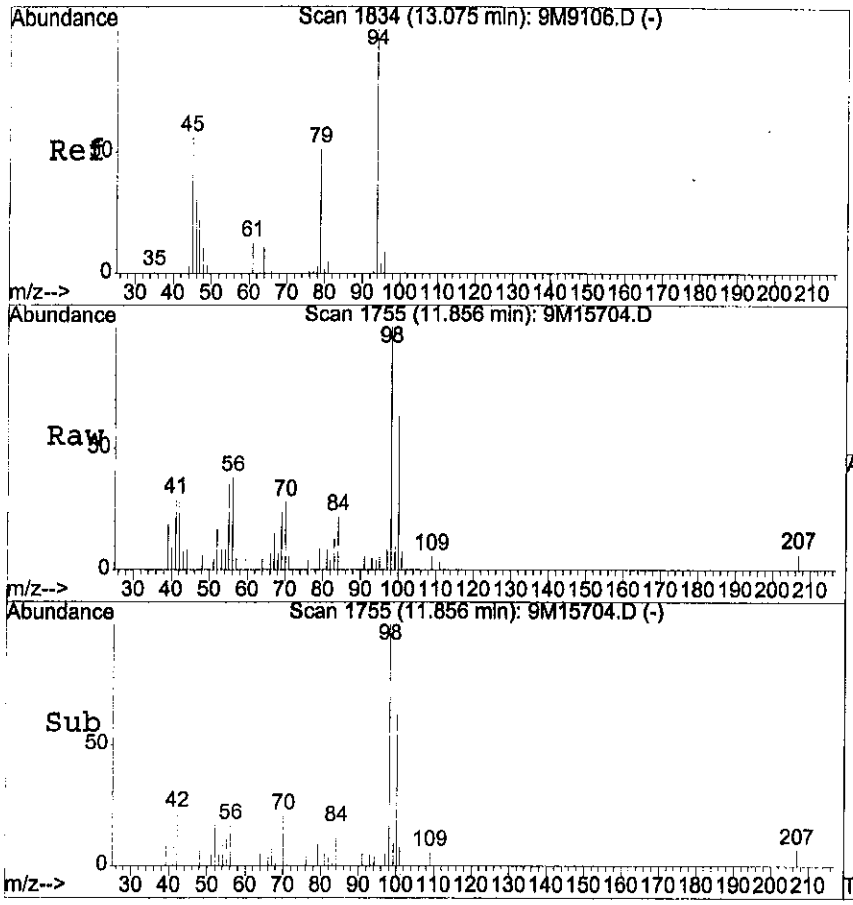


#30
Cyclohexane
Concen: 3.22 ug/kg
RT: 9.19 min Scan# 1255
Delta R.T. 0.05 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 56 Resp: 28933

Ion	Ratio	Lower	Upper
56	100		
69	3.9	23.6	35.4#
84	0.0	69.4	104.0#

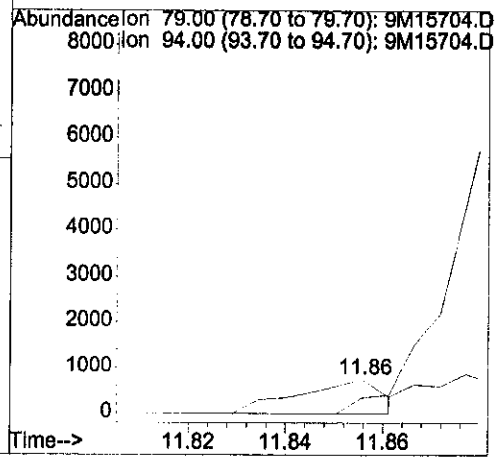


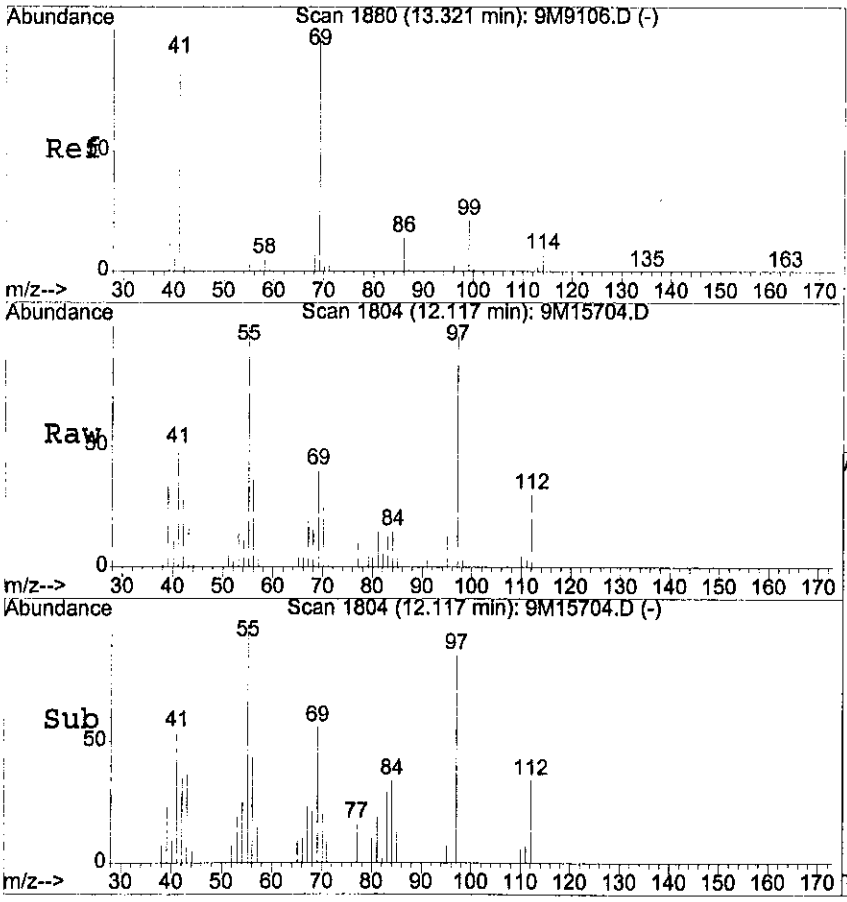


#43
Dimethyl Disulfide
Concen: 3.82 ug/kg
RT: 11.86 min Scan# 1755
Delta R.T. 0.05 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 79 Resp: 895

Ion	Ratio	Lower	Upper
79	100		
94	0.0	153.5	230.3#

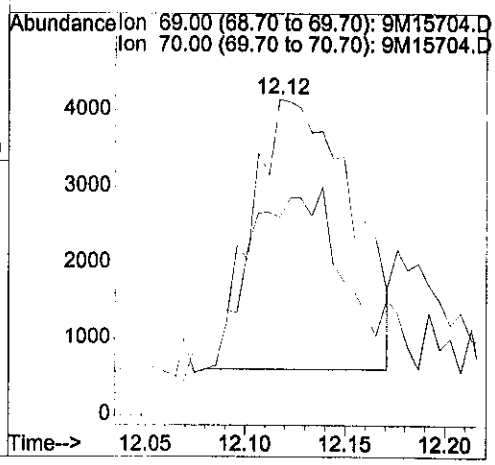


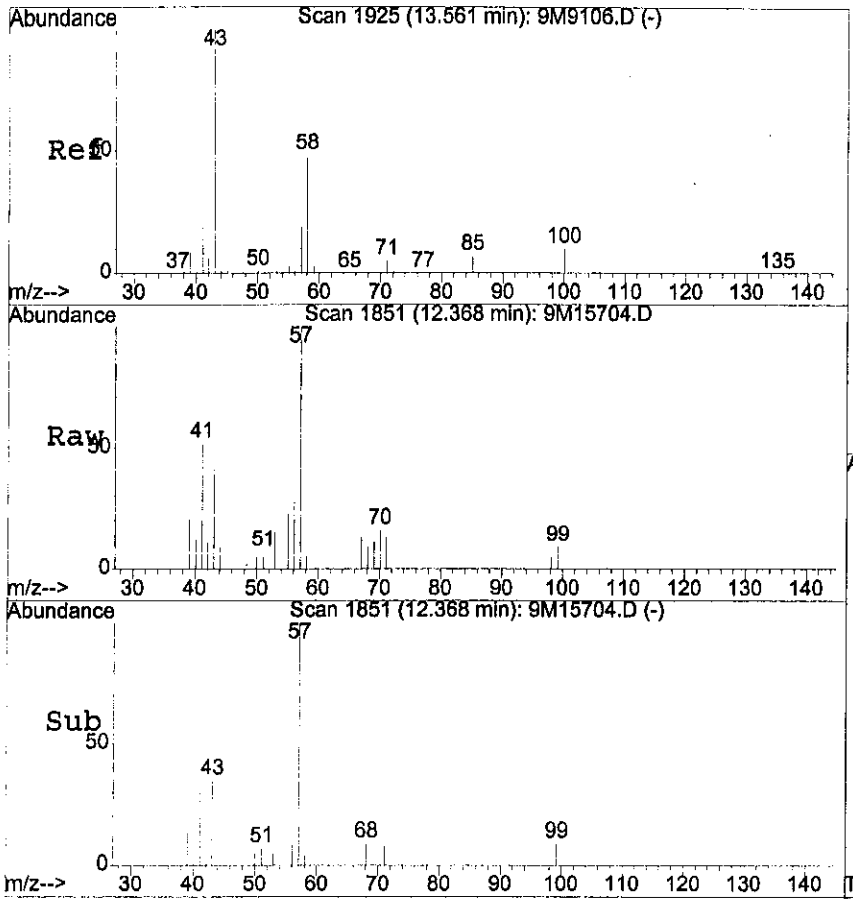


#47
Ethyl Methacrylate
Concen: 5.07 ug/kg
RT: 12.12 min Scan# 1804
Delta R.T. -0.00 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 69 Resp: 12155

Ion	Ratio	Lower	Upper
69	100		
70	72.5	6.7	10.1#

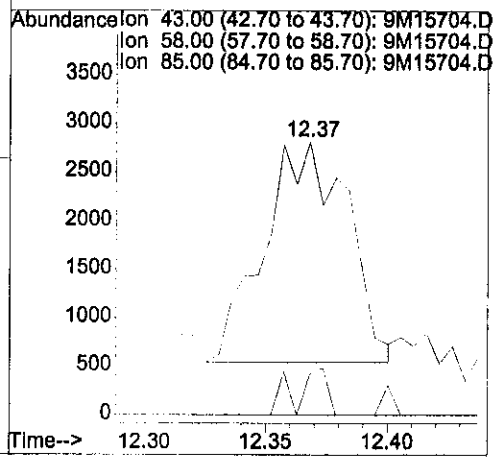


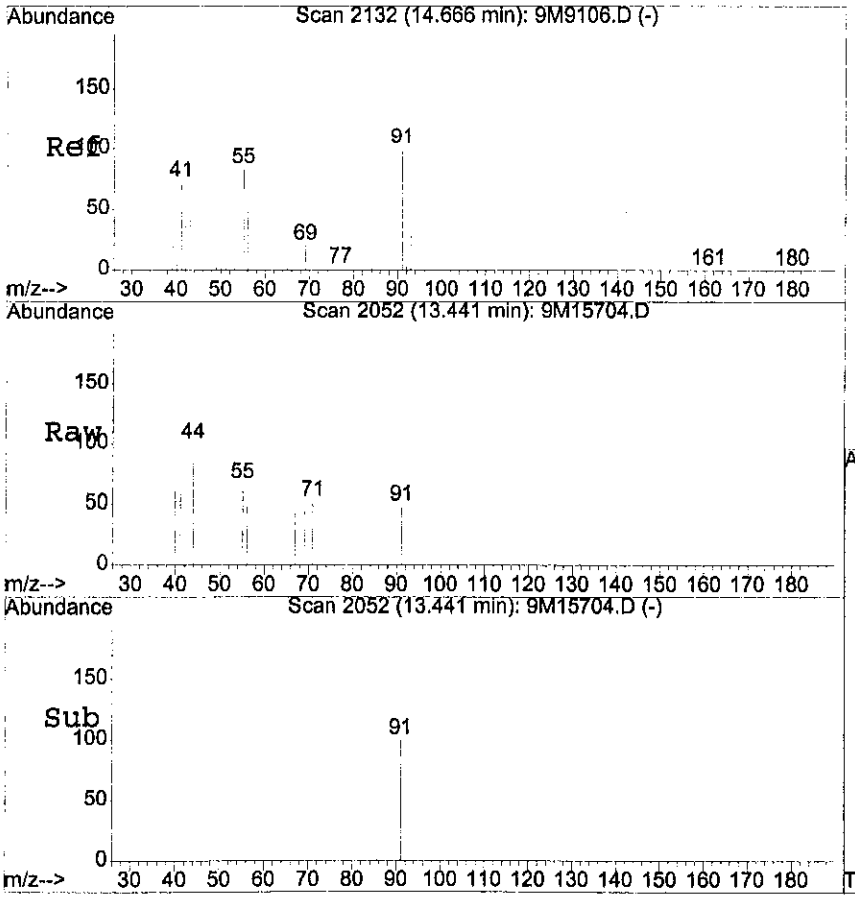


#50
2-Hexanone
Concen: 1.84 ug/kg
RT: 12.37 min Scan# 1851
Delta R.T. 0.03 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 43 Resp: 5406

Ion	Ratio	Lower	Upper
43	100		
58	8.0	42.2	63.2#
85	0.0	66.1	99.1#

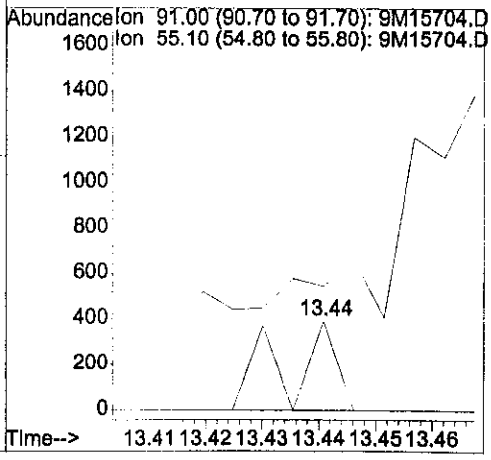


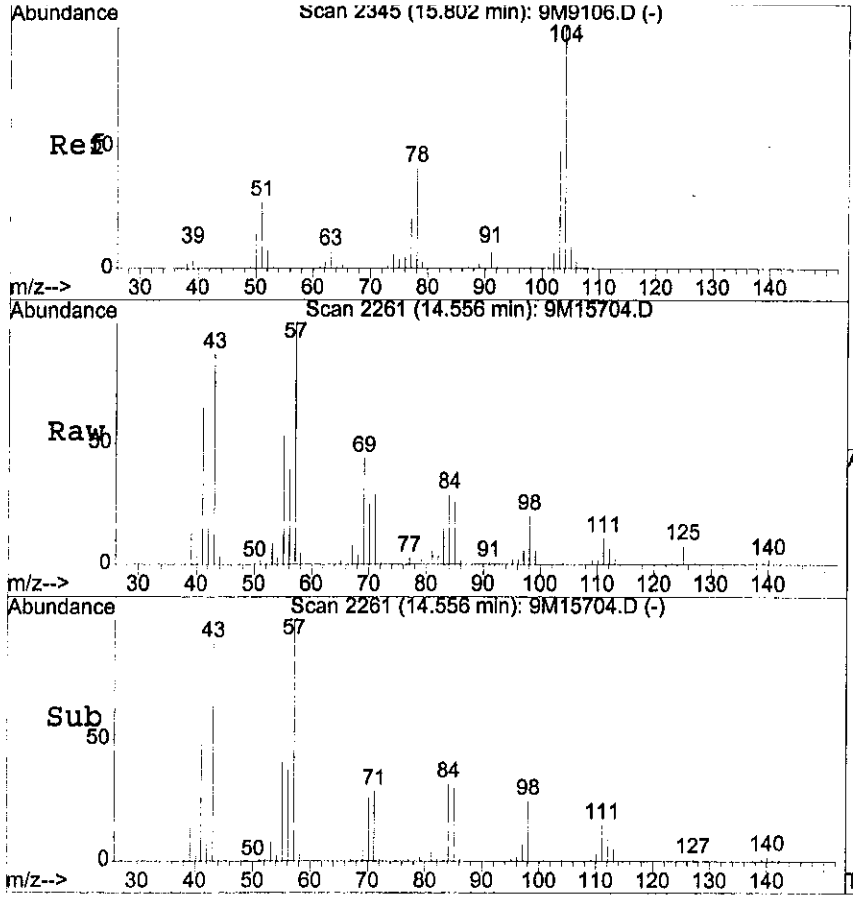


#55
1-Chlorohexane
Concen: 1.65 ug/kg
RT: 13.44 min Scan# 2052
Delta R.T. 0.00 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 91 Resp: 245

Ion	Ratio	Lower	Upper
91	100		
55	0.0	61.0	91.4#

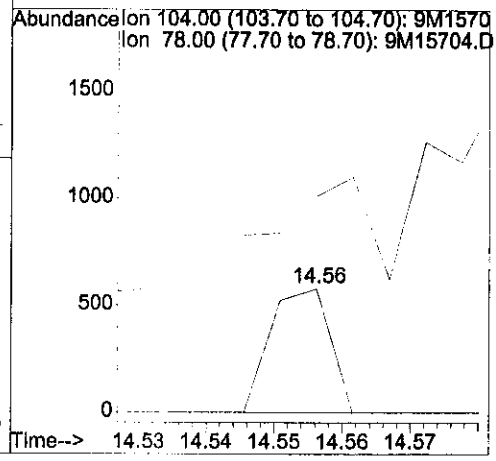


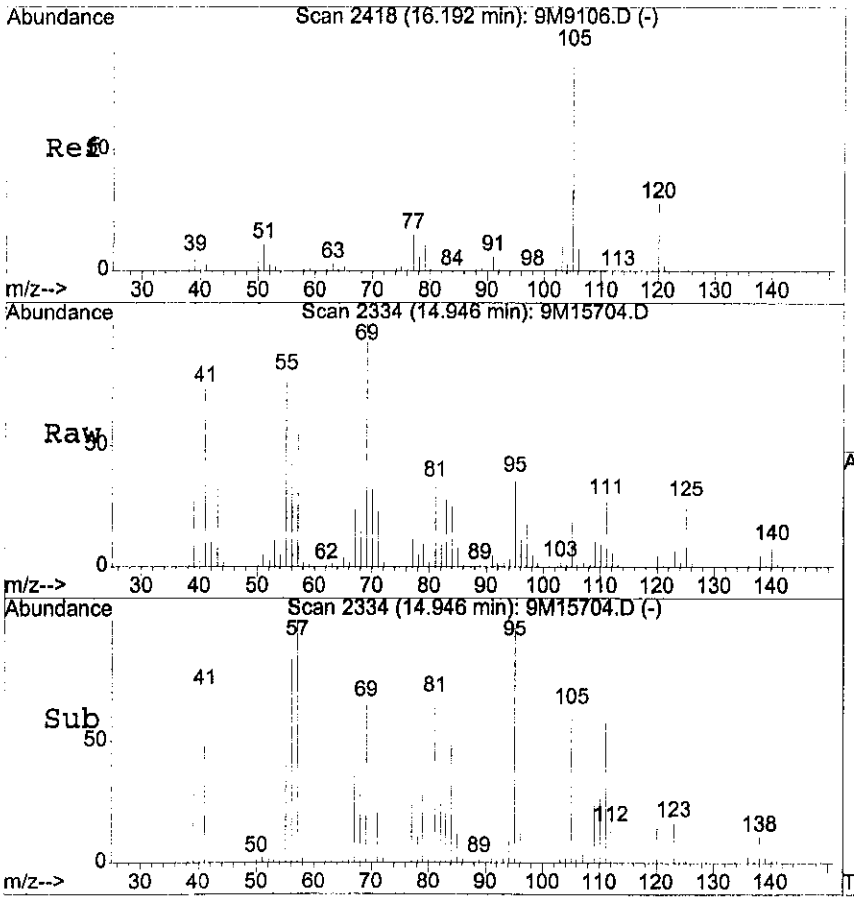


#61
Styrene
Concen: 1.42 ug/kg
RT: 14.56 min Scan# 2261
Delta R.T. 0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:104 Resp: 354

Ion	Ratio	Lower	Upper
104	100		
78	150.8	45.0	67.4#

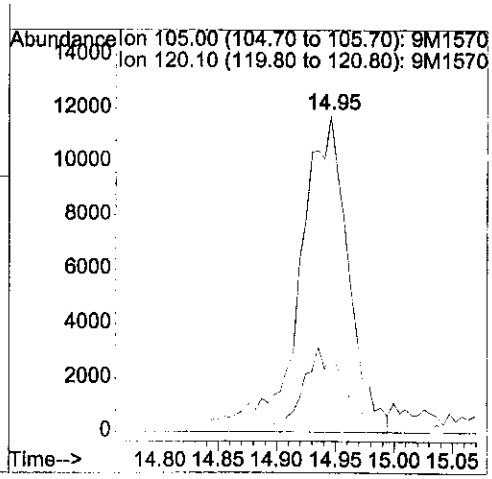


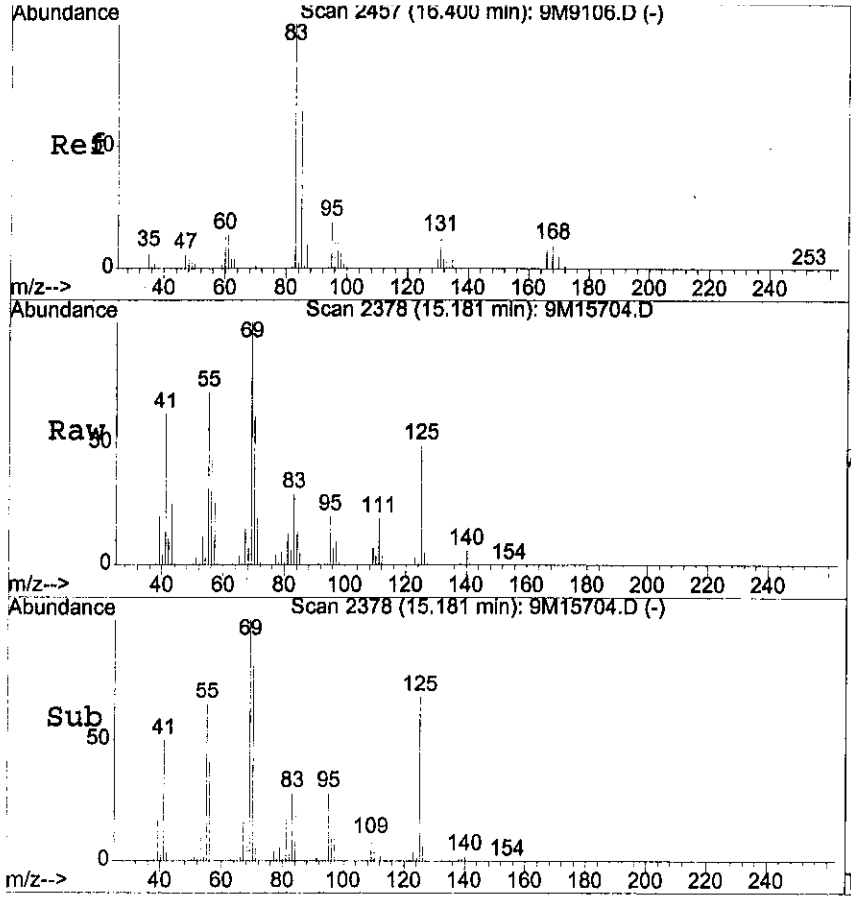


#63
Isopropylbenzene
Concen: 1.06 ug/kg
RT: 14.95 min Scan# 2334
Delta R.T. 0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:105 Resp: 33979

Ion	Ratio	Lower	Upper
105	100		
120	22.1	20.2	30.2

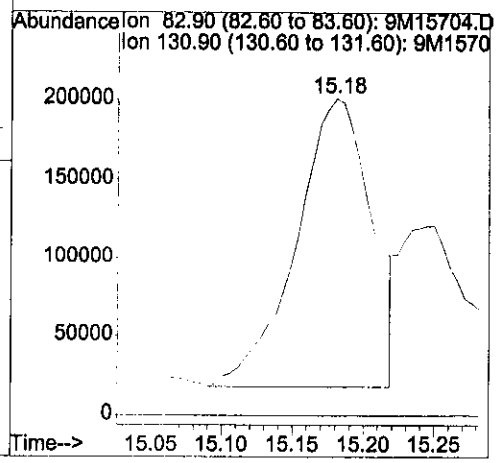


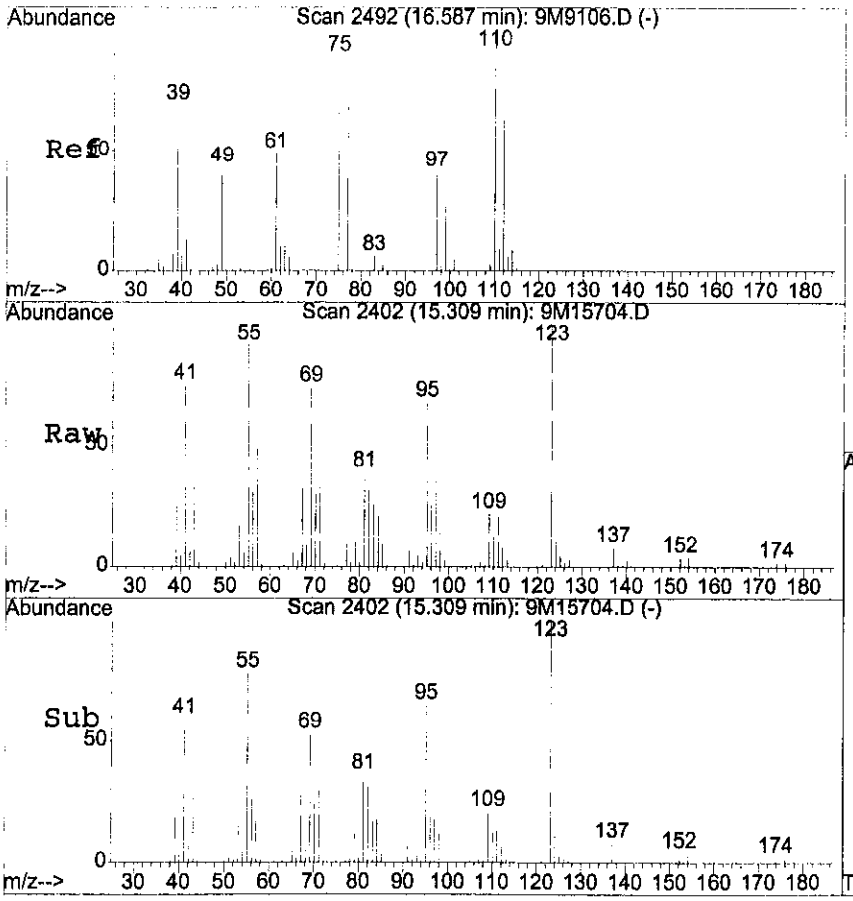


#65
1,1,2,2-Tetrachloroethane
Concen: 145.10 ug/kg
RT: 15.18 min Scan# 2378
Delta R.T. 0.05 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 83 Resp: 672776

Ion	Ratio	Lower	Upper
83	100		
131	0.0	8.4	12.6#

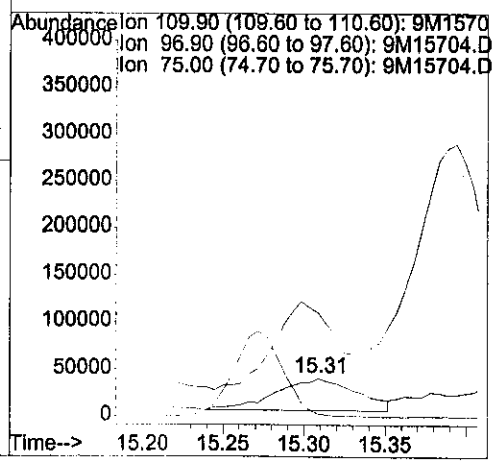


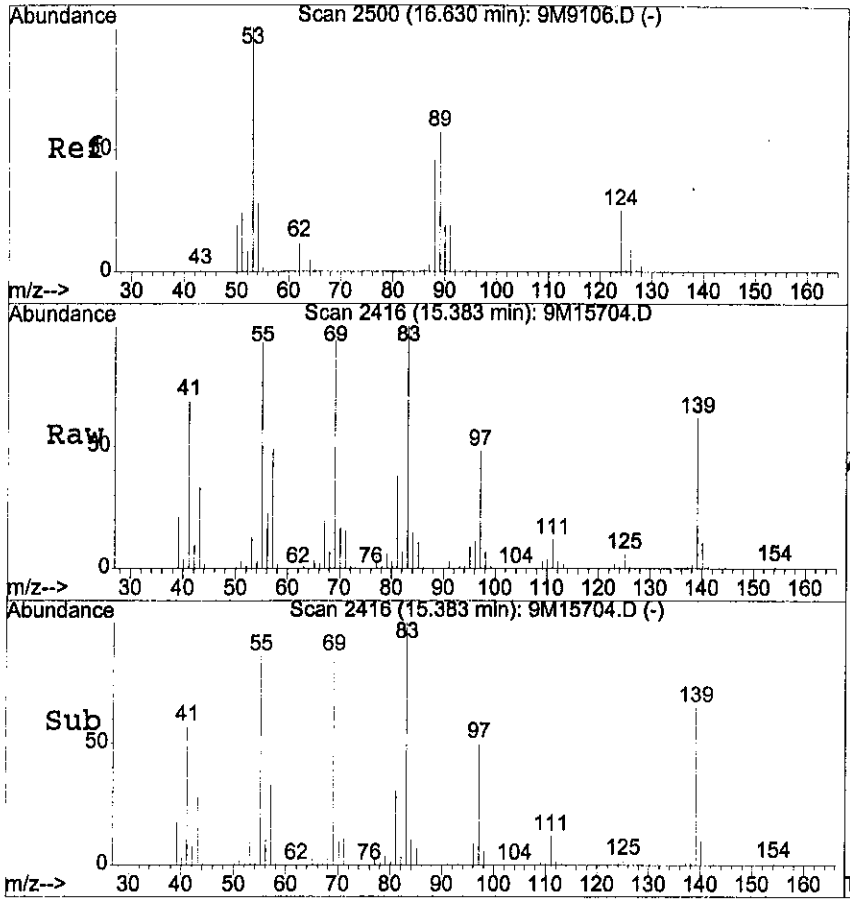


#67
1,2,3-Trichloropropane
Concen: 77.97 ug/kg
RT: 15.31 min Scan# 2402
Delta R.T. -0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:110 Resp: 113285

Ion	Ratio	Lower	Upper
110	100		
97	201.9	40.3	60.5#
75	170.2	212.6	318.8#

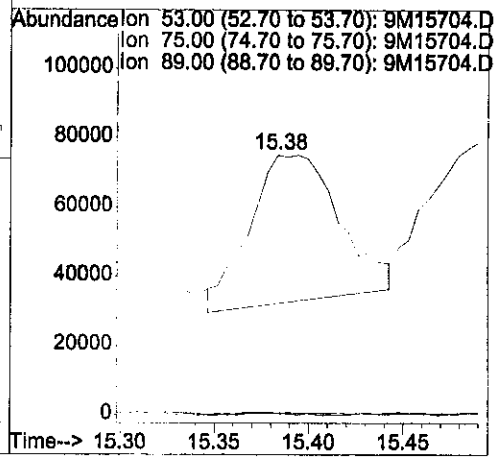


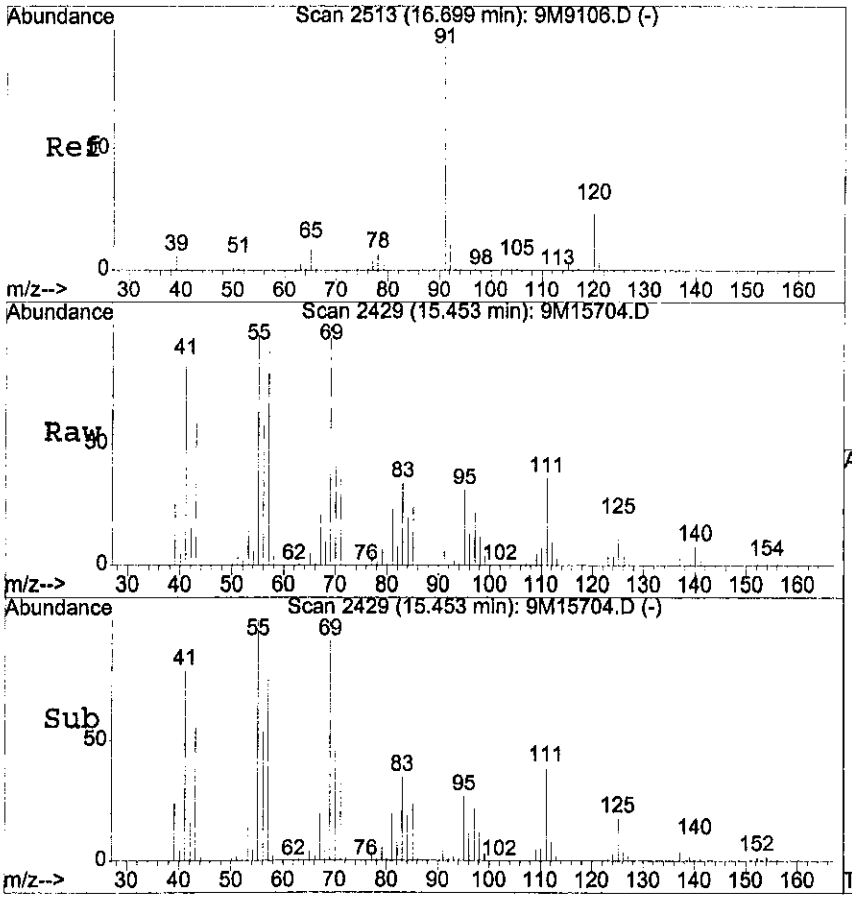


#68
trans-1,4-Dichloro-2-Butene
Concen: 103.11 ug/kg
RT: 15.38 min Scan# 2416
Delta R.T. 0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 53 Resp: 140927

Ion	Ratio	Lower	Upper
53	100		
75	0.6	81.0	121.6#
89	0.7	52.4	78.6#

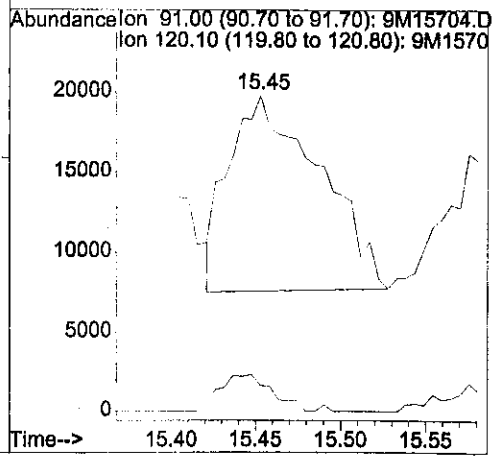


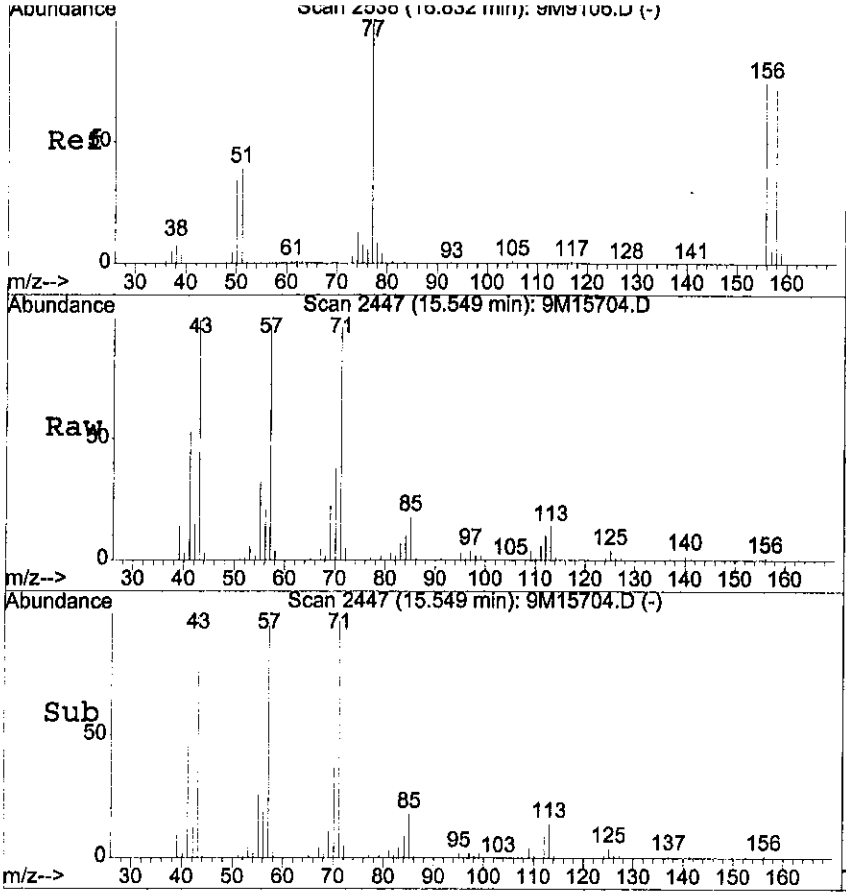


#69
n-Propylbenzene
Concen: 1.32 ug/kg
RT: 15.45 min Scan# 2429
Delta R.T. 0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 91 Resp: 45411

Ion	Ratio	Lower	Upper
91	100		
120	10.9	16.6	25.0#

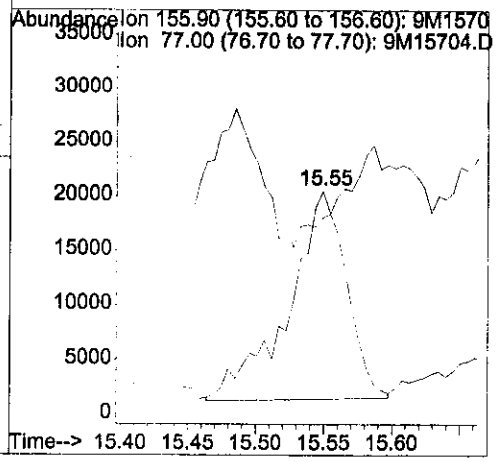


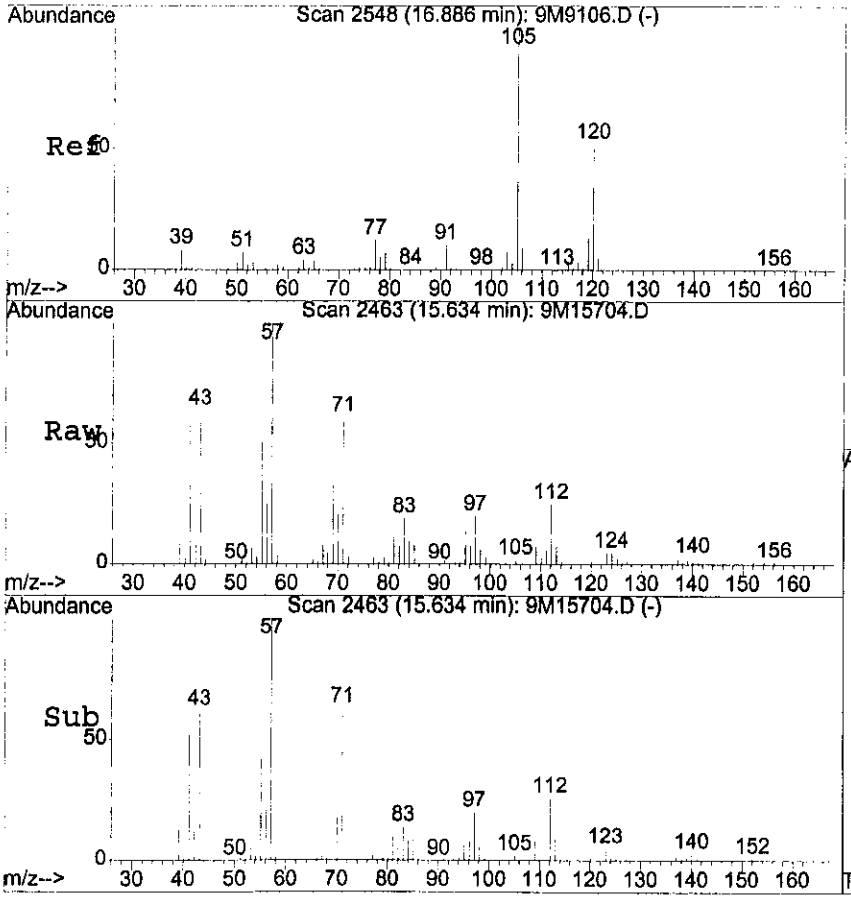


#70
Bromobenzene
Concen: 9.44 ug/kg
RT: 15.55 min Scan# 2447
Delta R.T. 0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:156 Resp: 56137

Ion	Ratio	Lower	Upper
156	100		
77	69.1	132.6	198.8#

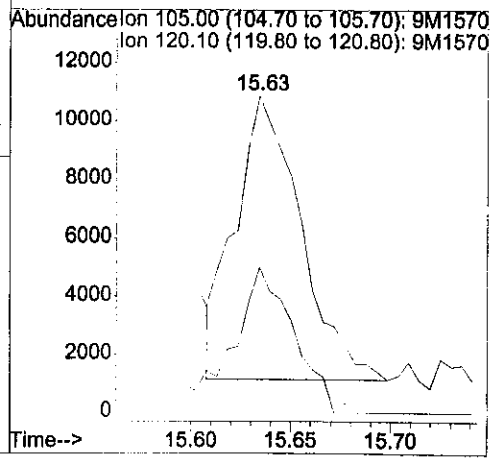


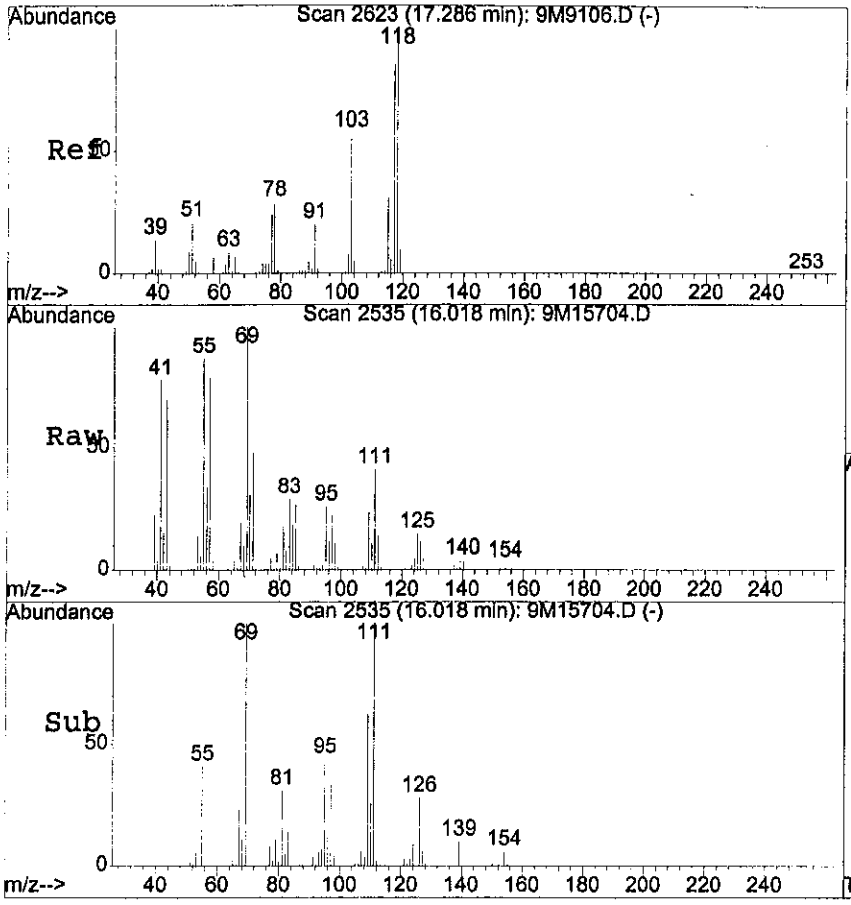


#71
1,3,5-Trimethylbenzene
Concen: 2.72 ug/kg
RT: 15.63 min Scan# 2463
Delta R.T. 0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:105 Resp: 22372

Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.3	55.9

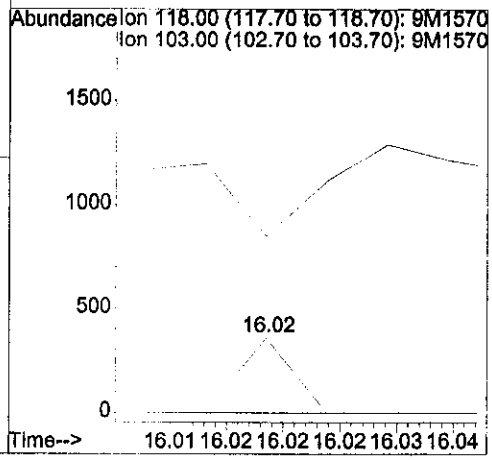


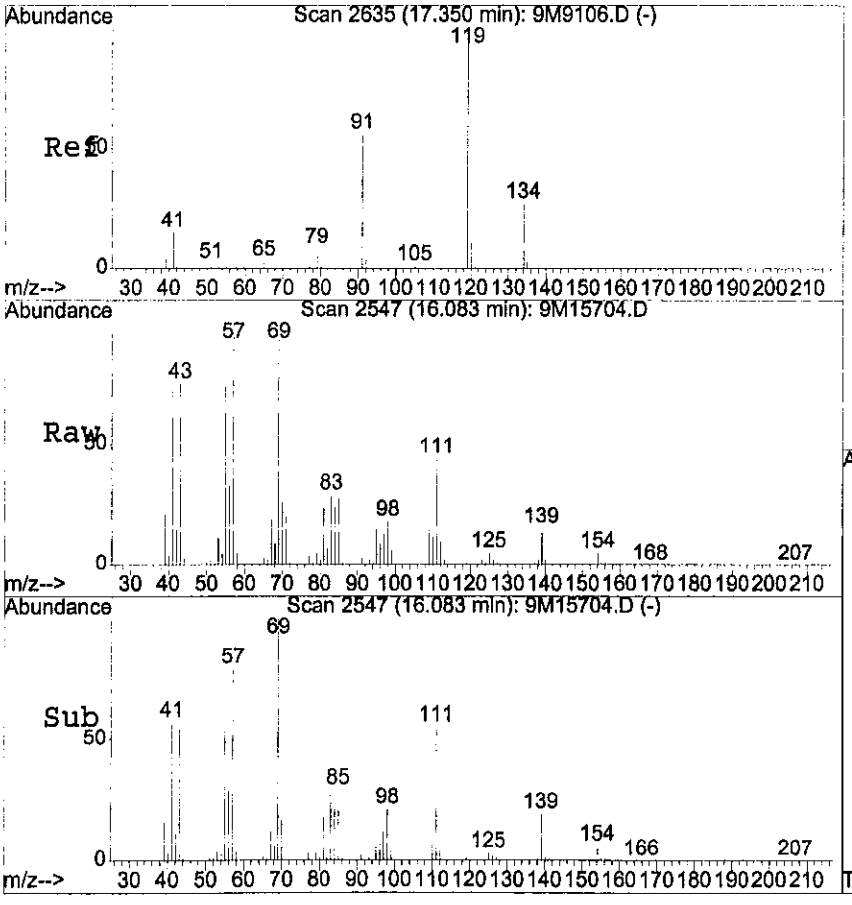


#74
a-Methylstyrene
Concen: 3.19 ug/kg
RT: 16.02 min Scan# 2535
Delta R.T. -0.00 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:118 Resp: 114

Ion	Ratio	Lower	Upper
118	100		
103	392.1	45.7	68.5#

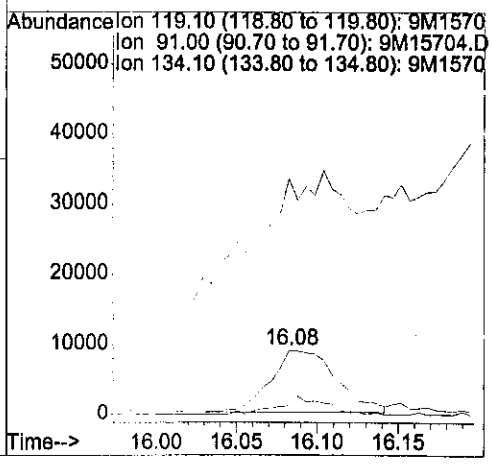


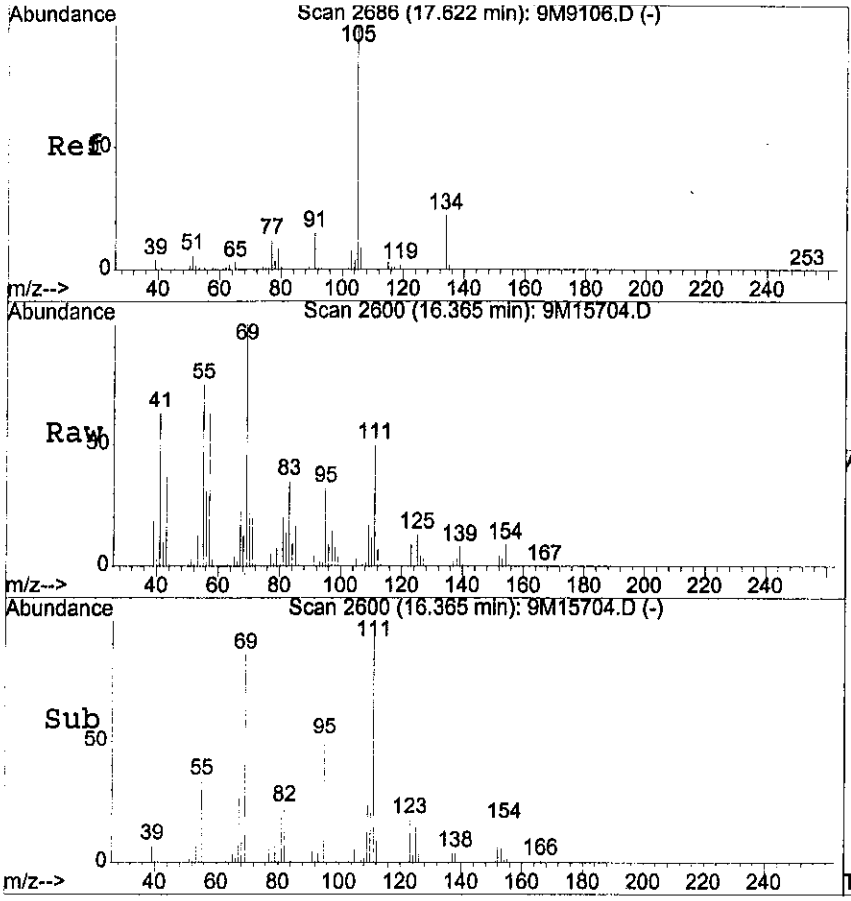


#75
tert-Butylbenzene
Concen: 1.87 ug/kg
RT: 16.08 min Scan# 2547
Delta R.T. -0.00 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:119 Resp: 25169

Ion	Ratio	Lower	Upper
119	100		
91	131.3	39.5	59.3#
134	21.4	16.0	24.0

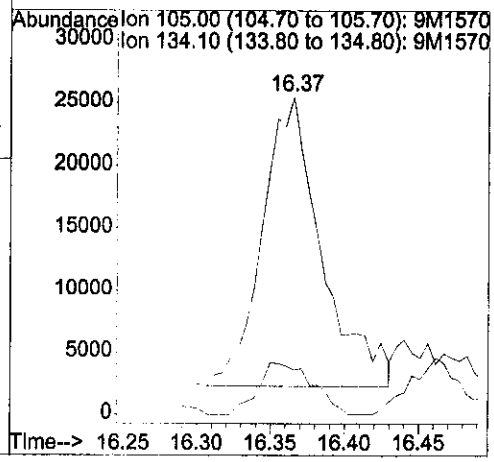


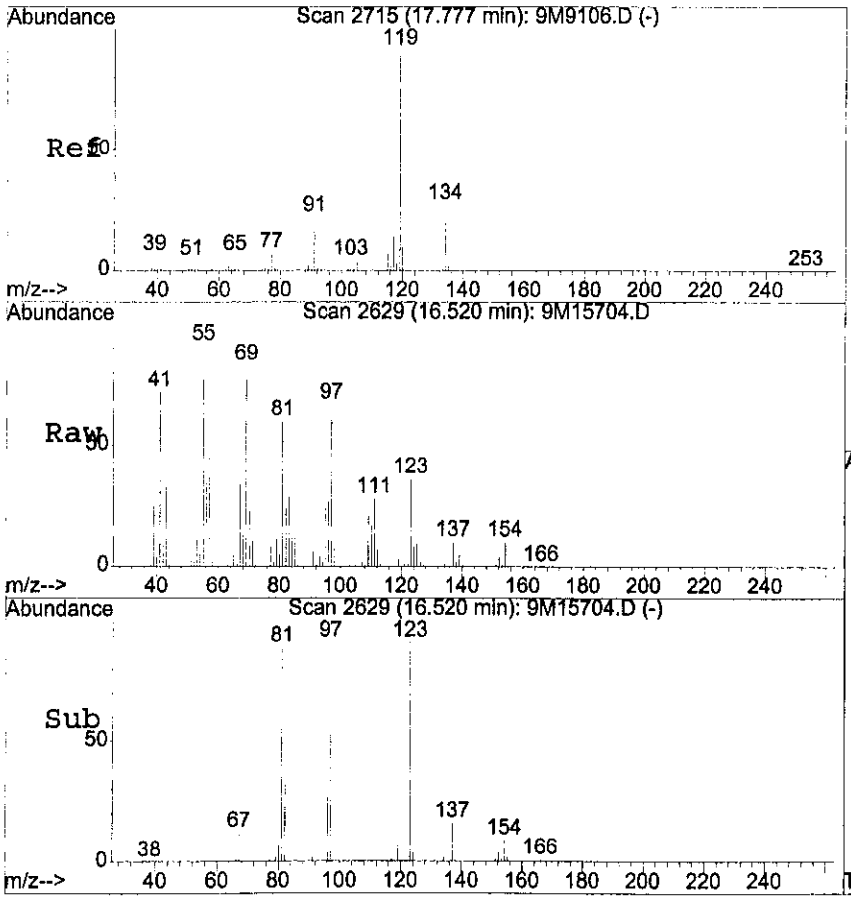


#77
sec-Butylbenzene
Concen: 2.23 ug/kg
RT: 16.37 min Scan# 2600
Delta R.T. 0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:105 Resp: 65114

Ion	Ratio	Lower	Upper
105	100		
134	16.2	15.0	22.4

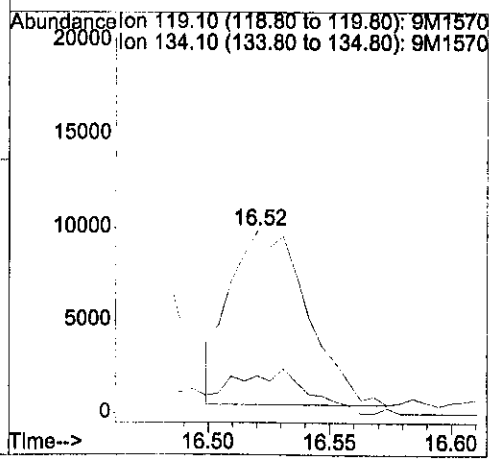


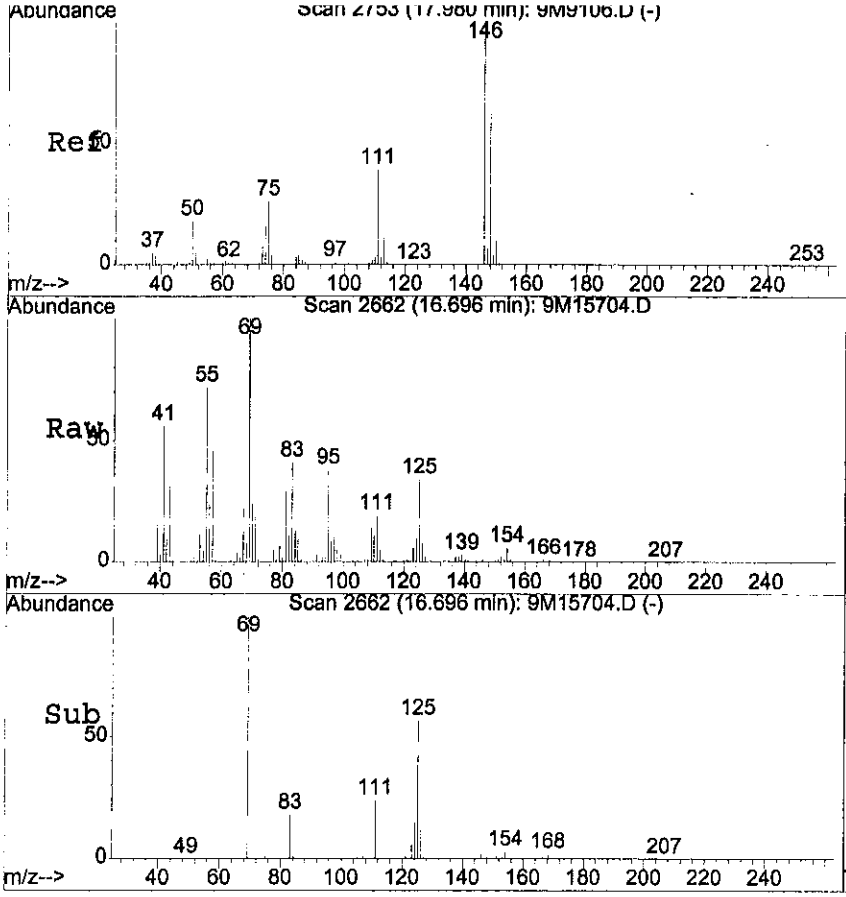


#78
p-Isopropyltoluene
Concen: 0.82 ug/kg
RT: 16.52 min Scan# 2629
Delta R.T. 0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:119 Resp: 20897

Ion	Ratio	Lower	Upper
119	100		
134	24.4	19.8	29.8

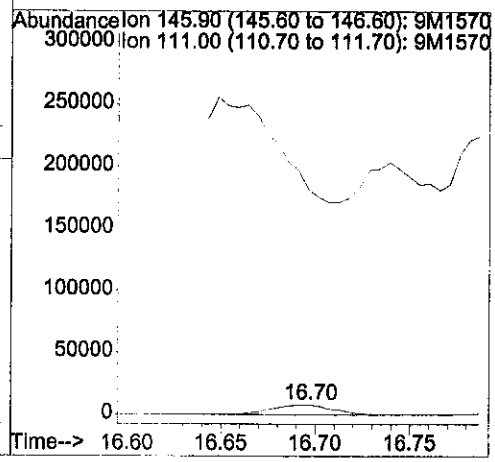


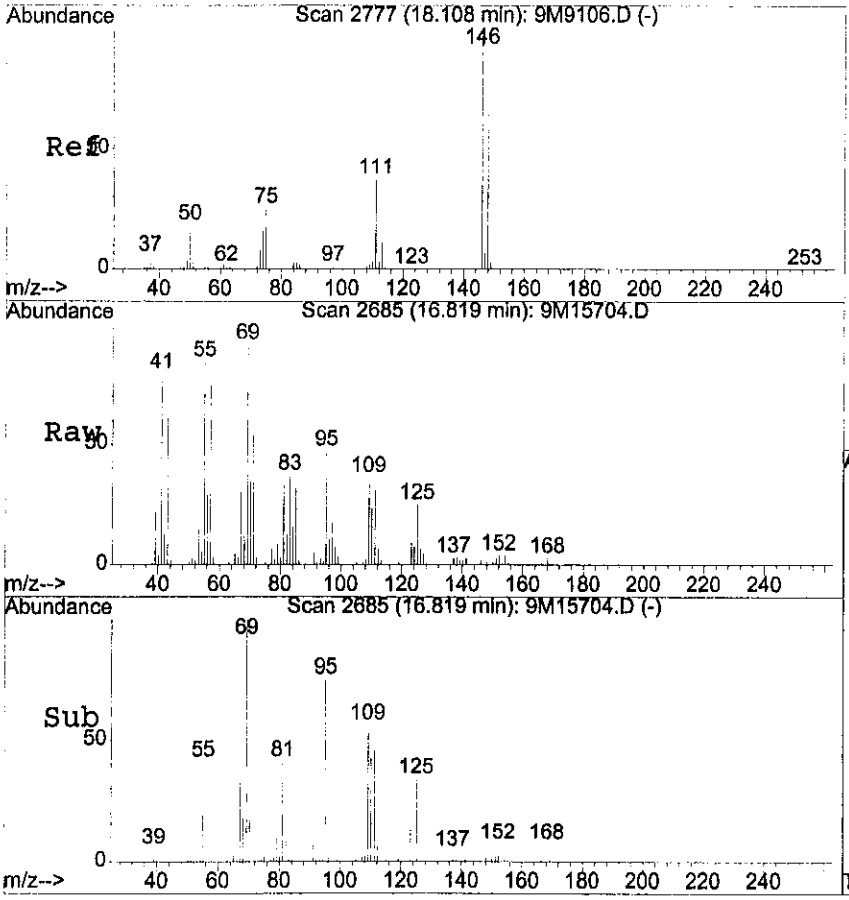


#79
1,3-Dichlorobenzene
Concen: 1.49 ug/kg
RT: 16.70 min Scan# 2662
Delta R.T. 0.02 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:146 Resp: 17063

Ion	Ratio	Lower	Upper
146	100		
111	2136.1	35.0	52.4#

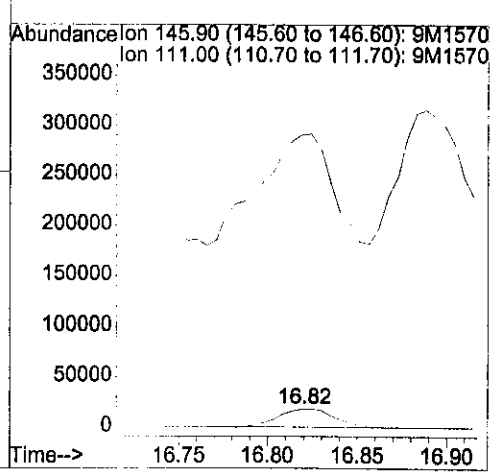


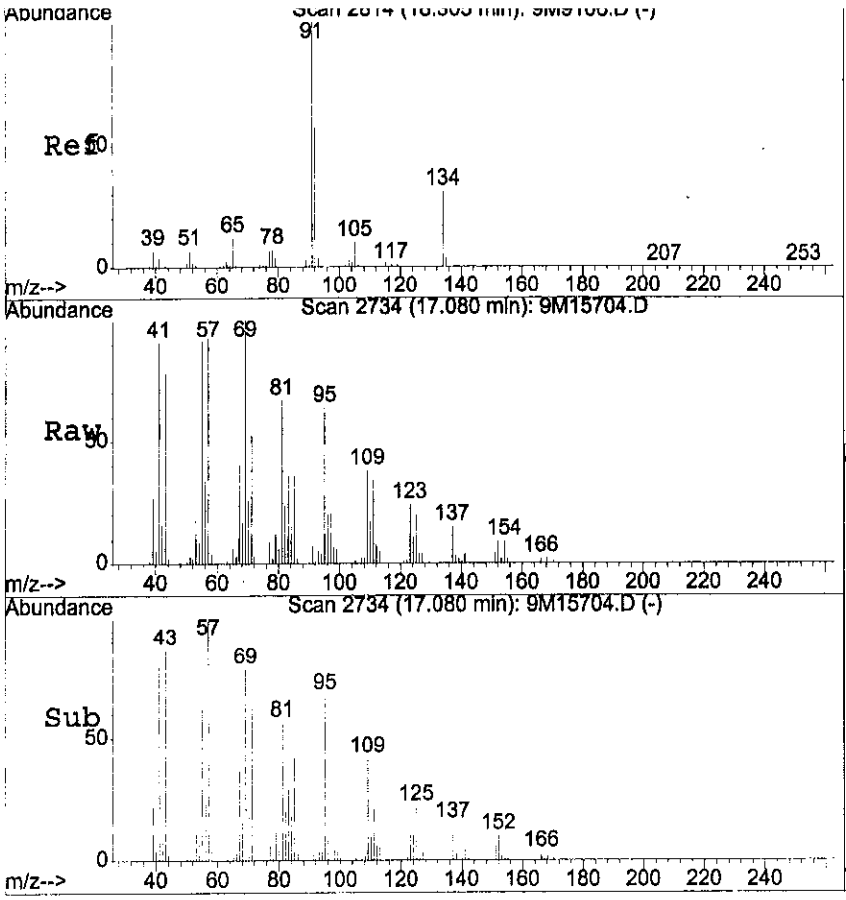


#80
1,4-Dichlorobenzene
Concen: 3.17 ug/kg
RT: 16.82 min Scan# 2685
Delta R.T. 0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:146 Resp: 38475

Ion	Ratio	Lower	Upper
146	100		
111	977.1	34.2	51.4#

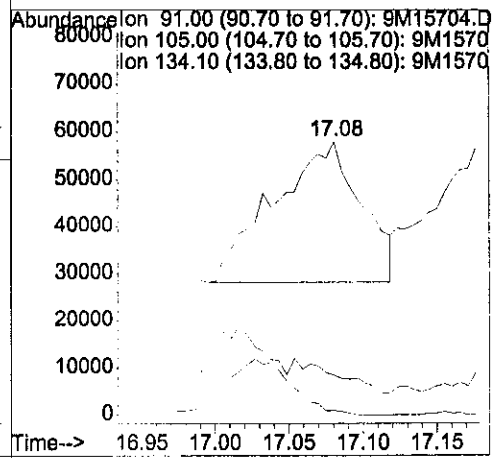


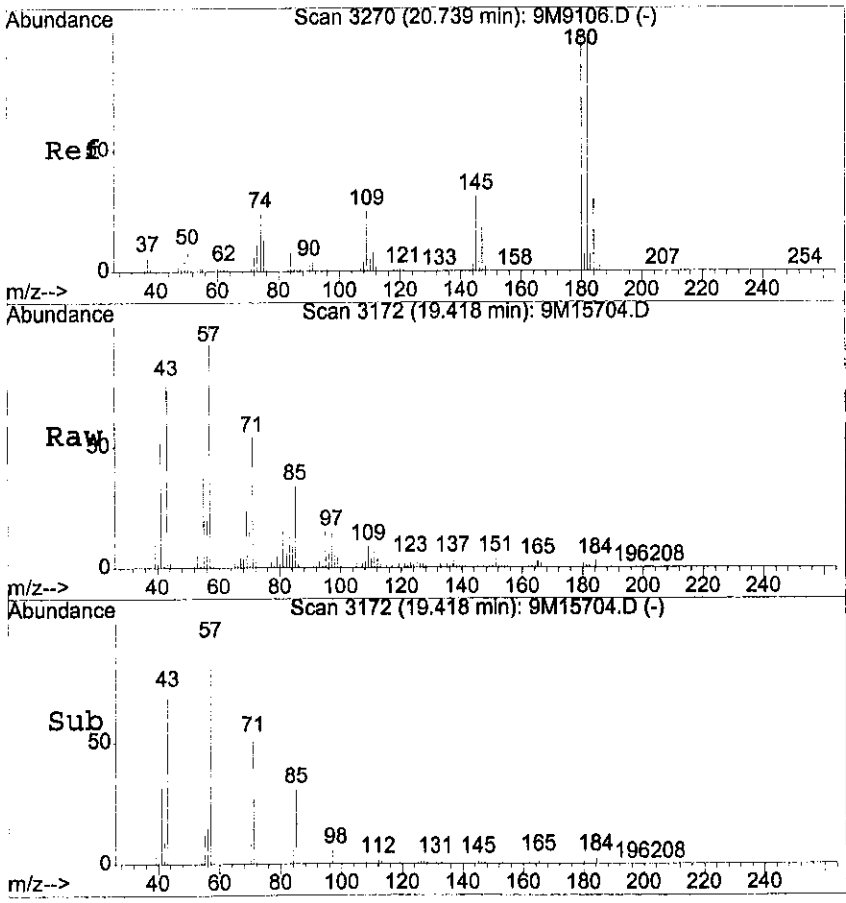


#81
n-Butylbenzene
Concen: 5.04 ug/kg
RT: 17.08 min Scan# 2734
Delta R.T. 0.05 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion: 91 Resp: 121506

Ion	Ratio	Lower	Upper
91	100		
105	1.1	6.4	9.6#
134	0.0	18.6	27.8#

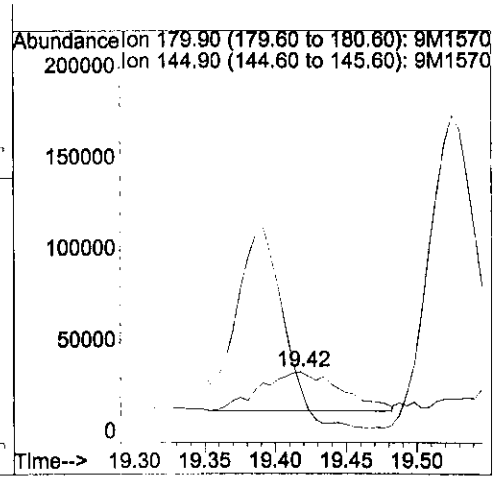


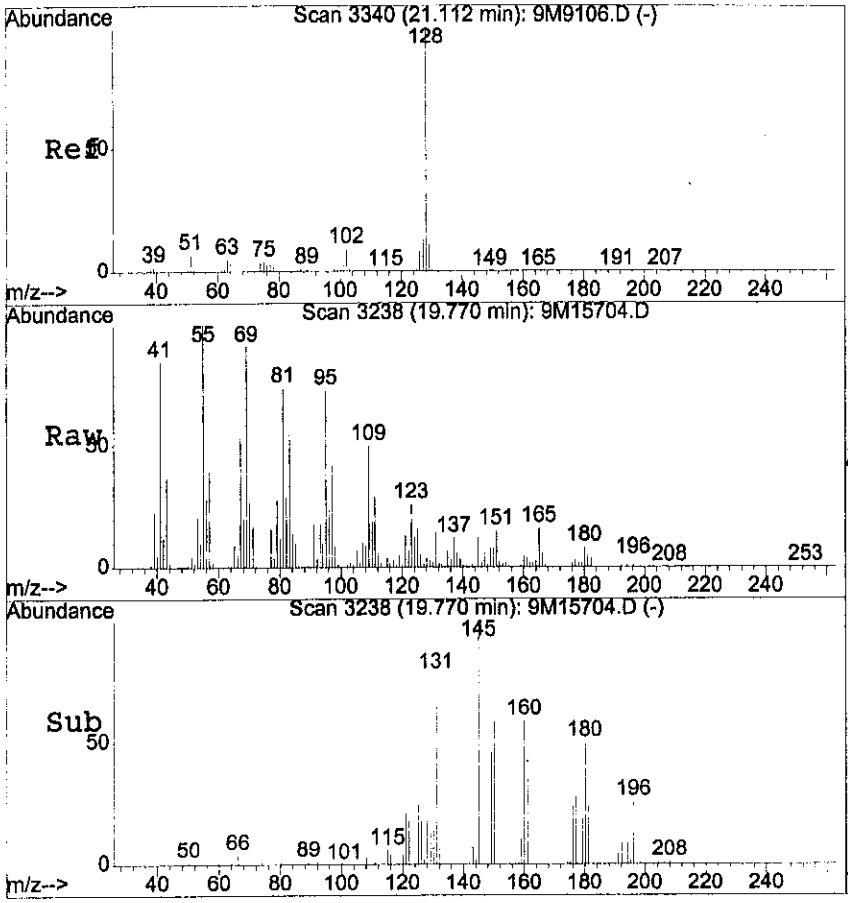


#84
1,2,4-Trichlorobenzene
Concen: 11.00 ug/kg
RT: 19.42 min Scan# 3172
Delta R.T. -0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:180 Resp: 84701

Ion	Ratio	Lower	Upper
180	100		
145	308.5	22.6	34.0#

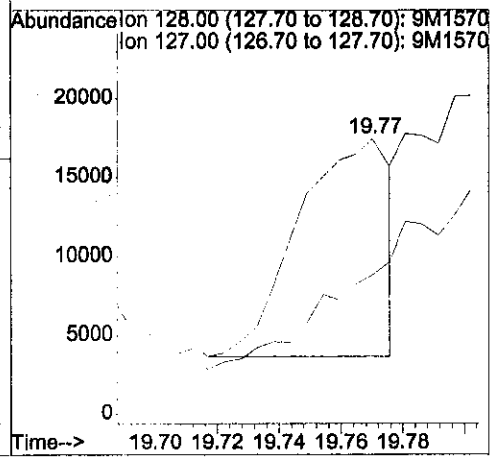


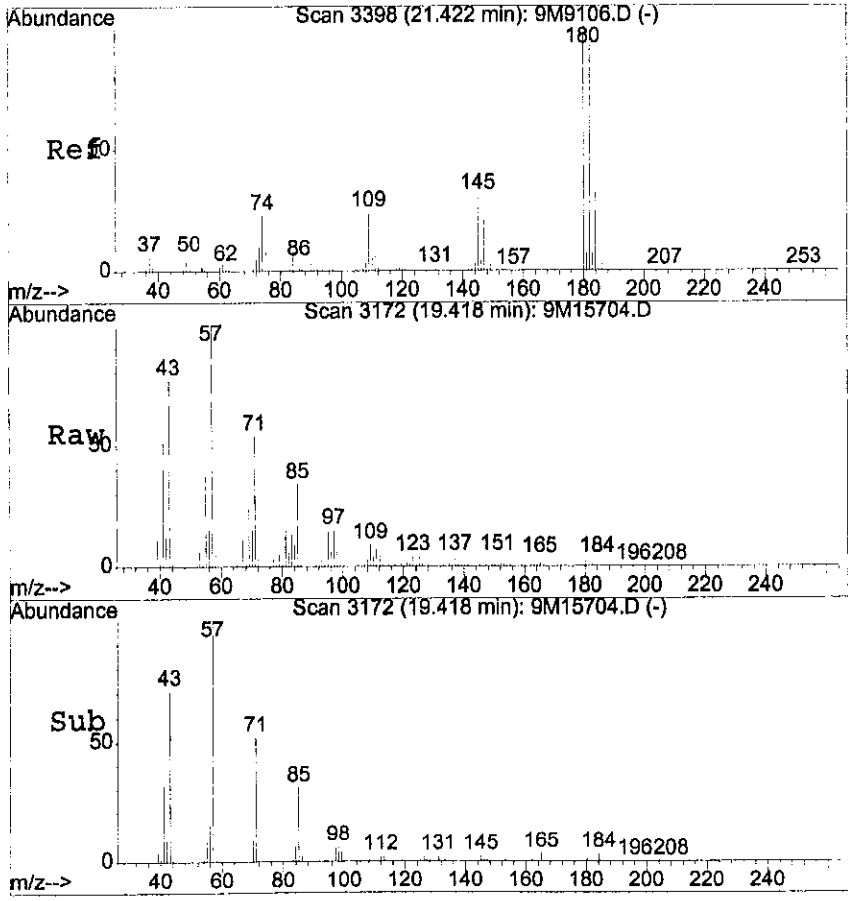


#86
Naphthalene
Concen: 2.21 ug/kg
RT: 19.77 min Scan# 3238
Delta R.T. -0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

Tgt Ion:128 Resp: 28044

Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#

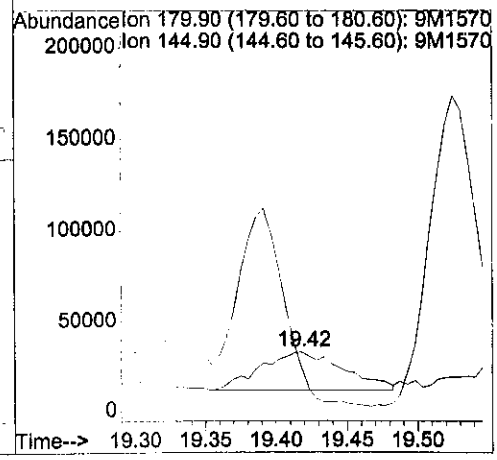




#87
1,2,3-Trichlorobenzene
Concen: 11.00 ug/kg
RT: 19.42 min Scan# 3172
Delta R.T. -0.01 min
Lab File: 9M15704.D
Acq: 18 May 2001 19:31

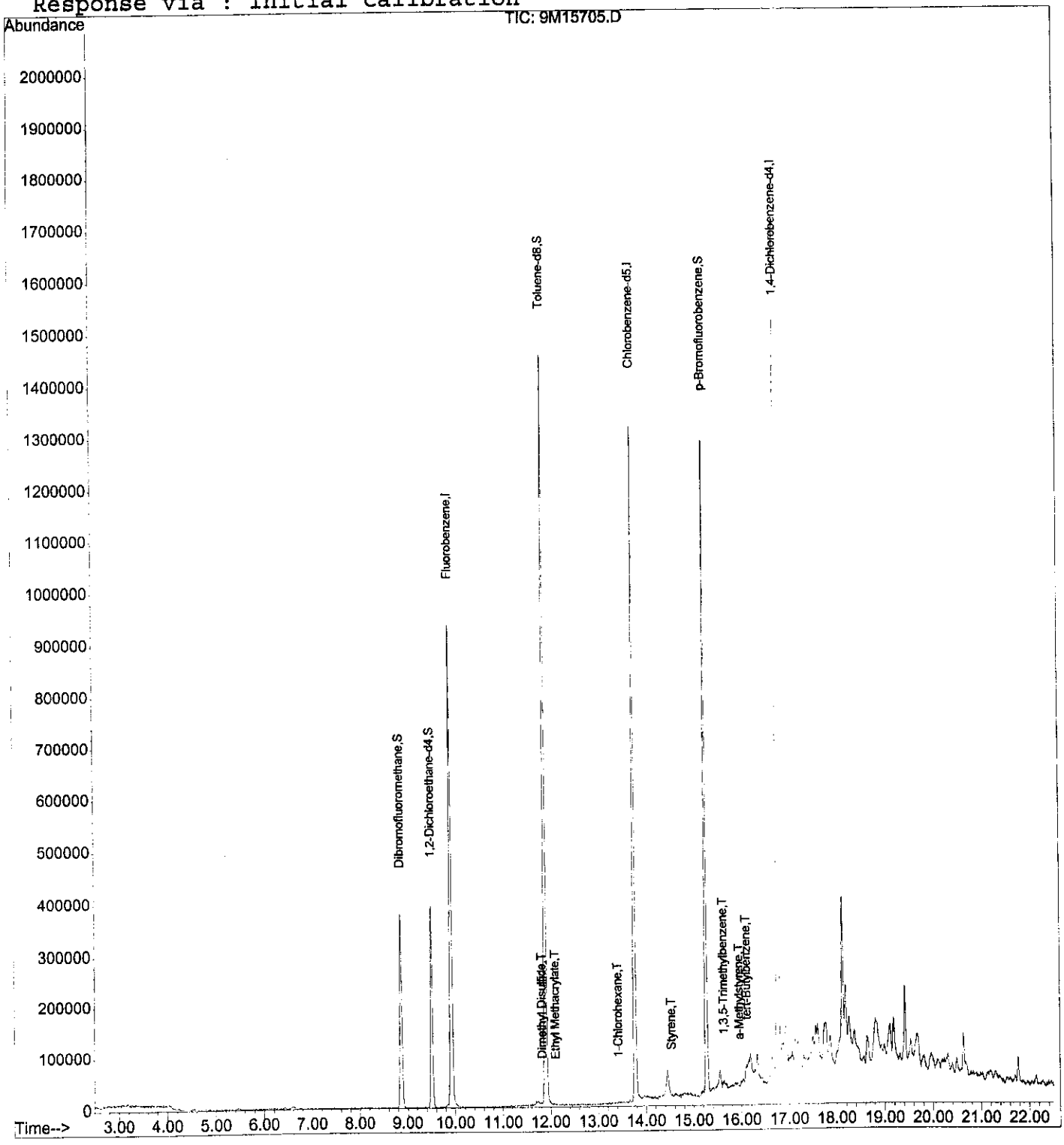
Tgt Ion:180 Resp: 84701

Ion	Ratio	Lower	Upper
180	100		
145	308.5	22.6	34.0#



Data File : D:\HPCHEM\1\DATA\051801\9M15705.D Vial: 20
Acq On : 18 May 2001 20:02 Operator: MES
Sample : L0105404-09 A 00 0.9X 630-NAVY-CTO 5.78G Inst : HPMS9
Misc : SOLID,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 21 16:22 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

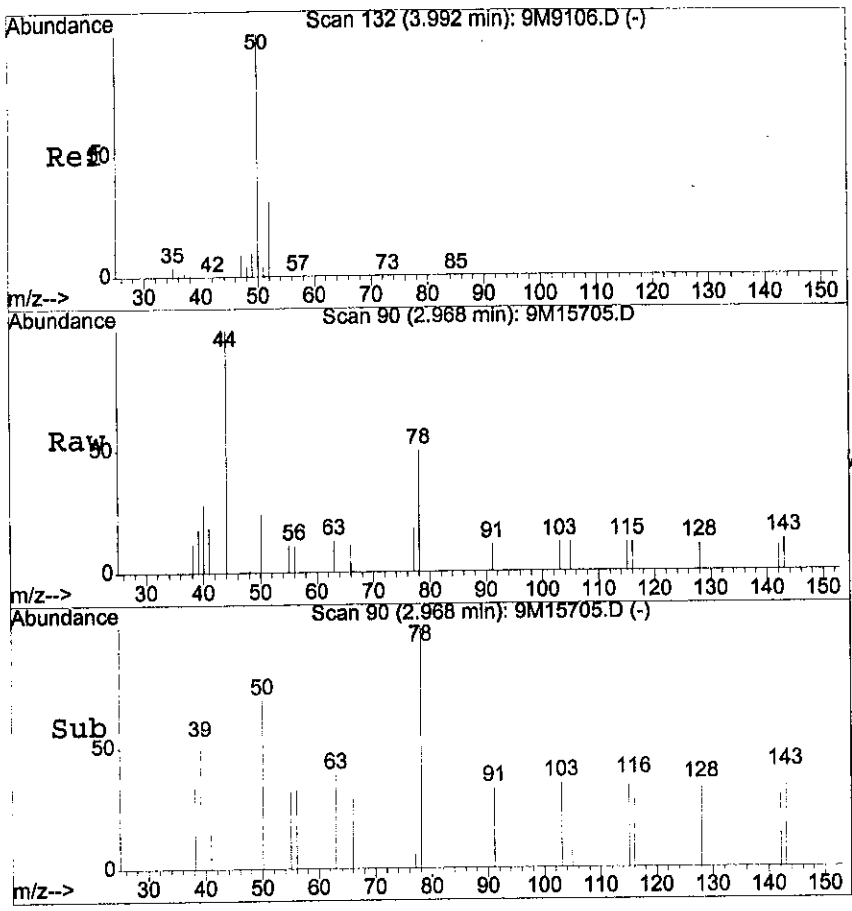


Data File : D:\HPCHEM\1\DATA\051801\9M15705.D Vial: 20
Acq On : 18 May 2001 20:02 Operator: MES
Sample : L0105404-09 A 00 0.9X 630-NAVY-CTO 5.78G Inst : HPMS9
Misc : SOLID,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 21 16:22 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1193547	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	943018	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	559803	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	338521	45.72	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	91.44%		
33) 1,2-Dichloroethane-d4	9.51	65	401452	44.73	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.46%		
45) Toluene-d8	11.90	98	1367241	48.03	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery =	96.06%		
66) p-Bromofluorobenzene	15.27	95	584385	50.44	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	100.88%		
Target Compounds						Qvalue
3) Chloromethane	2.97	50	967	Below Cal	#	27
11) Acetone	5.47	43	3881	Below Cal	#	77
43) Dimethyl Disulfide	11.83	79	269	4.13	ug/kg#	1
47) Ethyl Methacrylate	12.11	69	438	3.62	ug/kg#	76
55) 1-Chlorohexane	13.43	91	499	1.86	ug/kg#	42
61) Styrene	14.53	104	678	1.60	ug/kg#	67
71) 1,3,5-Trimethylbenzene	15.63	105	5931	2.22	ug/kg#	70
74) a-Methylstyrene	15.96	118	182	3.59	ug/kg	98
75) tert-Butylbenzene	16.12	119	763	1.00	ug/kg#	81

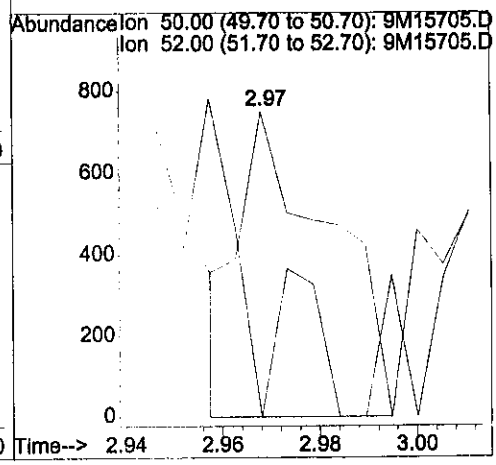
(#) = qualifier out of range (m) = manual integration
9M15705.D 8260SOIL.M Mon May 21 16:22:29 2001 HPMS_9 Page 1

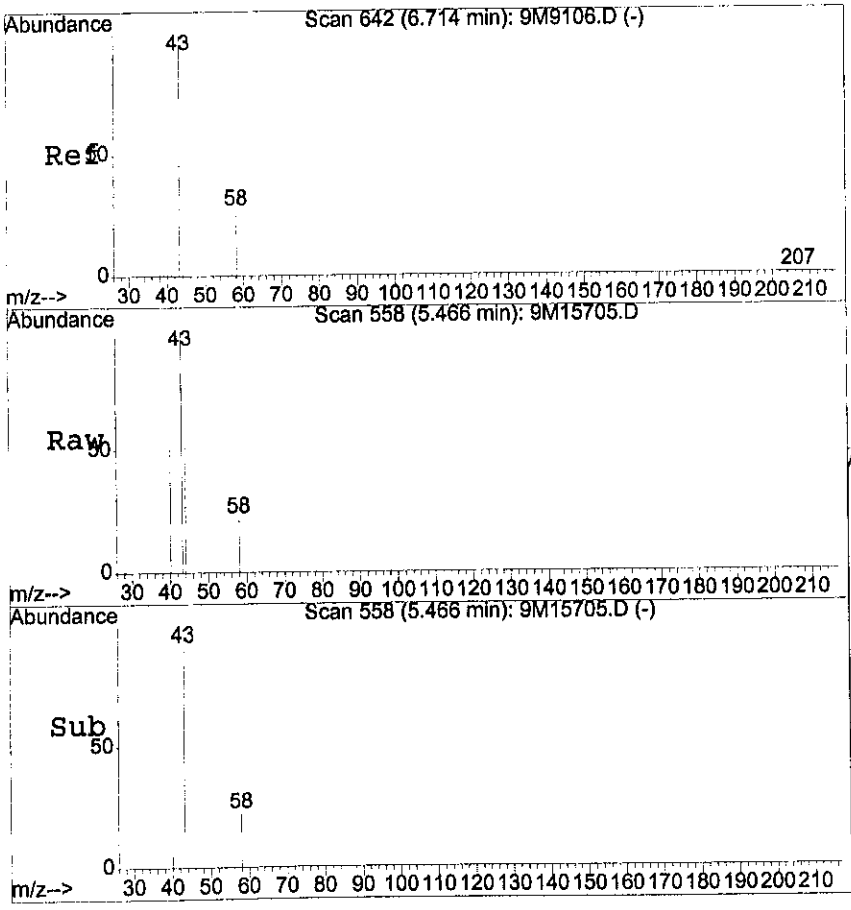


#3
Chloromethane
Concen: Below Cal
RT: 2.97 min Scan# 90
Delta R.T. -0.02 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion: 50 Resp: 967

Ion	Ratio	Lower	Upper
50	100		
52	72.5	25.4	38.2#

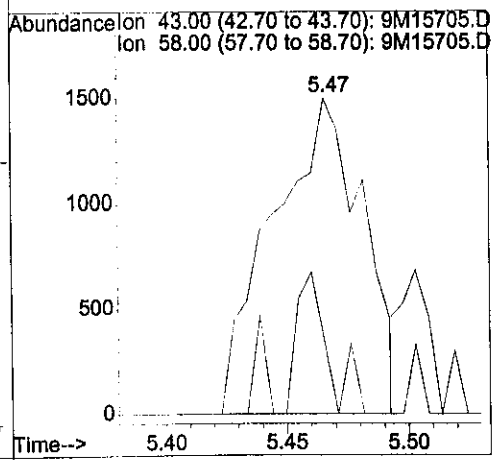


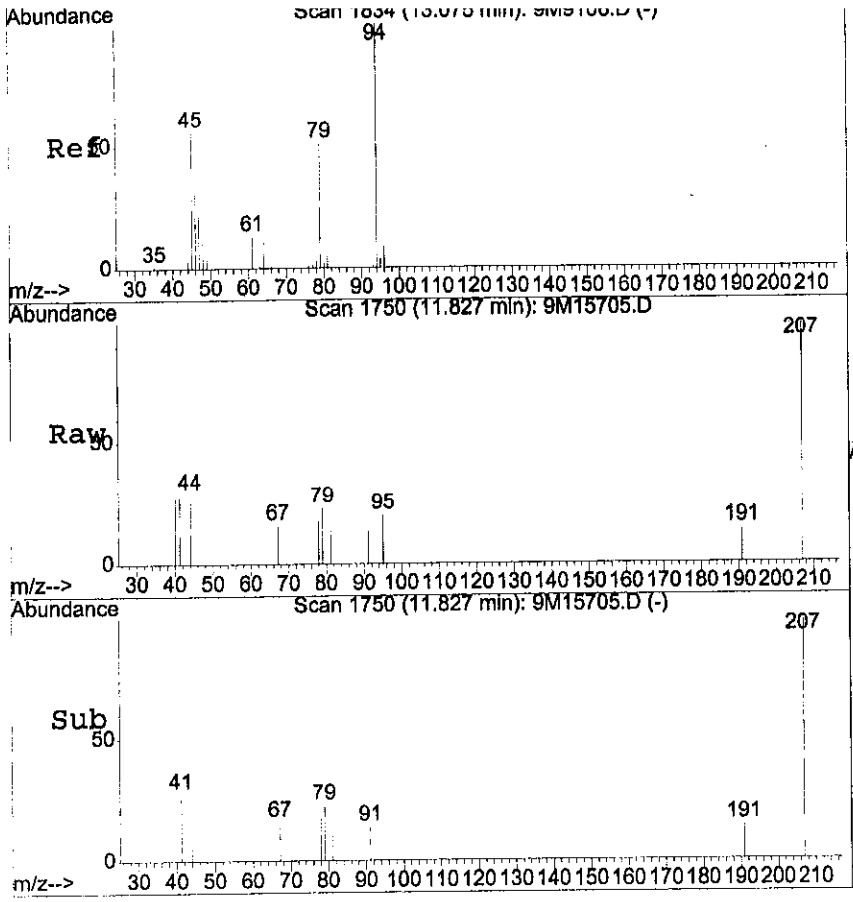


#11
Acetone
Concen: Below Cal
RT: 5.47 min Scan# 558
Delta R.T. 0.03 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion: 43 Resp: 3881

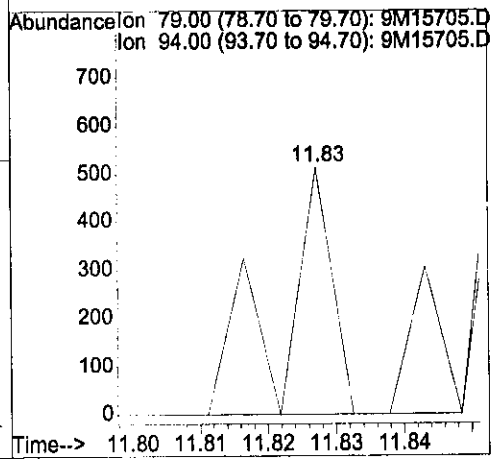
Ion	Ratio	Lower	Upper
43	100		
58	15.6	21.9	32.9#

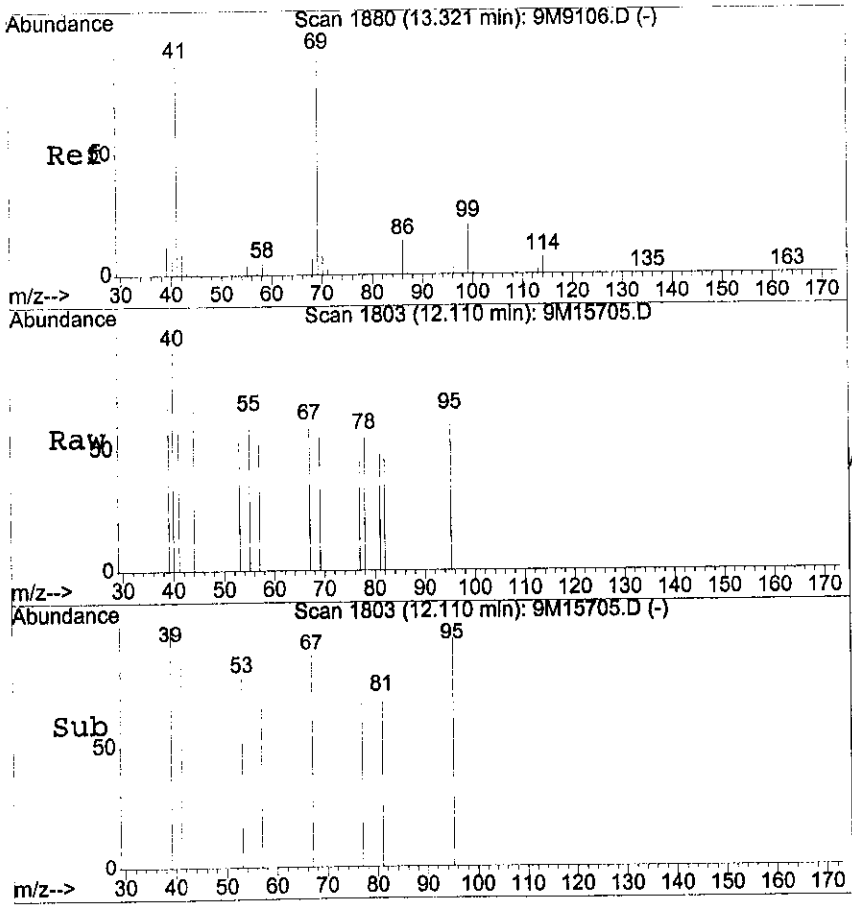




#43
Dimethyl Disulfide
Concen: 4.13 ug/kg
RT: 11.83 min Scan# 1750
Delta R.T. 0.02 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

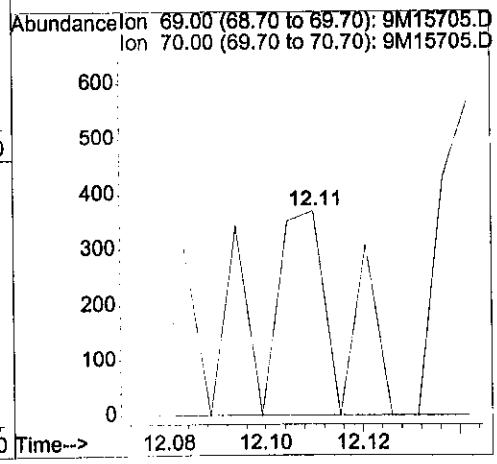
Tgt Ion: 79	Resp:	269	
Ion	Ratio	Lower	Upper
79	100		
94	0.0	153.5	230.3#

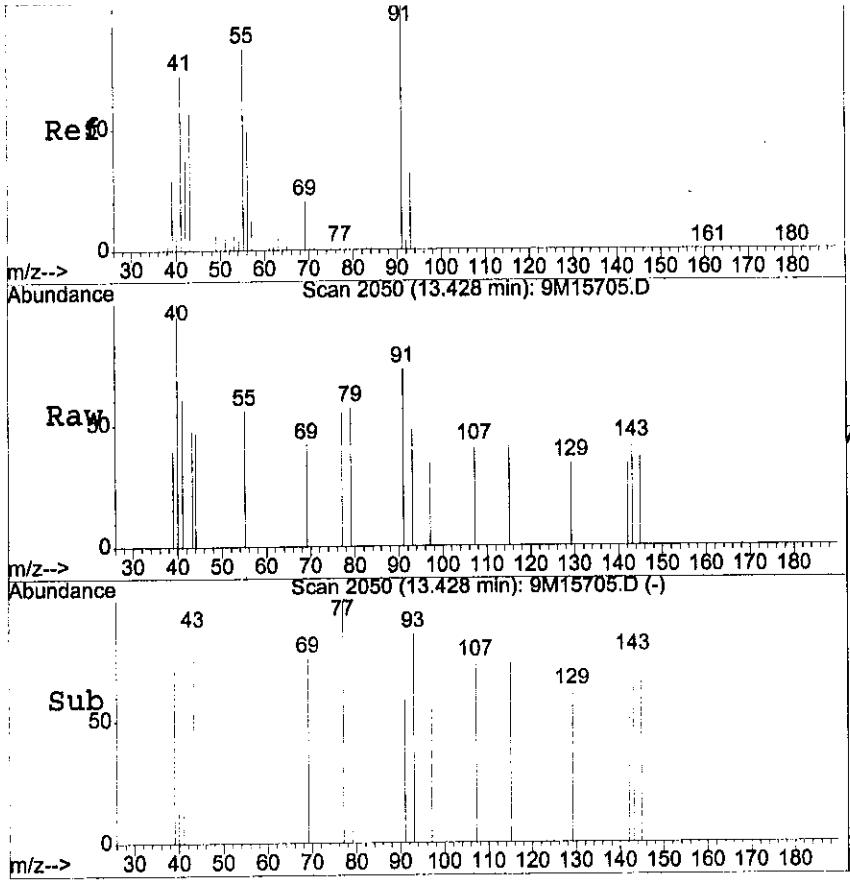




#47
Ethyl Methacrylate
Concen: 3.62 ug/kg
RT: 12.11 min Scan# 1803
Delta R.T. -0.01 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion: 69	Resp:	438	
Ion	Ratio	Lower	Upper
69	100		
70	0.0	6.7	10.1#

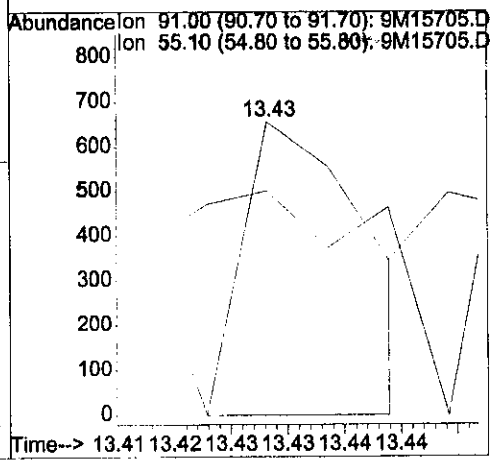


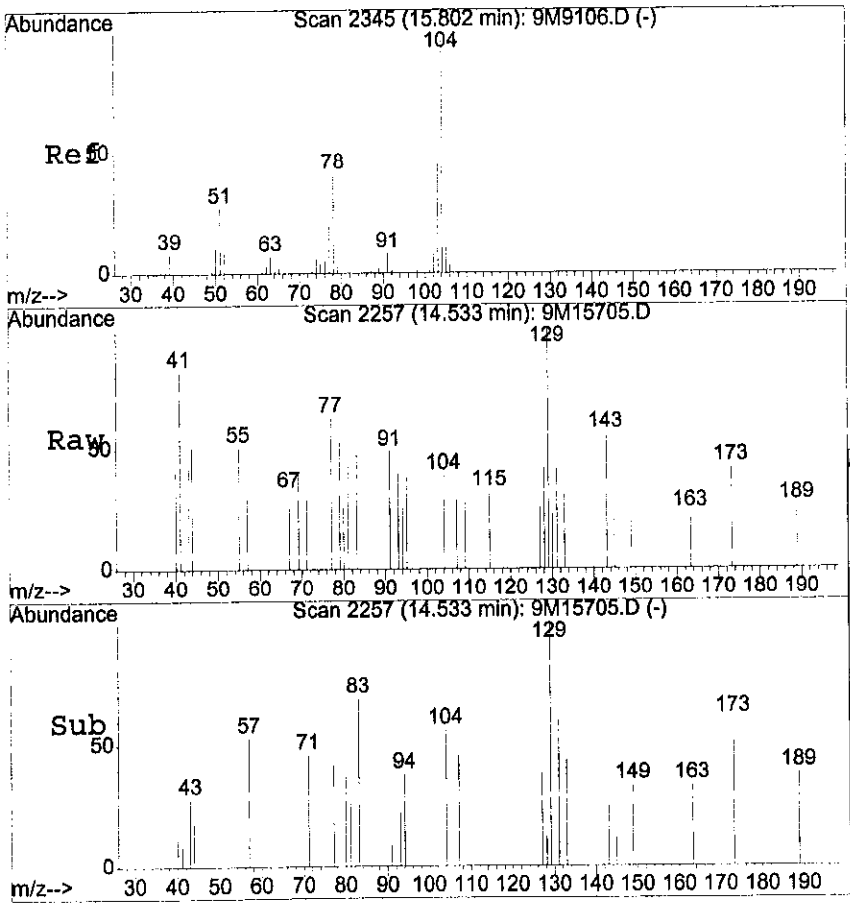


1-Chlorohexane
Concen: 1.86 ug/kg
RT: 13.43 min Scan# 2050
Delta R.T. -0.01 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion: 91 Resp: 499

Ion	Ratio	Lower	Upper
91	100		
55	126.3	61.0	91.4#

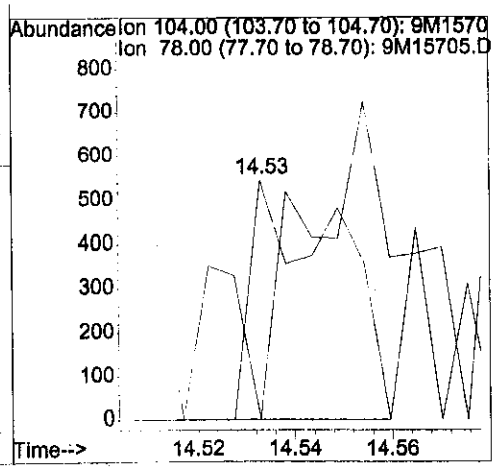


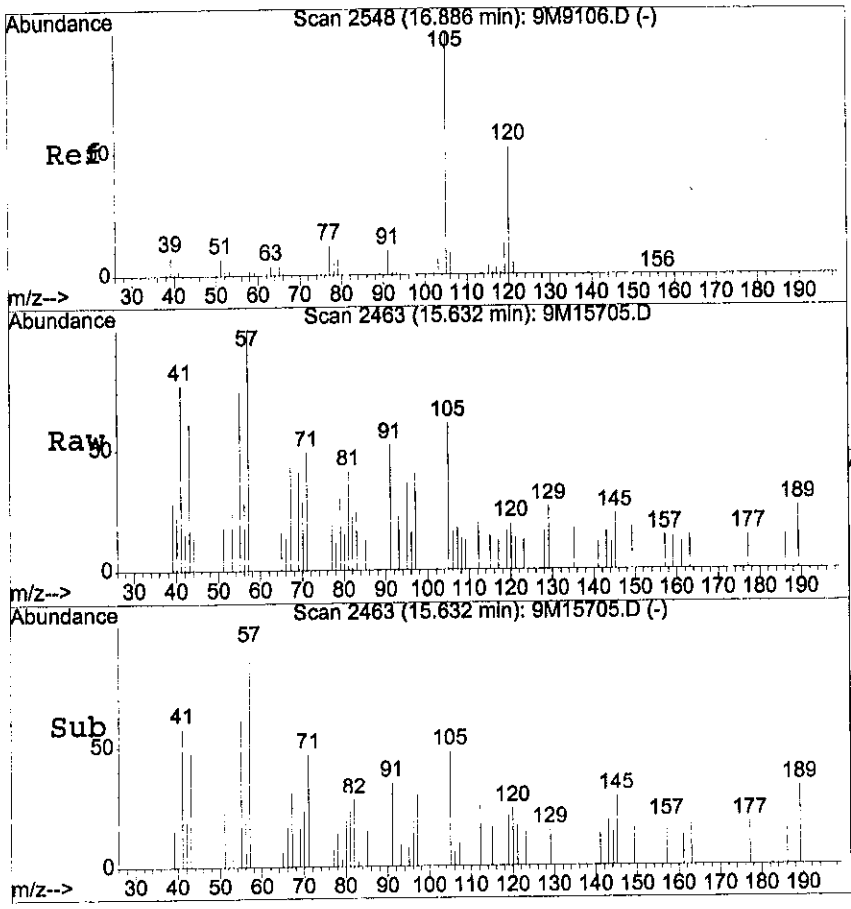


#61
Styrene
Concen: 1.60 ug/kg
RT: 14.53 min Scan# 2257
Delta R.T. -0.00 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion:104 Resp: 678

Ion	Ratio	Lower	Upper
104	100		
78	32.0	45.0	67.4#

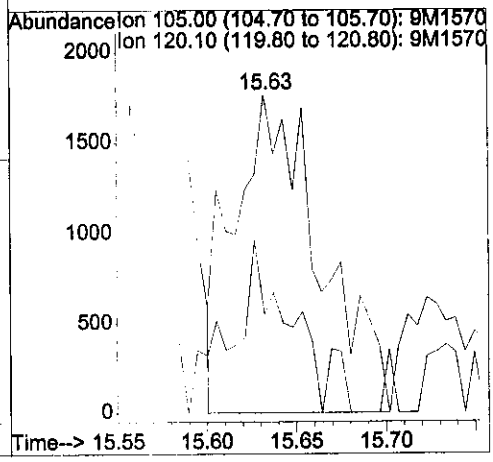


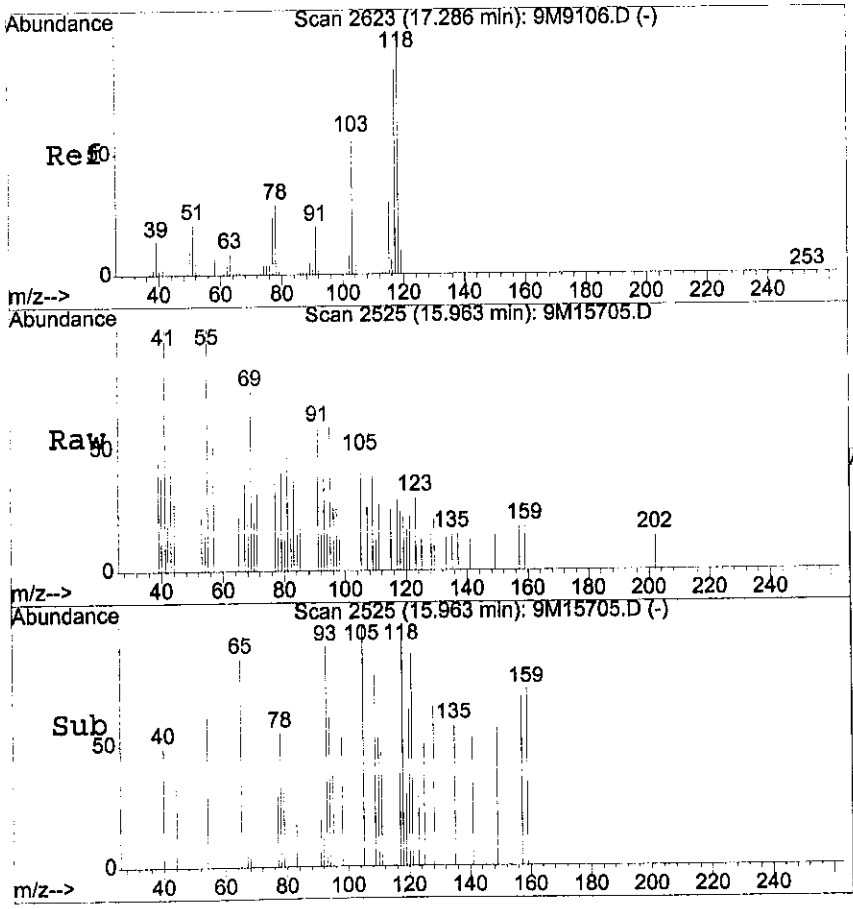


#71
1,3,5-Trimethylbenzene
Concen: 2.22 ug/kg
RT: 15.63 min Scan# 2463
Delta R.T. 0.01 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion:105 Resp: 5931

Ion	Ratio	Lower	Upper
105	100		
120	26.7	37.3	55.9#

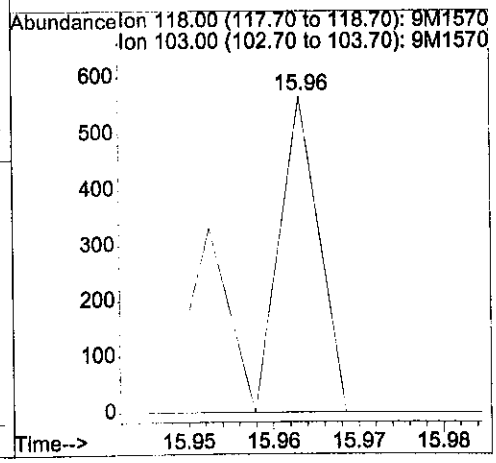


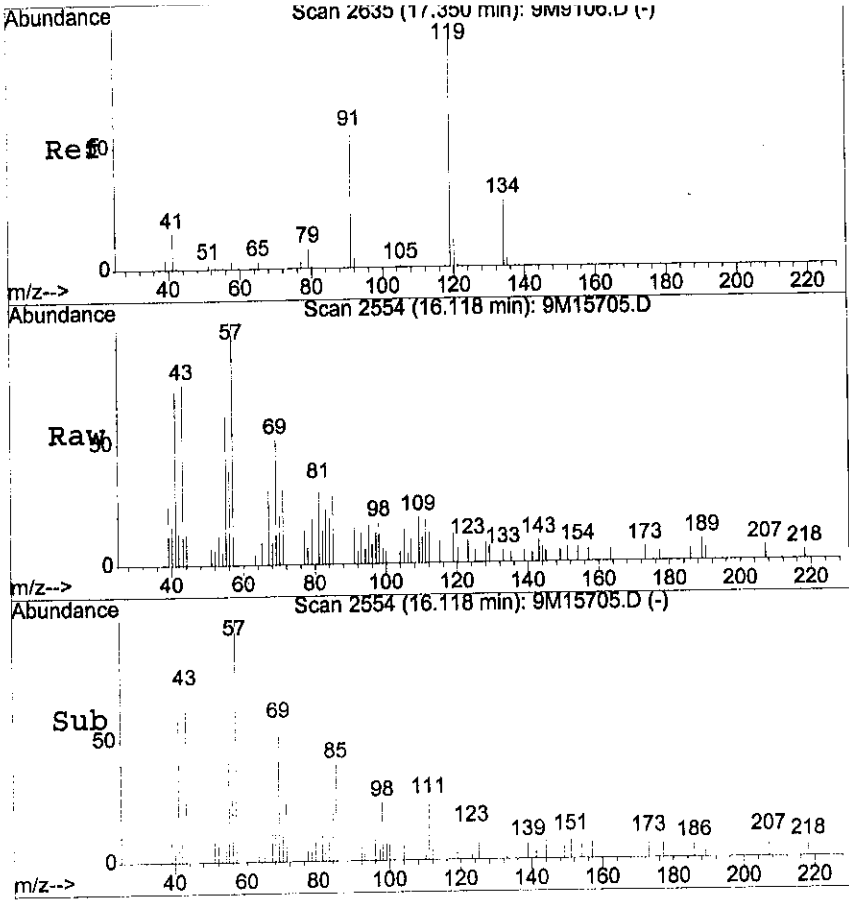


#74
a-Methylstyrene
Concen: 3.59 ug/kg
RT: 15.96 min Scan# 2525
Delta R.T. -0.06 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion:118 Resp: 182

Ion	Ratio	Lower	Upper
118	100		
103	58.2	45.7	68.5

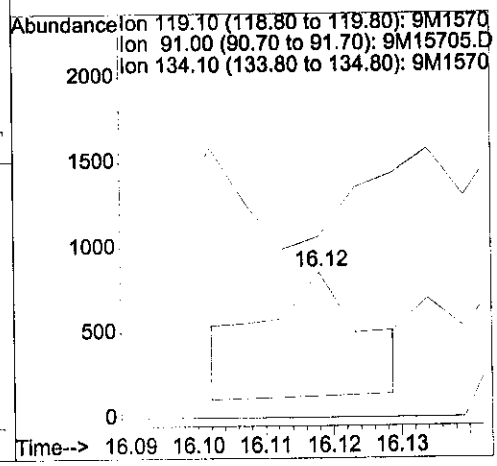




#75
tert-Butylbenzene
Concen: 1.00 ug/kg
RT: 16.12 min Scan# 2554
Delta R.T. 0.03 min
Lab File: 9M15705.D
Acq: 18 May 2001 20:02

Tgt Ion:119 Resp: 763

Ion	Ratio	Lower	Upper
119	100		
91	43.4	39.5	59.3
134	0.0	16.0	24.0#

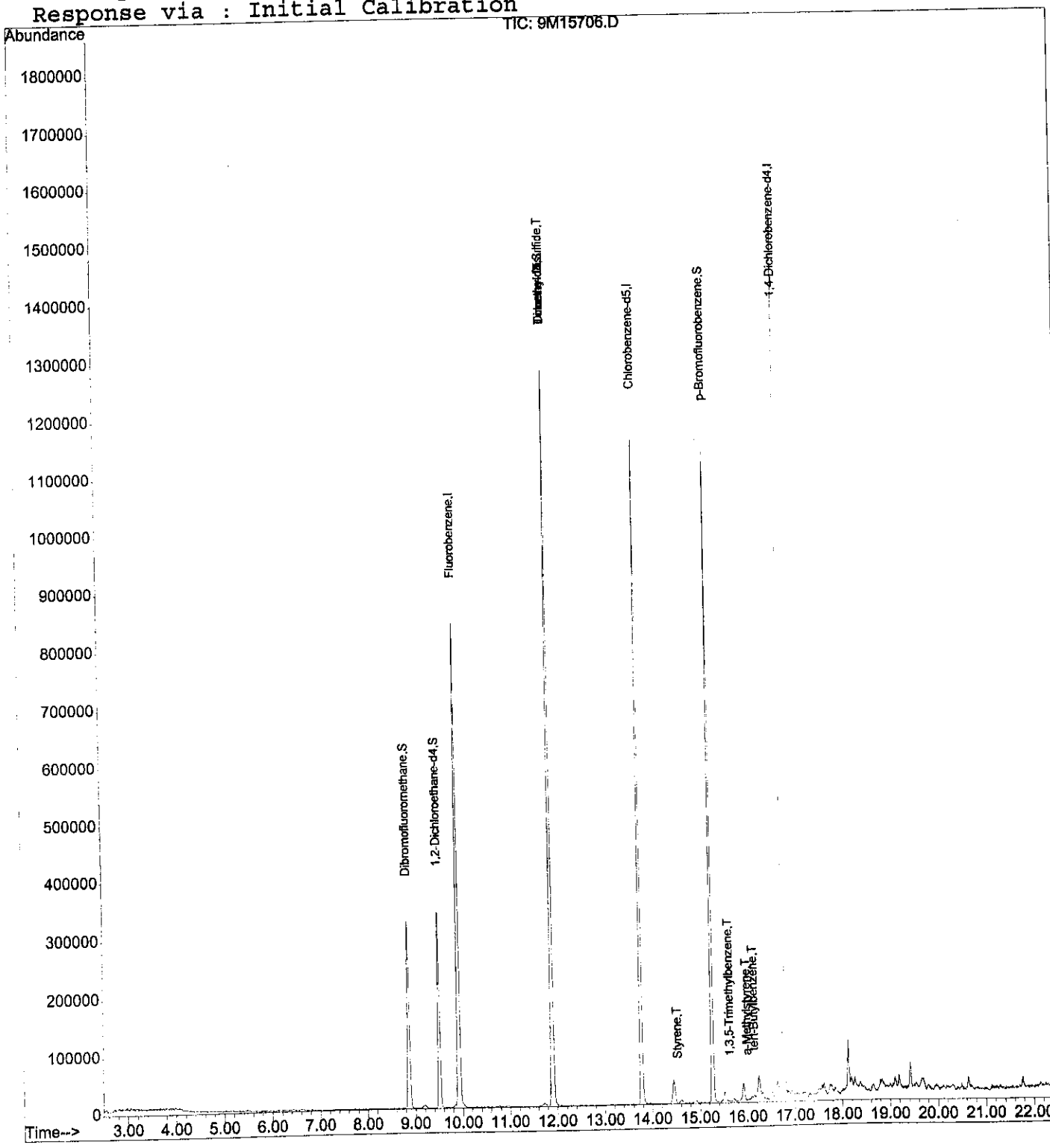


Data File : D:\HPCHEM\1\DATA\051801\9M15706.D
Acq On : 18 May 2001 20:34
Sample : L0105404-10 A 00 0.8X 630-NAVY-CTO 6.20G
Misc : SOLID,0.8
MS Integration Params: RTEINT.P
Quant Time: May 21 16:22 2001

Vial: 21
Operator: MES
Inst : HPMS9
Multiplr: 0.80

Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

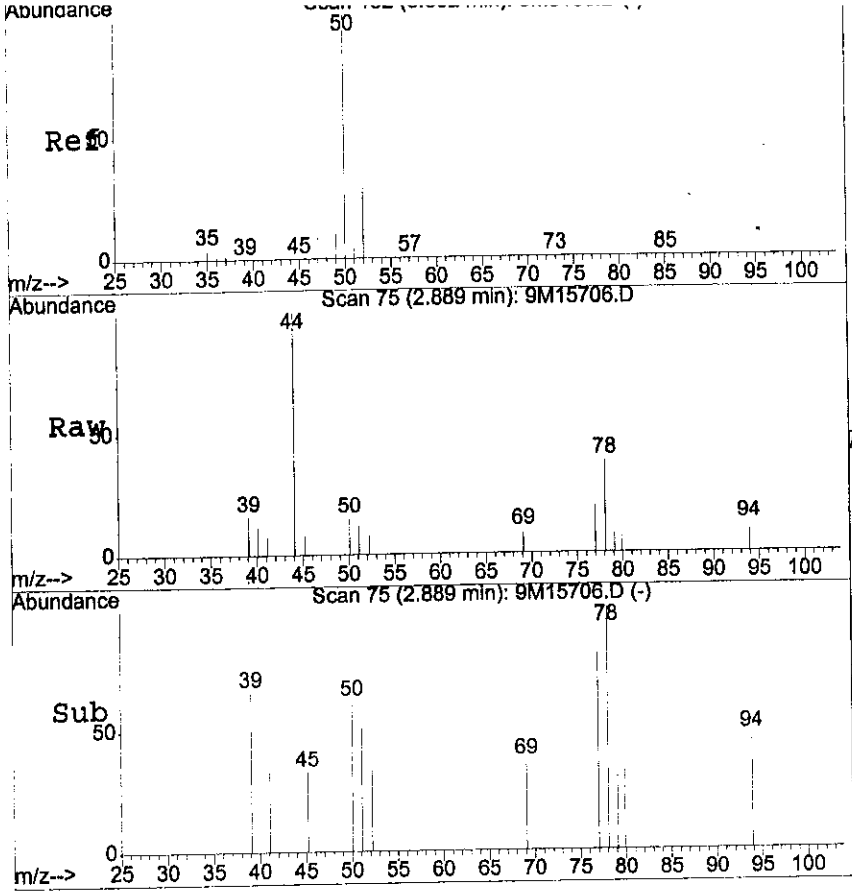


Data File : D:\HPCHEM\1\DATA\051801\9M15706.D Vial: 21
Acq On : 18 May 2001 20:34 Operator: MES
Sample : L0105404-10 A 00 0.8X 630-NAVY-CTO 6.20G Inst : HPMS9
Misc : SOLID,0.8 Multiplr: 0.80
MS Integration Params: RTEINT.P
Quant Time: May 21 16:22 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1069016	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	815975	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	528317	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	290873	43.86	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 87.72%			
33) 1,2-Dichloroethane-d4	9.51	65	346005	43.05	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 86.10%			
45) Toluene-d8	11.90	98	1183391	48.05	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 96.10%			
66) p-Bromofluorobenzene	15.27	95	508461	46.50	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 93.00%			
Target Compounds						Qvalue
3) Chloromethane	2.89	50	1103	Below Cal		97
4) Vinyl Chloride	3.16	62	116	Below Cal	#	43
11) Acetone	5.46	43	2282	Below Cal	#	71
43) Dimethyl Disulfide	11.90	79	229	3.67	ug/kg#	1
61) Styrene	14.54	104	139	1.40	ug/kg#	69
71) 1,3,5-Trimethylbenzene	15.64	105	1527	1.87	ug/kg#	72
74) a-Methylstyrene	16.01	118	115	3.18	ug/kg#	23
75) tert-Butylbenzene	16.15	119	200	0.88	ug/kg#	56

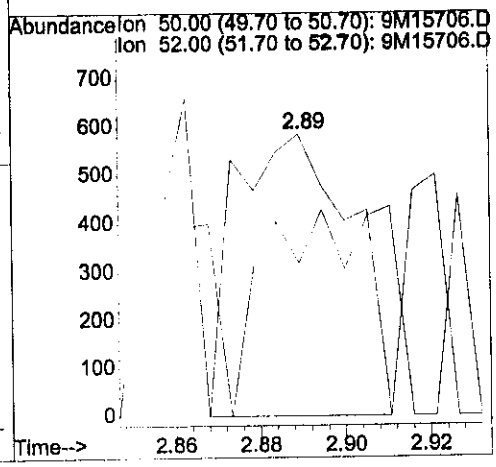
(#) = qualifier out of range (m) = manual integration
9M15706.D 8260SOIL.M Mon May 21 16:22:48 2001 HPMS_9 Page 1

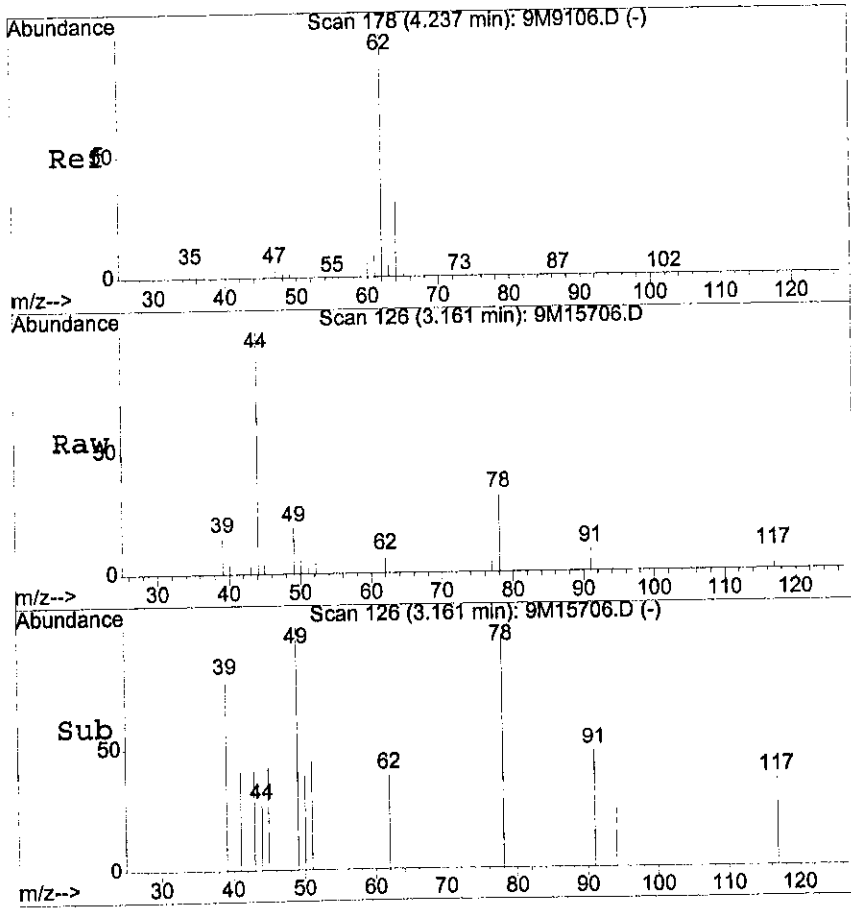


#3
Chloromethane
Concen: Below Cal
RT: 2.89 min Scan# 75
Delta R.T. -0.10 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion: 50 Resp: 1103

Ion	Ratio	Lower	Upper
50	100		
52	30.1	25.4	38.2

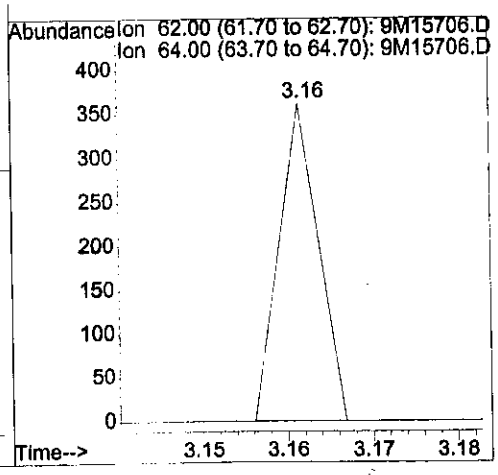


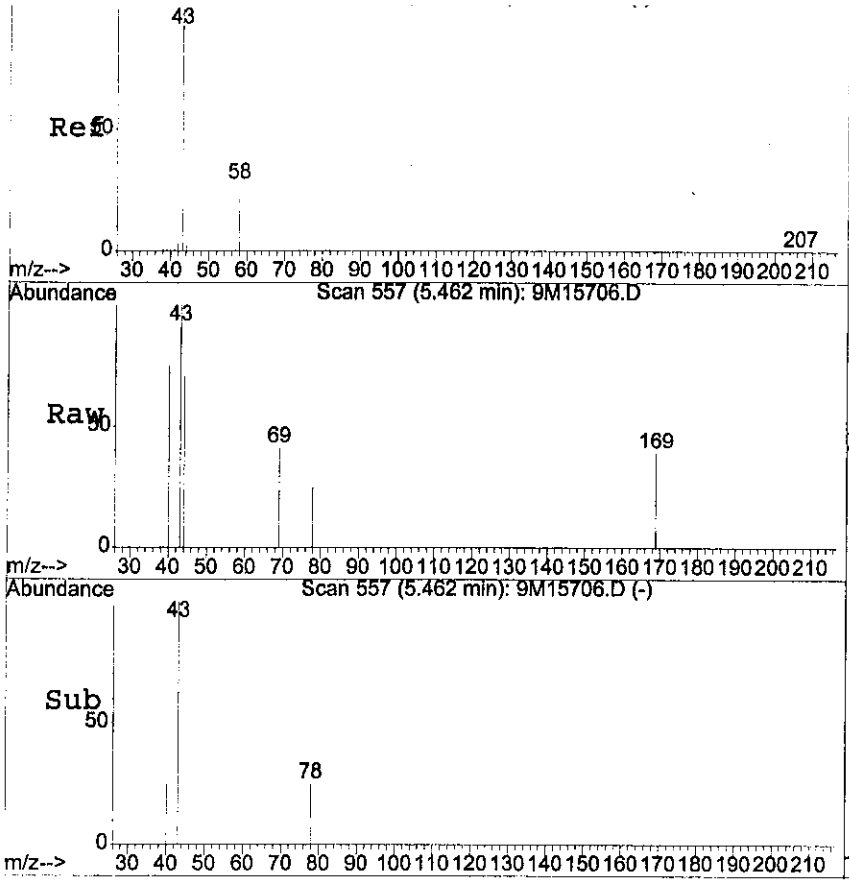


#4
Vinyl Chloride
Concen: Below Cal
RT: 3.16 min Scan# 126
Delta R.T. 0.00 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion: 62 Resp: 116

Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.6	38.4#

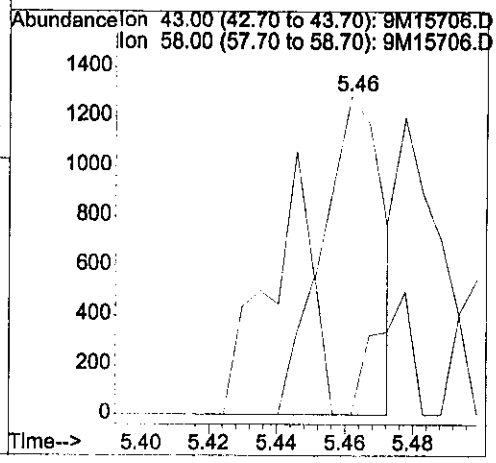


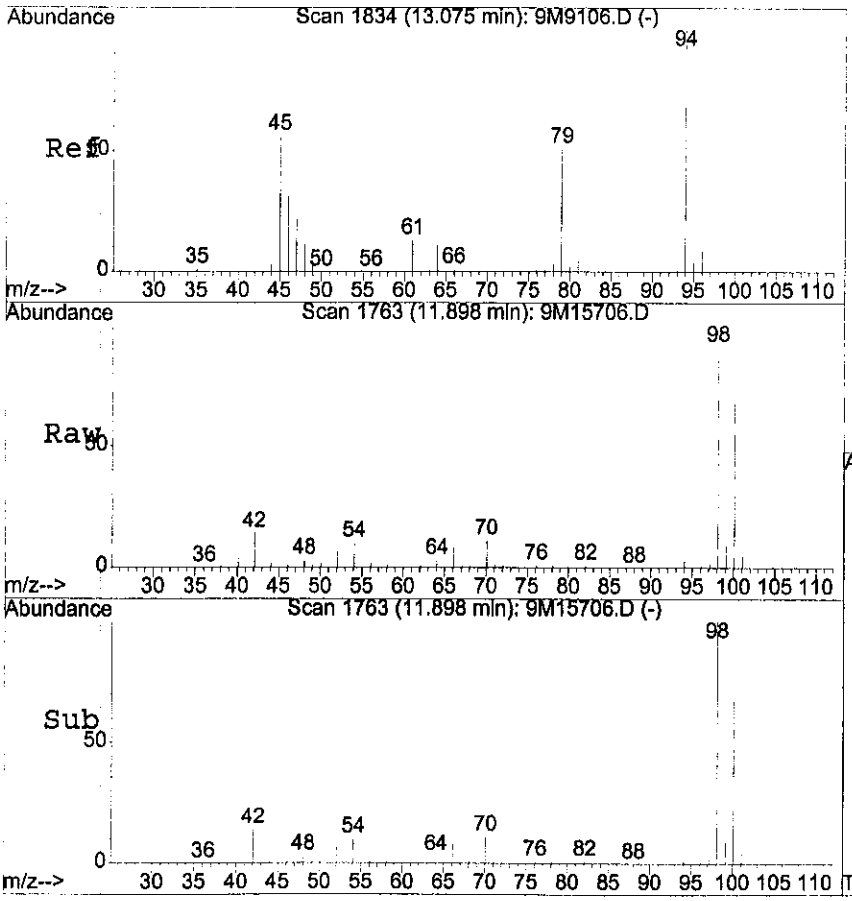


#41
Acetone
Concen: Below Cal
RT: 5.46 min Scan# 557
Delta R.T. 0.03 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion: 43 Resp: 2282

Ion	Ratio	Lower	Upper
43	100		
58	12.5	21.9	32.9#

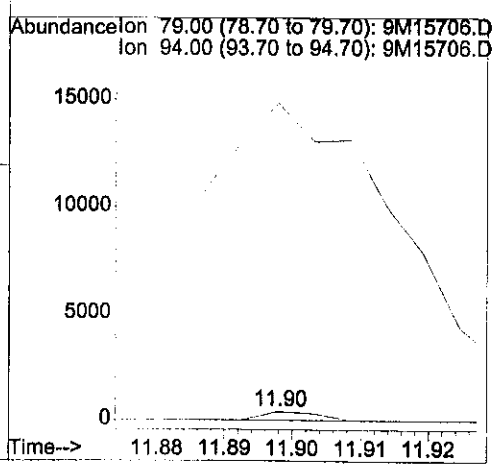


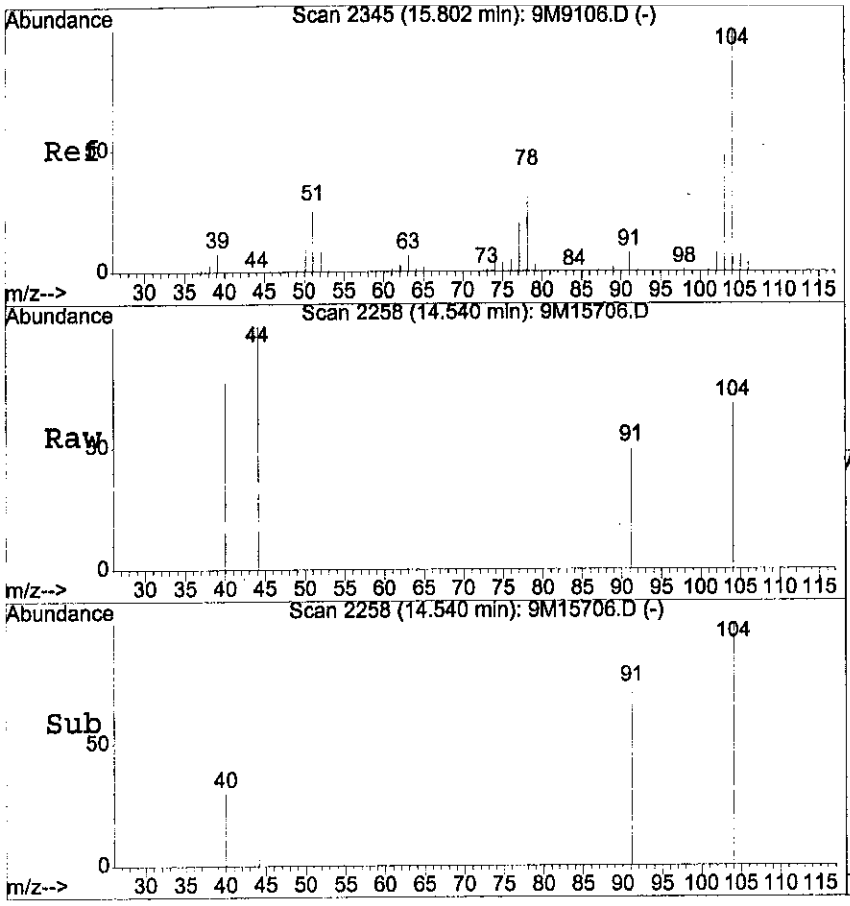


#43
Dimethyl Disulfide
Concen: 3.67 ug/kg
RT: 11.90 min Scan# 1763
Delta R.T. 0.09 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion: 79 Resp: 229

Ion	Ratio	Lower	Upper
79	100		
94	15736.2	153.5	230.3#

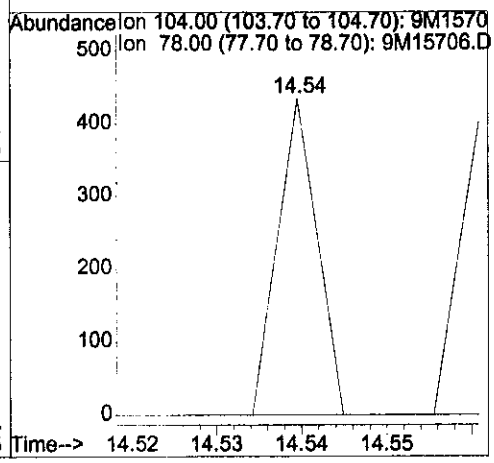


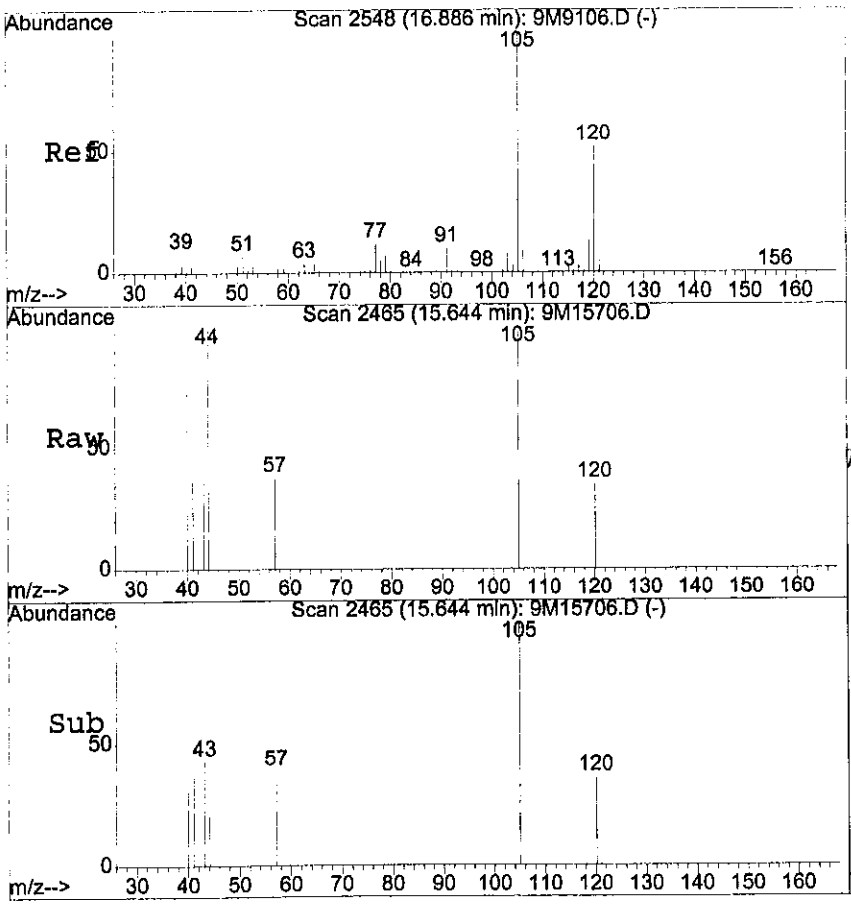


#61
Styrene
Concen: 1.40 ug/kg
RT: 14.54 min Scan# 2258
Delta R.T. 0.00 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion:104 Resp: 139

Ion	Ratio	Lower	Upper
104	100		
78	79.1	45.0	67.4#

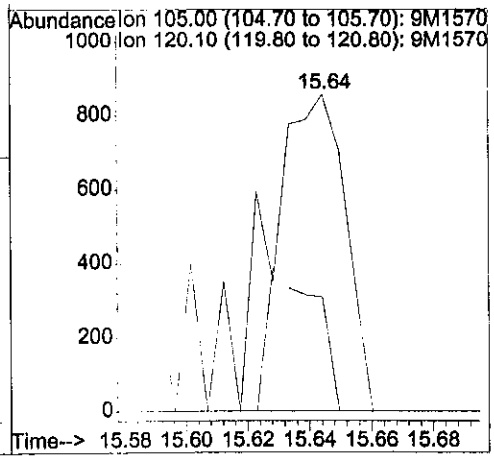


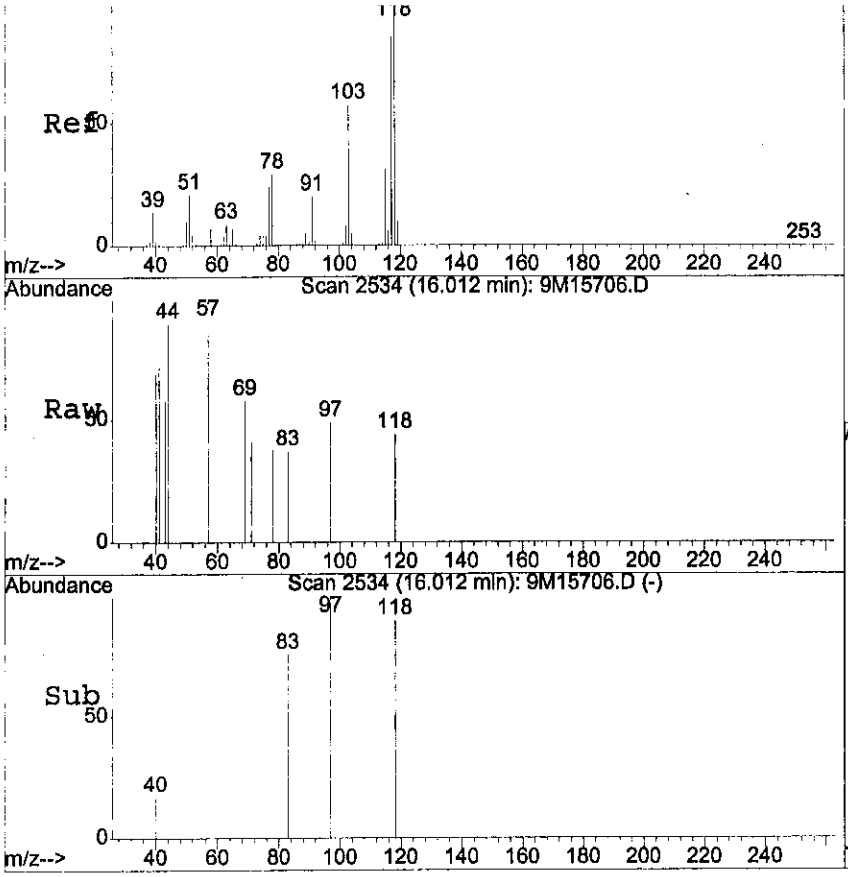


#71
1,3,5-Trimethylbenzene
Concen: 1.87 ug/kg
RT: 15.64 min Scan# 2465
Delta R.T. 0.02 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion:105 Resp: 1527

Ion	Ratio	Lower	Upper
105	100		
120	28.2	37.3	55.9#

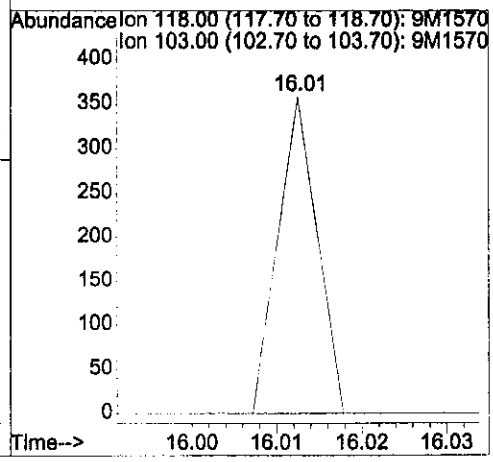


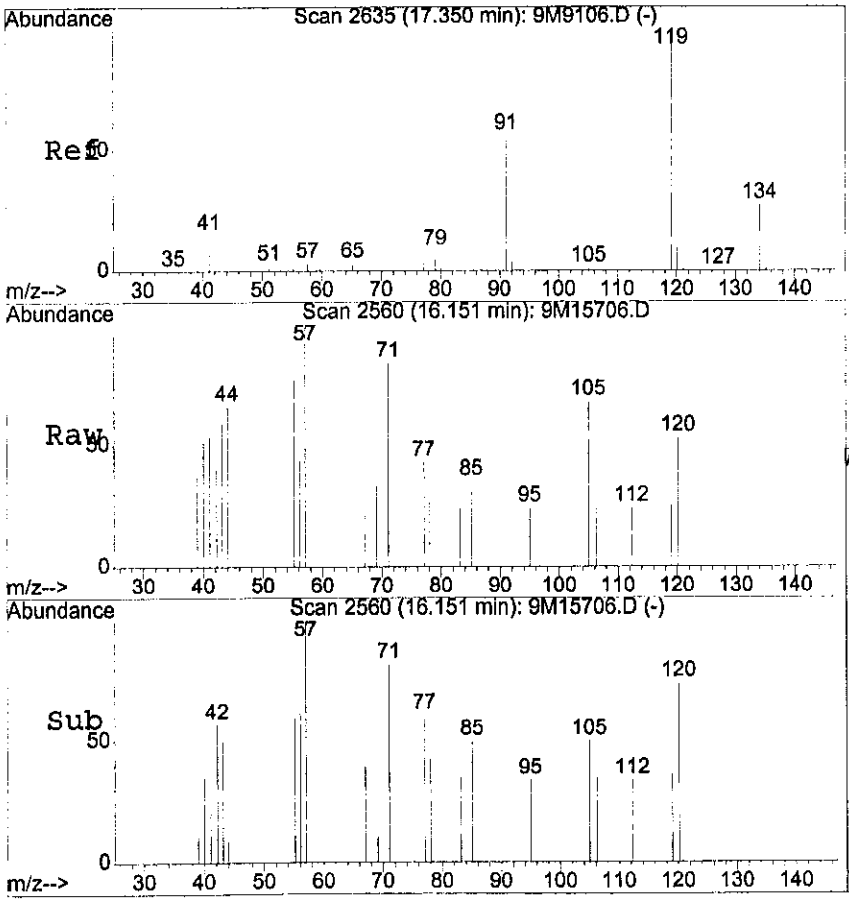


a-Methylstyrene
Concen: 3.18 ug/kg
RT: 16.01 min Scan# 2534
Delta R.T. -0.01 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion:118 Resp: 115

Ion	Ratio	Lower	Upper
118	100		
103	0.0	45.7	68.5#

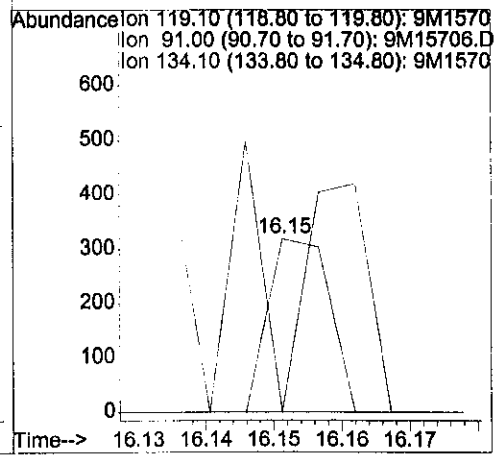




#75
tert-Butylbenzene
Concen: 0.88 ug/kg
RT: 16.15 min Scan# 2560
Delta R.T. 0.07 min
Lab File: 9M15706.D
Acq: 18 May 2001 20:34

Tgt Ion:119 Resp: 200

Ion	Ratio	Lower	Upper
119	100		
91	80.0	39.5	59.3#
134	0.0	16.0	24.0#

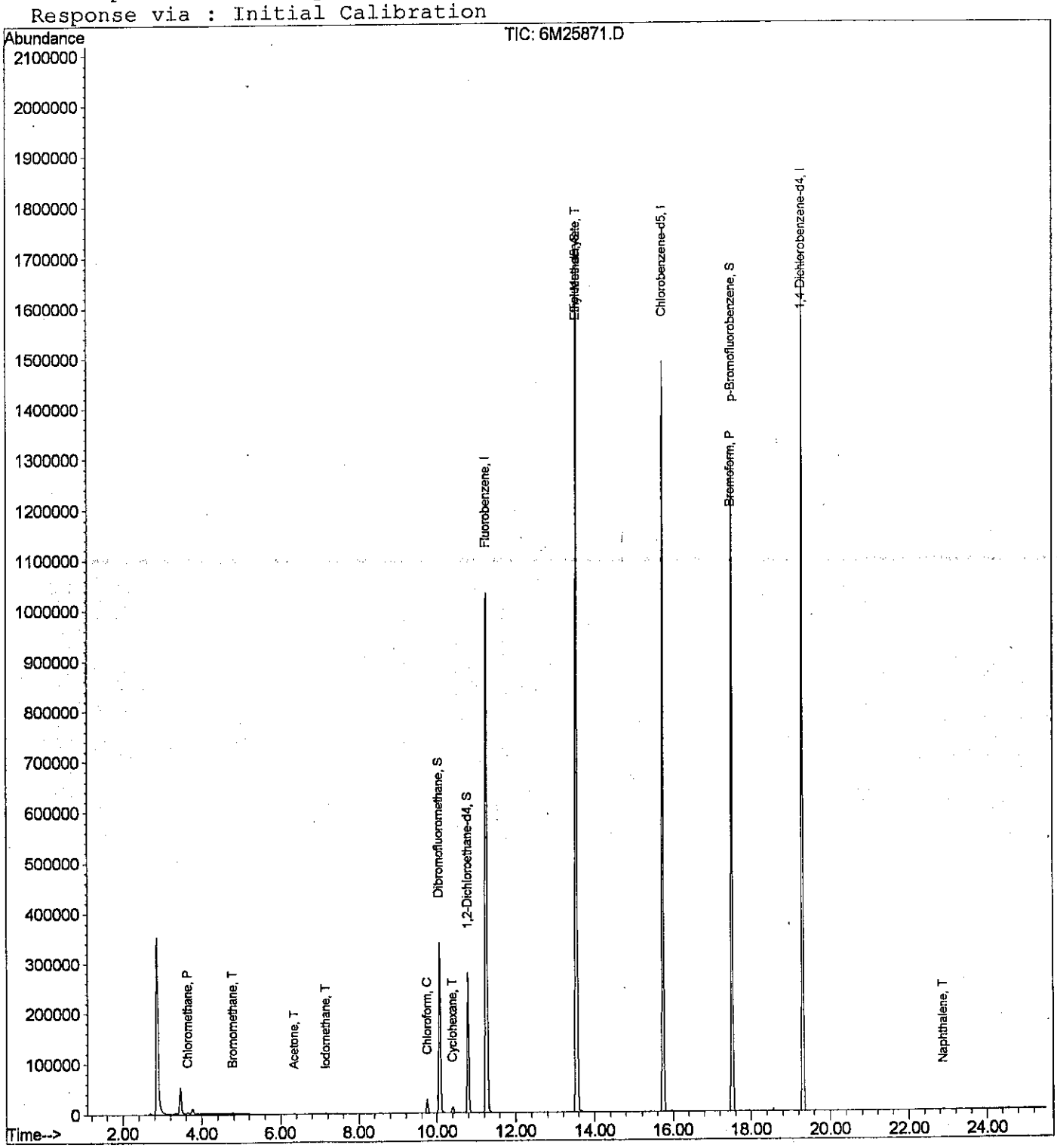


Data File : C:\HPCHEM\1\DATA\052201\6M25871.D
Acq On : 22 May 2001 23:46
Sample : L0105404-11 A 826-SPE-VO 00
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:45 19101

Vial: 7
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\6M25871.D
Acq On : 22 May 2001 23:46
Sample : L0105404-11 A 826-SPE-VO 00
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:45 19101

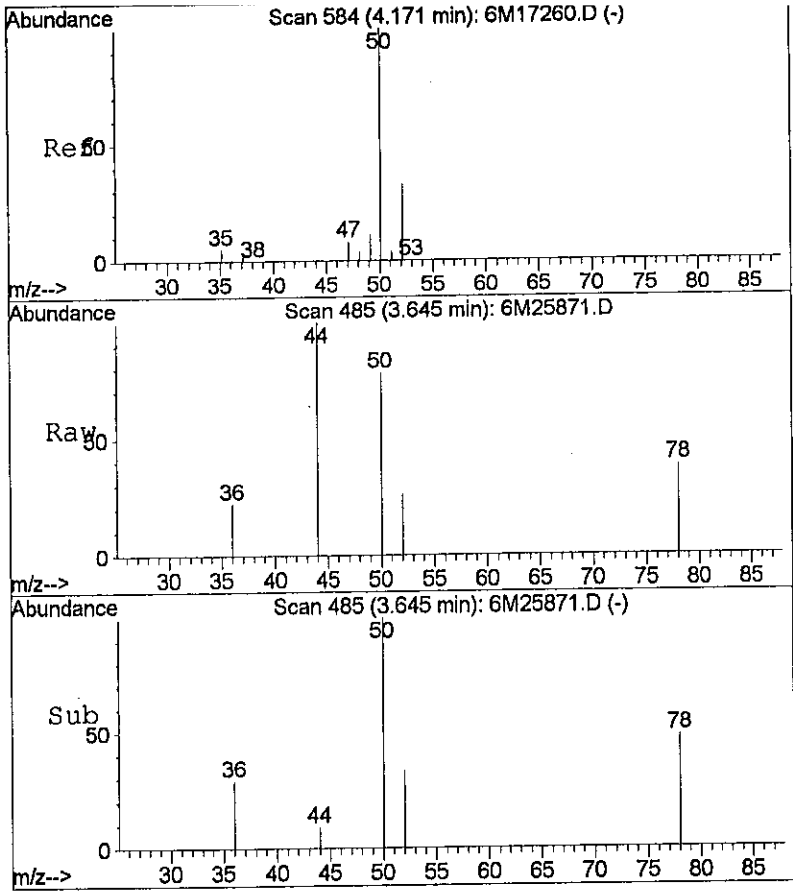
Vial: 7
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1432523	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1264856	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	669130	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	350504	22.26	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 89.04%			
33) 1,2-Dichloroethane-d4	10.80	65	283321	21.58	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 86.32%			
45) Toluene-d8	13.55	98	1799661	24.53	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.12%			
66) p-Bromofluorobenzene	17.52	95	658636	25.31	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.24%			
Target Compounds						Qvalue
3) Chloromethane	3.65	50	3637	0.17	ug/L #	76
5) Bromomethane	4.78	94	1374	0.16	ug/L	89
11) Acetone	6.36	43	1849	1.33	ug/L #	46
14) Iodomethane	7.15	142	1519	3.19	ug/L #	32
26) Chloroform	9.75	83	35155	1.29	ug/L F	99
30) Cyclohexane	10.40	56	11523	0.38	ug/L	93
47) Ethyl Methacrylate	13.56	69	3150	0.33	ug/L #	1
62) Bromoform	17.51	173	678	1.55	ug/L #	34
86) Naphthalene	22.89	128	4543	0.18	ug/L #	75

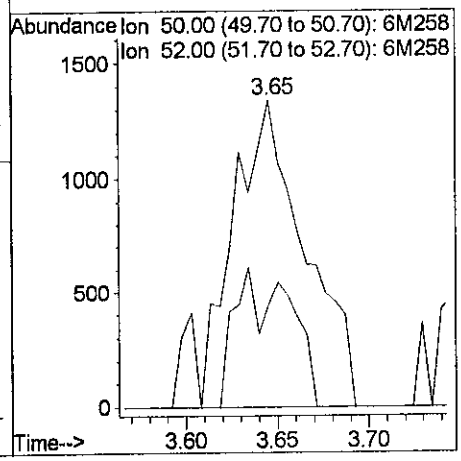
(#) = qualifier out of range (m) = manual integration
6M25871.D 8260WTR.M Thu May 24 15:47:02 2001 Page 1

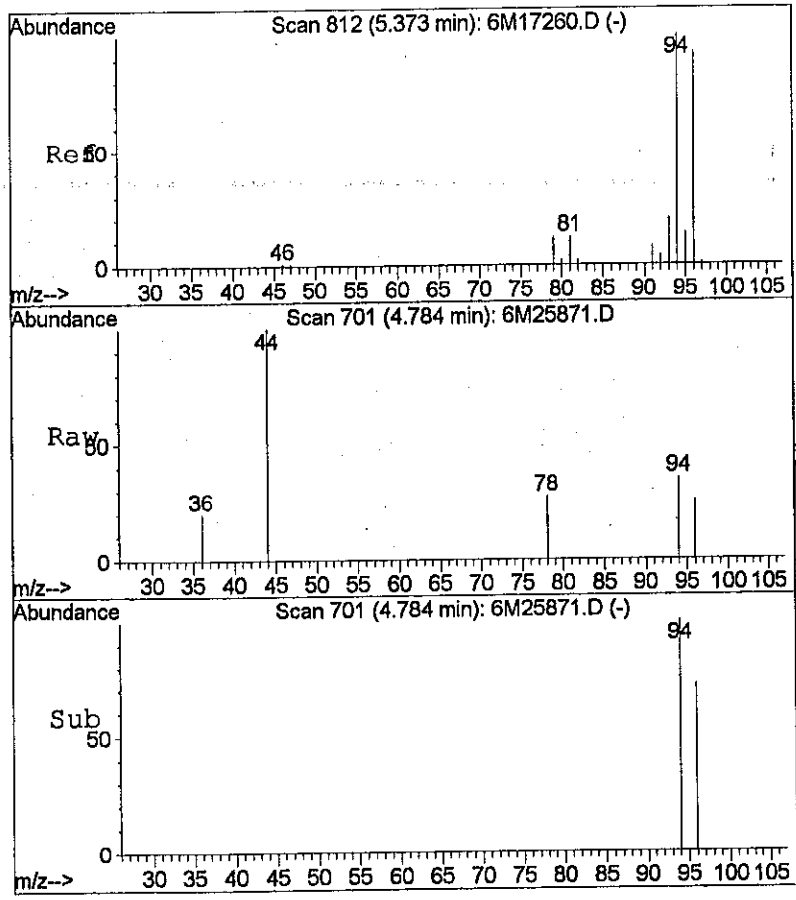


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.65 min Scan# 485
Delta R.T. 0.00 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 50 Resp: 3637

Ion	Ratio	Lower	Upper
50	100		
52	18.9	25.9	38.9#

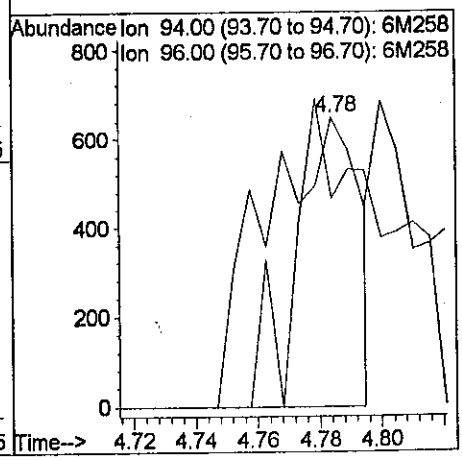


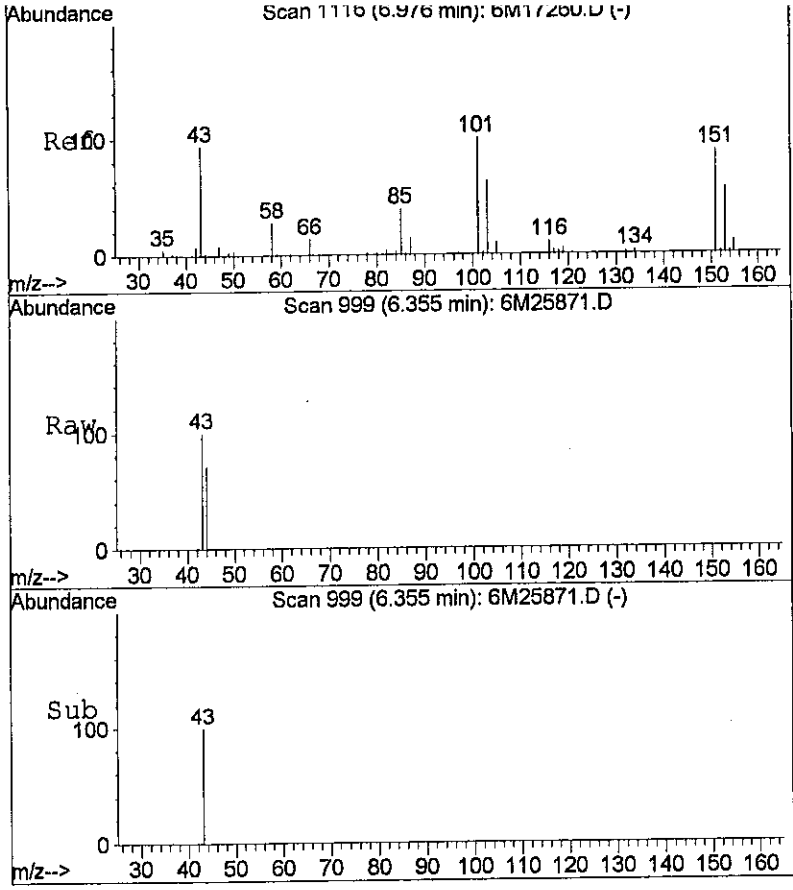


#5
Bromomethane
Concen: 0.16 ug/L
RT: 4.78 min Scan# 701
Delta R.T. 0.02 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 94 Resp: 1374

Ion	Ratio	Lower	Upper
94	100		
96	104.1	75.1	112.7

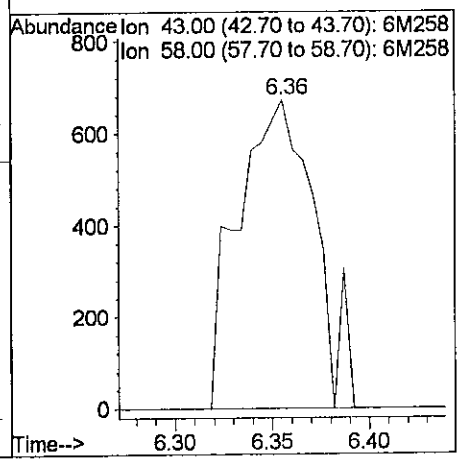


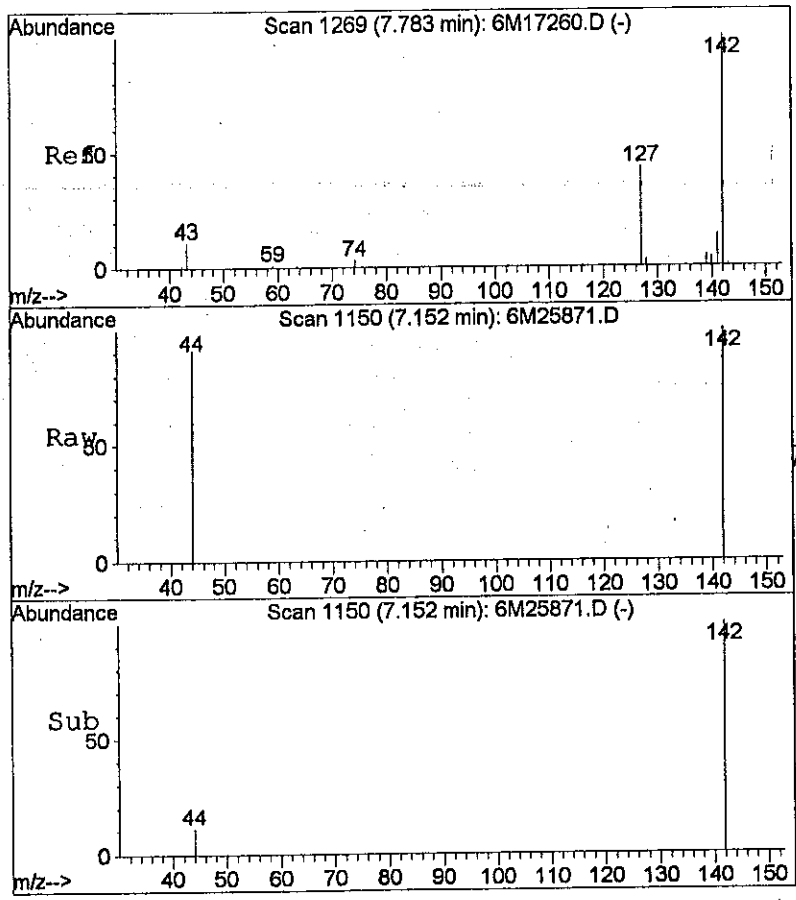


#11
Acetone
Concen: 1.33 ug/L
RT: 6.36 min Scan# 999
Delta R.T. 0.01 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 43 Resp: 1849

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

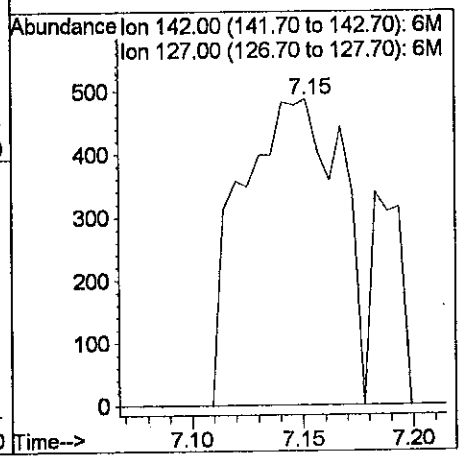


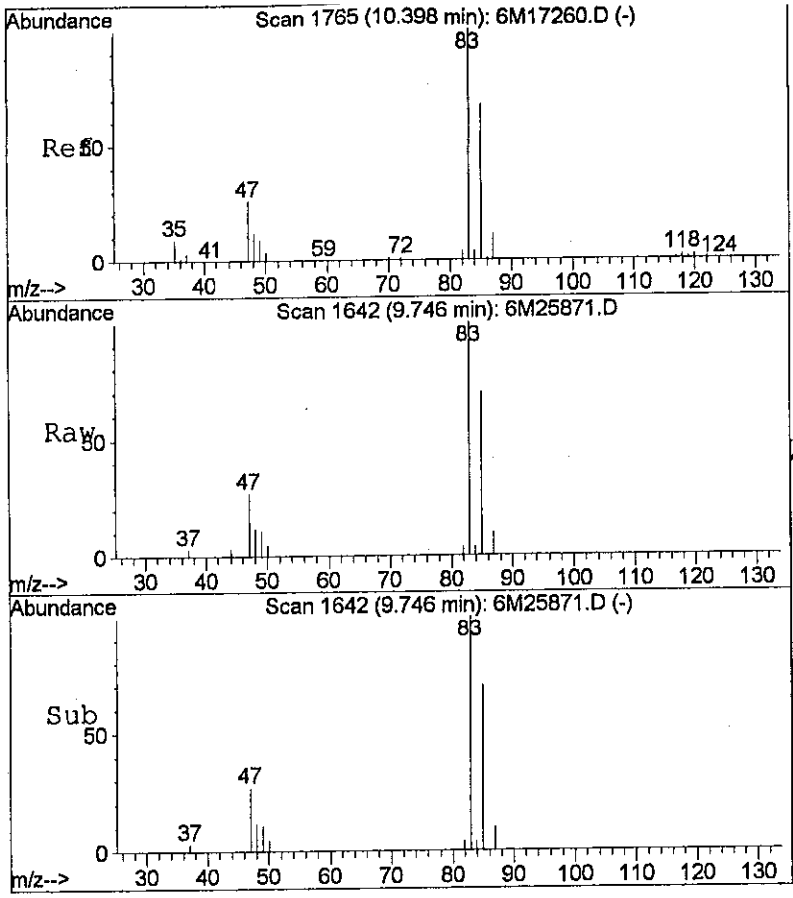


#14
Iodomethane
Concen: 3.19 ug/L
RT: 7.15 min Scan# 1150
Delta R.T. 0.04 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion:142 Resp: 1519

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.4	53.0#

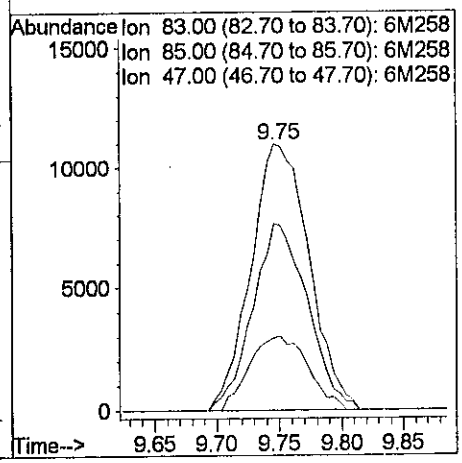


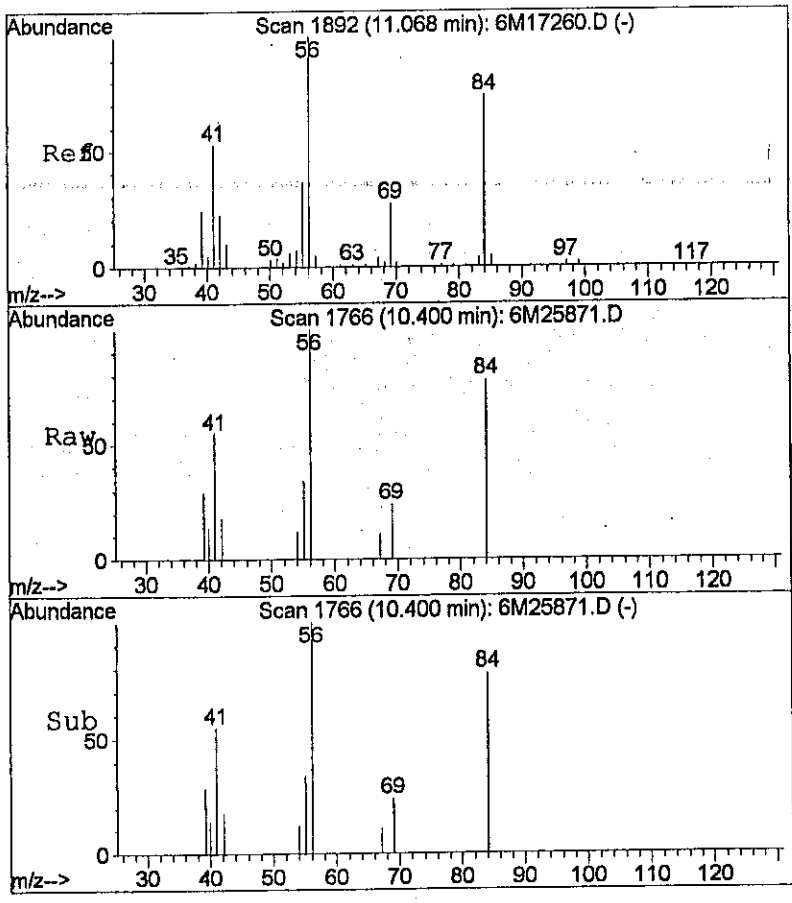


#26
Chloroform
Concen: 1.29 ug/L
RT: 9.75 min Scan# 1642
Delta R.T. -0.01 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 83 Resp: 35155

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.2	78.2
47	28.0	21.1	31.7

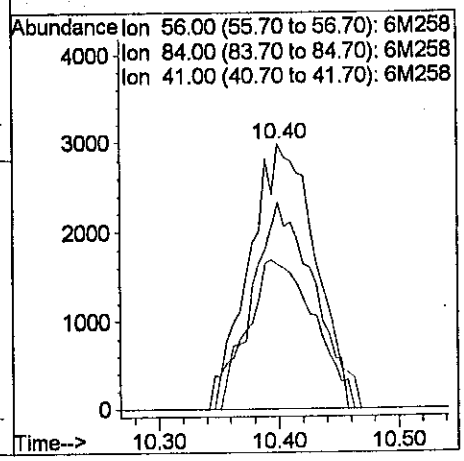


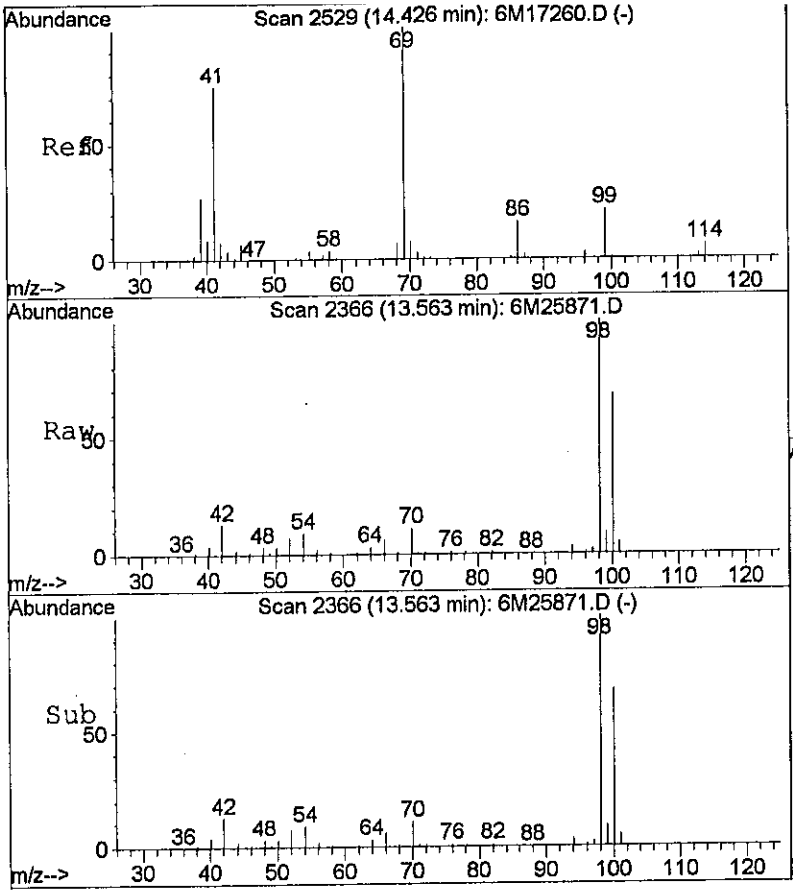


#30
Cyclohexane
Concen: 0.38 ug/L
RT: 10.40 min Scan# 1766
Delta R.T. -0.01 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 56 Resp: 11523

Ion	Ratio	Lower	Upper
56	100		
84	70.4	64.3	96.5
41	57.5	45.2	67.8

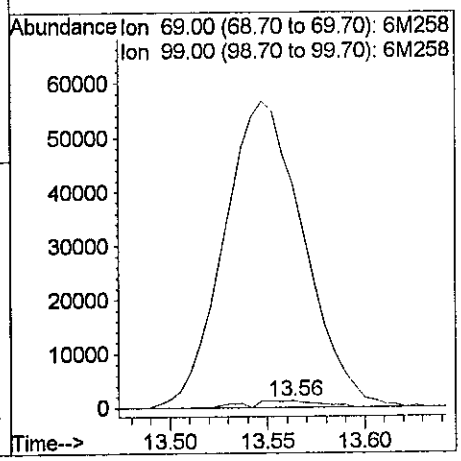


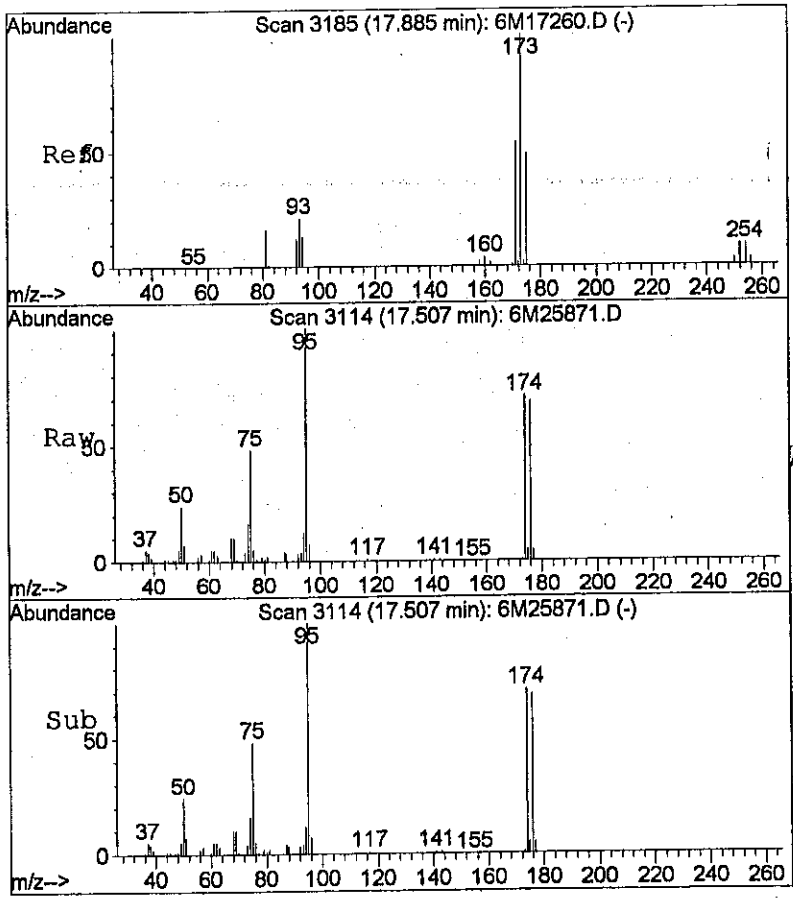


#47
Ethyl Methacrylate
Concen: 0.33 ug/L
RT: 13.56 min Scan# 2366
Delta R.T. -0.24 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion: 69 Resp: 3150

Ion	Ratio	Lower	Upper
69	100		
99	5111.6	16.6	24.8#

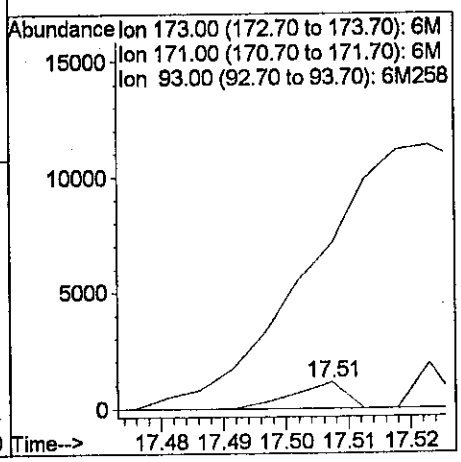


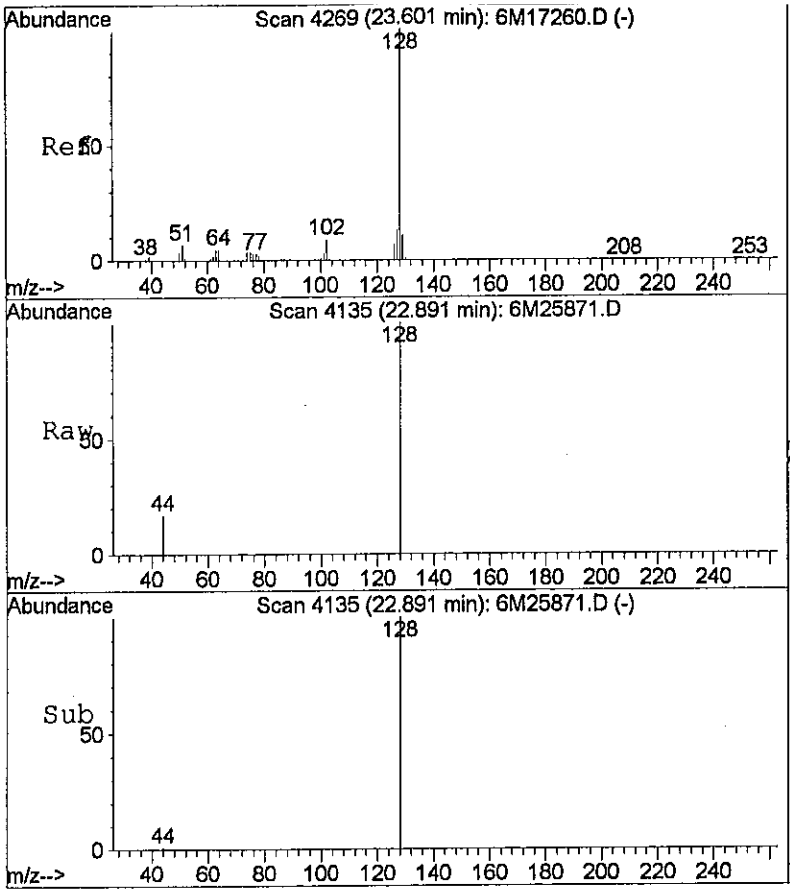


#62
Bromoform
Concen: 1.55 ug/L
RT: 17.51 min Scan# 3114
Delta R.T. 0.30 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion:173 Resp: 678

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	0.0	18.2	27.2#

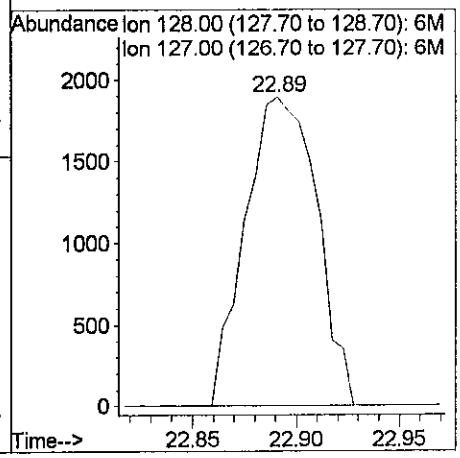




#86
Naphthalene
Concen: 0.18 ug/L
RT: 22.89 min Scan# 4135
Delta R.T. 0.00 min
Lab File: 6M25871.D
Acq: 22 May 2001 23:46

Tgt Ion:128 Resp: 4543

Ion	Ratio	Lower	Upper
128	100		
127	0.0	7.1	10.7#

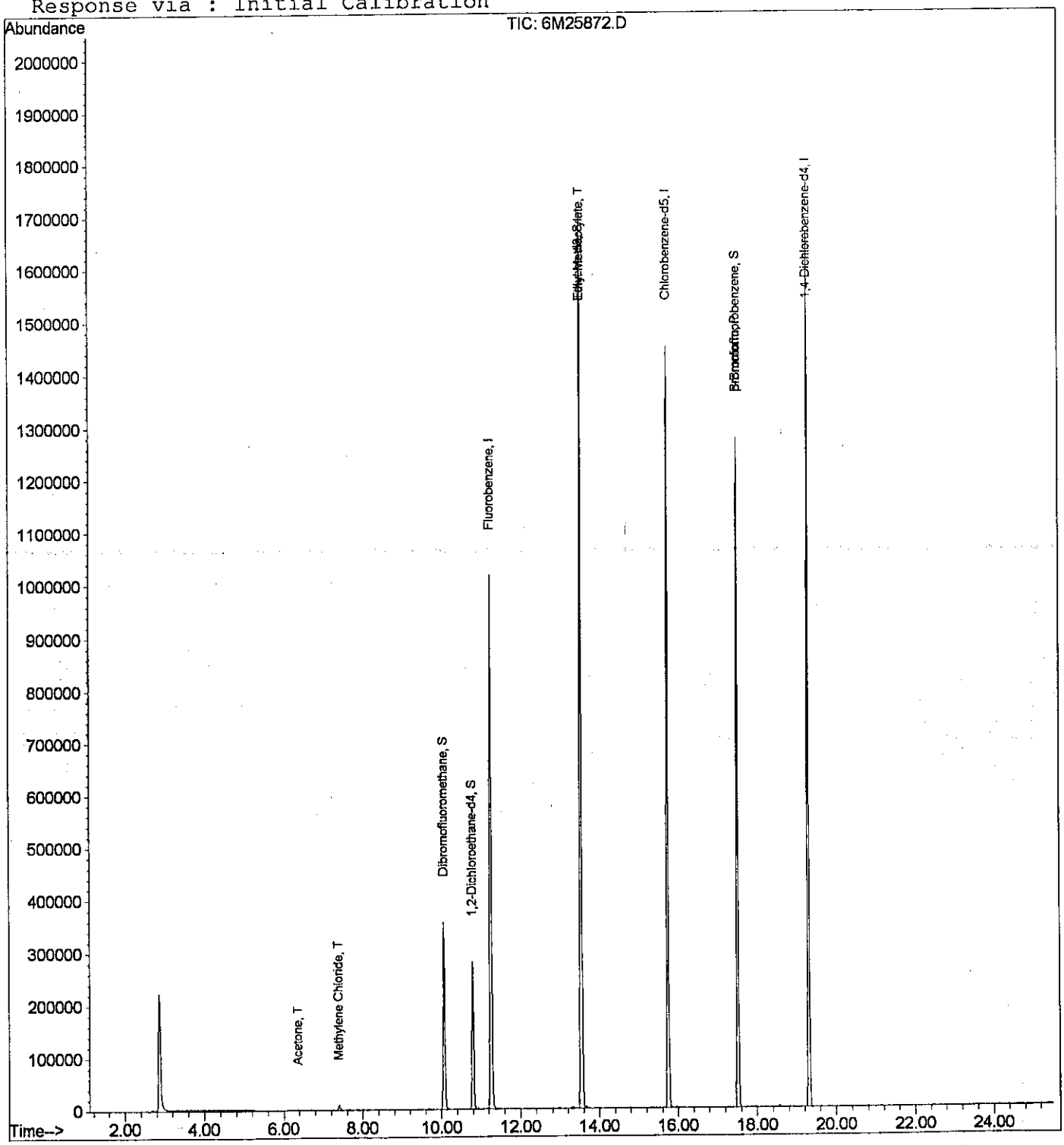


Data File : C:\HPCHEM\1\DATA\052201\6M25872.D
Acq On : 23 May 2001 00:19
Sample : L0105404-12 A 826-SPE-VO 00
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:48 19101

Vial: 8
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\6M25872.D
Acq On : 23 May 2001 00:19
Sample : L0105404-12 A 826-SPE-VO 00
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:48 19101

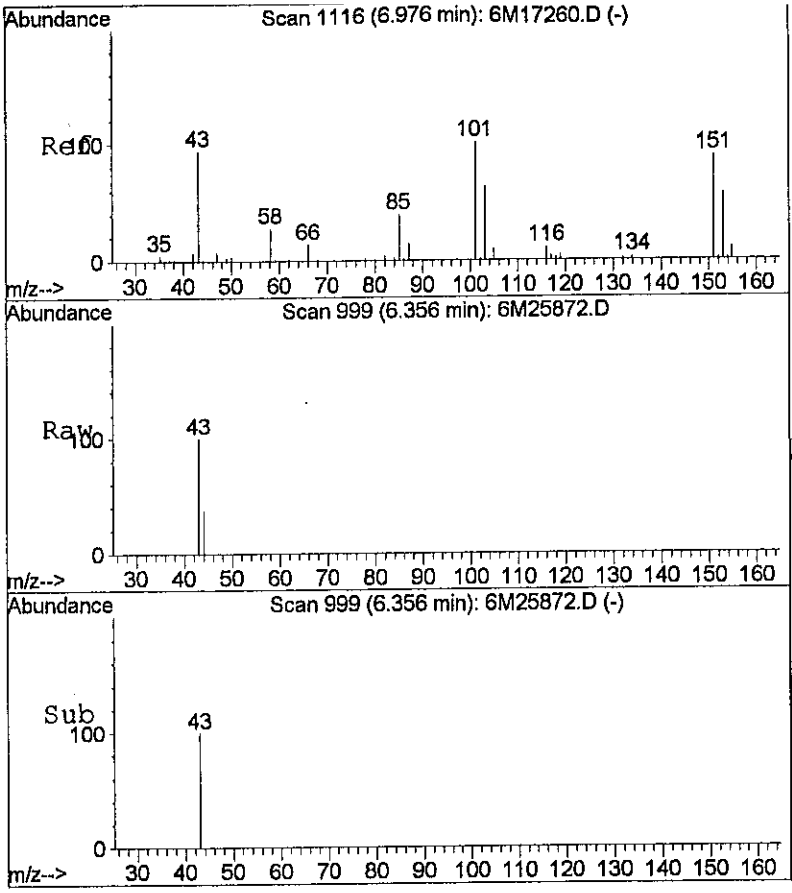
Vial: 8
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1404228	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1224377	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	651077	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	364035	23.58	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.32%			
33) 1,2-Dichloroethane-d4	10.80	65	294405	22.88	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 91.52%			
45) Toluene-d8	13.55	98	1748229	24.62	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.48%			
66) p-Bromofluorobenzene	17.52	95	640264	25.28	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.12%			
Target Compounds						Qvalue
11) Acetone	6.36	43	3416	2.50	ug/L #	46
15) Methylene Chloride	7.41	84	6233	0.45	ug/L F	85
47) Ethyl Methacrylate	13.56	69	3255	0.35	ug/L #	1
62) Bromoform	17.52	173	535	1.53	ug/L #	1

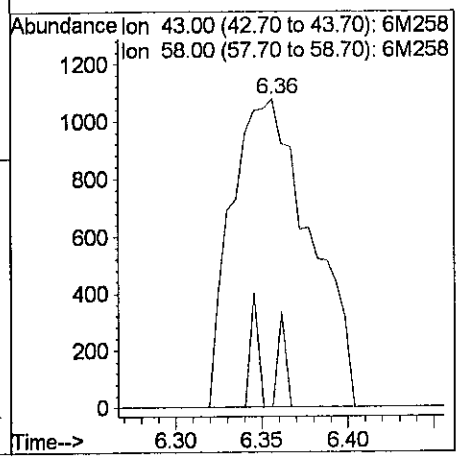
(#) = qualifier out of range (m) = manual integration
6M25872.D 8260WTR.M Thu May 24 15:49:00 2001

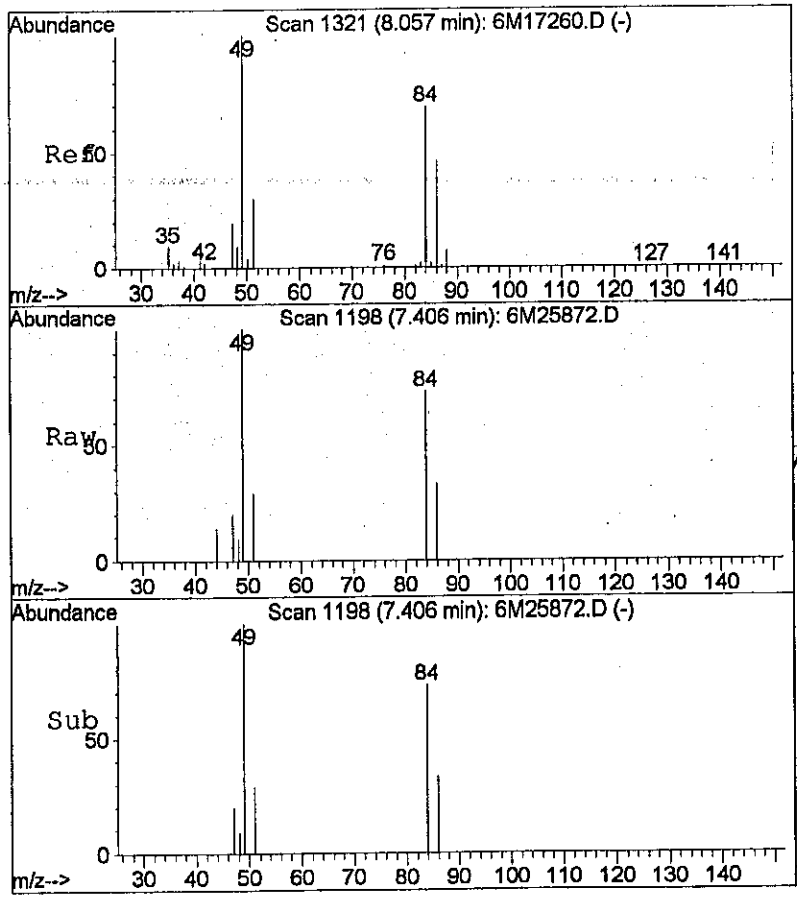


#11
Acetone
Concen: 2.50 ug/L
RT: 6.36 min Scan# 999
Delta R.T. 0.01 min
Lab File: 6M25872.D
Acq: 23 May 2001 00:19

Tgt Ion: 43 Resp: 3416

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

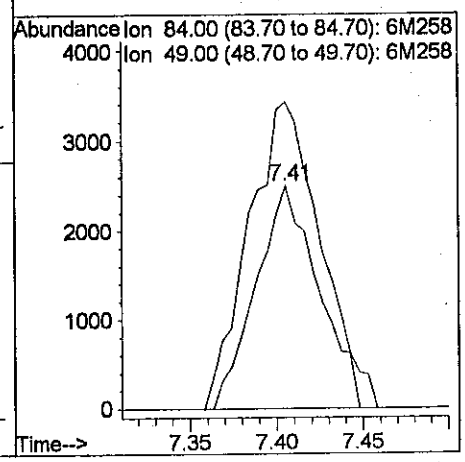


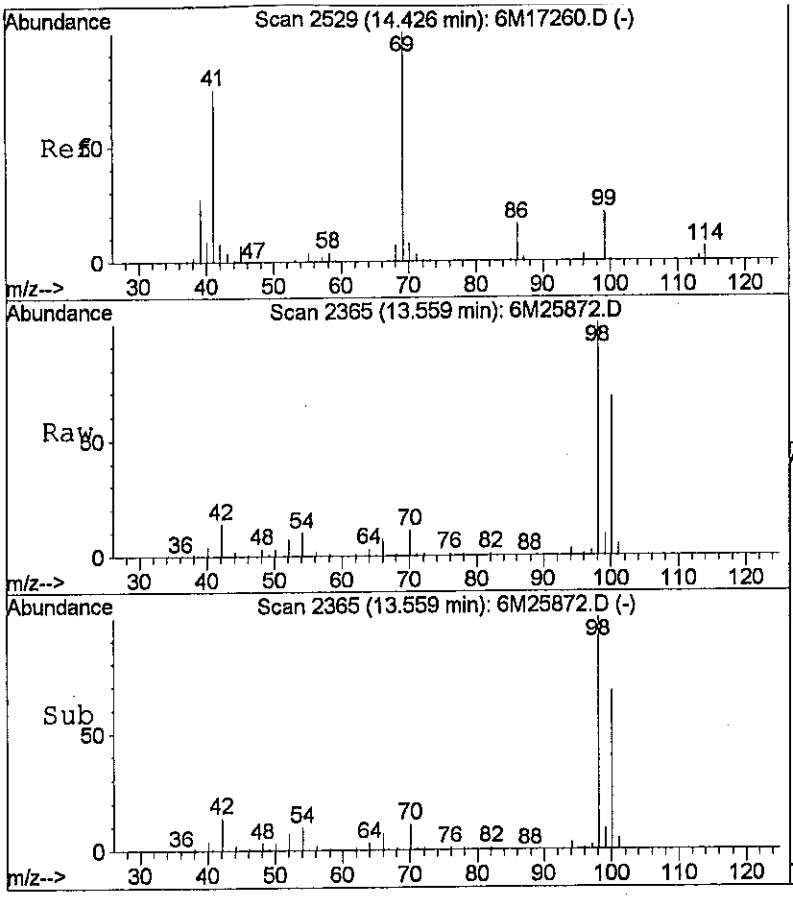


#15
Methylene Chloride
Concen: 0.45 ug/L
RT: 7.41 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 6M25872.D
Acq: 23 May 2001 00:19

Tgt Ion: 84 Resp: 6233

Ion	Ratio	Lower	Upper
84	100		
49	159.6	112.8	169.2

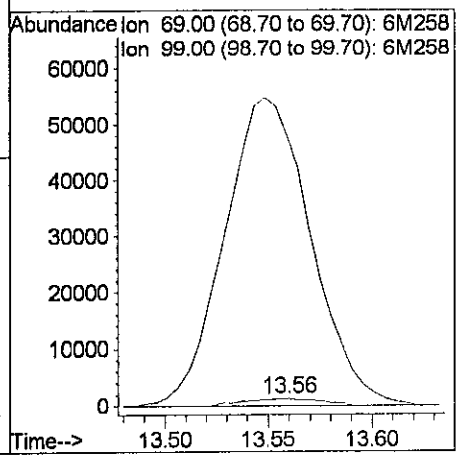


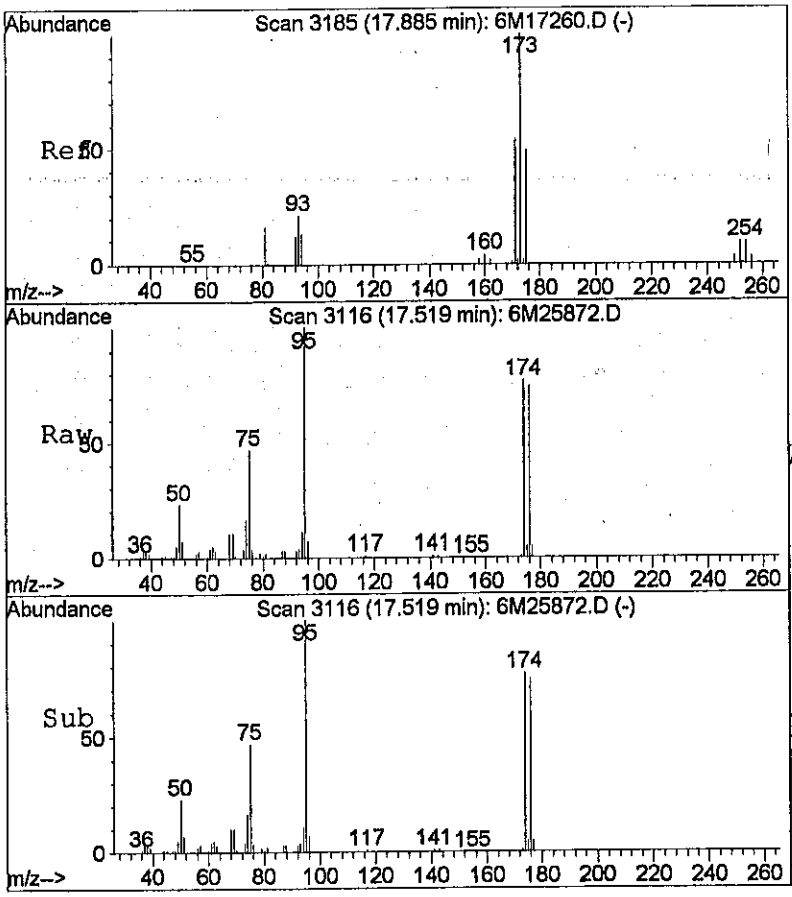


#47
Ethyl Methacrylate
Concen: 0.35 ug/L
RT: 13.56 min Scan# 2365
Delta R.T. -0.25 min
Lab File: 6M25872.D
Acq: 23 May 2001 00:19

Tgt Ion: 69 Resp: 3255

Ion	Ratio	Lower	Upper
69	100		
99	4837.9	16.6	24.8#

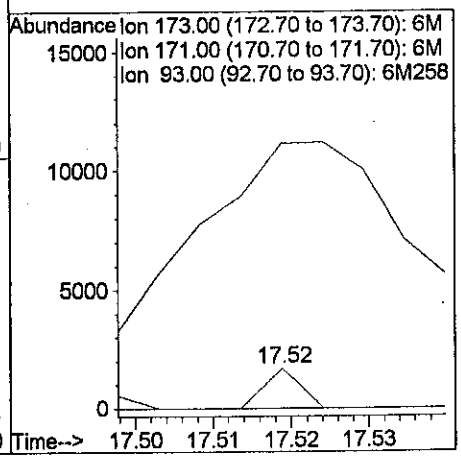




#62
Bromoform
Concen: 1.53 ug/L
RT: 17.52 min Scan# 3116
Delta R.T. 0.31 min
Lab File: 6M25872.D
Acq: 23 May 2001 00:19

Tgt Ion:173 Resp: 535

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	4779.1	18.2	27.2#



2.1.1.3 Standards Data

Method: 8260SOIL.M

Title: Method 8260B Soil Analysis 05/11/2001 - HPMS 9

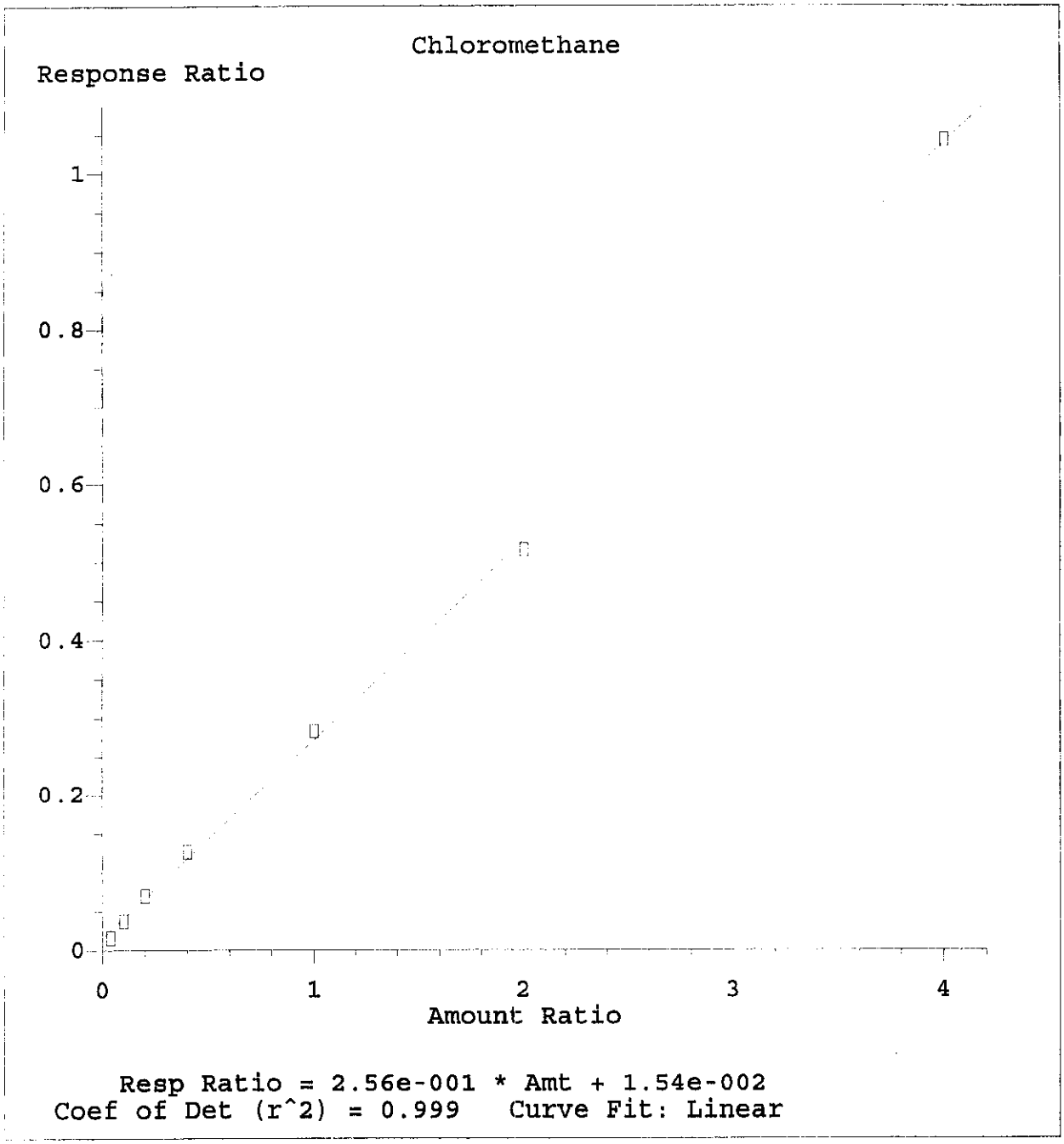
Last Calibration: Fri May 11 16:48:37 2001

Calibration Files

		1	2	5	10	20	200	50	100			
		9M15556.D	9M15557.D	9M15558.D	9M15559.D	9M15560.D	9M15563.D	9M15561.D	9M15562.D			
	Compound									Avg	%RSD	
I	Fluorobenzene	ISTD										
T	Dichlorodifluoromethane			0.713	0.685	0.621	0.512	0.595	0.555	0.614	12.426	
P	Chloromethane		0.396	0.376	0.350	0.315	0.261	0.283	0.258	0.320	17.336	LR r2=.999
C	Vinyl Chloride		0.333	0.296	0.288	0.249	0.173	0.229	0.217	0.255	21.268	QR r2=1.000
T	Bromomethane			0.174	0.162	0.147	0.120	0.141	0.129	0.145	13.910	
T	Chloroethane			0.157	0.154	0.146	0.122	0.134	0.128	0.140	10.194	
T	Trichlorofluoromethane		0.955	0.830	0.826	0.753	0.623	0.707	0.669	0.766	14.763	
T	Isoprene		0.340	0.353	0.335	0.360	0.403	0.388	0.401	0.368	7.740	
T	Acrolein			0.023	0.022	0.022	0.029	0.026	0.027	0.025	12.744	
T	1,1,2-Trichloro-1,2,2-Trifluoroet			0.376	0.366	0.343	0.303	0.331	0.316	0.339	8.394	
T	Acetone			0.120	0.089	0.073	0.062	0.071	0.064	0.080	27.358	LR r2=1.000
C	1,1-Dichloroethene		0.263	0.237	0.259	0.253	0.272	0.272	0.274	0.261	5.115	
T	Dimethyl Sulfide			0.140	0.178	0.193	0.227	0.214	0.225	0.196	17.023	LR r2=1.000
T	Iodomethane				0.135	0.159	0.189	0.174	0.188	0.169	13.528	
T	Methylene Chloride		0.343	0.295	0.280	0.256	0.252	0.254	0.252	0.276	12.285	
T	Carbon Disulfide	0.812	1.004	0.947	0.973	0.950	0.953	0.945	0.964	0.944	6.007	
T	Acrylonitrile			0.054	0.053	0.055	0.065	0.058	0.062	0.058	8.411	
T	Methyl Tert Butyl Ether			0.419	0.515	0.544	0.645	0.605	0.631	0.560	15.225	LR r2=1.000
T	trans-1,2-Dichloroethene	0.252	0.306	0.295	0.296	0.298	0.311	0.309	0.310	0.297	6.499	
T	n-Hexane			0.369	0.409	0.441	0.471	0.479	0.486	0.442	10.409	
T	Vinyl Acetate		0.172	0.220	0.259	0.296	0.381	0.349	0.364	0.292	26.922	LR r2=.999
P	1,1-Dichloroethane	0.566	0.612	0.575	0.585	0.561	0.553	0.576	0.563	0.574	3.207	
T	2-Butanone			0.065	0.063	0.069	0.085	0.081	0.081	0.074	12.717	
T	2,2-Dichloropropane		0.555	0.534	0.553	0.528	0.549	0.567	0.564	0.550	2.633	
T	cis-1,2-Dichloroethene		0.242	0.247	0.270	0.283	0.310	0.304	0.310	0.281	10.296	
C	Chloroform	0.592	0.670	0.608	0.620	0.585	0.562	0.583	0.570	0.599	5.750	
T	Bromochloromethane		0.118	0.116	0.115	0.113	0.119	0.117	0.118	0.116	1.842	
S	Dibromofluoromethane		0.344	0.333	0.327	0.312	0.279	0.290	0.286	0.310	8.170	
T	1,1,1-Trichloroethane		0.695	0.628	0.646	0.613	0.587	0.627	0.608	0.629	5.462	
T	Cyclohexane			0.392	0.445	0.493	0.530	0.520	0.536	0.486	11.680	
T	1,1-Dichloropropene	0.318	0.355	0.400	0.441	0.442	0.468	0.476	0.476	0.422	14.003	
T	Carbon Tetrachloride	0.498	0.601	0.560	0.568	0.529	0.510	0.539	0.530	0.542	6.179	
S	1,2-Dichloroethane-d4			0.434	0.412	0.388	0.326	0.358	0.338	0.376	11.366	
T	1,2-Dichloroethane	0.450	0.520	0.476	0.476	0.451	0.408	0.444	0.425	0.456	7.581	
T	Benzene	0.947	0.994	1.030	1.114	1.085	1.147	1.136	1.142	1.074	7.038	
T	Trichloroethene	0.232	0.283	0.260	0.276	0.274	0.304	0.295	0.301	0.278	8.625	
C	1,2-Dichloropropane	0.230	0.255	0.239	0.259	0.250	0.272	0.266	0.270	0.255	5.816	
T	Bromodichloromethane	0.386	0.425	0.403	0.415	0.404	0.407	0.411	0.407	0.407	2.771	
T	Dibromomethane	0.149	0.166	0.155	0.155	0.149	0.145	0.146	0.144	0.151	4.874	
T	2-Chloroethyl Vinyl Ether			0.025	0.033	0.050	0.106	0.076	0.091	0.063	51.477	QR r2=1.000
T	4-Methyl-2-Pentanone			0.045	0.049	0.062	0.082	0.071	0.072	0.063	22.707	LR r2=.997
T	cis-1,3-Dichloropropene		0.301	0.299	0.352	0.37	0.441	0.418	0.433	0.3736	15.975	LR r2=1.000
T	Dimethyl Disulfide			0.117	0.149	0.185	0.249	0.225	0.24	0.1942	27.438	LR r2=1.000
I	Chlorobenzene-d5	ISTD										
S	Toluene-d8		1.295	1.466	1.587	1.575	1.516	1.554	1.572	1.5092	6.8513	
C	Toluene	1.213	1.412	1.479	1.697	1.671	1.792	1.792	1.815	1.609	13.573	
T	Ethyl Methacrylate			0.241	0.286	0.31	0.391	0.351	0.367	0.3244	17.229	LR r2=.999
T	trans-1,3-Dichloropropene	0.399	0.468	0.479	0.539	0.547	0.591	0.592	0.594	0.5261	13.541	
T	1,1,2-Trichloroethane	0.247	0.285	0.273	0.288	0.277	0.297	0.298	0.292	0.2819	5.9187	
T	2-Hexanone			0.17	0.165	0.159	0.209	0.19	0.196	0.1815	10.871	
T	1,3-Dichloropropane	0.417	0.446	0.467	0.481	0.477	0.519	0.513	0.514	0.4793	7.5463	
T	Tetrachloroethene	0.314	0.331	0.331	0.351	0.337	0.359	0.367	0.368	0.3448	5.6838	

T	1-Chlorohexane		0.347	0.379	0.486	0.544	0.635	0.608	0.642	0.5201	23.221	LR r2=1.000
P	Chlorobenzene	1.113	1.176	1.095	1.13	1.074	1.102	1.113	1.105	1.1134	2.7087	
T	1,1,1,2-Tetrachloroethane	0.406	0.402	0.38	0.407	0.383	0.394	0.41	0.4	0.3978	2.7697	
C	Ethylbenzene	0.499	0.589	0.581	0.627	0.61	0.641	0.656	0.645	0.6059	8.3826	
T	m-,p-Xylene	0.567	0.691	0.709	0.802	0.776	0.812	0.812	0.816	0.7481	11.746	
T	o-Xylene			0.527	0.657	0.692	0.767	0.75	0.757	0.6918	13.19	
T	Styrene		0.843	0.934	1.133	1.133	1.288	1.231	1.253	1.1167	15.067	LR r2=1.000
P	Bromoform		0.219	0.2	0.229	0.22	0.267	0.248	0.249	0.233	9.7309	
T	Isopropylbenzene			1.529	1.849	1.944	2.222	2.136	2.188	1.9781	13.338	
I	1,4-Dichlorobenzene-d4	ISTD										
P	1,1,2,2-Tetrachloroethane	0.516	0.655	0.554	0.554	0.549	0.643	0.584	0.586	0.5602	8.271	
S	p-Bromofluorobenzene			1.049	1.033	1.02	1.058	1.017	1.032	1.0348	1.5716	
T	1,2,3-Trichloropropane	0.132	0.201	0.187	0.185	0.178	0.201	0.188	0.183	0.1818	11.962	
T	trans-1,4-Dichloro-2-Butene			0.138	0.156	0.161	0.206	0.181	0.184	0.171	14.151	
T	n-Propylbenzene		3.384	3.681	4.331	4.369	4.917	4.641	4.714	4.2912	13.103	
T	Bromobenzene	0.588	0.748	0.717	0.753	0.759	0.824	0.782	0.783	0.7441	9.468	
T	1,3,5-Trimethylbenzene		2.066	2.203	2.659	2.729	3.175	2.961	3.011	2.6864	15.507	LR r2=.999
T	2-Chlorotoluene	2.091	2.481	2.499	2.9	2.634	3.024	2.917	2.739	2.6607	11.405	
T	4-Chlorotoluene	1.848	2.428	2.571	2.673	2.751	2.885	2.724	2.712	2.5741	12.527	
T	a-Methylstyrene		0.876	0.909	1.194	1.252	1.663	1.446	1.506	1.2636	23.55	LR r2=.998
T	tert-Butylbenzene		2.012	2.56	3.082	2.92	3.182	3.176	3.047	2.8542	15.005	LR r2=1.000
T	1,2,4-Trimethylbenzene		2.515	2.714	2.969	2.954	3.228	3.071	3.069	2.9313	8.2347	
T	sec-Butylbenzene		2.924	3.126	3.588	3.651	4.282	4.013	4.03	3.6591	13.568	
T	p-Isopropyltoluene			2.449	3.03	3.152	3.64	3.409	3.411	3.1819	13.145	
T	1,3-Dichlorobenzene	1.347	1.426	1.404	1.432	1.422	1.448	1.506	1.506	1.4364	3.6417	
T	1,4-Dichlorobenzene	1.486	1.711	1.511	1.497	1.445	1.439	1.531	1.512	1.5166	5.6122	
T	n-Butylbenzene	2.311	2.679	2.741	3.134	3.149	3.279	3.421	3.418	3.0165	13.22	
T	1,2-Dichlorobenzene	1.114	1.287	1.207	1.291	1.277	1.278	1.348	1.33	1.2665	5.8733	
T	1,2-Dibromo-3-Chloropropane		0.112	0.101	0.092	0.102	0.128	0.124	0.122	0.1115	12.337	
T	1,2,4-Trichlorobenzene	0.85	0.963	0.902	0.933	0.95	0.981	1.073	1.057	0.9636	7.7329	
T	Hexachlorobutadiene	0.668	0.776	0.679	0.752	0.722	0.719	0.766	0.753	0.7295	5.445	
T	Naphthalene	1.327	1.48	1.387	1.513	1.592	1.754	1.849	1.821	1.5904	12.481	
T	1,2,3-Trichlorobenzene	0.85	0.963	0.902	0.933	0.95	0.981	1.073	1.057	0.9636	7.7329	

Fri May 11 16:49:20 2001



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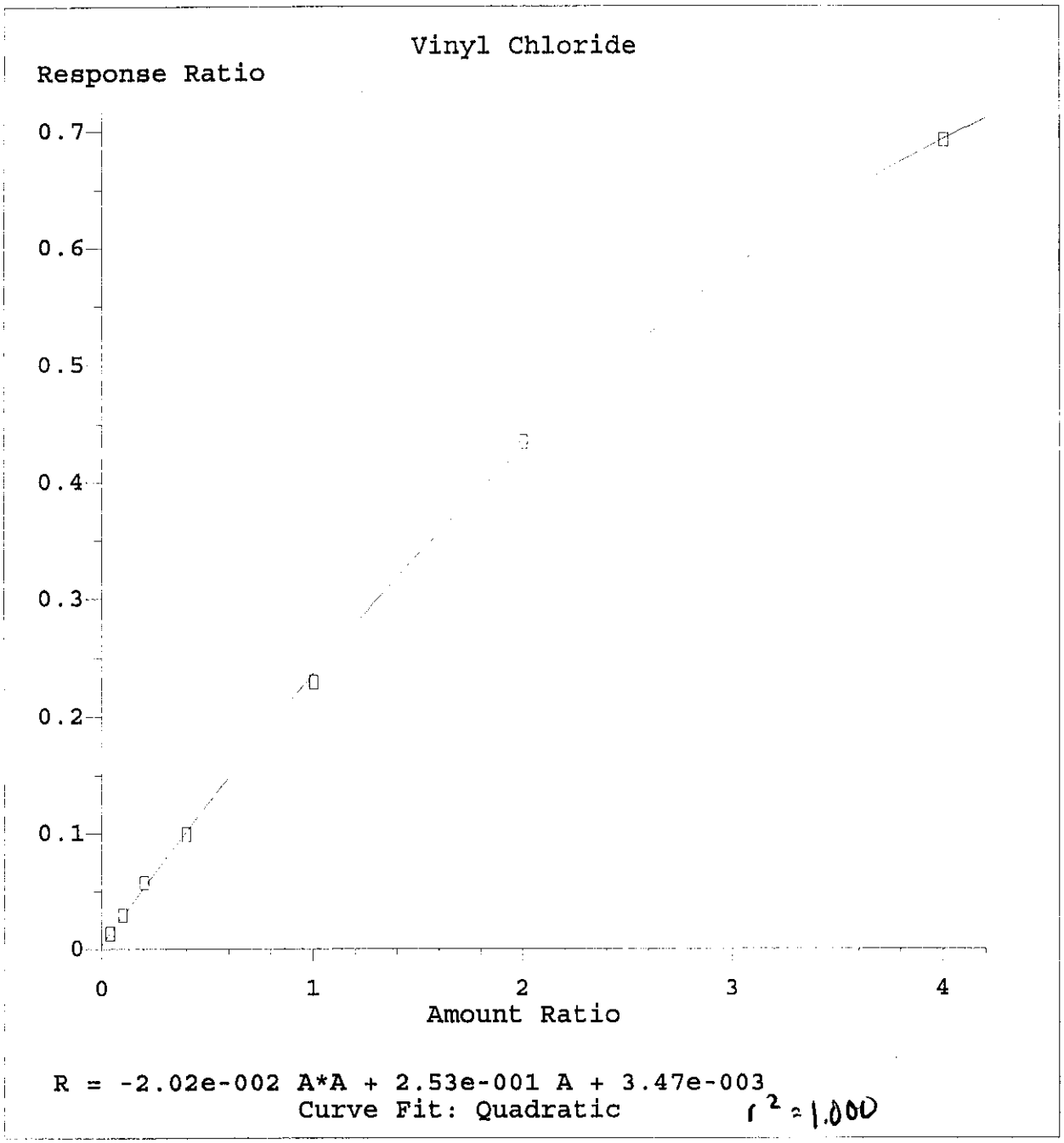
Calibration Table Last Updated: Fri May 11 16:29:27 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:30:10 2001

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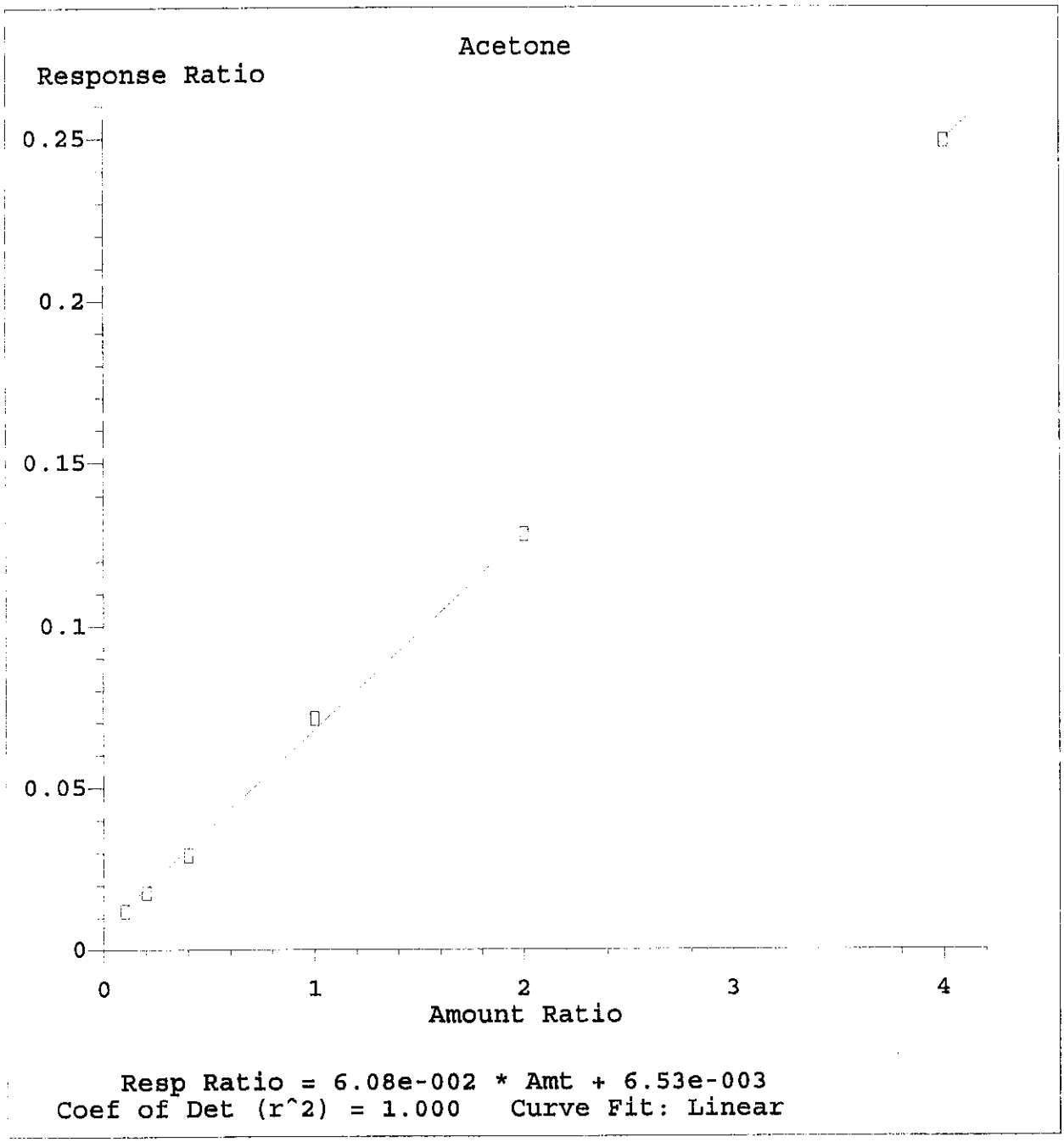
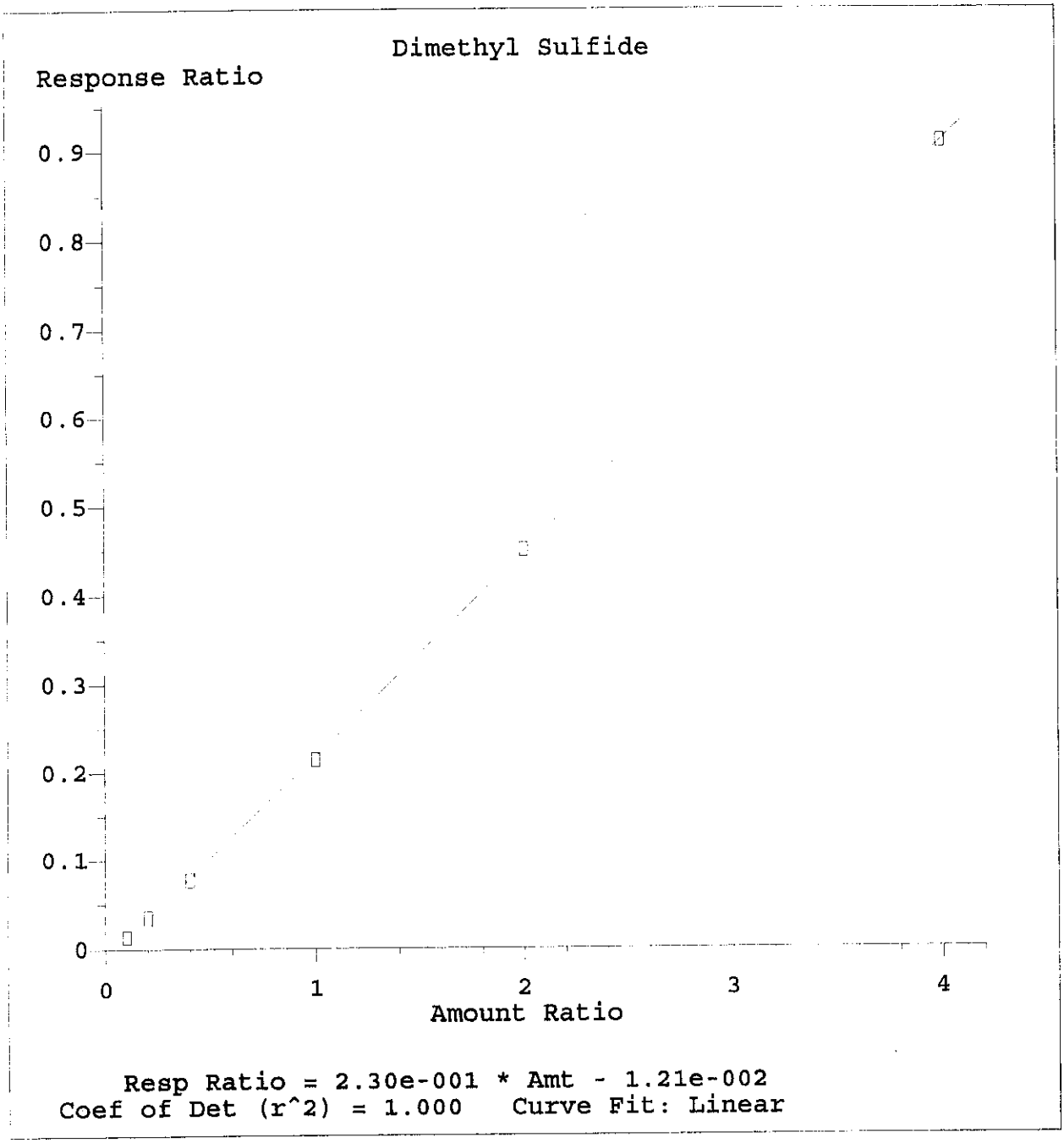
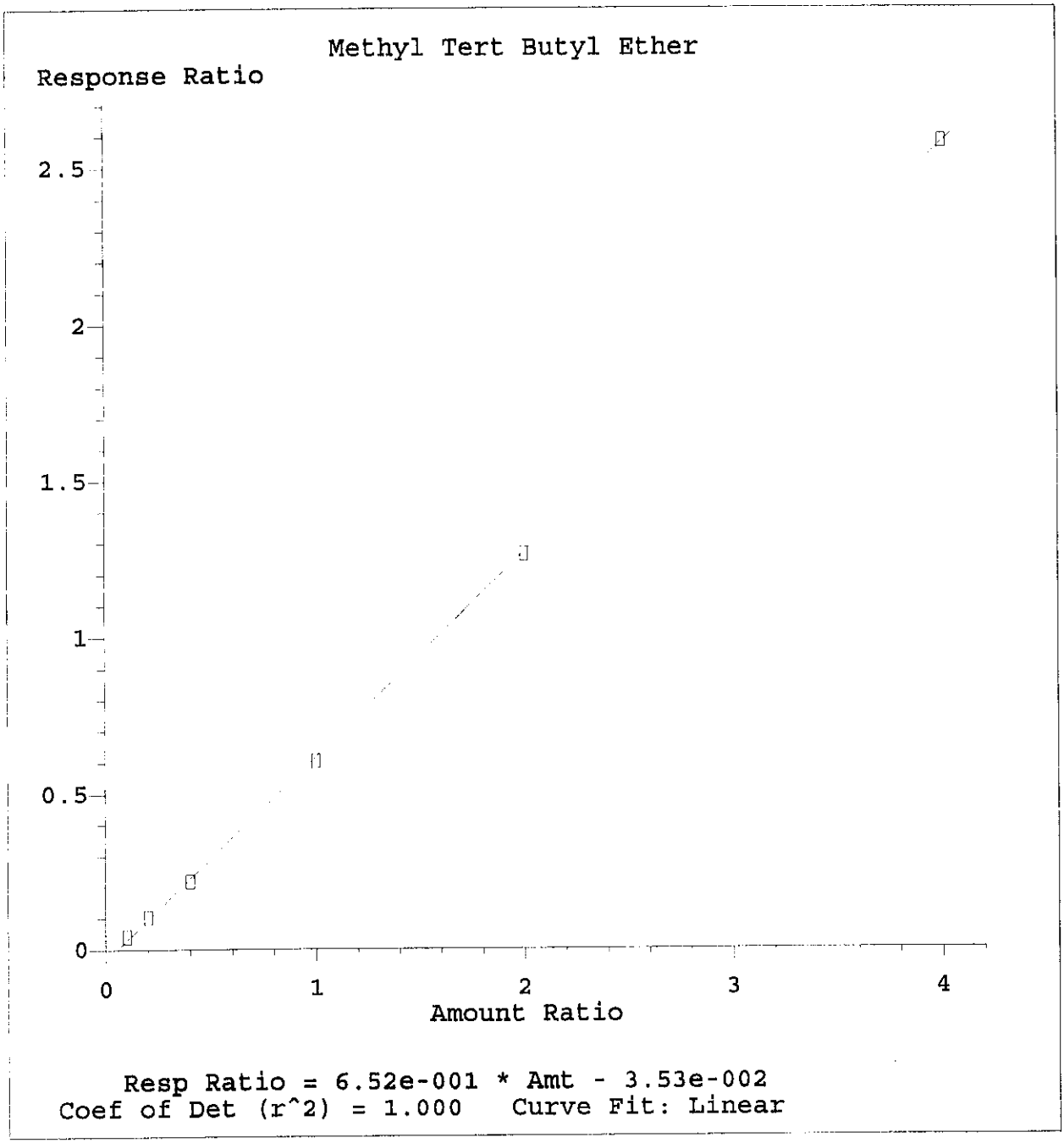


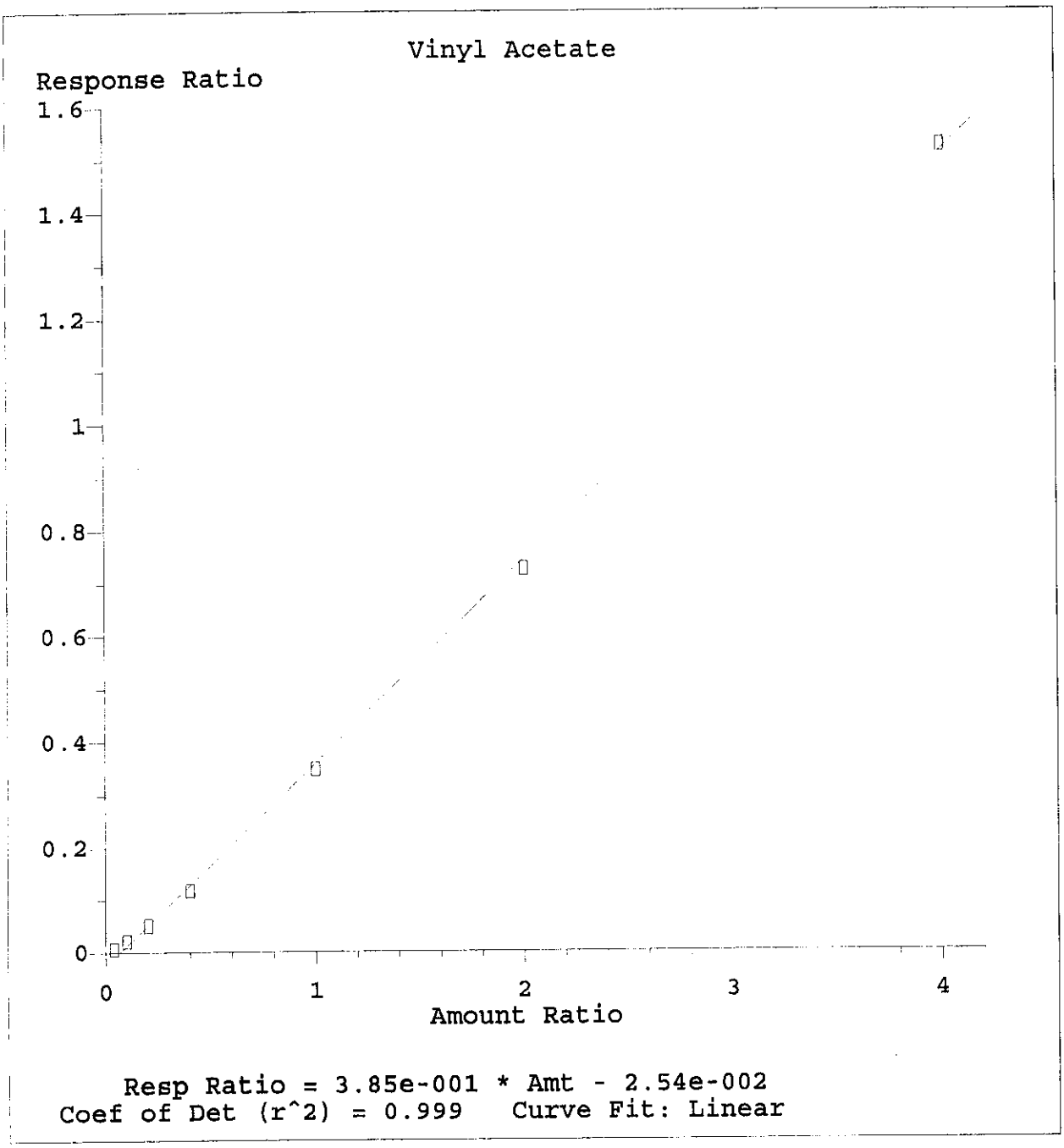
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:32:12 2001



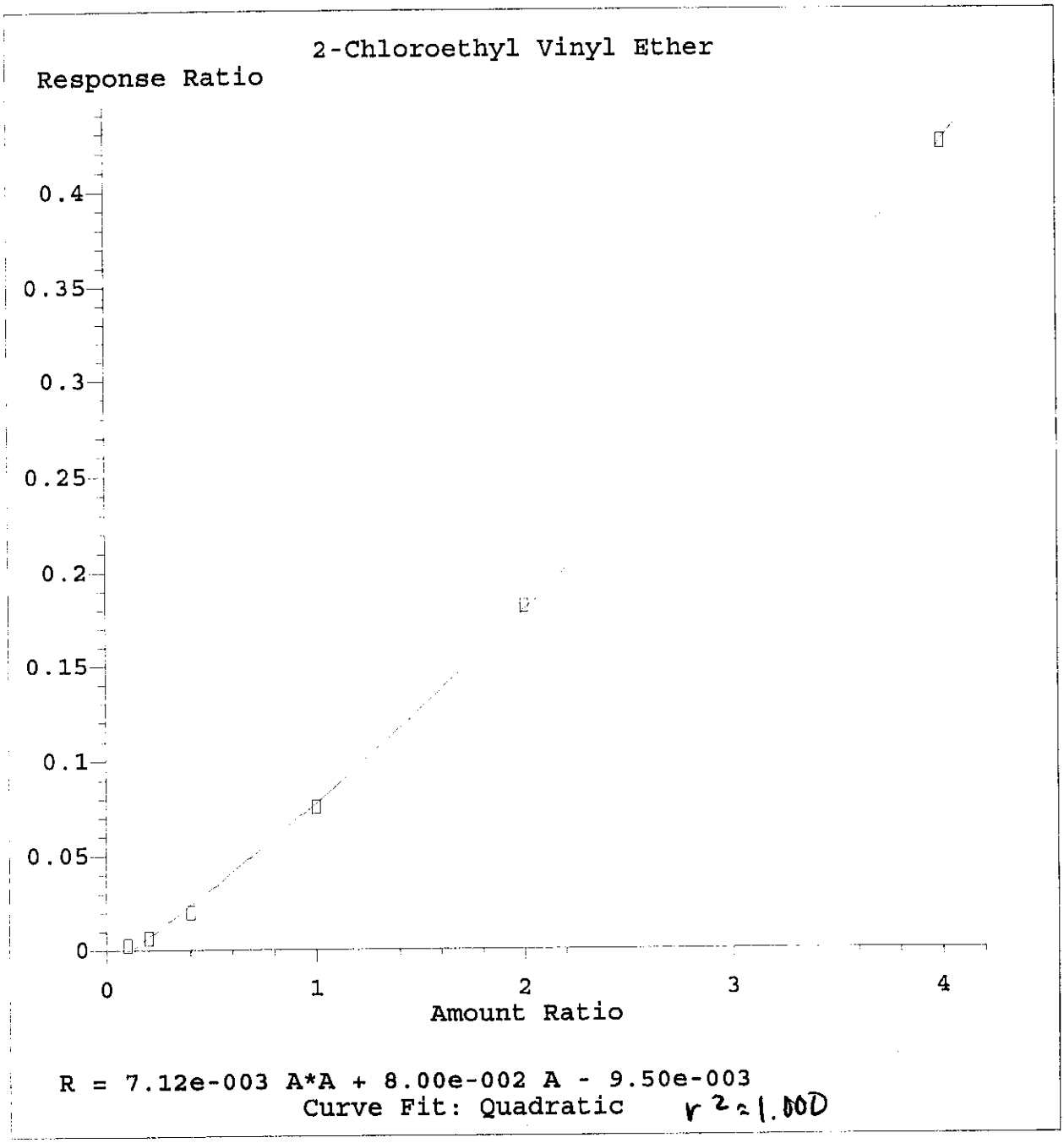
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:33:58 2001



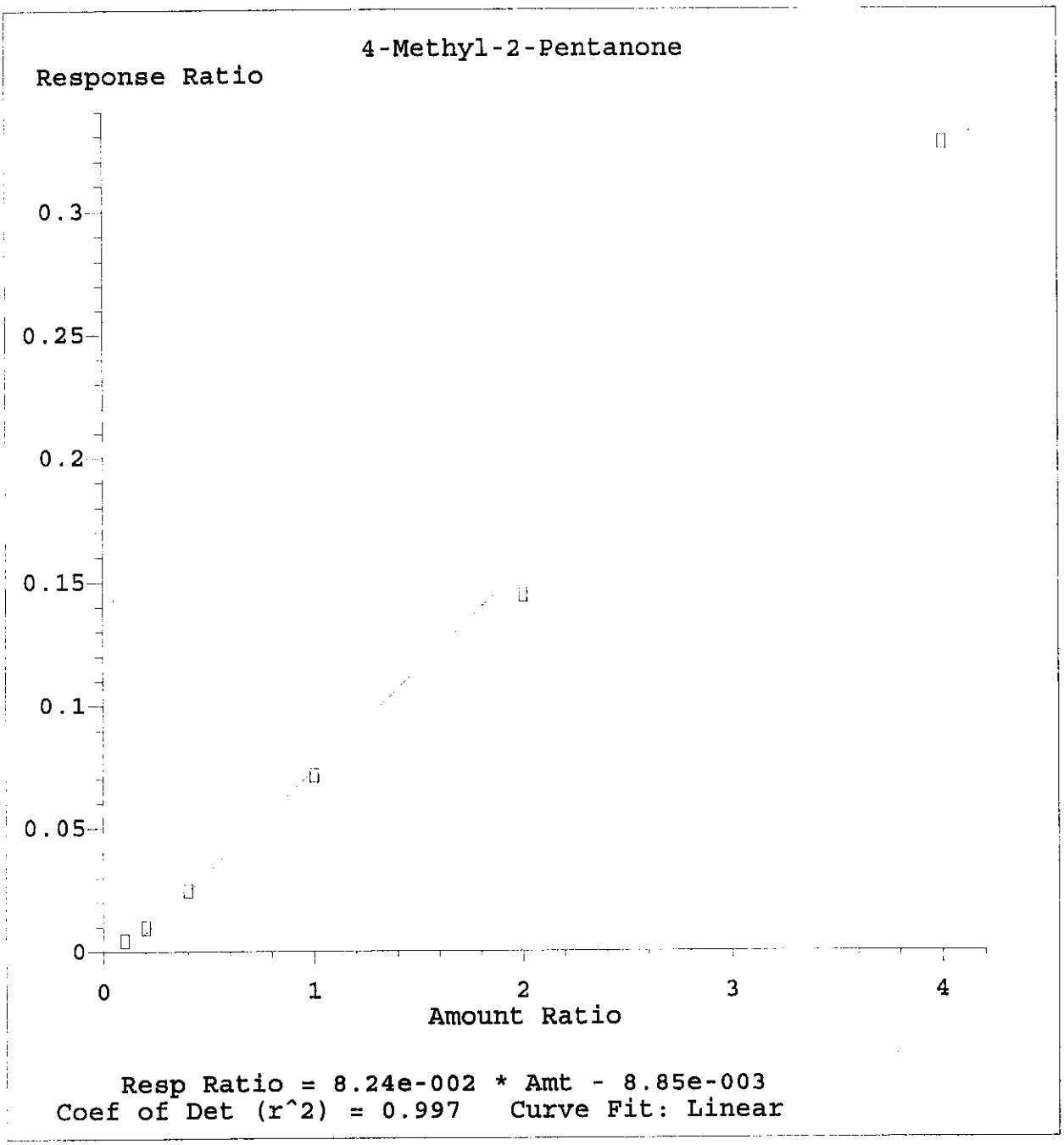
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:37:23 2001



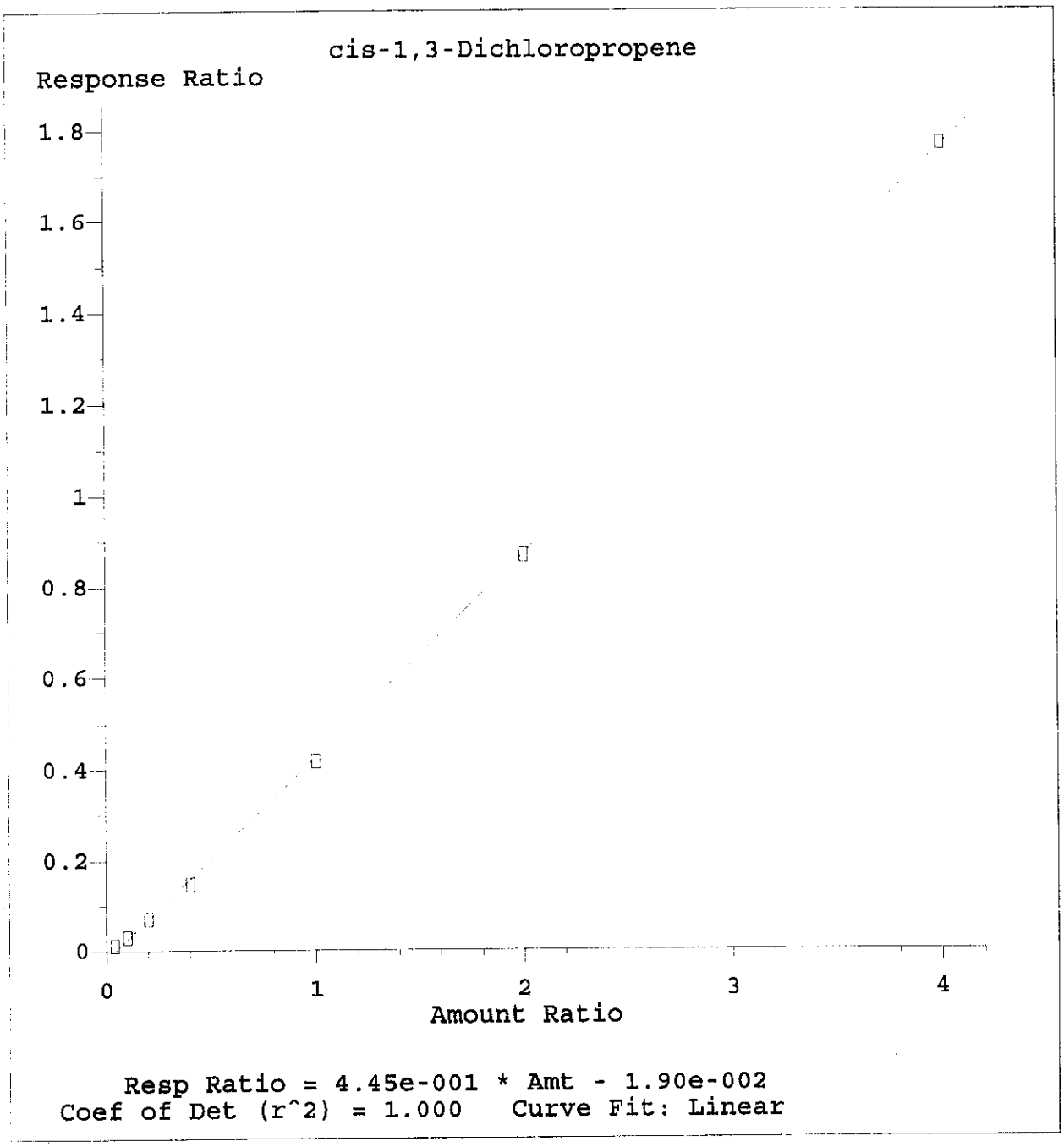
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:38:27 2001



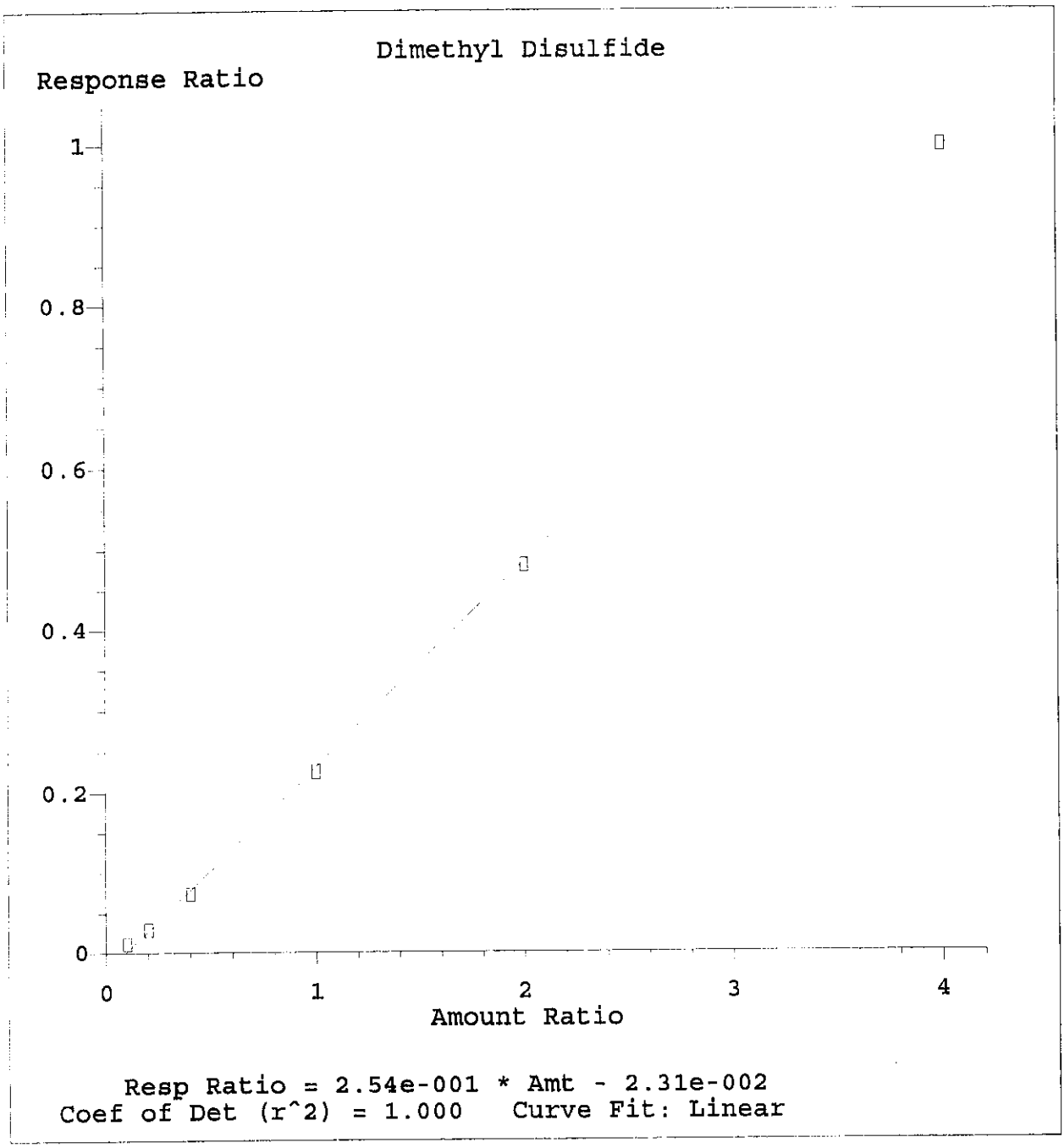
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:40:03 2001



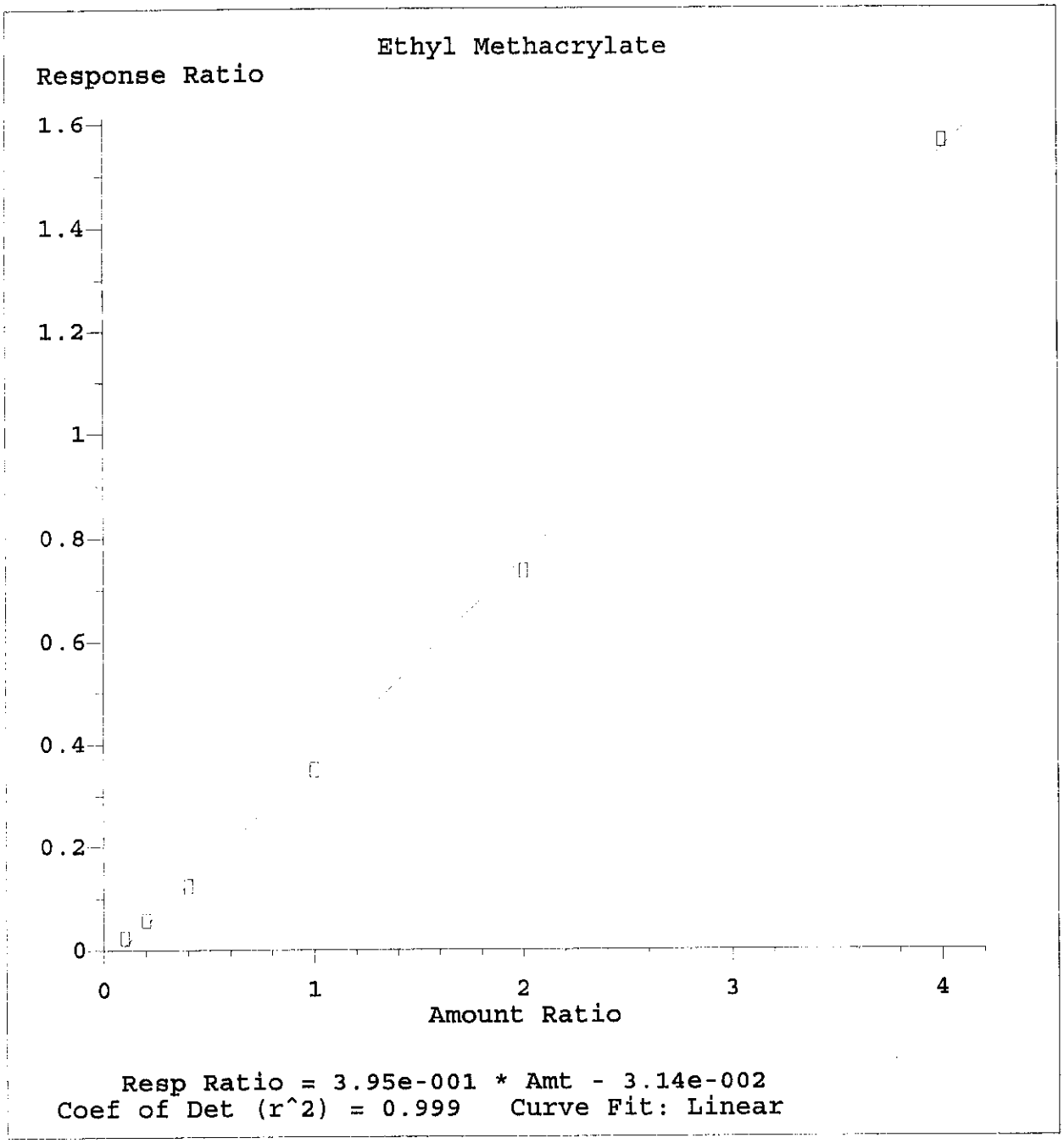
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:41:12 2001



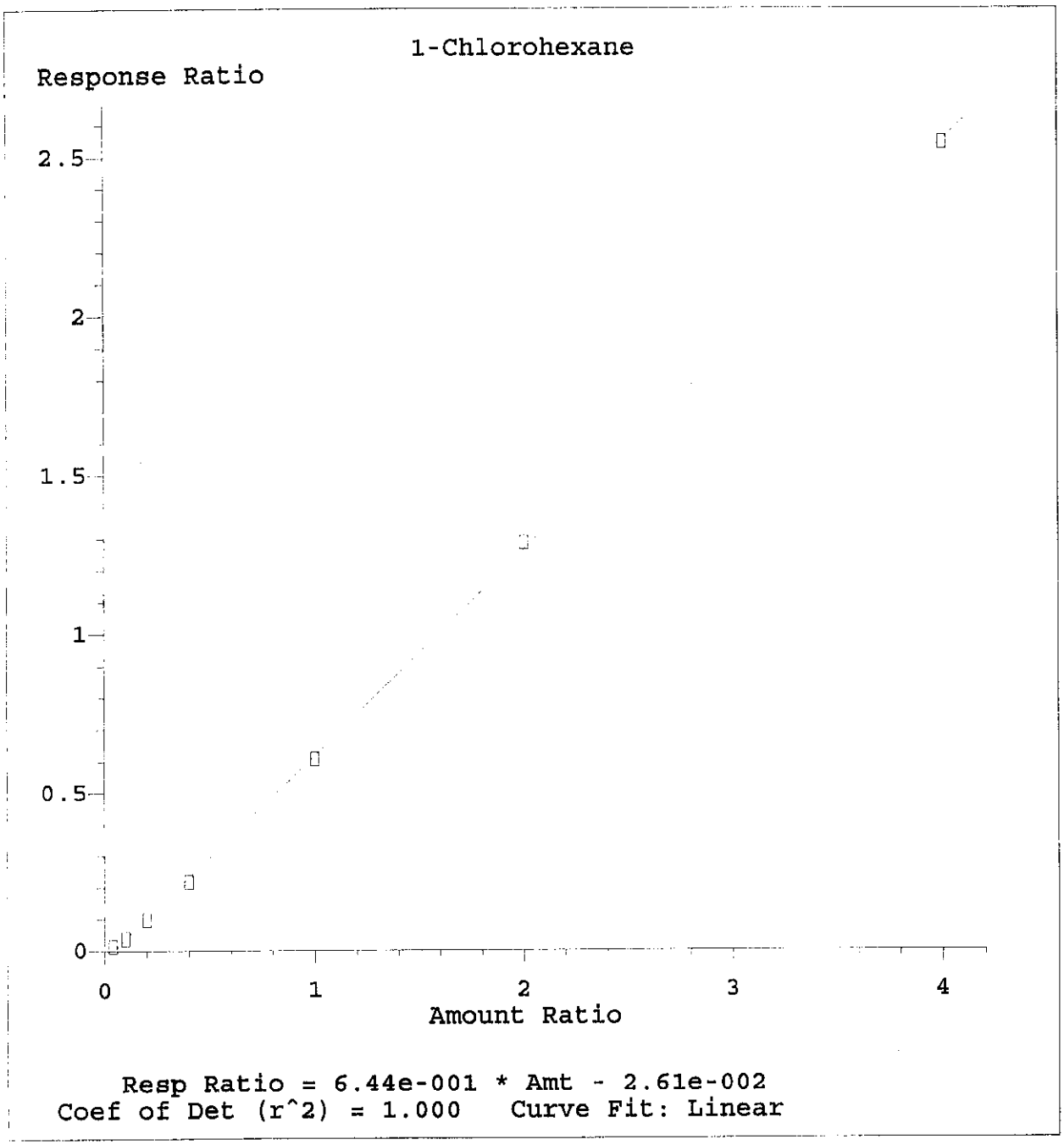
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:41:27 2001



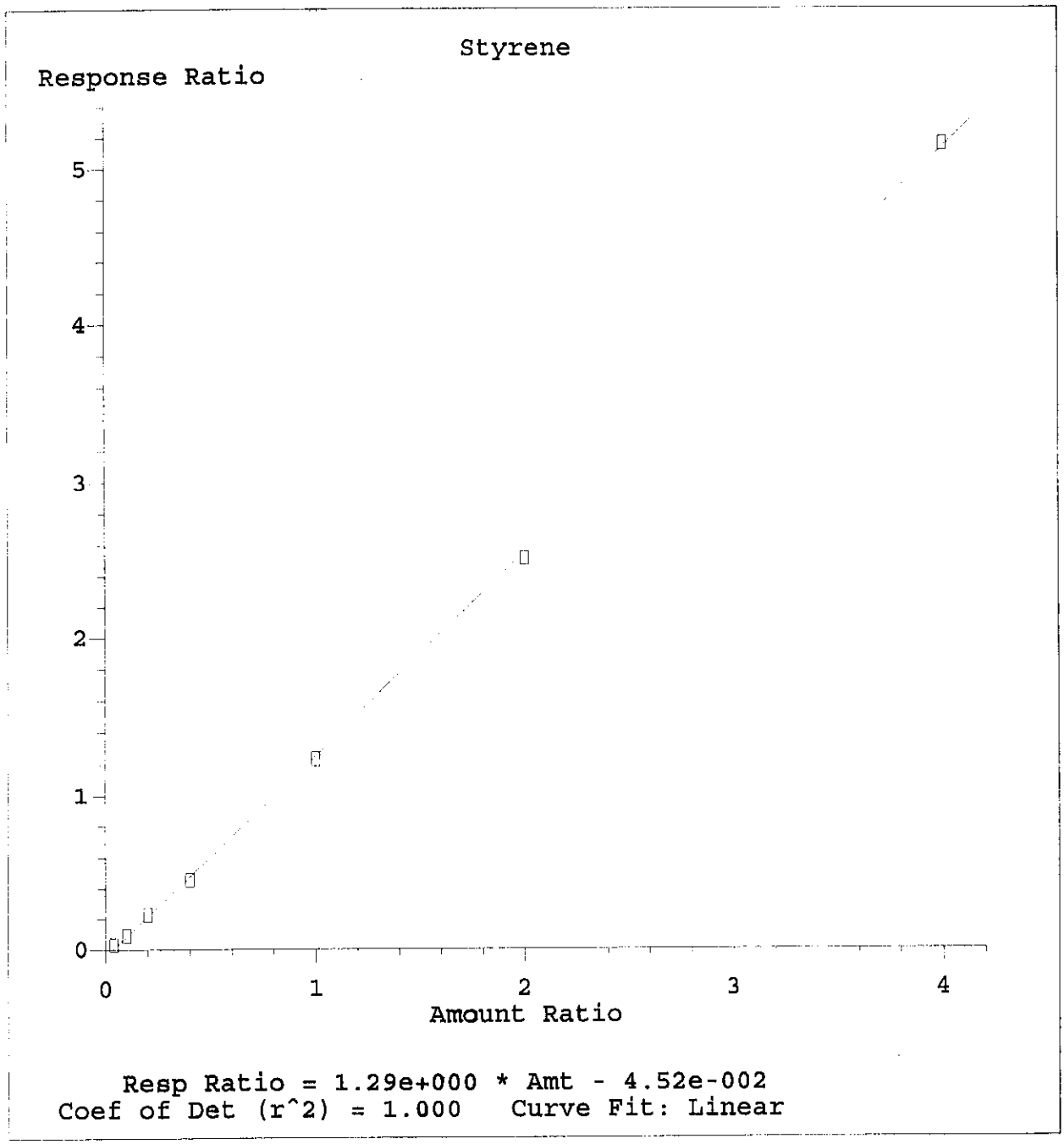
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:42:21 2001



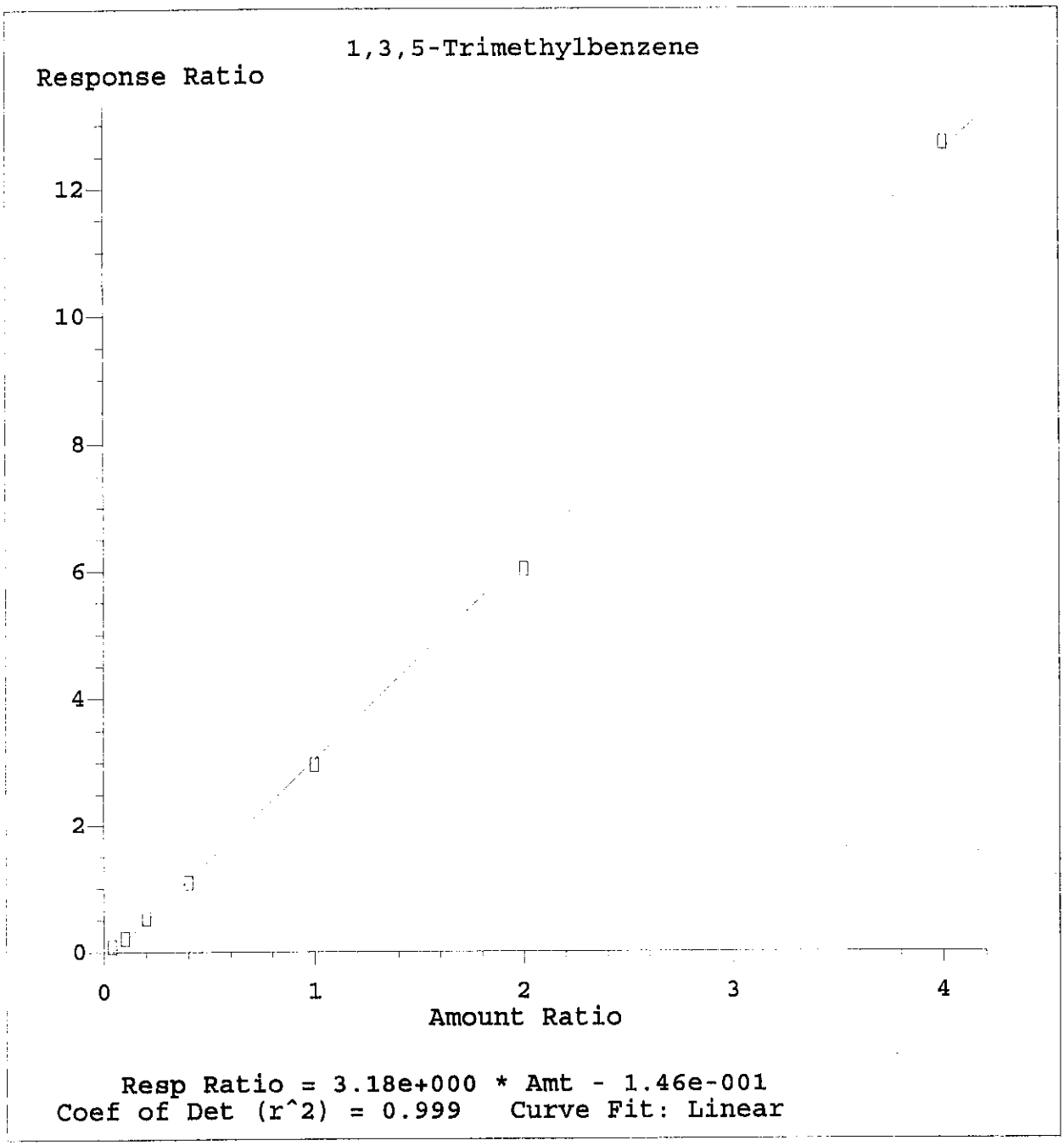
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:42:35 2001



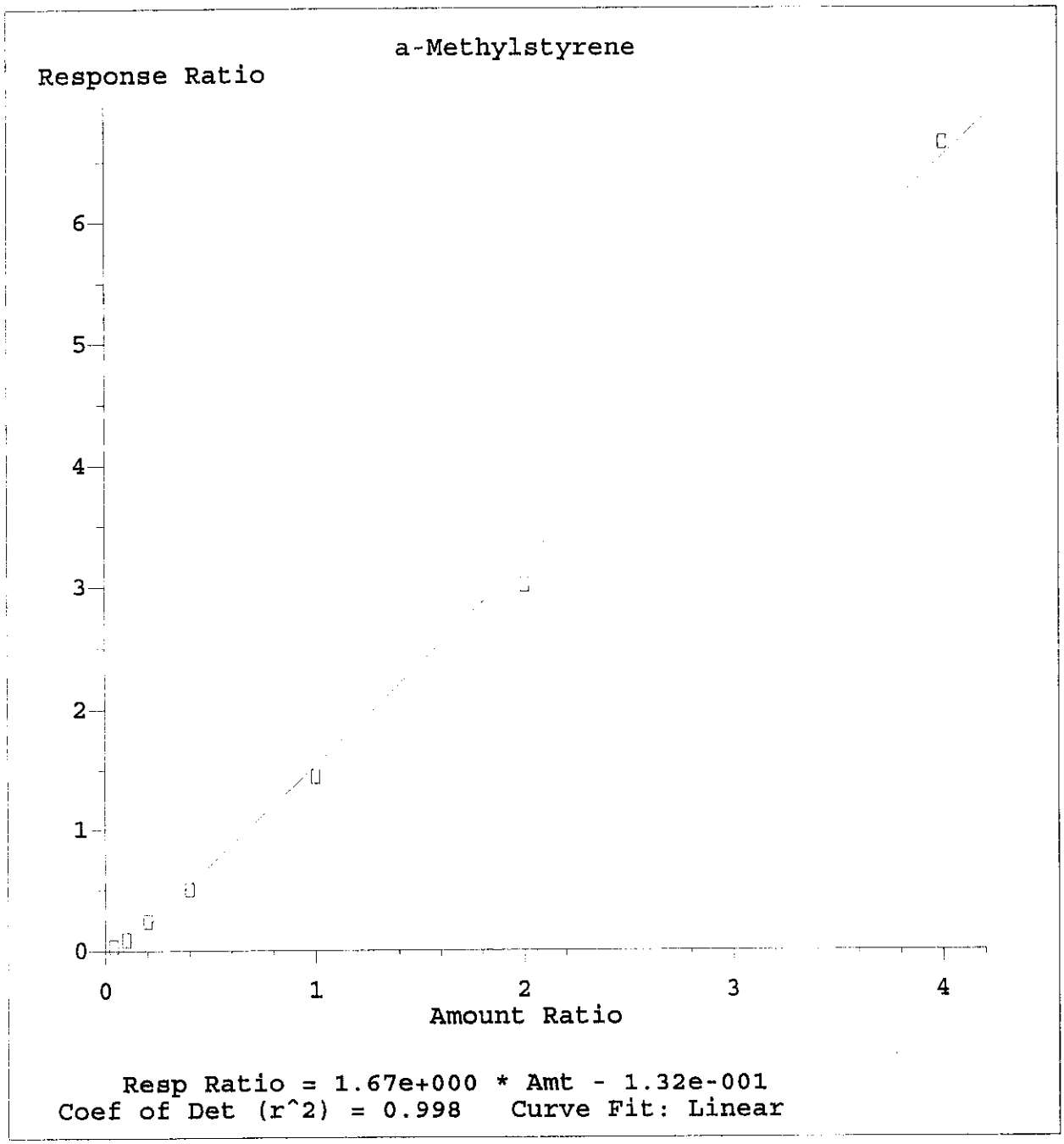
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:43:17 2001



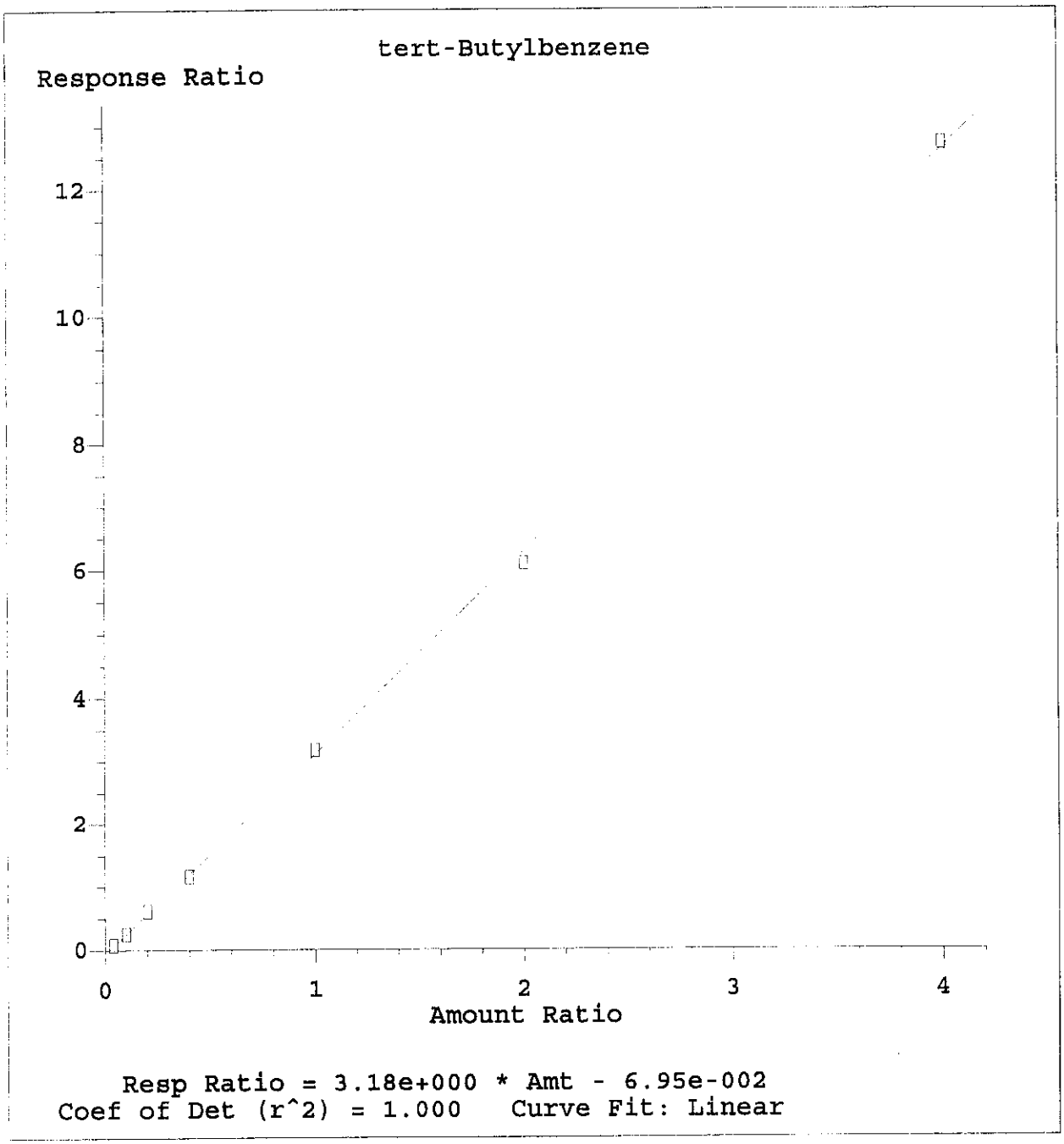
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:44:51 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:46:05 2001



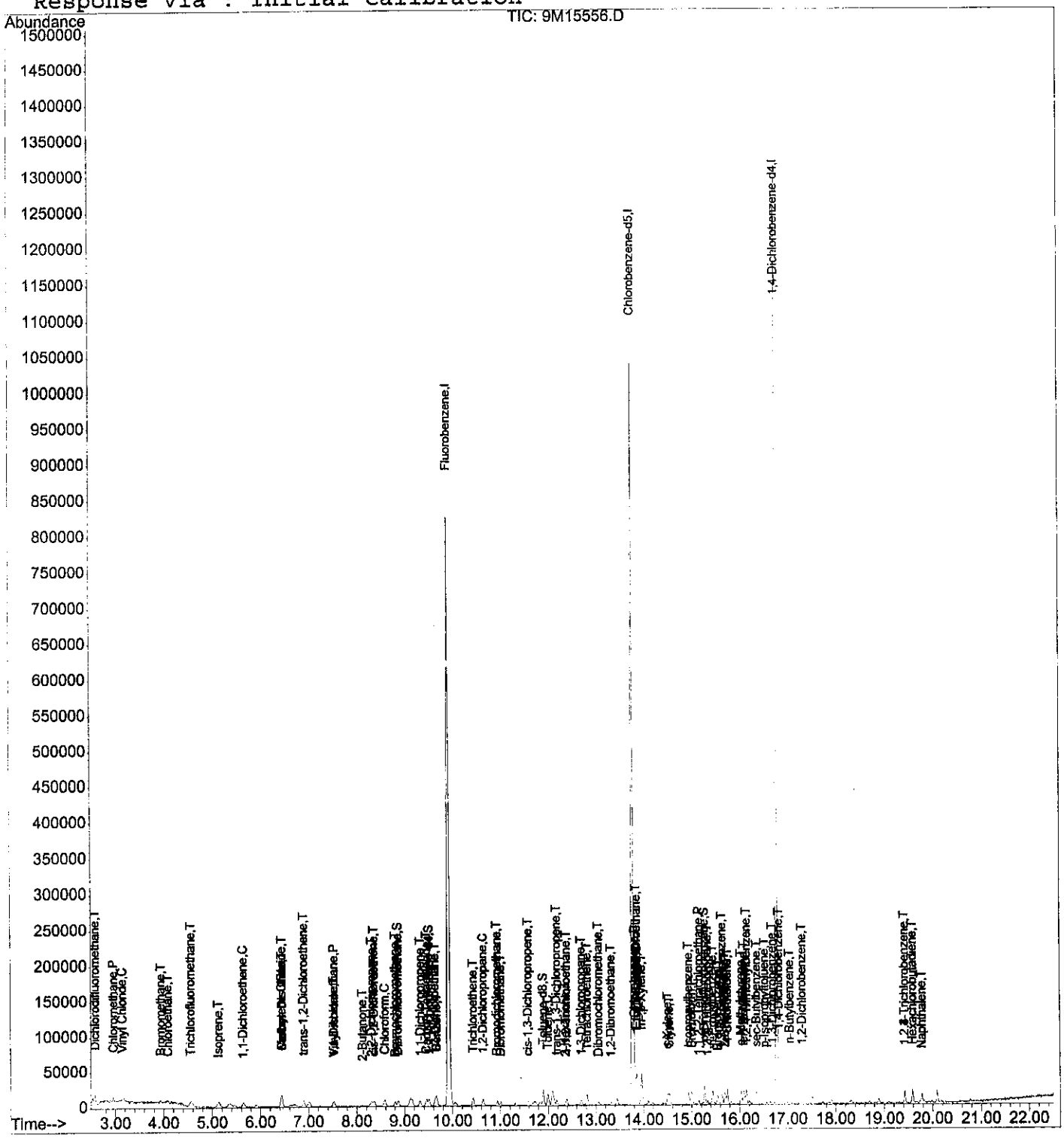
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:46:44 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:48:37 2001

Acq On : 11 May 2001 12:15 Operator: MES
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 12:15 Operator: MES
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	982988	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.77	117	695231	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	400274	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	7622	1.22	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	2.44%#		
33) 1,2-Dichloroethane-d4	9.51	65	10098	1.32	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery =	2.64%#		
45) Toluene-d8	11.90	98	20800	0.98	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery =	1.96%#		
66) p-Bromofluorobenzene	15.27	95	12307	1.52	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	3.04%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	12929	1.25	ug/kg	95
3) Chloromethane	2.96	50	9151	1.67	ug/kg	89
4) Vinyl Chloride	3.15	62	6431	1.48	ug/kg	93
5) Bromomethane	3.94	94	4073	1.47	ug/kg	89
6) Chloroethane	4.09	64	1968	0.77	ug/kg#	51
7) Trichlorofluoromethane	4.56	101	16042	1.19	ug/kg#	35
8) Isoprene	5.13	67	6347	0.90	ug/kg	92
12) 1,1-Dichloroethene	5.64	96	2879	0.51	ug/kg#	36
15) Methylene Chloride	6.43	84	7096	1.33	ug/kg	96
16) Carbon Disulfide	6.45	76	15960	0.75	ug/kg#	93
19) trans-1,2-Dichloroethene	6.90	96	4953	0.82	ug/kg	99
21) Vinyl Acetate	7.53	43	3775	0.67	ug/kg#	82
22) 1,1-Dichloroethane	7.52	63	11125	0.92	ug/kg#	93
23) 2-Butanone	8.12	43	1304	0.75	ug/kg#	77
24) 2,2-Dichloropropane	8.32	77	9420	0.82	ug/kg#	64
25) cis-1,2-Dichloroethene	8.36	96	3687	0.61	ug/kg	85
26) Chloroform	8.59	83	11634	0.95	ug/kg	95
27) Bromochloromethane	8.80	128	2196	0.89	ug/kg	95
31) 1,1-Dichloropropene	9.33	75	6245	0.86	ug/kg#	88
32) Carbon Tetrachloride	9.46	117	9783	0.88	ug/kg#	16
34) 1,2-Dichloroethane	9.63	62	8850	0.96	ug/kg#	90
35) Benzene	9.66	78	18614	0.80	ug/kg	91
36) Trichloroethene	10.43	130	4556	0.76	ug/kg	90
37) 1,2-Dichloropropane	10.64	63	4518	0.83	ug/kg	96
38) Bromodichloromethane	10.93	83	7580	0.92	ug/kg#	96
39) Dibromomethane	11.01	93	2937	0.95	ug/kg	91
42) cis-1,3-Dichloropropene	11.58	75	4751	0.65	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15556.D 8260SL.M Fri May 11 12:37:57 2001 HPMS_9 Page 1

Acq On : 11 May 2001 12:15 Operator: MES
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001 Quant Results File: 8260SL.RES

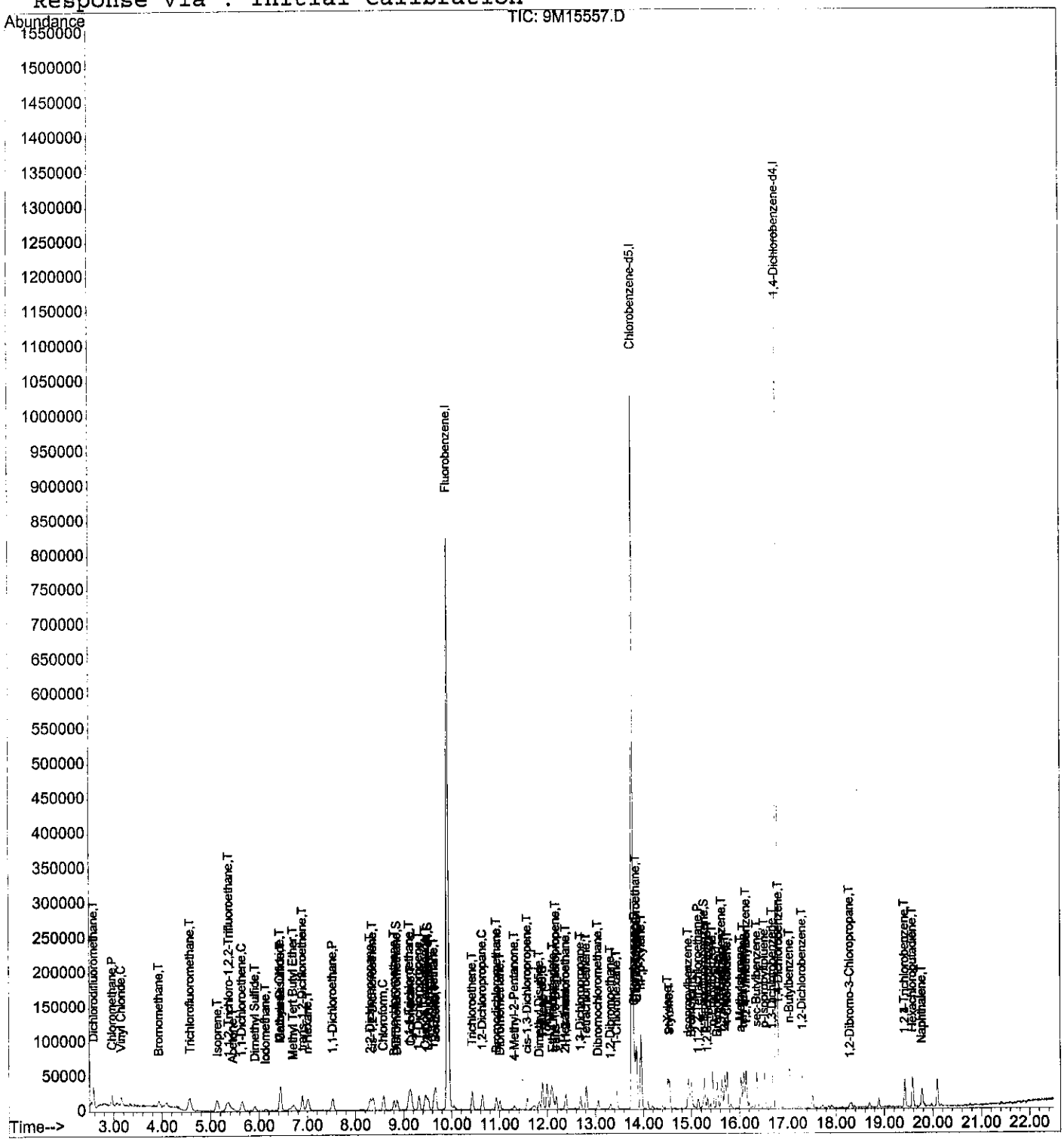
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	Toluene	12.00	91	16862	0.74	ug/kg	98
48)	trans-1,3-Dichloropropene	12.18	75	5551	0.75	ug/kg#	86
49)	1,1,2-Trichloroethane	12.38	97	3431	0.89	ug/kg	99
50)	2-Hexanone	12.36	43	3004	1.08	ug/kg	84
51)	1,3-Dichloropropane	12.69	76	5796	0.90	ug/kg	96
52)	Tetrachloroethene	12.82	164	4369	0.91	ug/kg	99
53)	Dibromochloromethane	13.05	129	4139	0.89	ug/kg	98
54)	1,2-Dibromoethane	13.31	107	3205	0.93	ug/kg	89
56)	Chlorobenzene	13.82	112	15476	1.01	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.85	131	5644	1.07	ug/kg	95
58)	Ethylbenzene	13.86	106	6940	0.83	ug/kg	97
59)	m-,p-Xylene	13.95	106	15769	1.53	ug/kg	98
60)	o-Xylene	14.50	106	6078	0.65	ug/kg	88
61)	Styrene	14.54	104	9726	0.64	ug/kg#	73
62)	Bromoform	15.01	173	2274	0.73	ug/kg	88
63)	Isopropylbenzene	14.94	105	14972	0.57	ug/kg	95
65)	1,1,2,2-Tetrachloroethane	15.16	83	4130	0.91	ug/kg#	83
67)	1,2,3-Trichloropropane	15.33	110	1056	0.74	ug/kg#	25
69)	n-Propylbenzene	15.44	91	20135	0.61	ug/kg	93
70)	Bromobenzene	15.55	156	4705	0.78	ug/kg	76
71)	1,3,5-Trimethylbenzene	15.64	105	12285	0.60	ug/kg	97
72)	2-Chlorotoluene	15.70	91	16742	0.80	ug/kg	93
73)	4-Chlorotoluene	15.75	91	14796	0.71	ug/kg	96
74)	a-Methylstyrene	16.03	118	4900	0.55	ug/kg	95
75)	tert-Butylbenzene	16.08	119	12005	0.55	ug/kg#	77
76)	1,2,4-Trimethylbenzene	16.14	105	15068	0.71	ug/kg#	84
77)	sec-Butylbenzene	16.35	105	17386	0.60	ug/kg#	87
78)	p-Isopropyltoluene	16.52	119	13376	0.55	ug/kg	95
79)	1,3-Dichlorobenzene	16.68	146	10784	0.95	ug/kg	94
80)	1,4-Dichlorobenzene	16.82	146	11900	0.98	ug/kg	99
81)	n-Butylbenzene	17.03	91	18500	0.80	ug/kg	96
82)	1,2-Dichlorobenzene	17.30	146	8917	0.90	ug/kg	87
84)	1,2,4-Trichlorobenzene	19.42	180	6802	0.95	ug/kg	95
85)	Hexachlorobutadiene	19.58	225	5346	0.92	ug/kg#	88
86)	Naphthalene	19.78	128	10620	0.92	ug/kg	97
87)	1,2,3-Trichlorobenzene	19.42	180	6802	0.95	ug/kg	95

(#) = qualifier out of range (m) = manual integration
9M15556.D 8260SL.M Fri May 11 12:37:58 2001 HPMS_9 Page 2

Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	977428	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	692708	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	408906	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	13452	2.17	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	4.34%#		
33) 1,2-Dichloroethane-d4	9.51	65	18408	2.43	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery =	4.86%#		
45) Toluene-d8	11.90	98	35884	1.70	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery =	3.40%#		
66) p-Bromofluorobenzene	15.27	95	18147	2.20	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	4.40%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	32166	3.12	ug/kg	97
3) Chloromethane	2.96	50	15465	2.84	ug/kg#	88
4) Vinyl Chloride	3.15	62	13012	3.02	ug/kg	94
5) Bromomethane	3.93	94	8436	3.05	ug/kg	97
7) Trichlorofluoromethane	4.58	101	37321	2.77	ug/kg	99
8) Isoprene	5.15	67	13284	1.90	ug/kg#	53
10) 1,1,2-Trichloro-1,2,2-Trif	5.38	101	16596m	2.37	ug/kg	
11) Acetone	5.46	43	7584	4.11	ug/kg	98
12) 1,1-Dichloroethene	5.64	96	10290	1.84	ug/kg	97
13) Dimethyl Sulfide	5.91	62	4648	0.90	ug/kg	92
14) Iodomethane	6.13	142	2755	0.79	ug/kg#	39
15) Methylene Chloride	6.43	84	13423	2.53	ug/kg	99
16) Carbon Disulfide	6.45	76	39269	1.85	ug/kg	96
18) Methyl Tert Butyl Ether	6.70	73	16351	1.41	ug/kg#	66
19) trans-1,2-Dichloroethene	6.90	96	11945	1.98	ug/kg	99
20) n-Hexane	7.01	57	13047	1.39	ug/kg	100
22) 1,1-Dichloroethane	7.52	63	23943	1.99	ug/kg	99
24) 2,2-Dichloropropane	8.31	77	21711	1.90	ug/kg#	78
25) cis-1,2-Dichloroethene	8.36	96	9447	1.57	ug/kg	94
26) Chloroform	8.58	83	26213	2.15	ug/kg	97
27) Bromochloromethane	8.80	128	4598	1.88	ug/kg	94
29) 1,1,1-Trichloroethane	9.12	97	27172	2.11	ug/kg	99
30) Cyclohexane	9.16	56	13209	1.36	ug/kg#	71
31) 1,1-Dichloropropene	9.31	75	13898	1.93	ug/kg	97
32) Carbon Tetrachloride	9.45	117	23516	2.12	ug/kg	98
34) 1,2-Dichloroethane	9.63	62	20322	2.23	ug/kg#	97
35) Benzene	9.67	78	38875	1.69	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15557.D 8260SL.M Fri May 11 14:56:00 2001 HPMS_9 Page 1

Acq On : 11 May 2001 12:46 Operator: MBS
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Trichloroethene	10.43	130	11077	1.86	ug/kg	98
37) 1,2-Dichloropropane	10.64	63	9974m	1.84	ug/kg	
38) Bromodichloromethane	10.94	83	16632	2.03	ug/kg	99
39) Dibromomethane	11.01	93	6496	2.11	ug/kg#	76
41) 4-Methyl-2-Pentanone	11.31	58	1575	1.01	ug/kg#	49
42) cis-1,3-Dichloropropene	11.58	75	11773	1.63	ug/kg	99
43) Dimethyl Disulfide	11.84	79	4639	1.06	ug/kg	88
46) Toluene	11.99	91	39122	1.72	ug/kg	93
47) Ethyl Methacrylate	12.13	69	6069	1.28	ug/kg#	91
48) trans-1,3-Dichloropropene	12.18	75	12964	1.76	ug/kg	98
49) 1,1,2-Trichloroethane	12.39	97	7892	2.06	ug/kg	95
50) 2-Hexanone	12.37	43	5445	1.96	ug/kg	91
51) 1,3-Dichloropropane	12.69	76	12350	1.92	ug/kg	93
52) Tetrachloroethene	12.81	164	9163	1.92	ug/kg	100
53) Dibromochloromethane	13.05	129	9799	2.12	ug/kg	99
54) 1,2-Dibromoethane	13.32	107	7086	2.06	ug/kg	91
55) 1-Chlorohexane	13.44	91	9623	1.35	ug/kg	84
56) Chlorobenzene	13.82	112	32598	2.14	ug/kg	99
57) 1,1,1,2-Tetrachloroethane	13.85	131	11133	2.12	ug/kg	94
58) Ethylbenzene	13.87	106	16309	1.96	ug/kg	96
59) m-,p-Xylene	13.96	106	38276	3.72	ug/kg	98
60) o-Xylene	14.51	106	14780	1.60	ug/kg	98
61) Styrene	14.54	104	23370	1.54	ug/kg#	71
62) Bromoform	15.00	173	6058	1.95	ug/kg	88
63) Isopropylbenzene	14.94	105	38178	1.45	ug/kg	97
65) 1,1,2,2-Tetrachloroethane	15.14	83	10719	2.30	ug/kg#	83
67) 1,2,3-Trichloropropane	15.33	110	3293	2.25	ug/kg	89
69) n-Propylbenzene	15.44	91	55348	1.64	ug/kg	97
70) Bromobenzene	15.55	156	12237	1.98	ug/kg	91
71) 1,3,5-Trimethylbenzene	15.63	105	33794	1.62	ug/kg	98
72) 2-Chlorotoluene	15.70	91	40575	1.90	ug/kg	95
73) 4-Chlorotoluene	15.75	91	39708	1.86	ug/kg	97
74) a-Methylstyrene	16.03	118	14329	1.58	ug/kg	94
75) tert-Butylbenzene	16.08	119	32912	1.47	ug/kg#	91
76) 1,2,4-Trimethylbenzene	16.14	105	41128	1.88	ug/kg	86
77) sec-Butylbenzene	16.36	105	47826	1.62	ug/kg	100
78) p-Isopropyltoluene	16.52	119	36653	1.48	ug/kg	100
79) 1,3-Dichlorobenzene	16.69	146	23321	2.00	ug/kg	95
80) 1,4-Dichlorobenzene	16.82	146	27992	2.26	ug/kg	96
81) n-Butylbenzene	17.04	91	43822	1.86	ug/kg	98
82) 1,2-Dichlorobenzene	17.30	146	21054	2.07	ug/kg	96

(#) = qualifier out of range (m) = manual integration
9M15557.D 8260SL.M Fri May 11 14:56:02 2001 HPMS_9 Page 2

Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

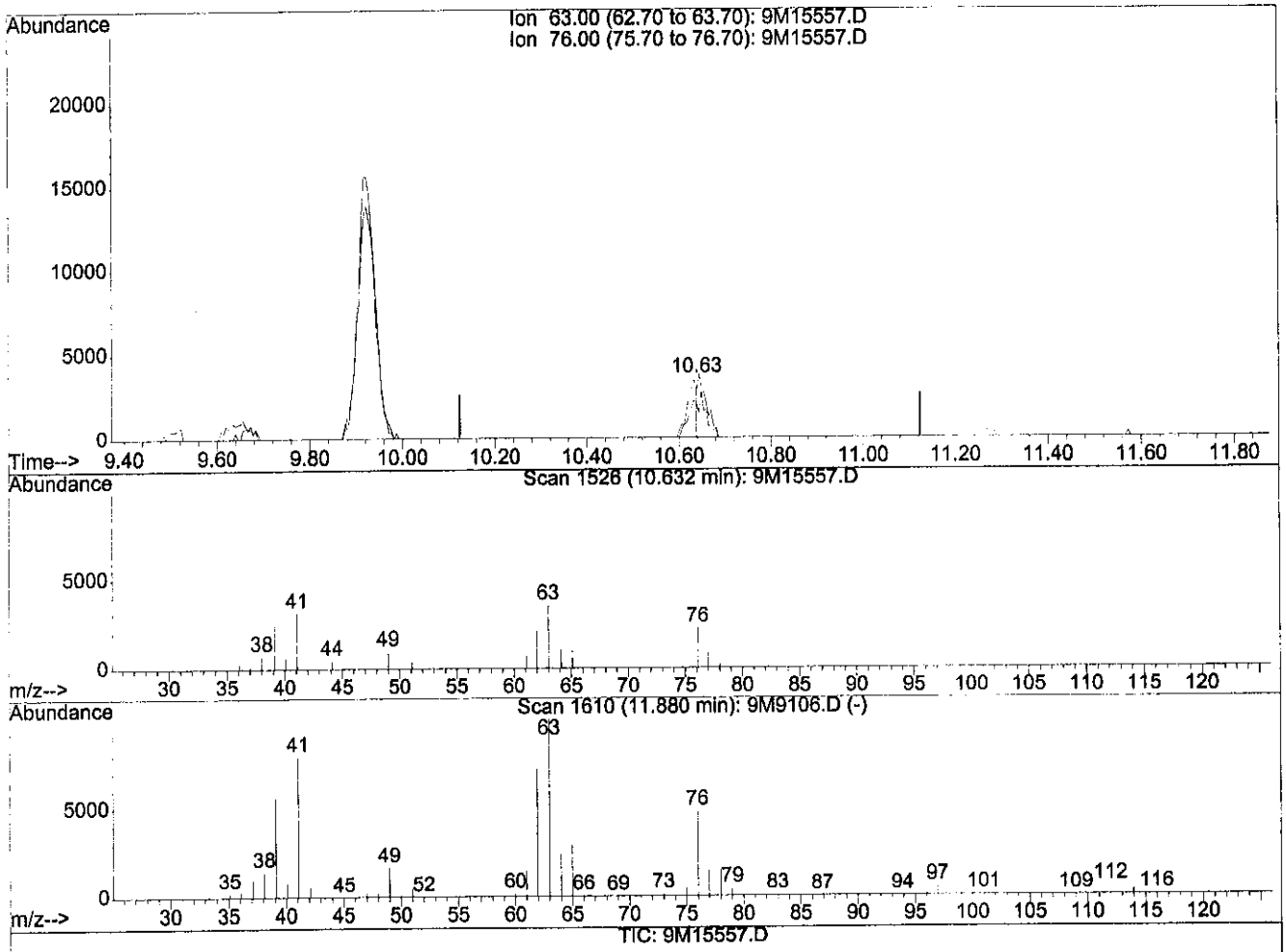
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,2-Dibromo-3-Chloropropan	18.29	157	1832	2.11	ug/kg	94
84) 1,2,4-Trichlorobenzene	19.42	180	15757	2.16	ug/kg	99
85) Hexachlorobutadiene	19.58	225	12691	2.13	ug/kg	97
86) Naphthalene	19.78	128	24210	2.06	ug/kg	99
87) 1,2,3-Trichlorobenzene	19.42	180	15757	2.16	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15557.D 8260SL.M Fri May 11 14:56:02 2001 HPMS_9 Page 3

Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:43 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(37) 1,2-Dichloropropane (C)

10.63min 0.90ug/kg

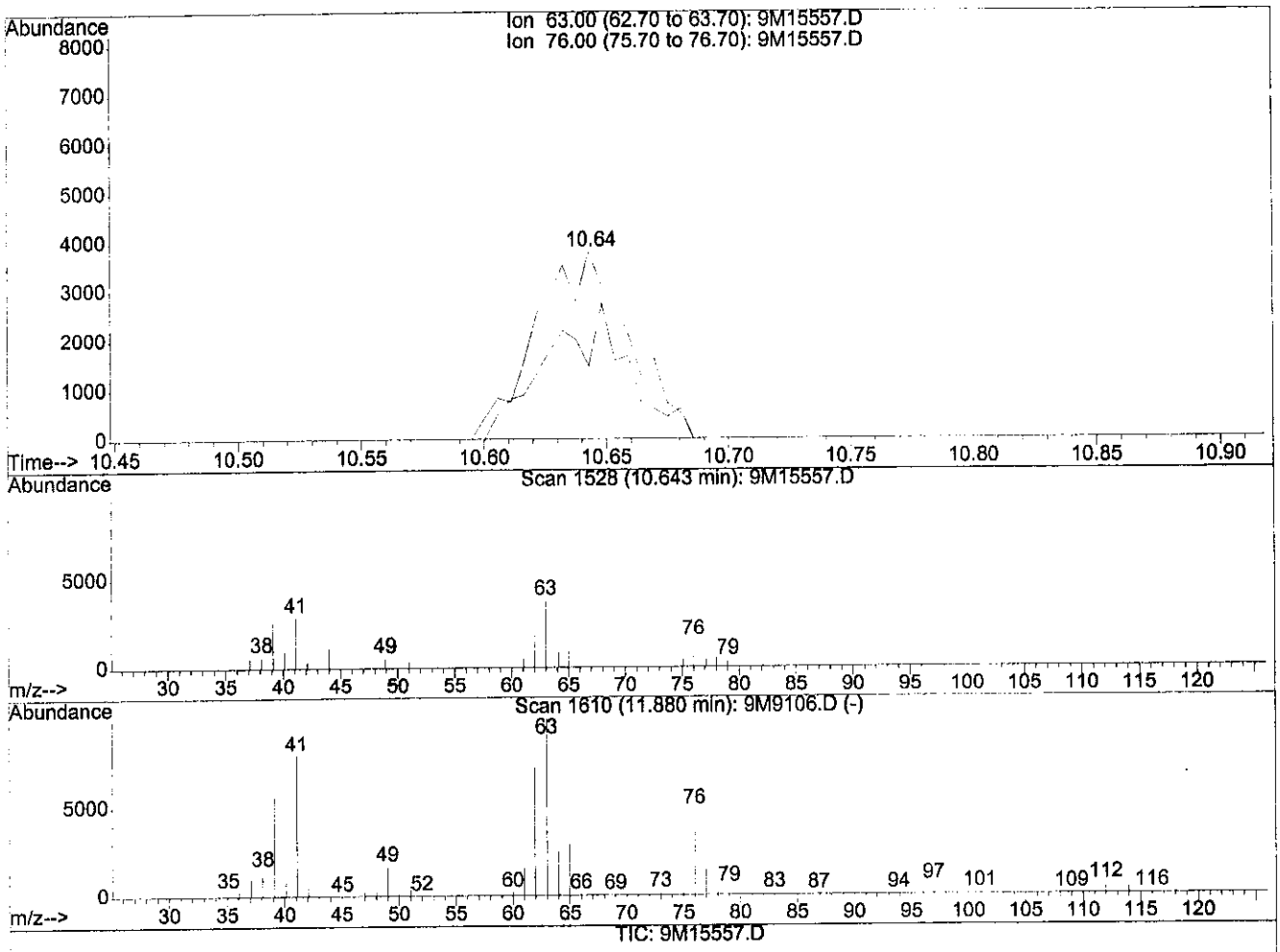
response 4895

Ion	Exp%	Act%
63.00	100	100
76.00	57.60	71.52#
0.00	0.00	0.00
0.00	0.00	0.00

9M15557.D 8260SL.M Fri May 11 14:44:11 2001 HPMS_9

Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(37) 1,2-Dichloropropane (C)

10.64min 1.84ug/kg m

response 9974

Ion	Exp%	Act%
63.00	100	100
76.00	57.60	35.10#
0.00	0.00	0.00
0.00	0.00	0.00

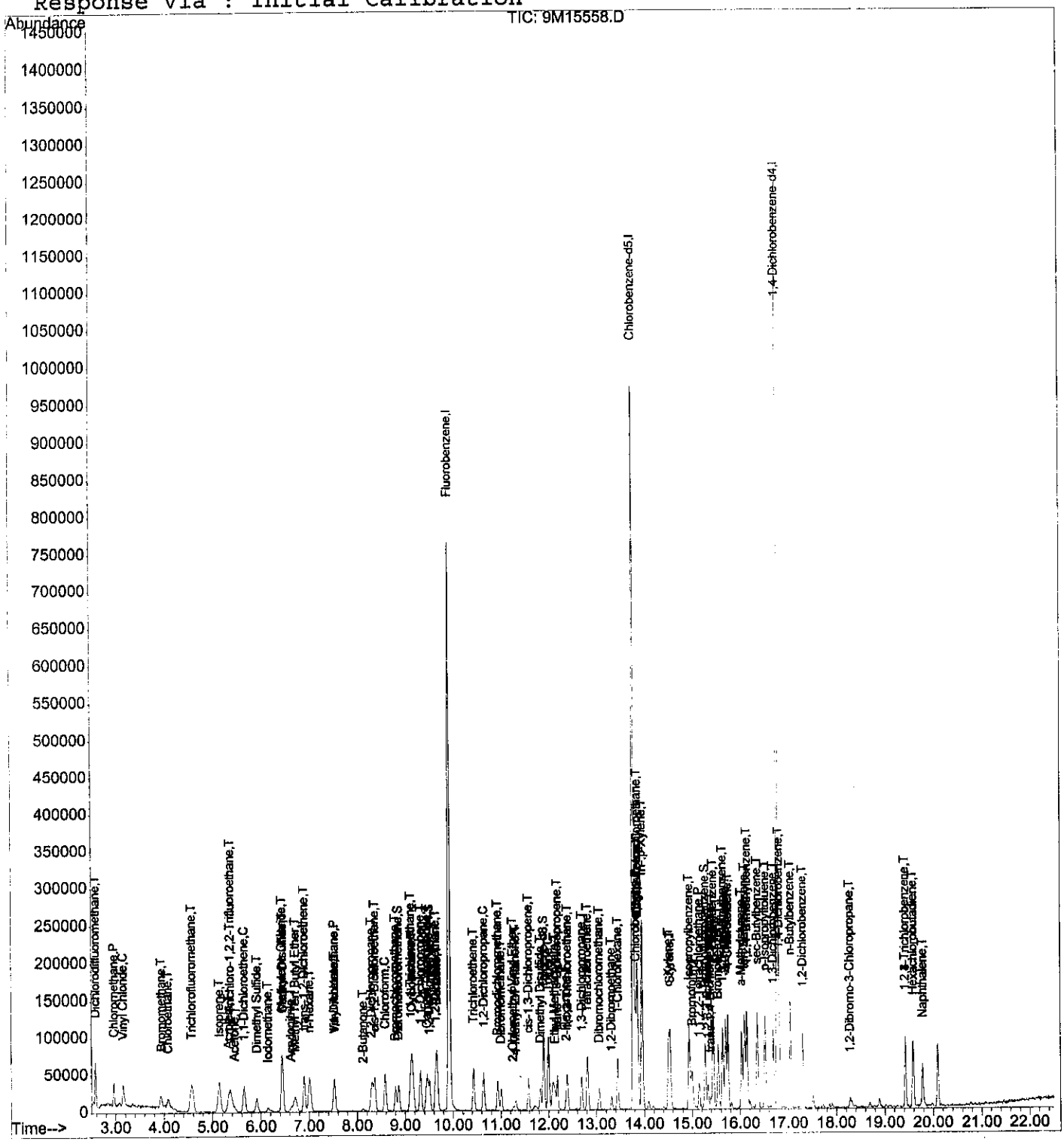
MCL 5.11.01

5/14/01

9M15557.D 8260SL.M Fri May 11 14:44:16 2001 HPMS_9

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\[illegible]
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	921984	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	647074	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	386056	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	30656	5.24	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 10.48%#			
33) 1,2-Dichloroethane-d4	9.51	65	40026	5.60	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 11.20%#			
45) Toluene-d8	11.90	98	94848	4.81	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 9.62%#			
66) p-Bromofluorobenzene	15.27	95	40500	5.19	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 10.38%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	65764	6.77	ug/kg	98
3) Chloromethane	2.96	50	34679	6.74	ug/kg	93
4) Vinyl Chloride	3.15	62	27256	6.70	ug/kg	95
5) Bromomethane	3.95	94	16065	6.16	ug/kg	93
6) Chloroethane	4.08	64	14502	6.02	ug/kg#	83
7) Trichlorofluoromethane	4.57	101	76552	6.03	ug/kg	99
8) Isoprene	5.13	67	32563	4.93	ug/kg	97
9) Acrolein	5.33	56	4214	16.27	ug/kg	84
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	34694m	5.25	ug/kg	
11) Acetone	5.45	43	11089	6.37	ug/kg	94
12) 1,1-Dichloroethene	5.65	96	21825	4.13	ug/kg	88
13) Dimethyl Sulfide	5.91	62	12948	2.66	ug/kg	87
14) Iodomethane	6.15	142	8919m	2.71	ug/kg	
15) Methylene Chloride	6.43	84	27194	5.43	ug/kg	96
16) Carbon Disulfide	6.46	76	87340	4.35	ug/kg	98
17) Acrylonitrile	6.62	53	4934	3.85	ug/kg	97
18) Methyl Tert Butyl Ether	6.71	73	38664m	3.55	ug/kg	
19) trans-1,2-Dichloroethene	6.90	96	27227	4.78	ug/kg	99
20) n-Hexane	7.01	57	33987	3.83	ug/kg#	74
21) Vinyl Acetate	7.52	43	20272	3.84	ug/kg#	86
22) 1,1-Dichloroethane	7.52	63	53009	4.67	ug/kg	98
23) 2-Butanone	8.12	43	5992	3.68	ug/kg#	68
24) 2,2-Dichloropropane	8.30	77	49224m	4.57	ug/kg	
25) cis-1,2-Dichloroethene	8.37	96	22812	4.03	ug/kg	92
26) Chloroform	8.58	83	56073	4.88	ug/kg	99
27) Bromochloromethane	8.80	128	10675	4.63	ug/kg	96
29) 1,1,1-Trichloroethane	9.11	97	57910	4.76	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:15 2001 HPMS_9 Page 1

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	36172	3.95	ug/kg	95
31)	1,1-Dichloropropene	9.32	75	36899	5.43	ug/kg	98
32)	Carbon Tetrachloride	9.46	117	51626	4.94	ug/kg	100
34)	1,2-Dichloroethane	9.63	62	43901	5.10	ug/kg#	98
35)	Benzene	9.66	78	94972	4.38	ug/kg	100
36)	Trichloroethene	10.43	130	23952	4.26	ug/kg	96
37)	1,2-Dichloropropane	10.65	63	22038	4.31	ug/kg	92
38)	Bromodichloromethane	10.93	83	37201	4.81	ug/kg	97
39)	Dibromomethane	11.01	93	14310	4.93	ug/kg	92
40)	2-Chloroethyl Vinyl Ether	11.25	63	2300	1.66	ug/kg#	79
41)	4-Methyl-2-Pentanone	11.31	58	4135	2.81	ug/kg#	72
42)	cis-1,3-Dichloropropene	11.58	75	27584	4.05	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	10818	2.62	ug/kg	98
46)	Toluene	12.00	91	95734	4.50	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	15606	3.51	ug/kg	96
48)	trans-1,3-Dichloropropene	12.18	75	30978	4.51	ug/kg	98
49)	1,1,2-Trichloroethane	12.40	97	17681	4.94	ug/kg	97
50)	2-Hexanone	12.36	43	11017	4.24	ug/kg	92
51)	1,3-Dichloropropane	12.70	76	30194	5.03	ug/kg	98
52)	Tetrachloroethene	12.82	164	21403	4.79	ug/kg	99
53)	Dibromochloromethane	13.06	129	21316	4.94	ug/kg	95
54)	1,2-Dibromoethane	13.31	107	15432	4.81	ug/kg	100
55)	1-Chlorohexane	13.45	91	24504	3.68	ug/kg	90
56)	Chlorobenzene	13.82	112	70828	4.99	ug/kg	97
57)	1,1,1,2-Tetrachloroethane	13.85	131	24612	5.01	ug/kg	99
58)	Ethylbenzene	13.86	106	37581	4.83	ug/kg	94
59)	m-,p-Xylene	13.95	106	91754	9.56	ug/kg	98
60)	o-Xylene	14.50	106	34117	3.95	ug/kg	97
61)	Styrene	14.54	104	60447	4.27	ug/kg#	73
62)	Bromoform	15.01	173	12950	4.47	ug/kg	93
63)	Isopropylbenzene	14.94	105	98944	4.03	ug/kg	97
65)	1,1,2,2-Tetrachloroethane	15.14	83	21400	4.87	ug/kg	96
67)	1,2,3-Trichloropropane	15.33	110	7225	5.22	ug/kg	88
68)	trans-1,4-Dichloro-2-Buten	15.38	53	5330	3.84	ug/kg#	82
69)	n-Propylbenzene	15.44	91	142110	4.47	ug/kg	99
70)	Bromobenzene	15.54	156	27667	4.74	ug/kg	97
71)	1,3,5-Trimethylbenzene	15.64	105	85043	4.32	ug/kg	98
72)	2-Chlorotoluene	15.69	91	96489	4.78	ug/kg	98
73)	4-Chlorotoluene	15.75	91	99260	4.92	ug/kg	99
74)	a-Methylstyrene	16.03	118	35109	4.09	ug/kg	98
75)	tert-Butylbenzene	16.09	119	98814	4.68	ug/kg#	83

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:16 2001 HPMS_9 Page 2

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

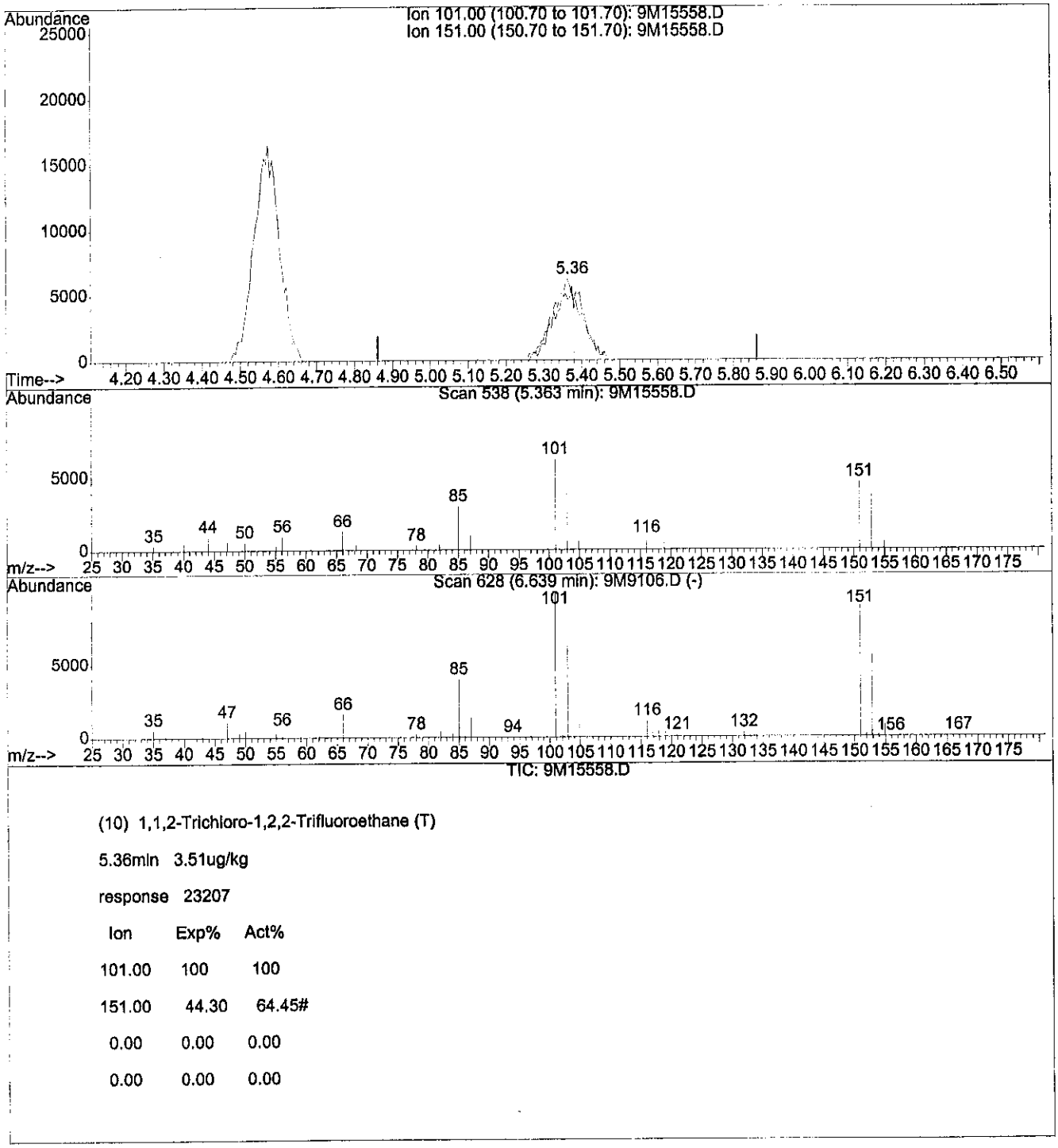
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	104757	5.09	ug/kg#	84
77)	sec-Butylbenzene	16.36	105	120699	4.34	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	94550	4.05	ug/kg	99
79)	1,3-Dichlorobenzene	16.68	146	54205	4.93	ug/kg	97
80)	1,4-Dichlorobenzene	16.82	146	58344	5.00	ug/kg	99
81)	n-Butylbenzene	17.04	91	105799	4.77	ug/kg	99
82)	1,2-Dichlorobenzene	17.30	146	46597	4.85	ug/kg	97
83)	1,2-Dibromo-3-Chloropropan	18.28	157	3882	4.74	ug/kg	93
84)	1,2,4-Trichlorobenzene	19.43	180	34829	5.06	ug/kg	99
85)	Hexachlorobutadiene	19.58	225	26227	4.66	ug/kg	97
86)	Naphthalene	19.78	128	53564	4.82	ug/kg	96
87)	1,2,3-Trichlorobenzene	19.43	180	34829	5.06	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:17 2001 HPMS_9 Page 3

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 13:41 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 3.51ug/kg

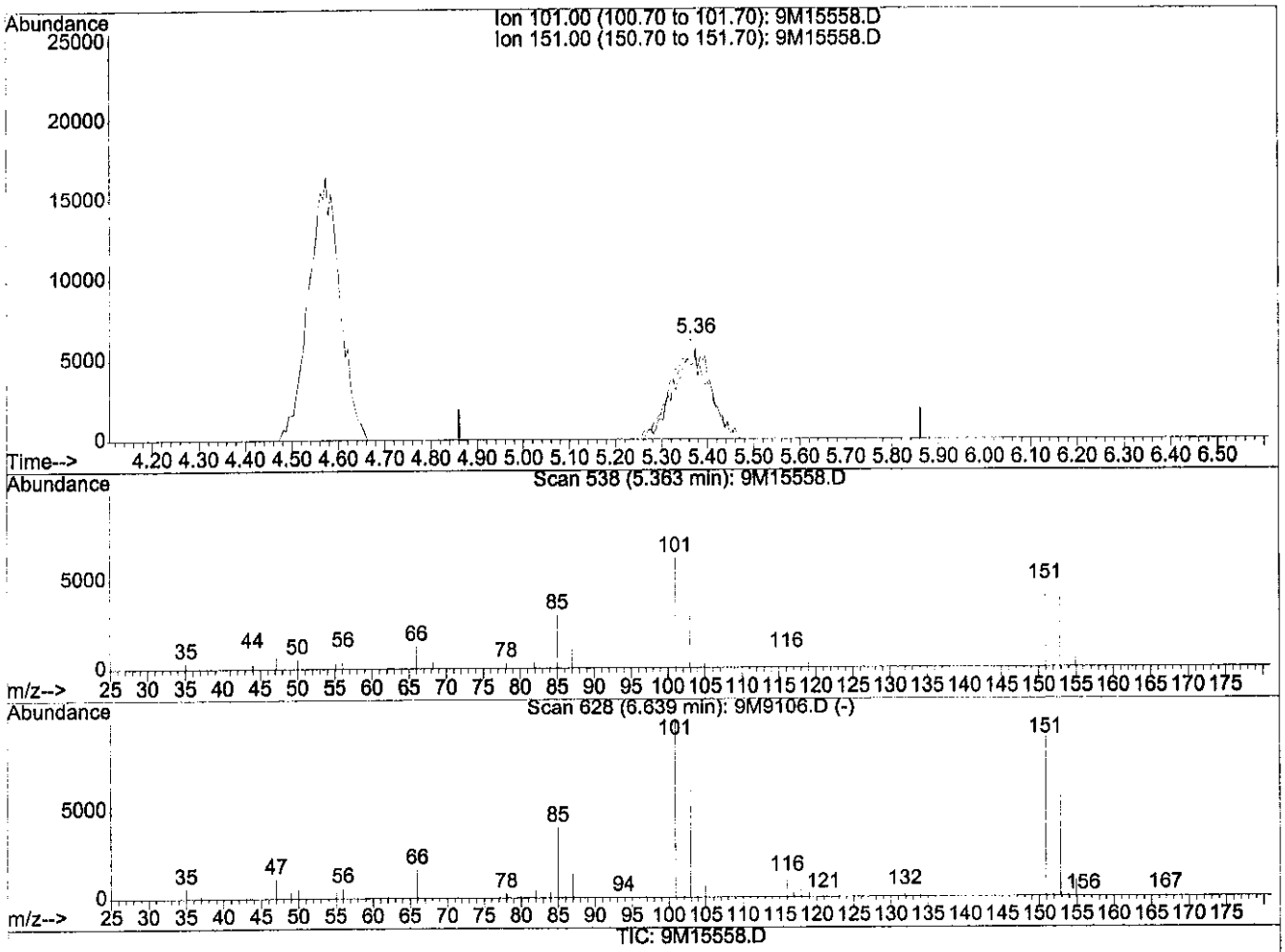
response 23207

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	64.45#
0.00	0.00	0.00
0.00	0.00	0.00

9M15558.D 8260SL.M Fri May 11 14:46:21 2001 HPMS_9

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 5.25ug/kg m

response 34694

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	43.11
0.00	0.00	0.00
0.00	0.00	0.00

MCJ 5.11.01

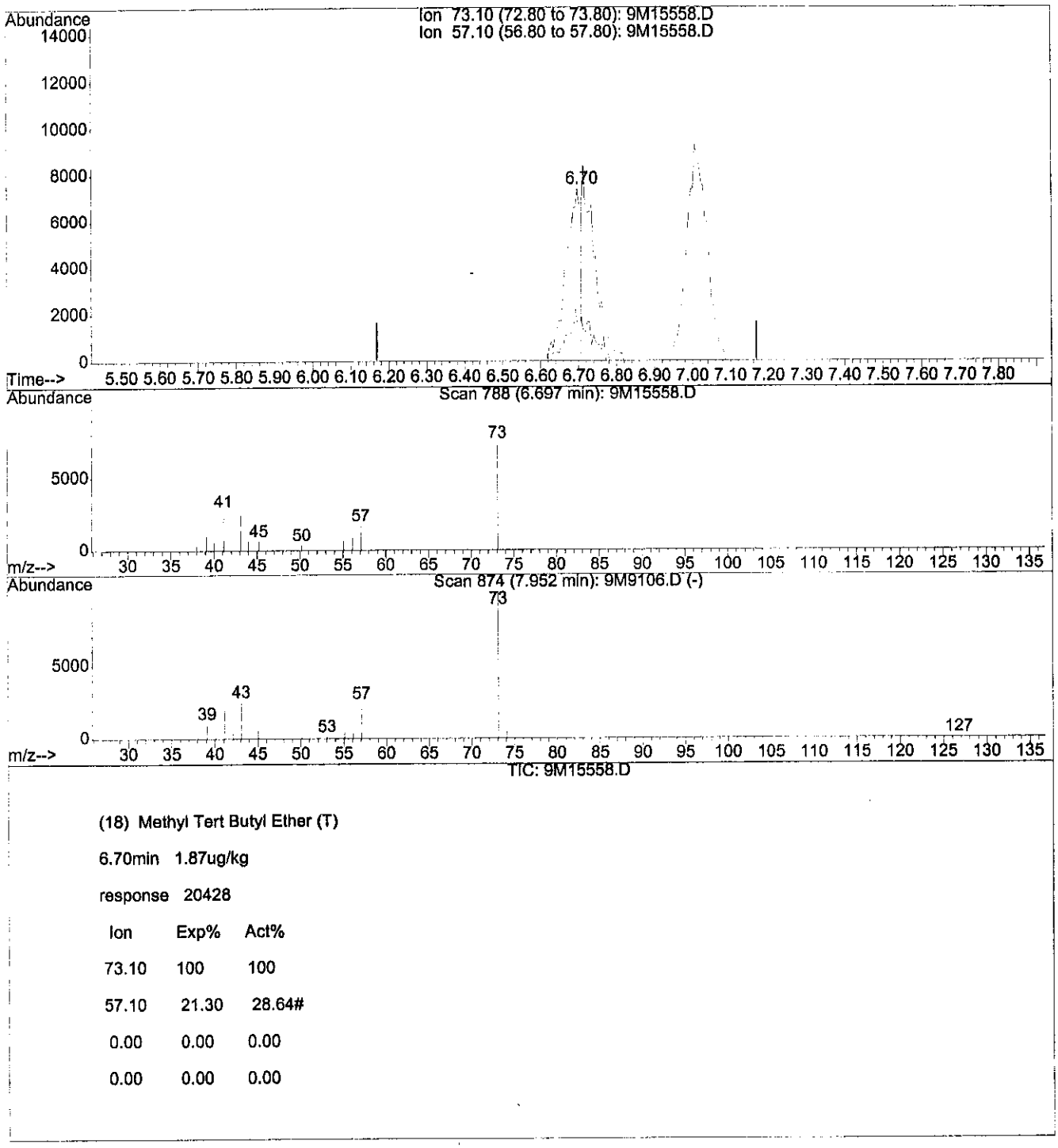
5/11/01

9M15558.D 8260SL.M Fri May 11 14:46:26 2001 HPMS_9

347

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(18) Methyl Tert Butyl Ether (T)

6.70min 1.87ug/kg

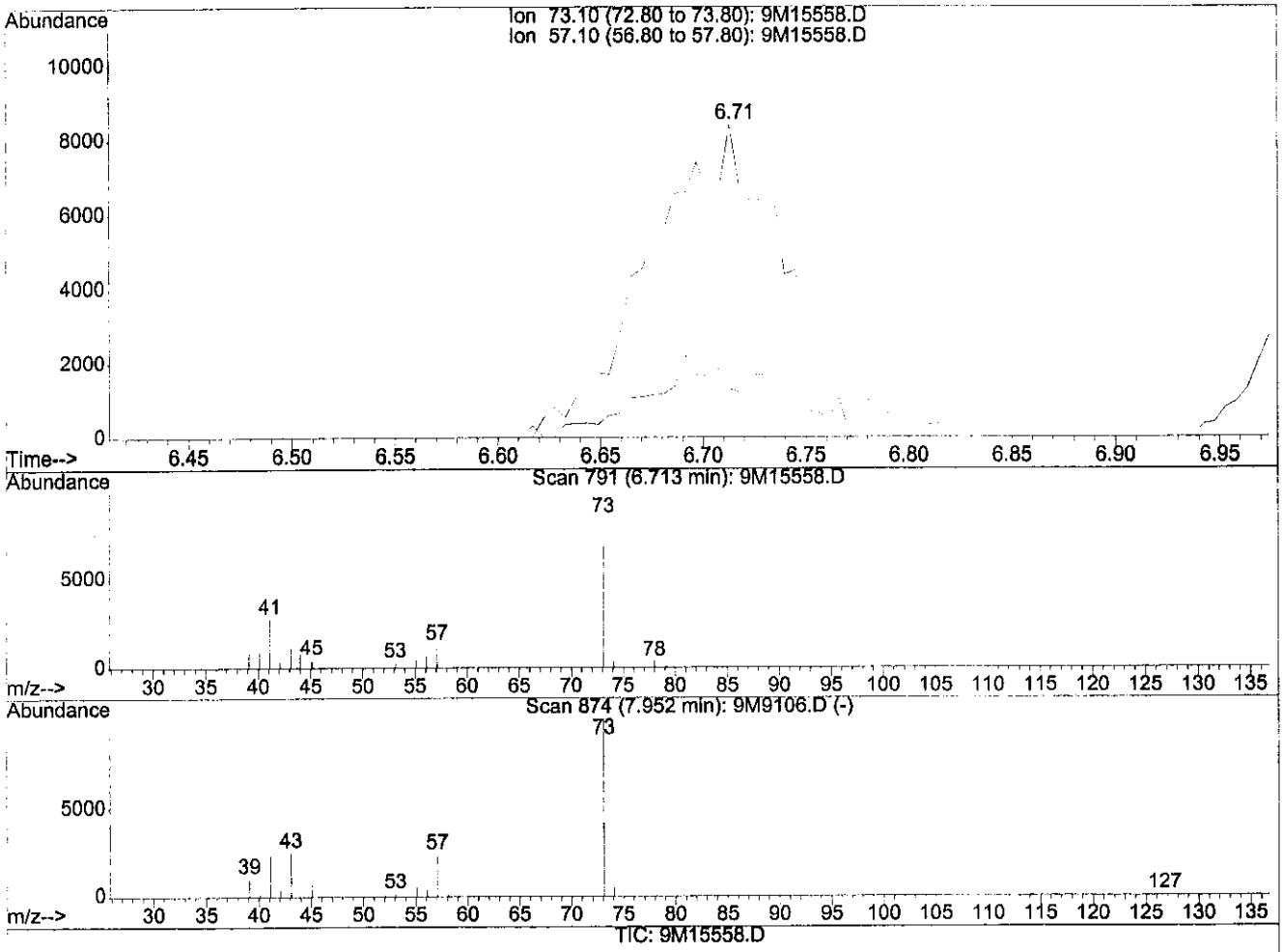
response 20428

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	28.64#
0.00	0.00	0.00
0.00	0.00	0.00

9M15558.D 8260SL.M Fri May 11 14:46:55 2001 HPMS_9

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(18) Methyl Tert Butyl Ether (T)

6.71min 3.55ug/kg m

response 38664

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	15.13#
0.00	0.00	0.00
0.00	0.00	0.00

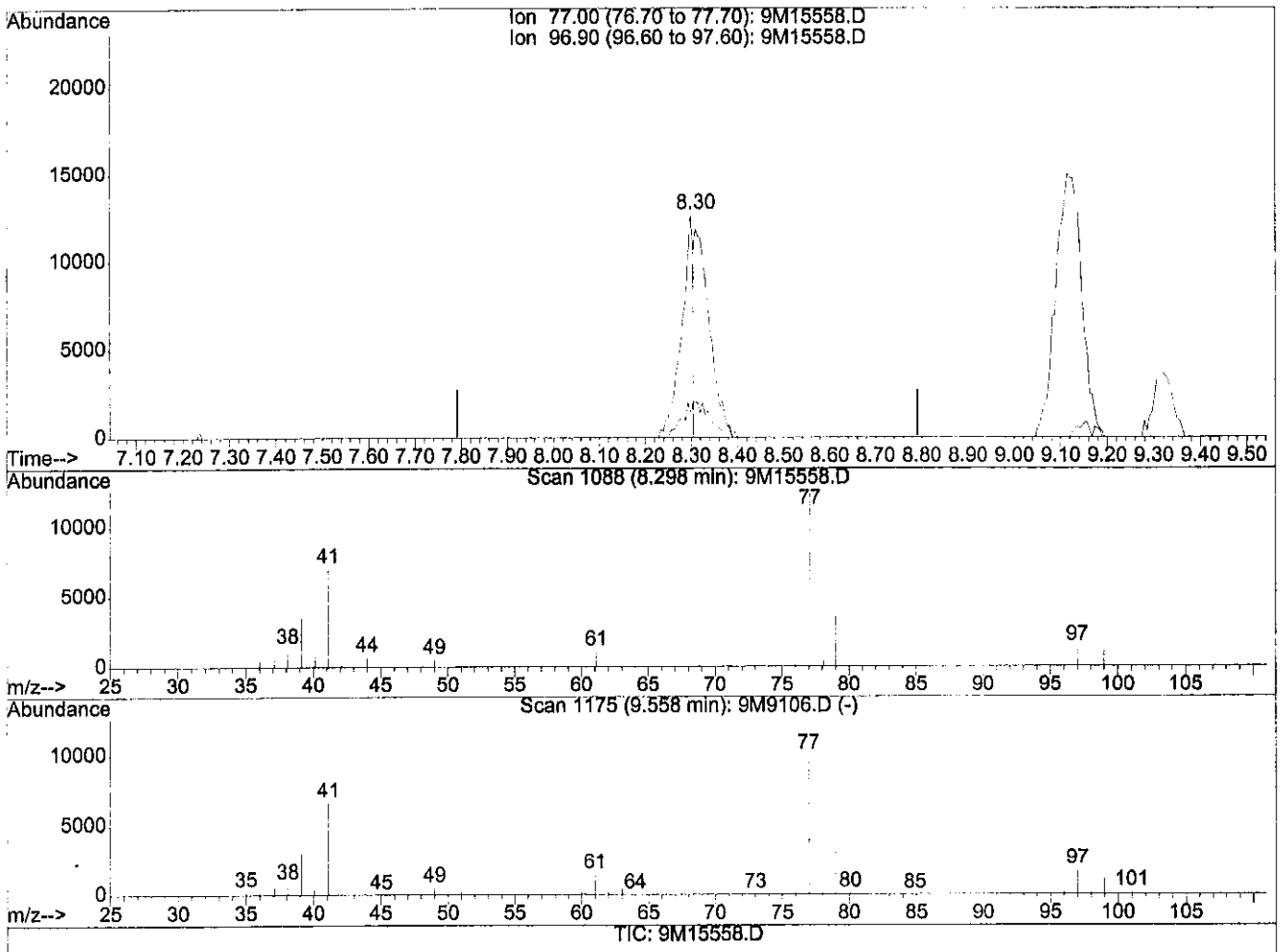
MEB 5.11.01

5/11/01

9M15558.D 8260SL.M Fri May 11 14:47:00 2001 HPMS_9

Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



TIC: 9M15558.D

(24) 2,2-Dichloropropane (T)

8.30min 2.02ug/kg

response 21812

Ion	Exp%	Act%
77.00	100	100
96.90	19.70	37.25#
0.00	0.00	0.00
0.00	0.00	0.00

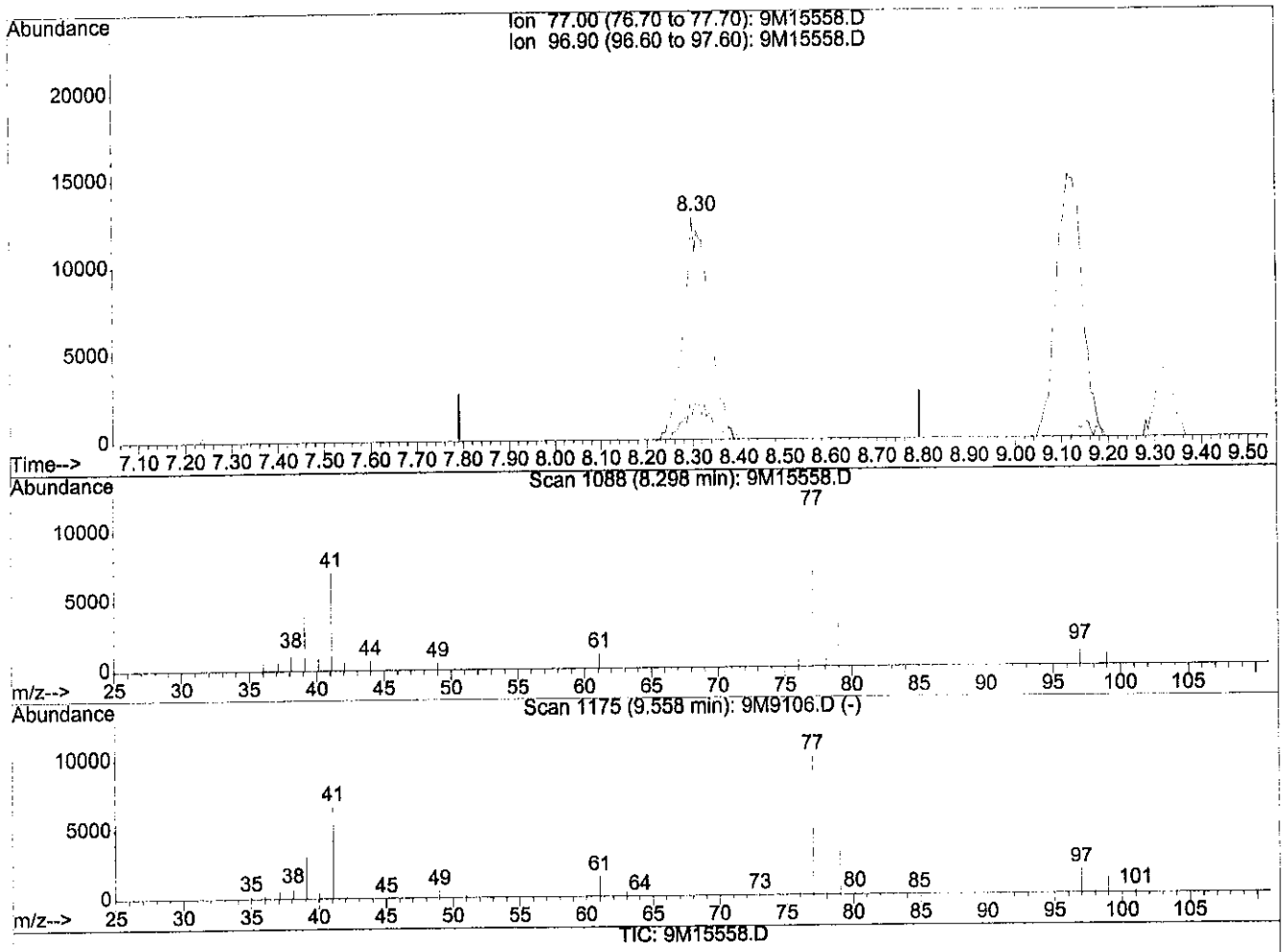
9M15558.D 8260SL.M Fri May 11 14:47:10 2001 HPMS_9

Acq On : 11 May 2001 13:18
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001

Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(24) 2,2-Dichloropropane (T)

8.30min 4.57ug/kg m

response 49224

Ion	Exp%	Act%
77.00	100	100
96.90	19.70	16.51
0.00	0.00	0.00
0.00	0.00	0.00

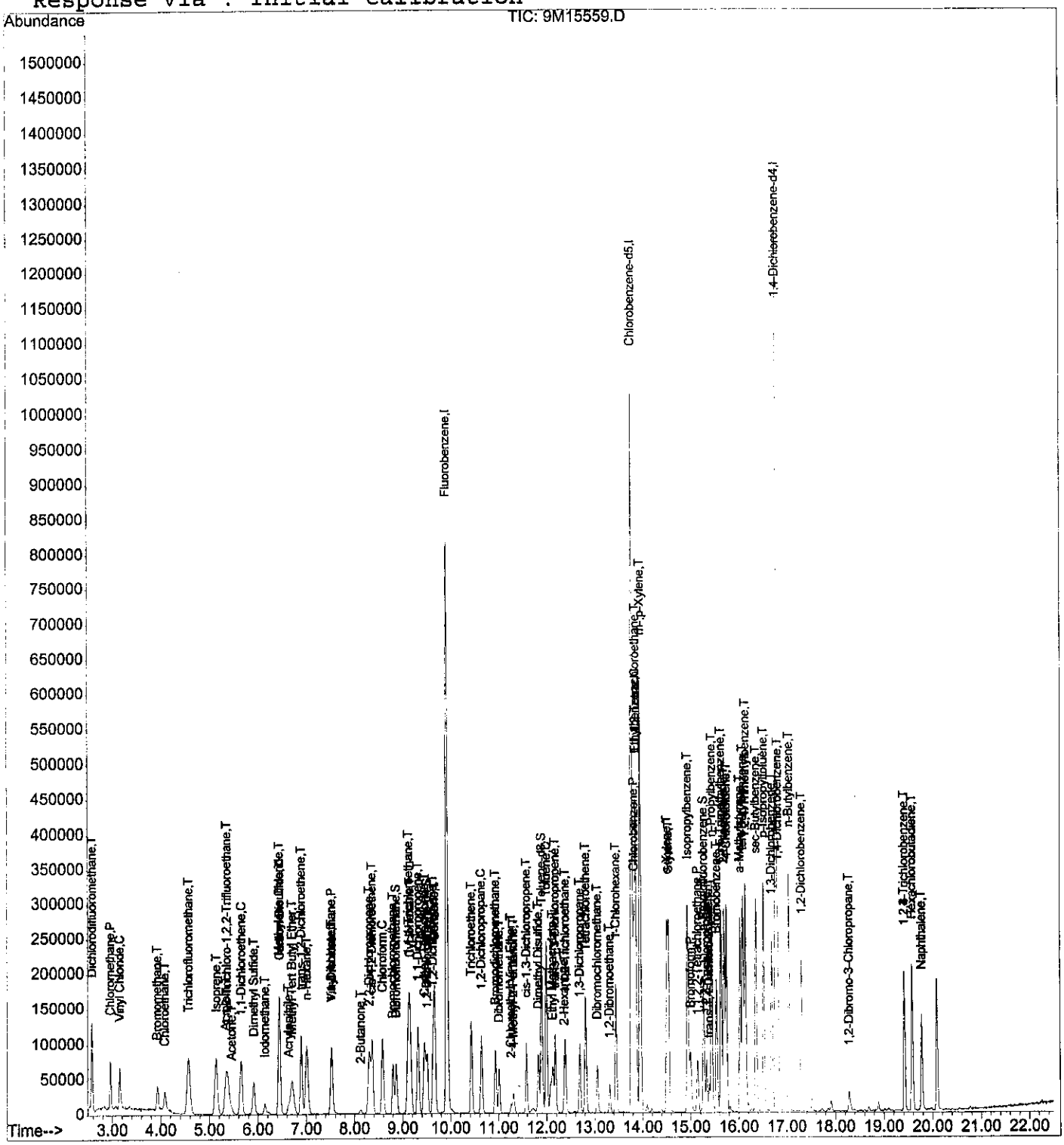
MCF 5.11.01

CMS 5/14/01

9M15558.D 8260SL.M Fri May 11 14:47:14 2001 HPMS_9

Acq On : 11 May 2001 13:50 Operator: MBS
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	992752	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	686710	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	418741	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	64863	10.29	ug/kg	0.01
Spiked Amount 50.000			Recovery =	20.58%		
33) 1,2-Dichloroethane-d4	9.51	65	81873	10.63	ug/kg	0.03
Spiked Amount 50.000			Recovery =	21.26%		
45) Toluene-d8	11.90	98	217969	10.43	ug/kg	0.02
Spiked Amount 50.000			Recovery =	20.86%		
66) p-Bromofluorobenzene	15.27	95	86489	10.22	ug/kg	0.00
Spiked Amount 50.000			Recovery =	20.44%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	136000	13.00	ug/kg	99
3) Chloromethane	2.96	50	69409	12.53	ug/kg	98
4) Vinyl Chloride	3.16	62	57105	13.03	ug/kg	97
5) Bromomethane	3.93	94	32095	11.44	ug/kg	96
6) Chloroethane	4.08	64	30578	11.78	ug/kg	92
7) Trichlorofluoromethane	4.57	101	164063	12.00	ug/kg	99
8) Isoprene	5.14	67	66492	9.35	ug/kg	98
9) Acrolein	5.33	56	8685	31.15	ug/kg	96
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	72714m	10.22	ug/kg	
11) Acetone	5.46	43	17610	9.40	ug/kg	96
12) 1,1-Dichloroethene	5.66	96	51332	9.02	ug/kg	97
13) Dimethyl Sulfide	5.92	62	35268	6.73	ug/kg	89
14) Iodomethane	6.14	142	26716	7.54	ug/kg	95
15) Methylene Chloride	6.43	84	55549	10.29	ug/kg	99
16) Carbon Disulfide	6.45	76	193226	8.95	ug/kg	99
17) Acrylonitrile	6.63	53	10472	7.59	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	102279	8.71	ug/kg#	89
19) trans-1,2-Dichloroethene	6.90	96	58672	9.57	ug/kg	96
20) n-Hexane	7.02	57	81254	8.49	ug/kg#	80
21) Vinyl Acetate	7.52	43	51435	9.04	ug/kg#	88
22) 1,1-Dichloroethane	7.53	63	116207	9.52	ug/kg	99
23) 2-Butanone	8.13	43	12468m	7.11	ug/kg	
24) 2,2-Dichloropropane	8.31	77	109752	9.45	ug/kg	97
25) cis-1,2-Dichloroethene	8.36	96	53567	8.78	ug/kg	93
26) Chloroform	8.58	83	123043	9.95	ug/kg	100
27) Bromochloromethane	8.80	128	22839	9.20	ug/kg	94
29) 1,1,1-Trichloroethane	9.12	97	128213	9.80	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15559.D 8260SL.M Fri May 11 14:56:31 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\[illegible]
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.16	56	88398	8.96	ug/kg	98
31)	1,1-Dichloropropene	9.32	75	87475	11.95	ug/kg	99
32)	Carbon Tetrachloride	9.46	117	112770	10.03	ug/kg	99
34)	1,2-Dichloroethane	9.63	62	94586	10.20	ug/kg	97
35)	Benzene	9.67	78	221275	9.47	ug/kg	99
36)	Trichloroethene	10.43	130	54805	9.04	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	51367	9.33	ug/kg	96
38)	Bromodichloromethane	10.94	83	82313	9.88	ug/kg	99
39)	Dibromomethane	11.01	93	30700	9.82	ug/kg	95
40)	2-Chloroethyl Vinyl Ether	11.26	63	6509	4.35	ug/kg	92
41)	4-Methyl-2-Pentanone	11.31	58	9686	6.12	ug/kg#	93
42)	cis-1,3-Dichloropropene	11.58	75	69906	9.54	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	29511	6.64	ug/kg	93
46)	Toluene	12.00	91	233096	10.32	ug/kg	100
47)	Ethyl Methacrylate	12.13	69	39242	8.32	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	74038	10.15	ug/kg	96
49)	1,1,2-Trichloroethane	12.39	97	39535	10.40	ug/kg	98
50)	2-Hexanone	12.36	43	22620	8.21	ug/kg	88
51)	1,3-Dichloropropane	12.70	76	66108	10.38	ug/kg	100
52)	Tetrachloroethene	12.81	164	48244	10.18	ug/kg	99
53)	Dibromochloromethane	13.06	129	50197	10.97	ug/kg	97
54)	1,2-Dibromoethane	13.32	107	34526	10.13	ug/kg	98
55)	1-Chlorohexane	13.45	91	66683	9.43	ug/kg	89
56)	Chlorobenzene	13.82	112	155166	10.29	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	55961	10.73	ug/kg	99
58)	Ethylbenzene	13.86	106	86122	10.43	ug/kg	99
59)	m-,p-Xylene	13.96	106	220197	21.61	ug/kg	97
60)	o-Xylene	14.51	106	90230	9.84	ug/kg	97
61)	Styrene	14.54	104	155582	10.36	ug/kg#	73
62)	Bromoform	15.01	173	31455	10.24	ug/kg	100
63)	Isopropylbenzene	14.94	105	253931	9.75	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.15	83	46369	9.73	ug/kg	98
67)	1,2,3-Trichloropropane	15.33	110	15496	10.32	ug/kg	90
68)	trans-1,4-Dichloro-2-Buten	15.39	53	13059	8.68	ug/kg	98
69)	n-Propylbenzene	15.45	91	362728	10.53	ug/kg	100
70)	Bromobenzene	15.54	156	63076	9.97	ug/kg	98
71)	1,3,5-Trimethylbenzene	15.63	105	222689	10.42	ug/kg	98
72)	2-Chlorotoluene	15.70	91	242848	11.09	ug/kg	96
73)	4-Chlorotoluene	15.75	91	223899	10.23	ug/kg	95
74)	a-Methylstyrene	16.03	118	100034	10.75	ug/kg	98
75)	tert-Butylbenzene	16.09	119	258143	11.28	ug/kg#	79

(#) = qualifier out of range (m) = manual integration
9M15559.D 8260SL.M Fri May 11 14:56:33 2001 HPMS_9 Page 2

Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	248627	11.13	ug/kg	87
77)	sec-Butylbenzene	16.36	105	300508	9.97	ug/kg	98
78)	p-Isopropyltoluene	16.52	119	253753	10.03	ug/kg	100
79)	1,3-Dichlorobenzene	16.69	146	119936	10.06	ug/kg	99
80)	1,4-Dichlorobenzene	16.81	146	125350	9.90	ug/kg	93
81)	n-Butylbenzene	17.04	91	262501	10.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	108131	10.38	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.29	157	7725	8.69	ug/kg	79
84)	1,2,4-Trichlorobenzene	19.43	180	78112	10.46	ug/kg	100
85)	Hexachlorobutadiene	19.59	225	62979	10.32	ug/kg	99
86)	Naphthalene	19.78	128	126710	10.50	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.43	180	78112	10.46	ug/kg	100

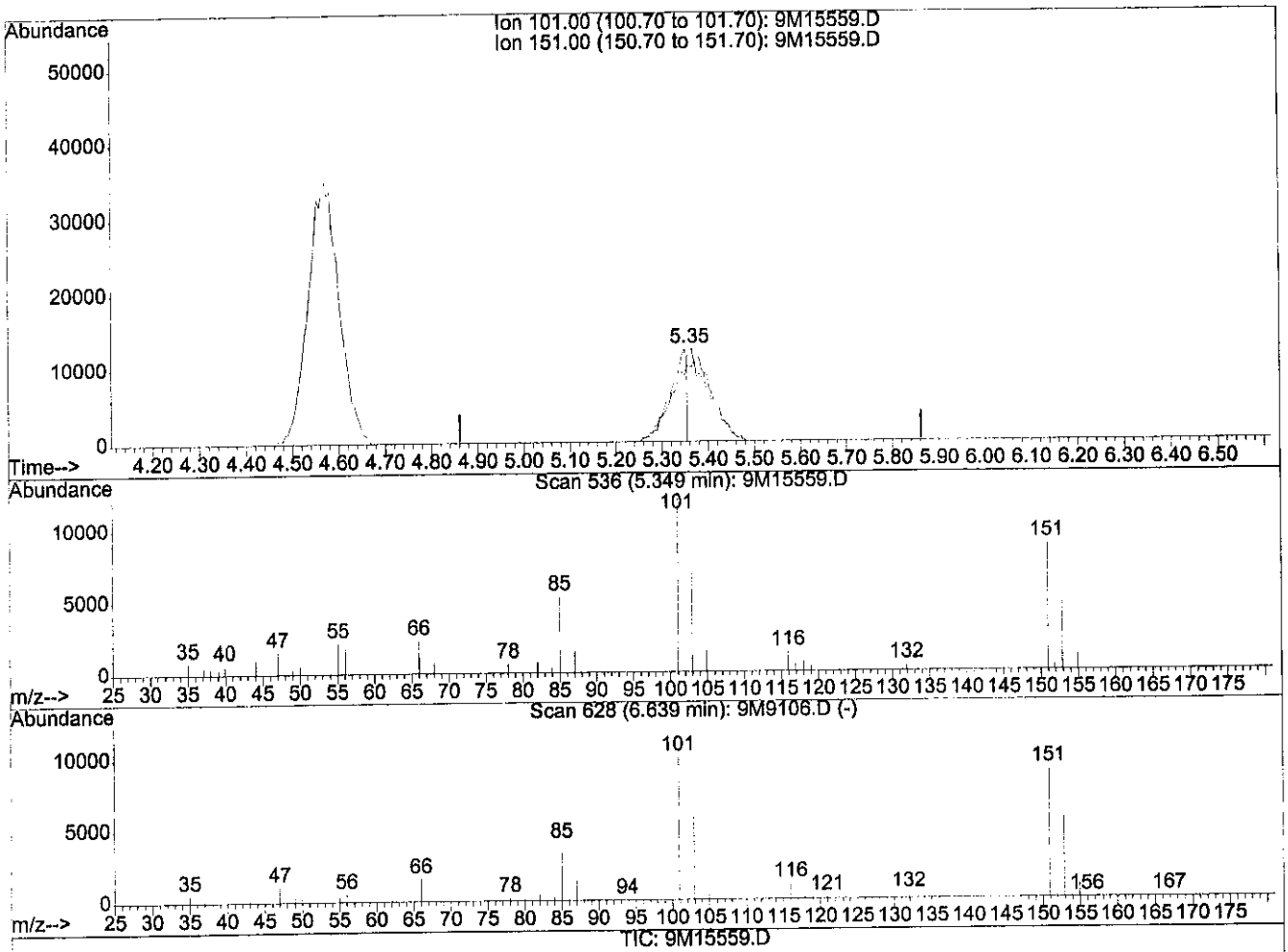
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\[illegible]
Acq On : 11 May 2001 13:50
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:12 2001

Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.35min 4.48ug/kg

response 31878

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	195.33#
0.00	0.00	0.00
0.00	0.00	0.00

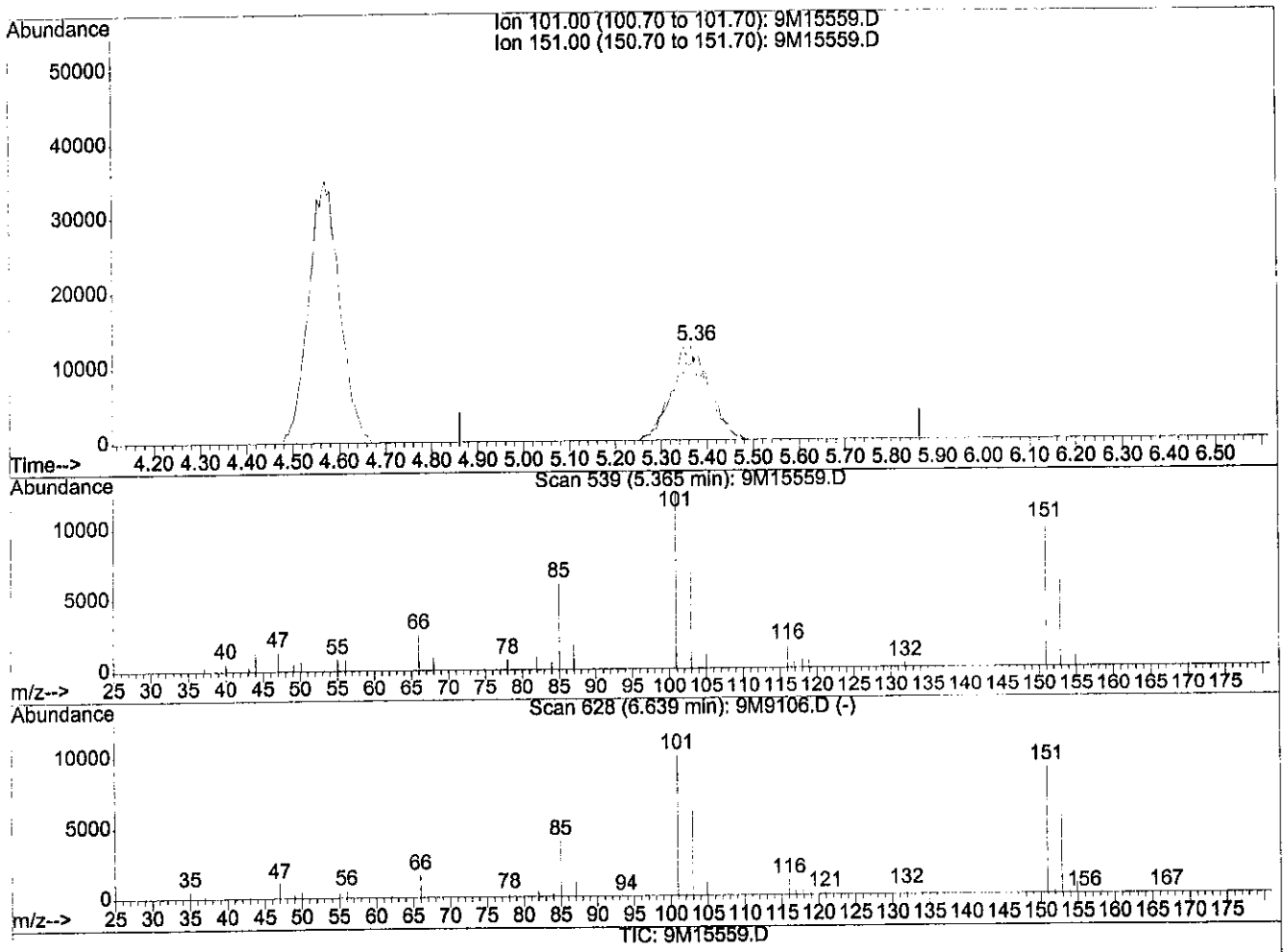
9M15559.D 8260SL.M Fri May 11 14:48:49 2001 HPMS_9

Data File : D:\HPCHEM\1\DATA\[illegible]
Acq On : 11 May 2001 13:50
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:48 2001

Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 10.22ug/kg m

response 72714

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	85.63#
0.00	0.00	0.00
0.00	0.00	0.00

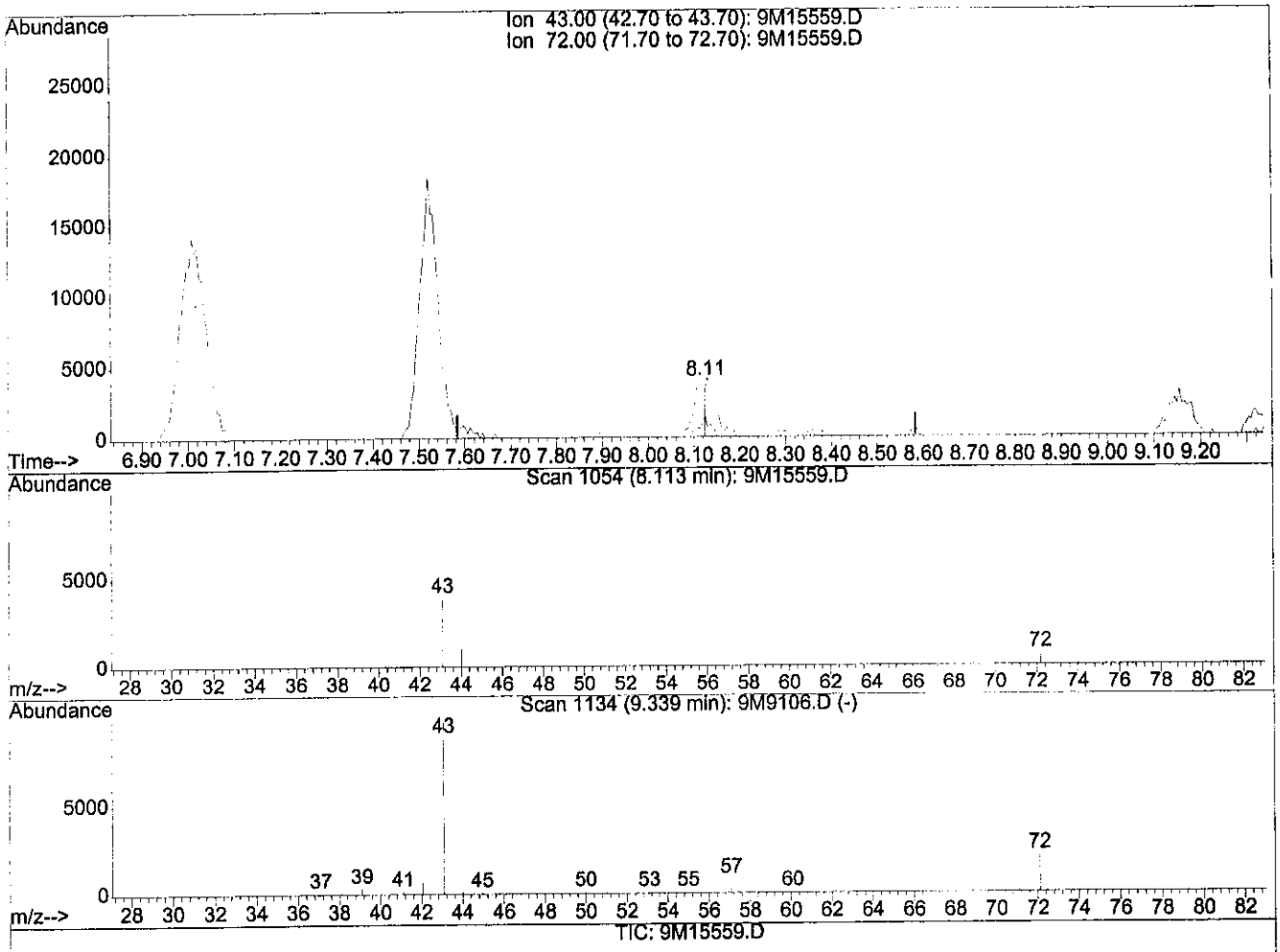
5.11.01

5/11/01

9M15559.D 8260SL.M Fri May 11 14:48:53 2001 HPMS_9

Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:48 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(23) 2-Butanone (T)

8.11min 3.78ug/kg

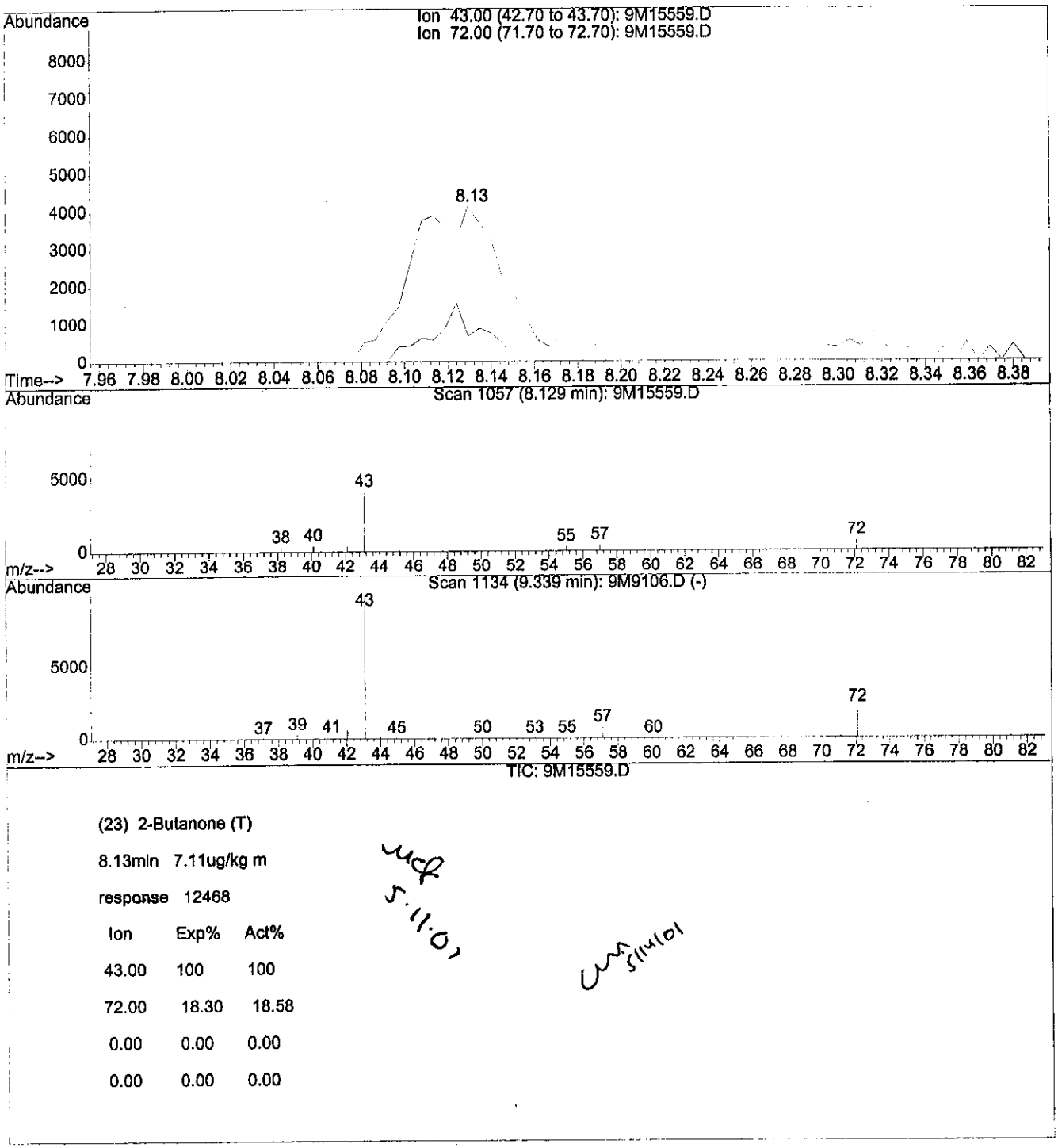
response 6617

Ion	Exp%	Act%
43.00	100	100
72.00	18.30	35.00#
0.00	0.00	0.00
0.00	0.00	0.00

9M15559.D 8260SL.M Fri May 11 14:49:09 2001 HPMS_9

Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(23) 2-Butanone (T)

8.13min 7.11ug/kg m

response 12468

Ion	Exp%	Act%
43.00	100	100
72.00	18.30	18.58
0.00	0.00	0.00
0.00	0.00	0.00

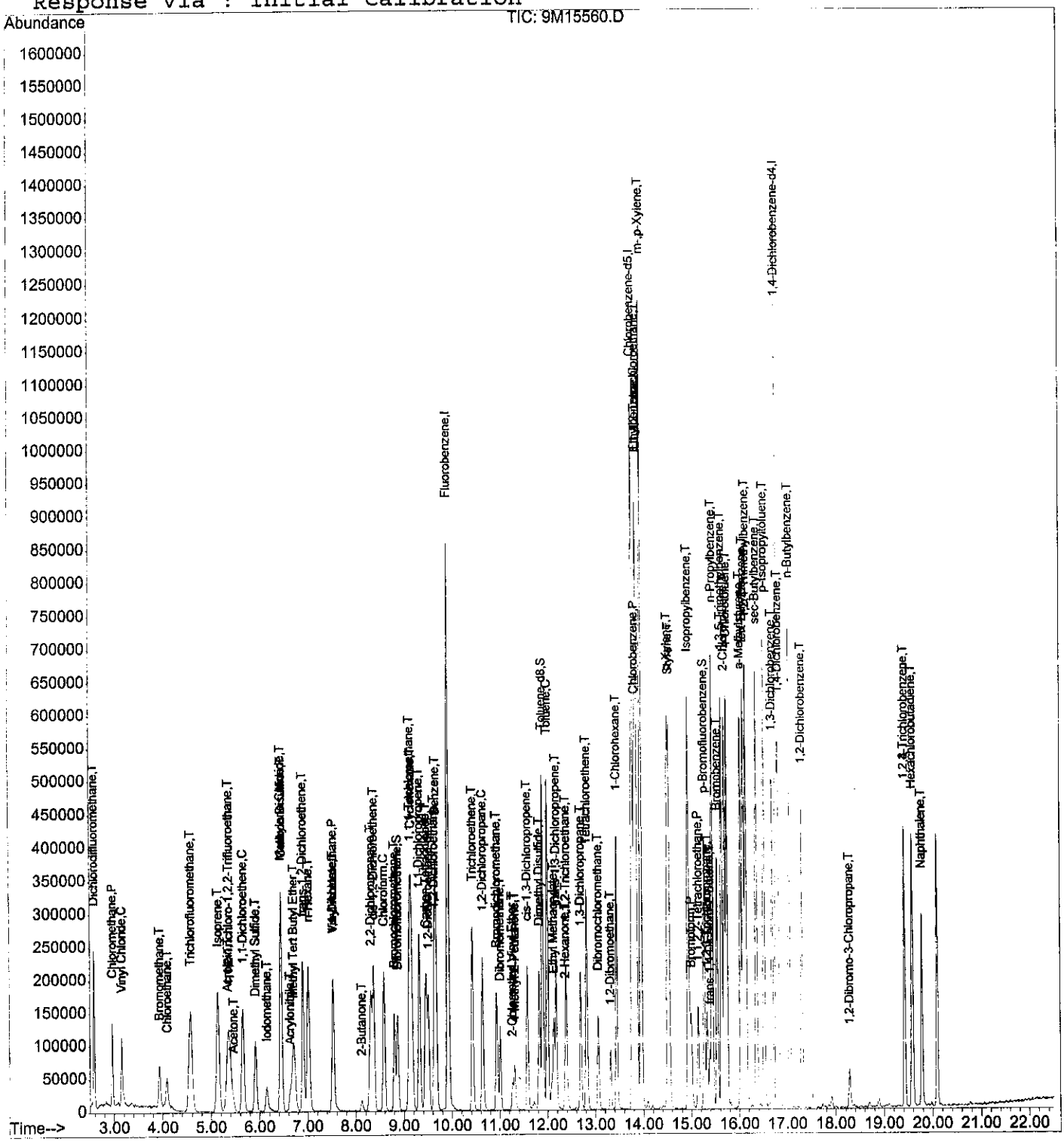
mcp 5.11.01

5/11/01

9M15559.D 8260SL.M Fri May 11 14:49:14 2001 HPMS_9

Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1049945	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	739902	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	445687	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	131149	19.68	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery =	39.36%#		
33) 1,2-Dichloroethane-d4	9.51	65	162794	19.99	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery =	39.98%#		
45) Toluene-d8	11.90	98	466249	20.70	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery =	41.40%#		
66) p-Bromofluorobenzene	15.27	95	181785	20.19	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	40.38%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	260912	23.57	ug/kg	98
3) Chloromethane	2.96	50	132453	22.61	ug/kg	98
4) Vinyl Chloride	3.16	62	104392	22.52	ug/kg	99
5) Bromomethane	3.93	94	61586	20.75	ug/kg	97
6) Chloroethane	4.08	64	61264	22.32	ug/kg	97
7) Trichlorofluoromethane	4.57	101	316251	21.88	ug/kg	98
8) Isoprene	5.14	67	151104	20.08	ug/kg	97
9) Acrolein	5.34	56	18354	62.24	ug/kg	97
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	144024	19.14	ug/kg	99
11) Acetone	5.46	43	30755	15.52	ug/kg	92
12) 1,1-Dichloroethene	5.65	96	106416	17.67	ug/kg	97
13) Dimethyl Sulfide	5.91	62	81085	14.62	ug/kg	92
14) Iodomethane	6.15	142	66645	17.79	ug/kg	100
15) Methylene Chloride	6.43	84	107569	18.85	ug/kg	99
16) Carbon Disulfide	6.45	76	399188	17.48	ug/kg	99
17) Acrylonitrile	6.62	53	23255	15.94	ug/kg	98
18) Methyl Tert Butyl Ether	6.71	73	228266	18.39	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	125126	19.31	ug/kg	98
20) n-Hexane	7.01	57	185063	18.29	ug/kg#	76
21) Vinyl Acetate	7.52	43	124457	20.68	ug/kg	97
22) 1,1-Dichloroethane	7.52	63	235731	18.25	ug/kg	99
23) 2-Butanone	8.12	43	28979	15.64	ug/kg#	80
24) 2,2-Dichloropropane	8.32	77	221803	18.07	ug/kg	98
25) cis-1,2-Dichloroethene	8.37	96	118806	18.42	ug/kg	95
26) Chloroform	8.58	83	245512	18.77	ug/kg	100
27) Bromochloromethane	8.80	128	47255	17.99	ug/kg	93
29) 1,1,1-Trichloroethane	9.12	97	257559	18.60	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15560.D 8260SL.M Fri May 11 14:44:53 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\...
Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	207242	19.87	ug/kg	99
31)	1,1-Dichloropropene	9.32	75	185632	23.99	ug/kg	100
32)	Carbon Tetrachloride	9.46	117	222224	18.68	ug/kg	99
34)	1,2-Dichloroethane	9.63	62	189522	19.33	ug/kg	99
35)	Benzene	9.67	78	455725	18.44	ug/kg	99
36)	Trichloroethene	10.43	130	114961	17.93	ug/kg	99
37)	1,2-Dichloropropane	10.64	63	105154	18.07	ug/kg	96
38)	Bromodichloromethane	10.93	83	169767	19.26	ug/kg	99
39)	Dibromomethane	11.01	93	62520	18.91	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	20943	13.24	ug/kg	93
41)	4-Methyl-2-Pentanone	11.32	58	25859	15.44	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	155472	20.05	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	77538	16.49	ug/kg	94
46)	Toluene	12.00	91	494683	20.33	ug/kg	100
47)	Ethyl Methacrylate	12.13	69	91822	18.07	ug/kg#	90
48)	trans-1,3-Dichloropropene	12.18	75	161890	20.61	ug/kg	98
49)	1,1,2-Trichloroethane	12.38	97	81845	19.98	ug/kg	97
50)	2-Hexanone	12.36	43	47063	15.86	ug/kg#	87
51)	1,3-Dichloropropane	12.69	76	141238	20.57	ug/kg	98
52)	Tetrachloroethene	12.81	164	99688	19.53	ug/kg	100
53)	Dibromochloromethane	13.06	129	101654	20.61	ug/kg	98
54)	1,2-Dibromoethane	13.31	107	72549	19.76	ug/kg	99
55)	1-Chlorohexane	13.44	91	160950	21.12	ug/kg	96
56)	Chlorobenzene	13.82	112	317874	19.57	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	113480	20.19	ug/kg	96
58)	Ethylbenzene	13.86	106	180414	20.28	ug/kg	99
59)	m-,p-Xylene	13.95	106	459439	41.85	ug/kg	99
60)	o-Xylene	14.51	106	204830	20.72	ug/kg	99
61)	Styrene	14.54	104	335337	20.72	ug/kg#	74
62)	Bromoform	15.00	173	65026	19.64	ug/kg	100
63)	Isopropylbenzene	14.94	105	575384	20.51	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.15	83	97872	19.30	ug/kg	98
67)	1,2,3-Trichloropropane	15.33	110	31710	19.84	ug/kg	87
68)	trans-1,4-Dichloro-2-Buten	15.38	53	28690	17.91	ug/kg	98
69)	n-Propylbenzene	15.44	91	778921	21.24	ug/kg	100
70)	Bromobenzene	15.54	156	135281	20.09	ug/kg	96
71)	1,3,5-Trimethylbenzene	15.63	105	486527	21.38	ug/kg	98
72)	2-Chlorotoluene	15.70	91	469564	20.15	ug/kg	100
73)	4-Chlorotoluene	15.74	91	490441	21.06	ug/kg	99
74)	a-Methylstyrene	16.03	118	223170	22.54	ug/kg	97
75)	tert-Butylbenzene	16.08	119	520482	21.36	ug/kg#	77

(#) = qualifier out of range (m) = manual integration
9M15560.D 8260SL.M Fri May 11 14:44:54 2001 HPMS_9 Page 2

Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

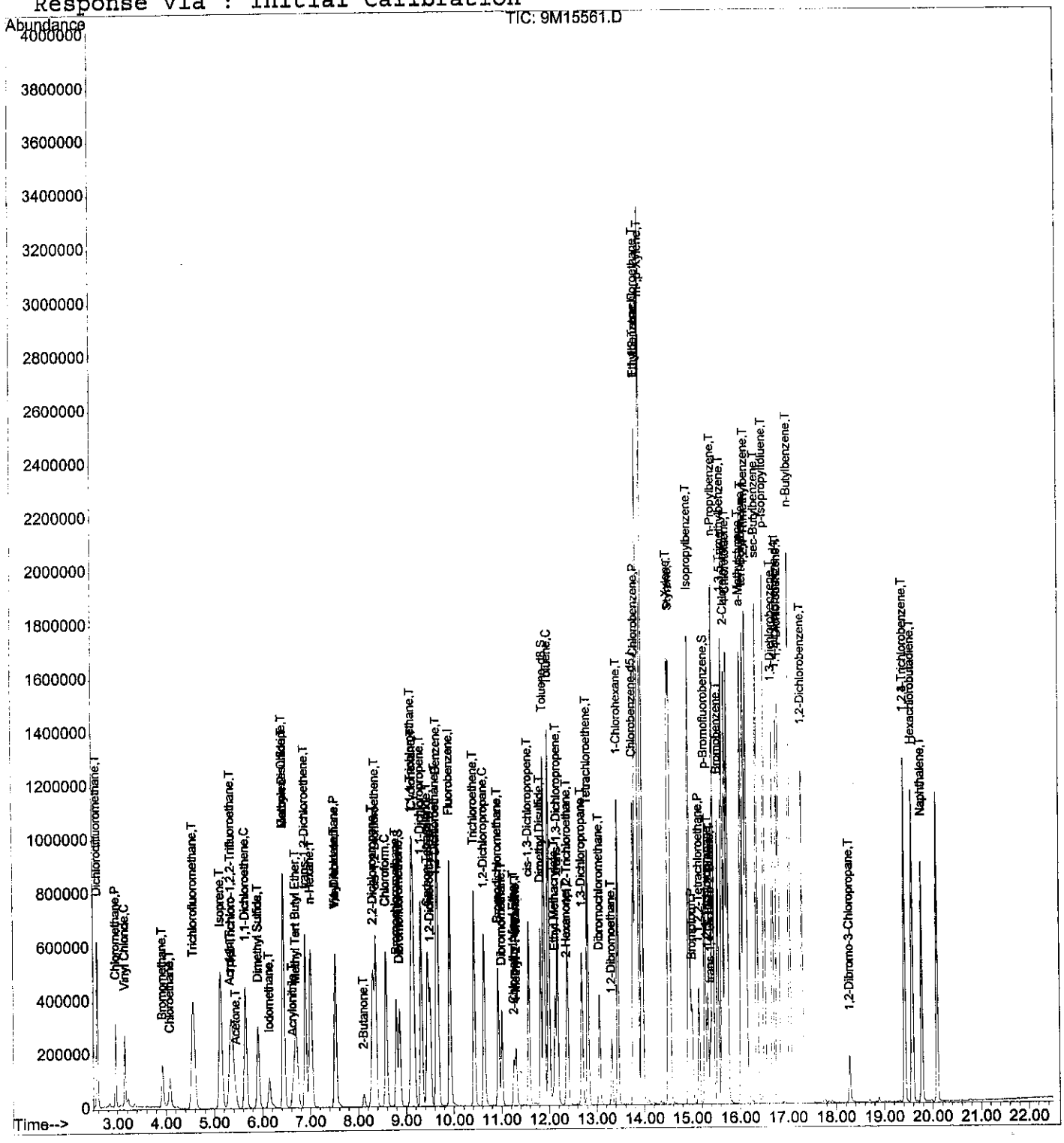
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	526698	22.15	ug/kg	85
77)	sec-Butylbenzene	16.35	105	650951	20.29	ug/kg	98
78)	p-Isopropyltoluene	16.52	119	561971	20.87	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	253589	19.99	ug/kg	99
80)	1,4-Dichlorobenzene	16.81	146	257586	19.12	ug/kg	99
81)	n-Butylbenzene	17.04	91	561359	21.91	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	227652	20.53	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.28	157	18107	19.14	ug/kg	99
84)	1,2,4-Trichlorobenzene	19.42	180	169376	21.32	ug/kg	100
85)	Hexachlorobutadiene	19.58	225	128774	19.83	ug/kg	99
86)	Naphthalene	19.78	128	283805	22.10	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.42	180	169376	21.32	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15560.D 8260SL.M Fri May 11 14:44:54 2001 HPMS_9 Page 3

Data File : [illegible]
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\9M15561.D
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1144542	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	788685	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	476161	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	332402	45.75	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.50%			
33) 1,2-Dichloroethane-d4	9.51	65	409283	46.10	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.20%			
45) Toluene-d8	11.90	98	1225681	51.04	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 102.08%			
66) p-Bromofluorobenzene	15.27	95	484257	50.34	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 100.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	681538	56.49	ug/kg	99
3) Chloromethane	2.96	50	324250	50.79	ug/kg	97
4) Vinyl Chloride	3.15	62	262167	51.88	ug/kg	98
5) Bromomethane	3.93	94	161046	49.78	ug/kg	98
6) Chloroethane	4.08	64	153580	51.32	ug/kg	96
7) Trichlorofluoromethane	4.56	101	809230	51.35	ug/kg	99
8) Isoprene	5.14	67	443942	54.13	ug/kg	99
9) Acrolein	5.33	56	60187	187.23	ug/kg	98
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	378922	46.19	ug/kg#	39
11) Acetone	5.45	43	81492	37.73	ug/kg	91
12) 1,1-Dichloroethene	5.65	96	311853	47.51	ug/kg	99
13) Dimethyl Sulfide	5.91	62	245050	40.53	ug/kg	97
14) Iodomethane	6.14	142	199600	48.88	ug/kg	99
15) Methylene Chloride	6.43	84	291215	46.81	ug/kg	98
16) Carbon Disulfide	6.45	76	1081158	43.43	ug/kg	100
17) Acrylonitrile	6.62	53	66273	41.66	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	692162	51.15	ug/kg	100
19) trans-1,2-Dichloroethene	6.90	96	353975	50.10	ug/kg	98
20) n-Hexane	7.01	57	547735	49.66	ug/kg#	77
21) Vinyl Acetate	7.52	43	399173	60.85	ug/kg	97
22) 1,1-Dichloroethane	7.52	63	659033	46.81	ug/kg	99
23) 2-Butanone	8.11	43	92811	45.94	ug/kg	94
24) 2,2-Dichloropropane	8.31	77	648410	48.45	ug/kg	100
25) cis-1,2-Dichloroethene	8.37	96	348176	49.51	ug/kg	98
26) Chloroform	8.58	83	667215	46.80	ug/kg	99
27) Bromochloromethane	8.80	128	134117	46.84	ug/kg	97
29) 1,1,1-Trichloroethane	9.12	97	717464	47.54	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15561.D 8260SL.M Fri May 11 15:17:49 2001 HPMS_9 Page 1

Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	594793	52.31	ug/kg	99
31)	1,1-Dichloropropene	9.32	75	544831	64.58	ug/kg	98
32)	Carbon Tetrachloride	9.46	117	617003	47.58	ug/kg	98
34)	1,2-Dichloroethane	9.63	62	508669	47.59	ug/kg	98
35)	Benzene	9.67	78	1300306	48.26	ug/kg	100
36)	Trichloroethene	10.43	130	337737	48.33	ug/kg	99
37)	1,2-Dichloropropane	10.64	63	304019	47.91	ug/kg	99
38)	Bromodichloromethane	10.93	83	470335	48.95	ug/kg	99
39)	Dibromomethane	11.01	93	166921	46.31	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	86578	50.20	ug/kg	95
41)	4-Methyl-2-Pentanone	11.30	58	81683	44.74	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	478093	56.57	ug/kg	99
43)	Dimethyl Disulfide	11.83	79	257824	50.30	ug/kg	99
46)	Toluene	12.00	91	1413288	54.50	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	276502	51.05	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	467056	55.77	ug/kg	100
49)	1,1,2-Trichloroethane	12.39	97	234704	53.76	ug/kg	100
50)	2-Hexanone	12.36	43	149707	47.32	ug/kg	95
51)	1,3-Dichloropropane	12.69	76	404405	55.26	ug/kg	97
52)	Tetrachloroethene	12.81	164	289720	53.25	ug/kg	97
53)	Dibromochloromethane	13.05	129	300170	57.09	ug/kg	99
54)	1,2-Dibromoethane	13.31	107	211991	54.17	ug/kg	99
55)	1-Chlorohexane	13.44	91	479323	59.01	ug/kg	99
56)	Chlorobenzene	13.82	112	877576	50.70	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.86	131	323173	53.93	ug/kg	98
58)	Ethylbenzene	13.86	106	517384	54.55	ug/kg	96
59)	m-,p-Xylene	13.96	106	1281014	109.48	ug/kg	99
60)	o-Xylene	14.51	106	591658	56.15	ug/kg	97
61)	Styrene	14.54	104	971144	56.29	ug/kg#	74
62)	Bromoform	15.00	173	195407	55.37	ug/kg	99
63)	Isopropylbenzene	14.93	105	1684787	56.35	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	278212	51.36	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	89373	52.34	ug/kg	90
68)	trans-1,4-Dichloro-2-Buten	15.39	53	86053	50.29	ug/kg	93
69)	n-Propylbenzene	15.44	91	2210055	56.41	ug/kg	99
70)	Bromobenzene	15.54	156	372130	51.72	ug/kg	98
71)	1,3,5-Trimethylbenzene	15.63	105	1409823	58.00	ug/kg	100
72)	2-Chlorotoluene	15.70	91	1388980	55.78	ug/kg	97
73)	4-Chlorotoluene	15.74	91	1296932	52.13	ug/kg	96
74)	a-Methylstyrene	16.03	118	688349	65.08	ug/kg	96
75)	tert-Butylbenzene	16.09	119	1512437	58.09	ug/kg#	75

(#) = qualifier out of range (m) = manual integration
9M15561.D 8260SL.M Fri May 11 15:17:50 2001 HPMS_9 Page 2

Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

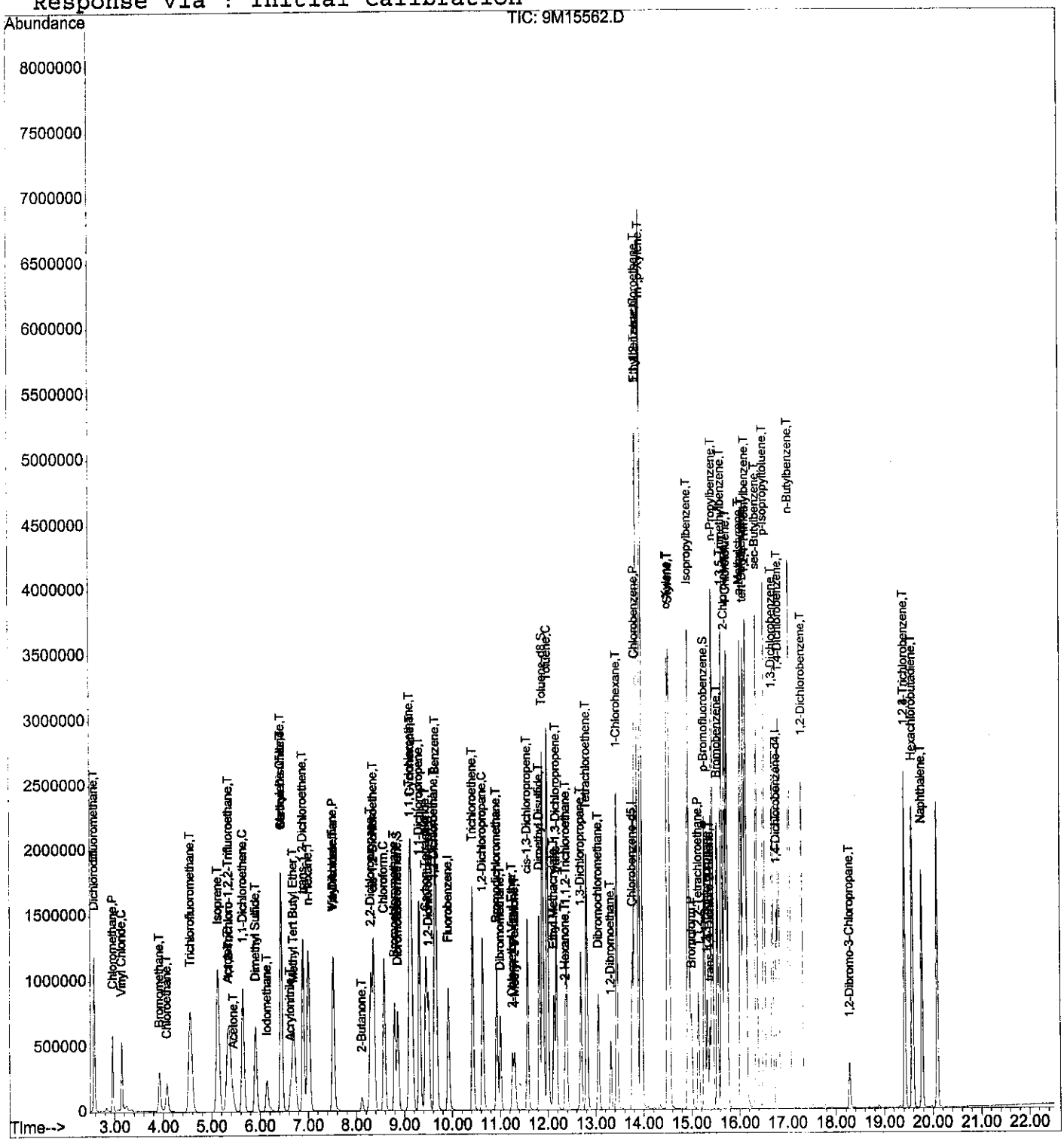
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	1462245	57.55	ug/kg	88
77)	sec-Butylbenzene	16.35	105	1910614	55.73	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	1623149	56.41	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	717180	52.92	ug/kg	98
80)	1,4-Dichlorobenzene	16.82	146	728938	50.63	ug/kg	98
81)	n-Butylbenzene	17.04	91	1628950	59.50	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	641642	54.17	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.28	157	59064	58.44	ug/kg	90
84)	1,2,4-Trichlorobenzene	19.42	180	510858	60.18	ug/kg	100
85)	Hexachlorobutadiene	19.58	225	364927	52.60	ug/kg	98
86)	Naphthalene	19.78	128	880460	64.19	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.42	180	510858	60.18	ug/kg	100

(#) = qualifier out of range (m) = manual integration

Acq On : 11 May 2001 15:27 Operator: MBS
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1210526	50.00	ug/kg	0.00
44) Chlorobenzene-d5	13.77	117	832623	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.78	152	496344	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	693424	90.24	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 180.48%#			
33) 1,2-Dichloroethane-d4	9.51	65	819147	87.24	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 174.48%#			
45) Toluene-d8	11.90	98	2617453	103.25	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 206.50%#			
66) p-Bromofluorobenzene	15.27	95	1024218	102.14	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 204.28%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	1344342	105.35	ug/kg	98
3) Chloromethane	2.96	50	624595	92.49	ug/kg	96
4) Vinyl Chloride	3.15	62	525899	98.39	ug/kg	98
5) Bromomethane	3.92	94	312944	91.45	ug/kg	96
6) Chloroethane	4.08	64	310884	98.23	ug/kg	98
7) Trichlorofluoromethane	4.56	101	1620609	97.24	ug/kg	99
8) Isoprene	5.14	67	969888	111.81	ug/kg	99
9) Acrolein	5.33	56	131776	387.58	ug/kg	100
10) 1,1,2-Trichloro-1,2,2-Trif	5.35	101	764204	88.08	ug/kg#	38
11) Acetone	5.45	43	154968	67.85	ug/kg#	90
12) 1,1-Dichloroethene	5.65	96	662605	95.44	ug/kg	97
13) Dimethyl Sulfide	5.91	62	544812	85.20	ug/kg	99
14) Iodomethane	6.14	142	455981	105.57	ug/kg	97
15) Methylene Chloride	6.43	84	610497	92.78	ug/kg	95
16) Carbon Disulfide	6.45	76	2332876	88.59	ug/kg	100
17) Acrylonitrile	6.62	53	150891	89.68	ug/kg	99
18) Methyl Tert Butyl Ether	6.69	73	1528535	106.81	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	749888	100.36	ug/kg	99
20) n-Hexane	7.01	57	1177027	100.91	ug/kg#	76
21) Vinyl Acetate	7.52	43	880287	126.87	ug/kg	98
22) 1,1-Dichloroethane	7.52	63	1363847	91.58	ug/kg	99
23) 2-Butanone	8.12	43	195990	91.72	ug/kg#	91
24) 2,2-Dichloropropane	8.31	77	1366642	96.55	ug/kg	100
25) cis-1,2-Dichloroethene	8.37	96	750035	100.84	ug/kg	97
26) Chloroform	8.58	83	1380987	91.58	ug/kg	100
27) Bromochloromethane	8.80	128	284936	94.08	ug/kg	98
29) 1,1,1-Trichloroethane	9.12	97	1473038	92.29	ug/kg	96

(#) = qualifier out of range (m) = manual integration
9M15562.D 8260SL.M Fri May 11 15:49:45 2001 HPMS_9 Page 1

Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	1298123	107.95	ug/kg	98
31)	1,1-Dichloropropene	9.32	75	1152128	129.13	ug/kg	98
32)	Carbon Tetrachloride	9.45	117	1282510	93.52	ug/kg	99
34)	1,2-Dichloroethane	9.63	62	1028146	90.94	ug/kg	99
35)	Benzene	9.67	78	2763838	96.99	ug/kg	99
36)	Trichloroethene	10.43	130	729337	98.68	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	652499	97.23	ug/kg	96
38)	Bromodichloromethane	10.93	83	984917	96.91	ug/kg	100
39)	Dibromomethane	11.01	93	348900	91.52	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	219785	120.50	ug/kg	98
41)	4-Methyl-2-Pentanone	11.31	58	174678	90.45	ug/kg	99
42)	cis-1,3-Dichloropropene	11.58	75	1049079	117.37	ug/kg	99
43)	Dimethyl Disulfide	11.83	79	581486	107.25	ug/kg	95
46)	Toluene	12.00	91	3022554	110.40	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	611838	106.99	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	989353	111.91	ug/kg	100
49)	1,1,2-Trichloroethane	12.39	97	485598	105.36	ug/kg	100
50)	2-Hexanone	12.36	43	326617	97.79	ug/kg	97
51)	1,3-Dichloropropane	12.69	76	856499	110.87	ug/kg	95
52)	Tetrachloroethene	12.82	164	613039	106.73	ug/kg	96
53)	Dibromochloromethane	13.06	129	639965	115.30	ug/kg	100
54)	1,2-Dibromoethane	13.31	107	453261	109.72	ug/kg	100
55)	1-Chlorohexane	13.45	91	1069477	124.72	ug/kg	96
56)	Chlorobenzene	13.82	112	1839412	100.65	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	665609	105.21	ug/kg	98
58)	Ethylbenzene	13.86	106	1073482	107.21	ug/kg	100
59)	m-,p-Xylene	13.96	106	2716397	219.91	ug/kg	100
60)	o-Xylene	14.51	106	1259978	113.27	ug/kg	97
61)	Styrene	14.54	104	2087110	114.60	ug/kg#	75
62)	Bromoform	15.00	173	414910	111.37	ug/kg	99
63)	Isopropylbenzene	14.93	105	3644009	115.45	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	582014	103.07	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	181729	102.09	ug/kg	92
68)	trans-1,4-Dichloro-2-Buten	15.38	53	183018	102.61	ug/kg#	82
69)	n-Propylbenzene	15.44	91	4679879	114.58	ug/kg	100
70)	Bromobenzene	15.54	156	777108	103.62	ug/kg	97
71)	1,3,5-Trimethylbenzene	15.63	105	2989408	117.98	ug/kg	98
72)	2-Chlorotoluene	15.70	91	2719064	104.75	ug/kg	99
73)	4-Chlorotoluene	15.75	91	2692436	103.82	ug/kg	97
74)	a-Methylstyrene	16.02	118	1494526	135.56	ug/kg	96
75)	tert-Butylbenzene	16.09	119	3025209	111.48	ug/kg#	76

(#) = qualifier out of range (m) = manual integration
9M15562.D 8260SL.M Fri May 11 15:49:46 2001 HPMS_9 Page 2

Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

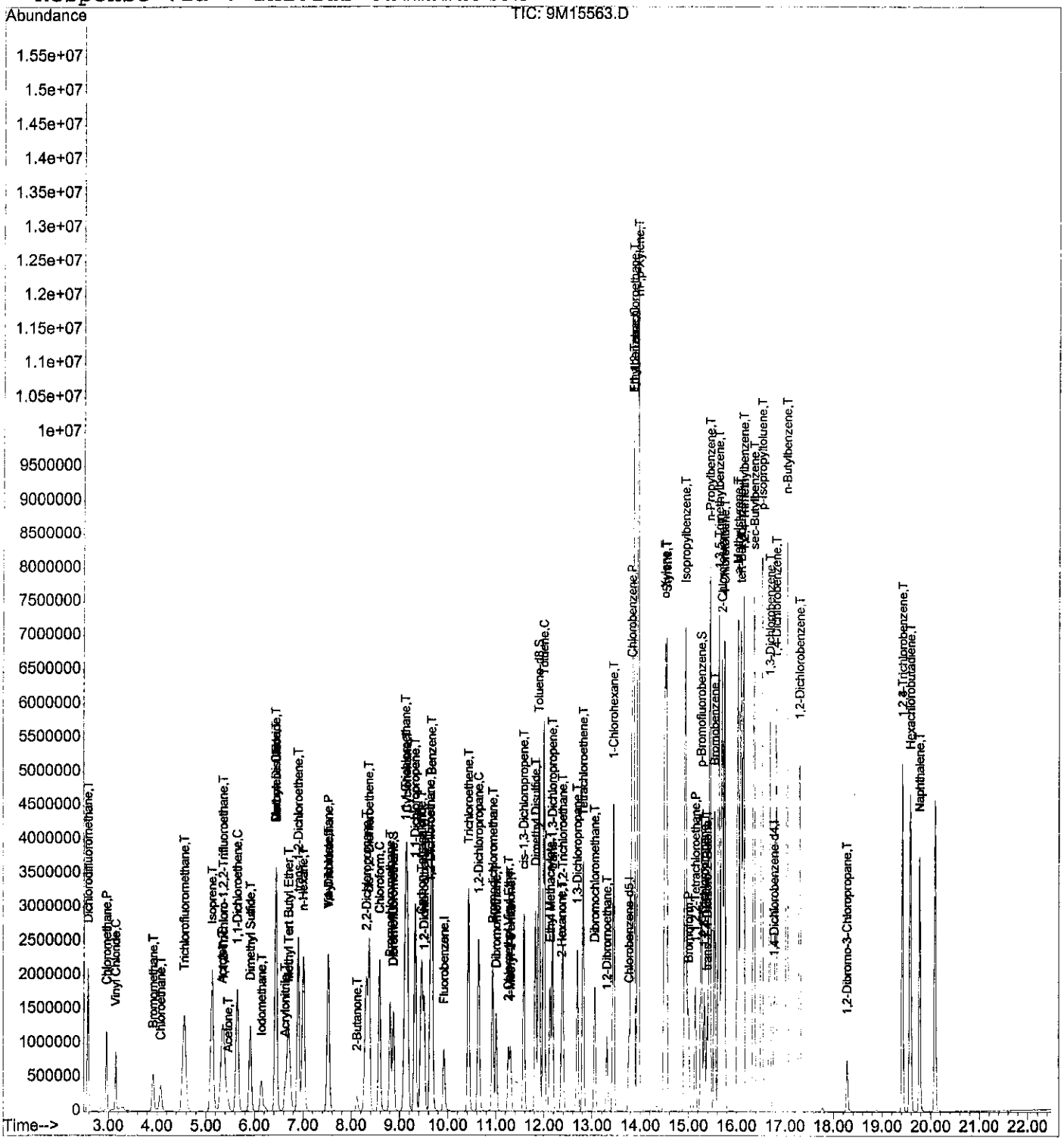
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	3046938	115.05	ug/kg	89
77)	sec-Butylbenzene	16.35	105	4000110	111.94	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	3386247	112.90	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	1494770	105.81	ug/kg	97
80)	1,4-Dichlorobenzene	16.82	146	1501350	100.04	ug/kg	97
81)	n-Butylbenzene	17.04	91	3393311	118.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	1320336	106.94	ug/kg	99
83)	1,2-Dibromo-3-Chloropropan	18.29	157	120851	114.71	ug/kg	88
84)	1,2,4-Trichlorobenzene	19.42	180	1049301	118.58	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	747380	103.35	ug/kg	97
86)	Naphthalene	19.77	128	1807661	126.42	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.42	180	1049301	118.58	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1192784	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	831485	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	519377	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	1330951	175.79	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 351.58%#			
33) 1,2-Dichloroethane-d4	9.51	65	1553641	167.93	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 335.86%#			
45) Toluene-d8	11.90	98	5040476	199.11	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 398.22%#			
66) p-Bromofluorobenzene	15.27	95	2055346	195.88	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 391.76%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	2444230	194.40	ug/kg	98
3) Chloromethane	2.96	50	1244614	187.05	ug/kg	97
4) Vinyl Chloride	3.14	62	825606	156.76	ug/kg	99
5) Bromomethane	3.92	94	570772	169.28	ug/kg	96
6) Chloroethane	4.07	64	581921	186.60	ug/kg	98
7) Trichlorofluoromethane	4.56	101	2972143	180.99	ug/kg	100
8) Isoprene	5.12	67	1924070	225.10	ug/kg	97
9) Acrolein	5.33	56	280766	838.07	ug/kg	100
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	1445572	169.08	ug/kg#	37
11) Acetone	5.46	43	296986	131.96	ug/kg#	89
12) 1,1-Dichloroethene	5.64	96	1298234	189.78	ug/kg	95
13) Dimethyl Sulfide	5.91	62	1084267	172.09	ug/kg	98
14) Iodomethane	6.15	142	901029	211.71	ug/kg	93
15) Methylene Chloride	6.43	84	1202876	185.53	ug/kg	92
16) Carbon Disulfide	6.44	76	4546529	175.23	ug/kg	100
17) Acrylonitrile	6.62	53	308728	186.23	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	3075602	218.10	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	1482018	201.29	ug/kg	97
20) n-Hexane	7.00	57	2248642	195.64	ug/kg#	75
21) Vinyl Acetate	7.52	43	1820103	266.23	ug/kg	99
22) 1,1-Dichloroethane	7.52	63	2640320	179.93	ug/kg	99
23) 2-Butanone	8.11	43	403398	191.60	ug/kg#	91
24) 2,2-Dichloropropane	8.31	77	2617540	187.68	ug/kg	98
25) cis-1,2-Dichloroethene	8.37	96	1479128	201.83	ug/kg	95
26) Chloroform	8.58	83	2682967	180.58	ug/kg	99
27) Bromochloromethane	8.80	128	567551	190.19	ug/kg	96
29) 1,1,1-Trichloroethane	9.12	97	2800007	178.04	ug/kg	95

(#) = qualifier out of range (m) = manual integration
9M15563.D 8260SL.M Fri May 11 16:21:45 2001 HPMS_9 Page 1

Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	2531055	213.61	ug/kg	98
31)	1,1-Dichloropropene	9.32	75	2230945	253.76	ug/kg	96
32)	Carbon Tetrachloride	9.45	117	2433703	180.10	ug/kg	98
34)	1,2-Dichloroethane	9.63	62	1946018	174.69	ug/kg	98
35)	Benzene	9.67	78	5474487	194.98	ug/kg	99
36)	Trichloroethene	10.43	130	1450234	199.14	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	1298106	196.31	ug/kg	93
38)	Bromodichloromethane	10.93	83	1939628	193.69	ug/kg	99
39)	Dibromomethane	11.01	93	690889	183.93	ug/kg	97
40)	2-Chloroethyl Vinyl Ether	11.26	63	505860	281.46	ug/kg	99
41)	4-Methyl-2-Pentanone	11.30	58	389849	204.87	ug/kg	100
42)	cis-1,3-Dichloropropene	11.58	75	2105783	239.10	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	1189876	222.73	ug/kg	93
46)	Toluene	12.00	91	5960968	218.03	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	1301028	227.82	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	1965271	222.60	ug/kg	98
49)	1,1,2-Trichloroethane	12.39	97	987524	214.55	ug/kg	99
50)	2-Hexanone	12.36	43	694622	208.25	ug/kg	98
51)	1,3-Dichloropropane	12.69	76	1727632	223.94	ug/kg	93
52)	Tetrachloroethene	12.81	164	1193597	208.10	ug/kg	94
53)	Dibromochloromethane	13.05	129	1326428	239.31	ug/kg	100
54)	1,2-Dibromoethane	13.31	107	948875	230.00	ug/kg	99
55)	1-Chlorohexane	13.44	91	2113385	246.79	ug/kg	91
56)	Chlorobenzene	13.82	112	3663923	200.76	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.86	131	1309270	207.24	ug/kg	98
58)	Ethylbenzene	13.86	106	2132774	213.29	ug/kg	96
59)	m-,p-Xylene	13.96	106	5403618	438.05	ug/kg	99
60)	o-Xylene	14.51	106	2552485	229.78	ug/kg	96
61)	Styrene	14.54	104	4285378	235.63	ug/kg#	76
62)	Bromoform	15.00	173	886559	238.29	ug/kg	100
63)	Isopropylbenzene	14.94	105	7389900	234.45	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.15	83	1248503	211.29	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	389351	209.03	ug/kg	88
68)	trans-1,4-Dichloro-2-Buten	15.39	53	400504	214.58	ug/kg#	81
69)	n-Propylbenzene	15.44	91	9548827	223.43	ug/kg	100
70)	Bromobenzene	15.54	156	1599235	203.79	ug/kg	95
71)	1,3,5-Trimethylbenzene	15.63	105	6166229	232.57	ug/kg	98
72)	2-Chlorotoluene	15.70	91	5872745	216.22	ug/kg	97
73)	4-Chlorotoluene	15.74	91	5602709	206.45	ug/kg	96
74)	a-Methylstyrene	16.03	118	3228297	279.83	ug/kg	94
75)	tert-Butylbenzene	16.09	119	6178506	217.58	ug/kg#	73

(#) = qualifier out of range (m) = manual integration
9M15563.D 8260SL.M Fri May 11 16:21:46 2001 HPMS_9 Page 2

Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	6268011	226.17	ug/kg	88
77)	sec-Butylbenzene	16.36	105	8314355	222.35	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	7069655	225.25	ug/kg	99
79)	1,3-Dichlorobenzene	16.69	146	3108471	210.28	ug/kg	96
80)	1,4-Dichlorobenzene	16.82	146	3125737	199.05	ug/kg	95
81)	n-Butylbenzene	17.04	91	7015055	234.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	2773973	214.72	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.28	157	271032	245.86	ug/kg	86
84)	1,2,4-Trichlorobenzene	19.43	180	2166873	234.02	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	1529889	202.17	ug/kg	97
86)	Naphthalene	19.78	128	3937887	263.19	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.43	180	2166873	234.02	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15563.D 8260SL.M Fri May 11 16:21:47 2001 HPMS_9 Page 3

Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	20.000	15.815	20.9	84	-0.02
3	P	Chloromethane	20.000	17.795	11.0	91	-0.03
4	C	Vinyl Chloride	20.000	16.961	15.2	94	0.00
5	T	Bromomethane	20.000	20.784	-3.9	110	0.00
6	T	Chloroethane	20.000	18.683	6.6	96	0.00
7	T	Trichlorofluoromethane	20.000	17.549	12.3	96	0.00
8	T	Isoprene	20.000	0.138	99.3#	1	0.00
9	T	Acrolein	40.000	0.000	100.0#	0	-5.31#
10	T	1,1,2-Trichloro-1,2,2-Trifl	20.000	0.014	99.9#	0	0.04
11	T	Acetone	20.000	17.945	10.3	104	0.01
12	C	1,1-Dichloroethene	20.000	22.225	-11.1	123	0.00
13	T	Dimethyl Sulfide	20.000	0.000	100.0#	0	-5.90#
14	T	Iodomethane	20.000	31.593	-58.0#	180	0.00
15	T	Methylene Chloride	20.000	21.328	-6.6	123	0.00
16	T	Carbon Disulfide	20.000	18.072	9.6	96	0.00
17	T	Acrylonitrile	20.000	0.091	99.5#	1	0.00
18	T	Methyl Tert Butyl Ether	20.000	23.661	-18.3	135	0.03
19	T	trans-1,2-Dichloroethene	20.000	22.486	-12.4	120	0.01
20	T	n-Hexane	20.000	23.526	-17.6	126	0.00
21	T	Vinyl Acetate	20.000	20.217	-1.1	118	0.02
22	P	1,1-Dichloroethane	20.000	20.717	-3.6	113	0.00
23	T	2-Butanone	20.000	22.153	-10.8	127	0.04
24	T	2,2-Dichloropropane	20.000	20.258	-1.3	113	0.01
25	T	cis-1,2-Dichloroethene	20.000	21.992	-10.0	117	0.00
26	C	Chloroform	20.000	20.509	-2.5	112	0.02
27	T	Bromochloromethane	20.000	22.089	-10.4	122	0.01
28	S	Dibromofluoromethane	20.000	45.417	-127.1#	242	0.01
29	T	1,1,1-Trichloroethane	20.000	20.083	-0.4	110	0.00
30	T	Cyclohexane	20.000	0.057	99.7#	0	0.00
31	T	1,1-Dichloropropene	20.000	20.054	-0.3	102	0.00
32	T	Carbon Tetrachloride	20.000	19.842	0.8	109	0.00
33	S	1,2-Dichloroethane-d4	20.000	45.616	-128.1#	237	0.02
34	T	1,2-Dichloroethane	20.000	19.545	2.3	106	0.01
35	T	Benzene	20.000	21.124	-5.6	112	0.01
36	T	Trichloroethene	20.000	21.687	-8.4	118	0.01
37	C	1,2-Dichloropropane	20.000	20.220	-1.1	110	0.01
38	T	Bromodichloromethane	20.000	20.505	-2.5	111	0.01
39	T	Dibromomethane	20.000	20.252	-1.3	110	0.01
40	T	2-Chloroethyl Vinyl Ether	20.000	19.136	4.3	119	0.00
41	T	4-Methyl-2-Pentanone	20.000	20.314	-1.6	107	0.01

(#) = Out of Range
9M15567.D 8260SOIL.M Fri May 11 18:49:36 2001 HPMS_9 Page 1

Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	20.000	20.549	-2.7	118	0.01
43	T	Dimethyl Disulfide	20.000	0.000	100.0#	0	-11.81#
44	I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
45	S	Toluene-d8	20.000	48.613	-143.1#	252	0.00
46	C	Toluene	20.000	22.233	-11.2	116	0.00
47	T	Ethyl Methacrylate	20.000	0.000	100.0#	0	-12.12#
48	T	trans-1,3-Dichloropropene	20.000	20.499	-2.5	107	0.00
49	T	1,1,2-Trichloroethane	20.000	20.494	-2.5	113	0.00
50	T	2-Hexanone	20.000	18.215	8.9	112	0.01
51	T	1,3-Dichloropropane	20.000	20.324	-1.6	110	0.00
52	T	Tetrachloroethene	20.000	21.064	-5.3	116	0.00
53	T	Dibromochloromethane	20.000	19.757	1.2	111	0.00
54	T	1,2-Dibromoethane	20.000	20.942	-4.7	118	0.00
55	T	1-Chlorohexane	20.000	21.654	-8.3	125	0.00
56	P	Chlorobenzene	20.000	19.850	0.7	111	0.00
57	T	1,1,1,2-Tetrachloroethane	20.000	19.408	3.0	109	0.00
58	C	Ethylbenzene	20.000	20.689	-3.4	111	0.00
59	T	m-,p-Xylene	40.000	43.307	-8.3	113	0.00
60	T	o-Xylene	20.000	21.314	-6.6	115	0.00
61	T	Styrene	20.000	20.181	-0.9	114	0.00
62	P	Bromoform	20.000	18.918	5.4	108	0.01
63	T	Isopropylbenzene	20.000	19.658	1.7	108	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
65	P	1,1,2,2-Tetrachloroethane	20.000	20.034	-0.2	112	0.00
66	S	p-Bromofluorobenzene	20.000	50.673	-153.4#	273	0.00
67	T	1,2,3-Trichloropropane	20.000	20.460	-2.3	111	0.00
68	T	trans-1,4-Dichloro-2-Butene	20.000	0.141	99.3#	1	-0.01
69	T	n-Propylbenzene	20.000	21.547	-7.7	112	0.00
70	T	Bromobenzene	20.000	20.876	-4.4	109	0.00
71	T	1,3,5-Trimethylbenzene	20.000	20.878	-4.4	115	0.00
72	T	2-Chlorotoluene	20.000	21.484	-7.4	115	0.00
73	T	4-Chlorotoluene	20.000	21.115	-5.6	105	0.00
74	T	a-Methylstyrene	20.000	4.022	79.9#	0	-0.01
75	T	tert-Butylbenzene	20.000	19.352	3.2	105	0.00
76	T	1,2,4-Trimethylbenzene	20.000	20.876	-4.4	110	0.00
77	T	sec-Butylbenzene	20.000	20.878	-4.4	111	0.00
78	T	p-Isopropyltoluene	20.000	19.690	1.5	105	0.00
79	T	1,3-Dichlorobenzene	20.000	20.808	-4.0	111	0.00
80	T	1,4-Dichlorobenzene	20.000	20.202	-1.0	112	0.00

(#) = Out of Range

Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

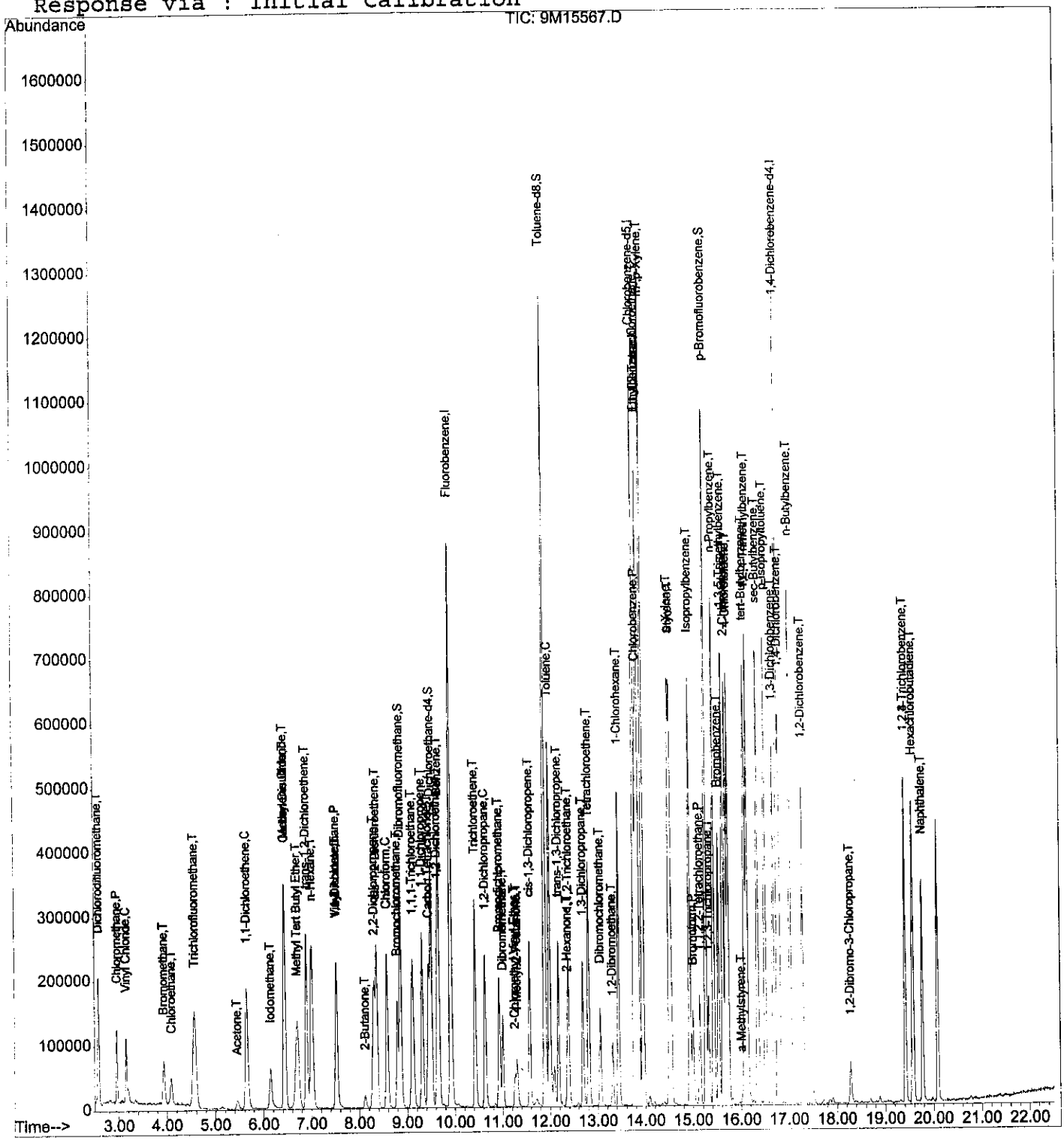
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	20.000	22.266	-11.3	113	0.00
82	T	1,2-Dichlorobenzene	20.000	20.963	-4.8	110	0.00
83	T	1,2-Dibromo-3-Chloropropane	20.000	19.951	0.2	116	0.00
84	T	1,2,4-Trichlorobenzene	20.000	21.479	-7.4	116	0.00
85	T	Hexachlorobutadiene	20.000	21.510	-7.6	115	0.00
86	T	Naphthalene	20.000	22.571	-12.9	120	0.00
87	T	1,2,3-Trichlorobenzene	20.000	21.479	-7.4	116	0.00

Data File : [illegible]
Acq On : 11 May 2001 18:26
Sample : WG97218-10 20PPB ALT SOURCE SV7911
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001

Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Acq On : 11 May 2001 18:26
Sample : WG97218-10 20PPB ALT SOURCE SV7911
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001

Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1124352	50.00	ug/kg	0.00
44) Chlorobenzene-d5	13.77	117	799307	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	472793	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	316793	45.42	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.84%			
33) 1,2-Dichloroethane-d4	9.51	65	385632	45.62	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.24%			
45) Toluene-d8	11.89	98	1172890	48.61	ug/kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery = 97.22%			
66) p-Bromofluorobenzene	15.27	95	495823	50.67	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 101.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	218272	15.82	ug/kg	99
3) Chloromethane	2.96	50	119886	17.79	ug/kg	98
4) Vinyl Chloride	3.15	62	97852	16.96	ug/kg	98
5) Bromomethane	3.94	94	67934	20.78	ug/kg	96
6) Chloroethane	4.09	64	58938	18.68	ug/kg#	75
7) Trichlorofluoromethane	4.57	101	302365	17.55	ug/kg	99
11) Acetone	5.45	43	31871	17.94	ug/kg	98
12) 1,1-Dichloroethene	5.64	96	130662	22.23	ug/kg	96
14) Iodomethane	6.14	142	120038	31.59	ug/kg	98
15) Methylene Chloride	6.43	84	132433	21.33	ug/kg	96
16) Carbon Disulfide	6.45	76	383446	18.07	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	307238	23.66	ug/kg#	76
19) trans-1,2-Dichloroethene	6.90	96	150164	22.49	ug/kg	99
20) n-Hexane	7.01	57	234060	23.53	ug/kg	100
21) Vinyl Acetate	7.52	43	146413	20.22	ug/kg	100
22) 1,1-Dichloroethane	7.52	63	267426	20.72	ug/kg	100
23) 2-Butanone	8.12	43	36812	22.15	ug/kg	100
24) 2,2-Dichloropropane	8.31	77	250529	20.26	ug/kg	98
25) cis-1,2-Dichloroethene	8.36	96	138876	21.99	ug/kg	96
26) Chloroform	8.58	83	276164	20.51	ug/kg	100
27) Bromochloromethane	8.80	128	57816	22.09	ug/kg	97
29) 1,1,1-Trichloroethane	9.11	97	284145	20.08	ug/kg	97
31) 1,1-Dichloropropene	9.31	75	190268	20.05	ug/kg	99
32) Carbon Tetrachloride	9.45	117	241784	19.84	ug/kg	99
34) 1,2-Dichloroethane	9.63	62	200561	19.54	ug/kg	99
35) Benzene	9.66	78	510397	21.12	ug/kg	99
36) Trichloroethene	10.42	130	135626	21.69	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,2-Dichloropropane	10.64	63	115958	20.22	ug/kg	94
38)	Bromodichloromethane	10.93	83	187756	20.51	ug/kg	99
39)	Dibromomethane	11.00	93	68824	20.25	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	24934	19.14	ug/kg	96
41)	4-Methyl-2-Pentanone	11.30	58	27688	20.31	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	184179	20.55	ug/kg	99
46)	Toluene	11.99	91	571885	22.23	ug/kg	100
48)	trans-1,3-Dichloropropene	12.18	75	172413	20.50	ug/kg	99
49)	1,1,2-Trichloroethane	12.38	97	92361	20.49	ug/kg	100
50)	2-Hexanone	12.36	43	52840	18.22	ug/kg#	85
51)	1,3-Dichloropropane	12.69	76	155722	20.32	ug/kg	93
52)	Tetrachloroethene	12.81	164	116093	21.06	ug/kg	98
53)	Dibromochloromethane	13.05	129	112651	19.76	ug/kg	99
54)	1,2-Dibromoethane	13.31	107	85684	20.94	ug/kg	99
55)	1-Chlorohexane	13.44	91	201992	21.65	ug/kg	93
56)	Chlorobenzene	13.82	112	353290	19.85	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.85	131	123410	19.41	ug/kg	99
58)	Ethylbenzene	13.86	106	200383	20.69	ug/kg	96
59)	m-,p-Xylene	13.95	106	517905	43.31	ug/kg	99
60)	o-Xylene	14.50	106	235698	21.31	ug/kg	99
61)	Styrene	14.54	104	381312	20.18	ug/kg	95
62)	Bromoform	15.00	173	70464	18.92	ug/kg	99
63)	Isopropylbenzene	14.93	105	621625	19.66	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.14	83	109915	20.03	ug/kg	98
67)	1,2,3-Trichloropropane	15.33	110	35177	20.46	ug/kg#	93
69)	n-Propylbenzene	15.44	91	874319	21.55	ug/kg	100
70)	Bromobenzene	15.54	156	146878	20.88	ug/kg	95
71)	1,3,5-Trimethylbenzene	15.63	105	559222	20.88	ug/kg	99
72)	2-Chlorotoluene	15.69	91	540524	21.48	ug/kg	98
73)	4-Chlorotoluene	15.75	91	513955	21.12	ug/kg	99
74)	a-Methylstyrene	16.01	118	751	4.02	ug/kg#	46
75)	tert-Butylbenzene	16.08	119	548881	19.35	ug/kg#	75
76)	1,2,4-Trimethylbenzene	16.14	105	578655	20.88	ug/kg	98
77)	sec-Butylbenzene	16.35	105	722399	20.88	ug/kg	99
78)	p-Isopropyltoluene	16.51	119	592424	19.69	ug/kg	99
79)	1,3-Dichlorobenzene	16.68	146	282622	20.81	ug/kg	97
80)	1,4-Dichlorobenzene	16.81	146	289704	20.20	ug/kg	97
81)	n-Butylbenzene	17.04	91	635115	22.27	ug/kg	100
82)	1,2-Dichlorobenzene	17.30	146	251052	20.96	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.28	157	21035	19.95	ug/kg	97
84)	1,2,4-Trichlorobenzene	19.42	180	195714	21.48	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15567.D 8260SOIL.M Fri May 11 18:48:46 2001 HPMS_9 Page 2

Data File : d:\HPCHEM\1\DATA\051101\9M15567.D
Acq On : 11 May 2001 18:26
Sample : WG97218-10 20PPB ALT SOURCE SV7911
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001

Vial: 22
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85)	Hexachlorobutadiene	19.58	225	148381	21.51	ug/kg	99
86)	Naphthalene	19.77	128	339441	22.57	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.42	180	195714	21.48	ug/kg	100

(#) = qualifier out of range (m) = manual integration

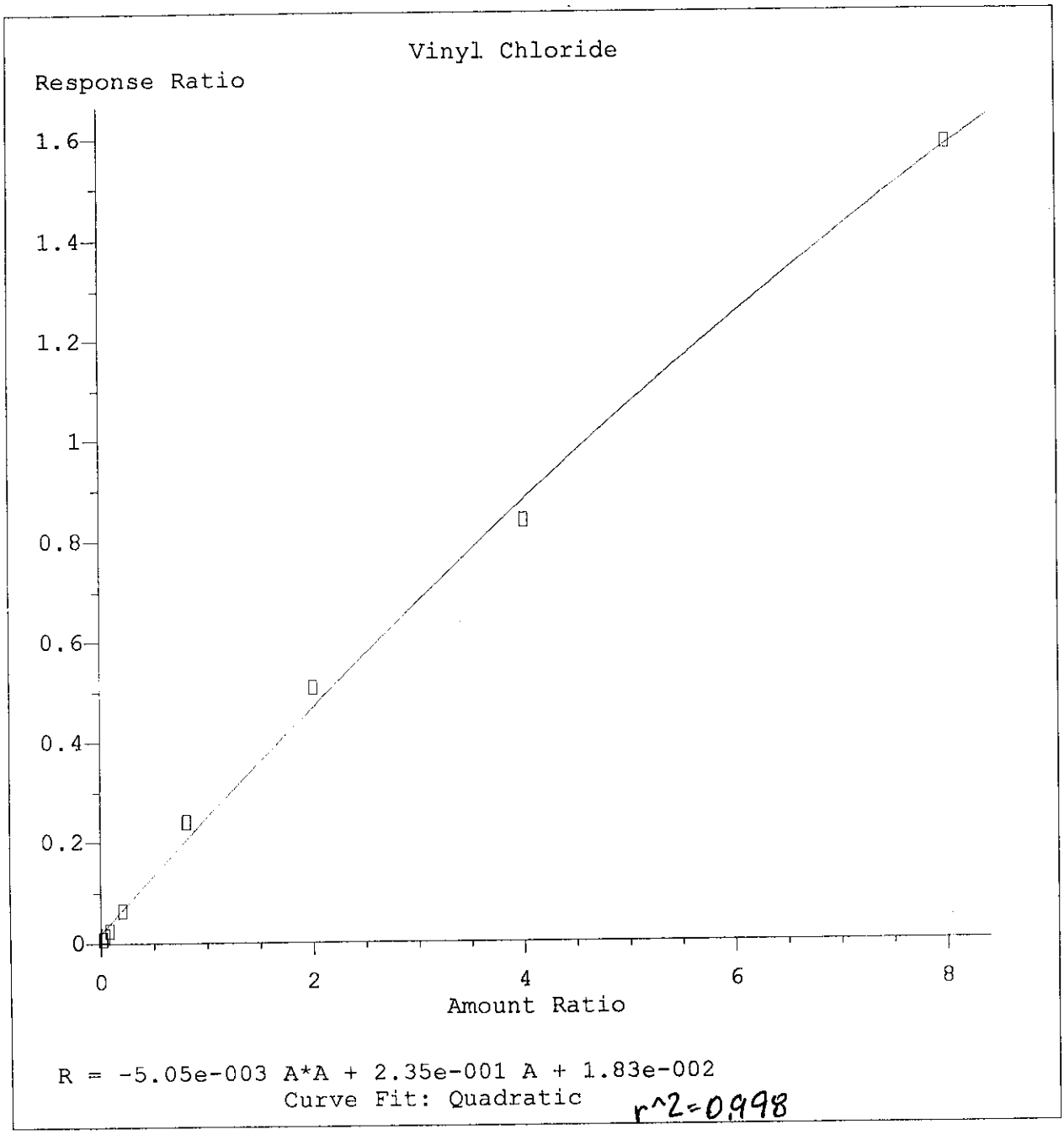
Calibration Table Report
Method: 8260WTR.M
Title: Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Calibration: Thu May 24 13:45:00 2001

Calibration Files

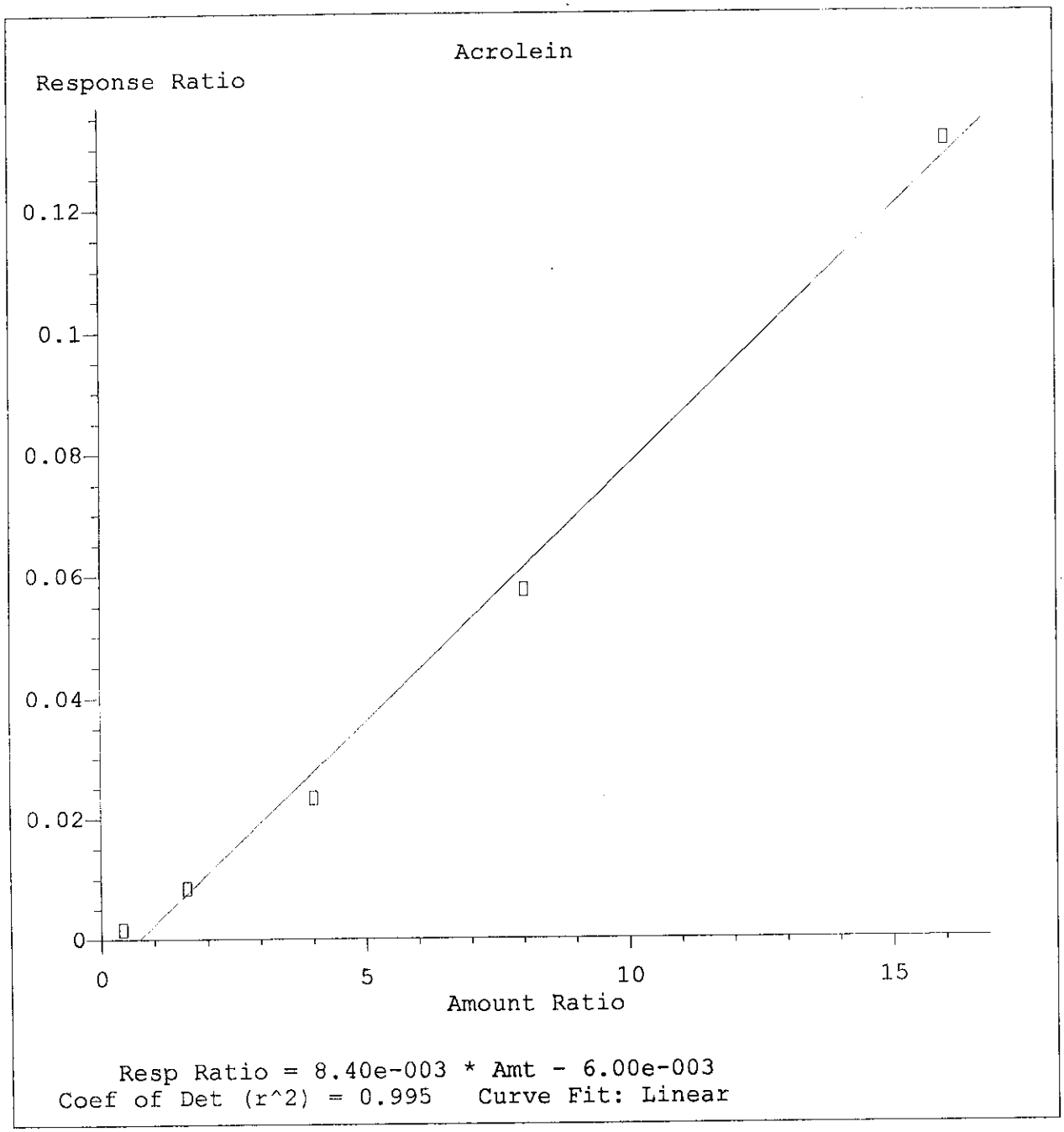
		0.25	0.5	1	2	5	200	20	50	100			
		6M25831.D	6M25832.D	6M25833.D	6M25834.D	6M25835.D	6M25839.D	6M25836.D	6M25837.D	6M25838.D			
	Compound										Avg	%RSD	
I	Fluorobenzene	ISTD											
T	Dichlorodifluoromethane		0.539	0.512	0.435	0.456	0.378	0.430	0.419	0.383	0.444	12.835	
P	Chloromethane	0.388	0.458	0.442	0.368	0.366	0.341	0.351	0.348	0.337	0.378	11.707	
C	Vinyl Chloride		0.388	0.375	0.310	0.324	0.198	0.299	0.254	0.210	0.295	23.796	QR=0.998
T	Bromomethane		0.190	0.170	0.149	0.142	0.137	0.146	0.147	0.139	0.154	13.414	
T	Chloroethane	0.178	0.231	0.208	0.178	0.181	0.150	0.171	0.166	0.153	0.180	14.313	
T	Trichlorofluoromethane	0.353	0.583	0.561	0.489	0.507	0.522	0.507	0.502	0.490	0.502	12.811	
T	Isoprene	0.293	0.433	0.416	0.407	0.402	0.484	0.433	0.447	0.479	0.422	13.282	
T	Acrolein					0.004	0.008	0.005	0.006	0.007	0.006	25.960	LR=0.995
T	1,1,2-Trichloro-1,2,2-Trifluoroethan		0.317	0.306	0.262	0.277	0.296	0.281	0.279	0.276	0.287	6.345	
T	Acetone					0.024	0.026	0.023	0.023	0.025	0.024	5.446	
C	1,1-Dichloroethene		0.246	0.226	0.225	0.208	0.244	0.220	0.225	0.241	0.229	5.725	
T	Dimethyl Sulfide	0.173	0.227	0.217	0.218	0.219	0.276	0.238	0.252	0.275	0.233	13.825	
T	Iodomethane				0.129	0.149	0.219	0.177	0.193	0.214	0.180	19.966	LR=0.999
T	Methylene Chloride	0.266	0.327	0.264	0.248	0.223	0.220	0.225	0.228	0.233	0.249	13.752	
T	Carbon Disulfide	0.966	1.111	0.982	0.941	0.855	0.944	0.904	0.950	1.009	0.962	7.400	
T	Acrylonitrile				0.024	0.029	0.040	0.031	0.037	0.040	0.034	19.392	LR=1.000
T	Methyl Tert Butyl Ether		0.333	0.311	0.303	0.310	0.369	0.335	0.342	0.365	0.333	7.431	
T	trans-1,2-Dichloroethene	0.187	0.312	0.263	0.269	0.253	0.288	0.267	0.275	0.294	0.269	13.102	
T	n-Hexane	0.321	0.489	0.453	0.480	0.475	0.496	0.503	0.501	0.515	0.476	12.493	
T	Vinyl Acetate			0.161	0.172	0.185	0.242	0.209	0.232	0.249	0.207	17.002	LR=1.000
P	1,1-Dichloroethane	0.409	0.579	0.506	0.513	0.487	0.529	0.504	0.513	0.542	0.509	9.026	
T	2-Butanone					0.028	0.036	0.030	0.034	0.036	0.033	10.757	
T	2,2-Dichloropropane		0.435	0.394	0.404	0.401	0.497	0.441	0.466	0.509	0.443	9.935	
T	cis-1,2-Dichloroethene	0.197	0.282	0.255	0.254	0.250	0.283	0.269	0.272	0.288	0.261	10.634	
C	Chloroform	0.431	0.562	0.485	0.487	0.455	0.465	0.463	0.465	0.483	0.477	7.608	
T	Bromochloromethane		0.102	0.101	0.099	0.096	0.112	0.099	0.100	0.109	0.102	5.230	
S	Dibromofluoromethane			0.296	0.274	0.260	0.280	0.265	0.264	0.286	0.275	4.749	
T	1,1,1-Trichloroethane		0.539	0.464	0.473	0.461	0.476	0.480	0.491	0.508	0.487	5.315	
T	Cyclohexane	0.356	0.536	0.498	0.520	0.522	0.569	0.560	0.561	0.583	0.523	13.025	
T	1,1-Dichloropropene		0.447	0.403	0.417	0.419	0.420	0.435	0.438	0.449	0.429	3.837	
T	Carbon Tetrachloride		0.417	0.374	0.399	0.407	0.462	0.446	0.468	0.487	0.433	9.070	
S	1,2-Dichloroethane-d4			0.253	0.234	0.222	0.222	0.223	0.218	0.232	0.229	5.252	
T	1,2-Dichloroethane	0.257	0.323	0.298	0.293	0.283	0.280	0.287	0.285	0.293	0.289	6.079	
T	Benzene	0.877	1.249	1.124	1.148	1.118	1.019	1.144	1.136	1.132	1.105	9.380	
T	Trichloroethene	0.254	0.403	0.367	0.361	0.354	0.337	0.357	0.357	0.362	0.350	11.403	
C	1,2-Dichloropropane	0.232	0.294	0.257	0.264	0.260	0.260	0.261	0.264	0.271	0.263	6.118	
T	Bromodichloromethane	0.225	0.319	0.292	0.294	0.293	0.311	0.307	0.313	0.323	0.297	9.935	
T	Dibromomethane	0.059	0.102	0.088	0.096	0.094	0.097	0.094	0.094	0.098	0.091	13.923	
T	2-Chloroethyl Vinyl Ether				0.051	0.059	0.079	0.071	0.074	0.079	0.069	16.410	LR=1.000
T	4-Methyl-2-Pentanone					0.035	0.039	0.037	0.039	0.040	0.038	5.574	
T	cis-1,3-Dichloropropene	0.221	0.311	0.281	0.302	0.316	0.35	0.341	0.353	0.364	0.31556	14.1206	
T	Dimethyl Disulfide				0.072	0.107	0.194	0.158	0.178	0.194	0.15036	33.4828	LR=1.000
I	Chlorobenzene-d5	ISTD											
S	Toluene-d8			1.507	1.464	1.412	1.384	1.465	1.433	1.484	1.44985	2.94091	
C	Toluene	1.15	1.654	1.599	1.646	1.632	1.394	1.656	1.63	1.603	1.55146	11.025	
T	Ethyl Methacrylate				0.147	0.171	0.203	0.193	0.2	0.21	0.18731	12.7771	
T	trans-1,3-Dichloropropene		0.256	0.261	0.272	0.288	0.339	0.323	0.338	0.351	0.3035	12.6859	
T	1,1,2-Trichloroethane	0.144	0.162	0.158	0.16	0.158	0.159	0.159	0.161	0.165	0.15837	3.72519	
T	2-Hexanone					0.065	0.08	0.075	0.08	0.081	0.07599	8.91606	
T	1,3-Dichloropropane	0.266	0.302	0.269	0.281	0.283	0.297	0.291	0.295	0.305	0.28771	4.83289	
T	Tetrachloroethene	0.22	0.382	0.357	0.353	0.345	0.317	0.349	0.347	0.348	0.33541	13.8103	
T	Dibromochloromethane		0.197	0.189	0.199	0.212	0.257	0.237	0.251	0.265	0.22598	13.2817	

T	1,2-Dibromoethane	0.127	0.162	0.154	0.155	0.158	0.175	0.167	0.173	0.178	0.16106	9.53607	
T	1-Chlorohexane		0.467	0.463	0.498	0.523	0.54	0.563	0.559	0.568	0.52266	8.12914	
P	Chlorobenzene	1.134	1.388	1.228	1.214	1.167	0.957	1.138	1.116	1.094	1.15941	10.0375	
T	1,1,1,2-Tetrachloroethane	0.251	0.344	0.317	0.329	0.332	0.289	0.348	0.348	0.338	0.32203	10.0849	
C	Ethylbenzene	0.504	0.802	0.708	0.729	0.702	0.58	0.694	0.68	0.668	0.67408	12.8187	
T	m-,p-Xylene	0.649	0.975	0.888	0.918	0.892	0.631	0.869	0.845	0.795	0.82901	14.2289	
T	o-Xylene	0.555	0.817	0.734	0.784	0.796	0.703	0.805	0.798	0.788	0.7532	10.9983	
T	Styrene	0.851	1.286	1.207	1.296	1.295	1.077	1.307	1.29	1.249	1.20658	12.5624	
P	Bromoform			0.073	0.084	0.094	0.13	0.111	0.123	0.132	0.10665	21.7659	LR=1.000
T	Isopropylbenzene		2.192	2.054	2.224	2.238	1.693	2.238	2.178	2.083	2.11228	8.6732	
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane		0.323	0.283	0.294	0.292	0.319	0.301	0.304	0.319	0.30437	4.81133	
S	p-Bromofluorobenzene			1.027	0.959	0.934	0.945	0.98	0.962	1	0.97244	3.33078	
T	1,2,3-Trichloropropane		0.09	0.092	0.1	0.099	0.105	0.099	0.102	0.105	0.09698	5.61839	
T	trans-1,4-Dichloro-2-Butene				0.058	0.07	0.111	0.089	0.096	0.106	0.08822	23.5686	LR=0.999
T	n-Propylbenzene		4.483	4.231	4.54	4.583	3.346	4.635	4.464	4.221	4.31284	9.71757	
T	Bromobenzene	0.708	0.926	0.834	0.827	0.836	0.739	0.837	0.82	0.813	0.8156	7.62201	
T	1,3,5-Trimethylbenzene	2.241	3.487	3.188	3.445	3.432	2.734	3.482	3.385	3.278	3.18578	13.371	
T	2-Chlorotoluene	2.098	3.074	2.856	2.912	2.803	2.298	2.805	2.699	2.636	2.68668	11.4448	
T	4-Chlorotoluene	2.202	3.088	2.722	2.871	2.874	2.173	2.838	2.778	2.639	2.6873	11.4952	
T	a-Methylstyrene	1.061	1.427	1.394	1.532	1.603	1.533	1.707	1.68	1.694	1.51451	13.4672	
T	tert-Butylbenzene		3.36	3.082	3.223	3.218	2.562	3.211	3.145	3.04	3.10517	7.73584	
T	1,2,4-Trimethylbenzene	3.025	4.105	3.569	3.693	3.601	2.693	3.565	3.436	3.28	3.44073	11.8103	
T	sec-Butylbenzene		4.391	4.06	4.327	4.342	3.274	4.384	4.246	4.041	4.13298	9.03021	
T	p-Isopropyltoluene		3.907	3.662	3.908	3.941	2.972	3.993	3.886	3.698	3.7457	8.90336	
T	1,3-Dichlorobenzene	1.574	2.029	1.769	1.846	1.791	1.503	1.79	1.745	1.708	1.75048	8.67296	
T	1,4-Dichlorobenzene	1.696	2.237	1.898	1.862	1.812	1.453	1.755	1.709	1.663	1.78719	11.9199	
T	n-Butylbenzene		3.466	3.147	3.282	3.269	2.574	3.276	3.189	3.076	3.15973	8.3335	
T	1,2-Dichlorobenzene	1.3	1.682	1.489	1.454	1.415	1.236	1.417	1.393	1.371	1.41749	8.85562	
T	1,2-Dibromo-3-Chloropropane				0.04	0.046	0.062	0.054	0.058	0.062	0.0534	16.9395	LR=1.000
T	1,2,4-Trichlorobenzene	0.711	0.934	0.82	0.819	0.835	0.762	0.865	0.861	0.849	0.82827	7.67349	
T	Hexachlorobutadiene	0.322	0.541	0.459	0.451	0.439	0.406	0.446	0.443	0.442	0.43876	12.8913	
T	Naphthalene	0.761	0.914	0.825	0.883	0.953	0.998	1.059	1.058	1.077	0.9475	11.7216	
T	1,2,3-Trichlorobenzene	0.548	0.73	0.627	0.609	0.62	0.573	0.646	0.634	0.628	0.62394	8.12253	

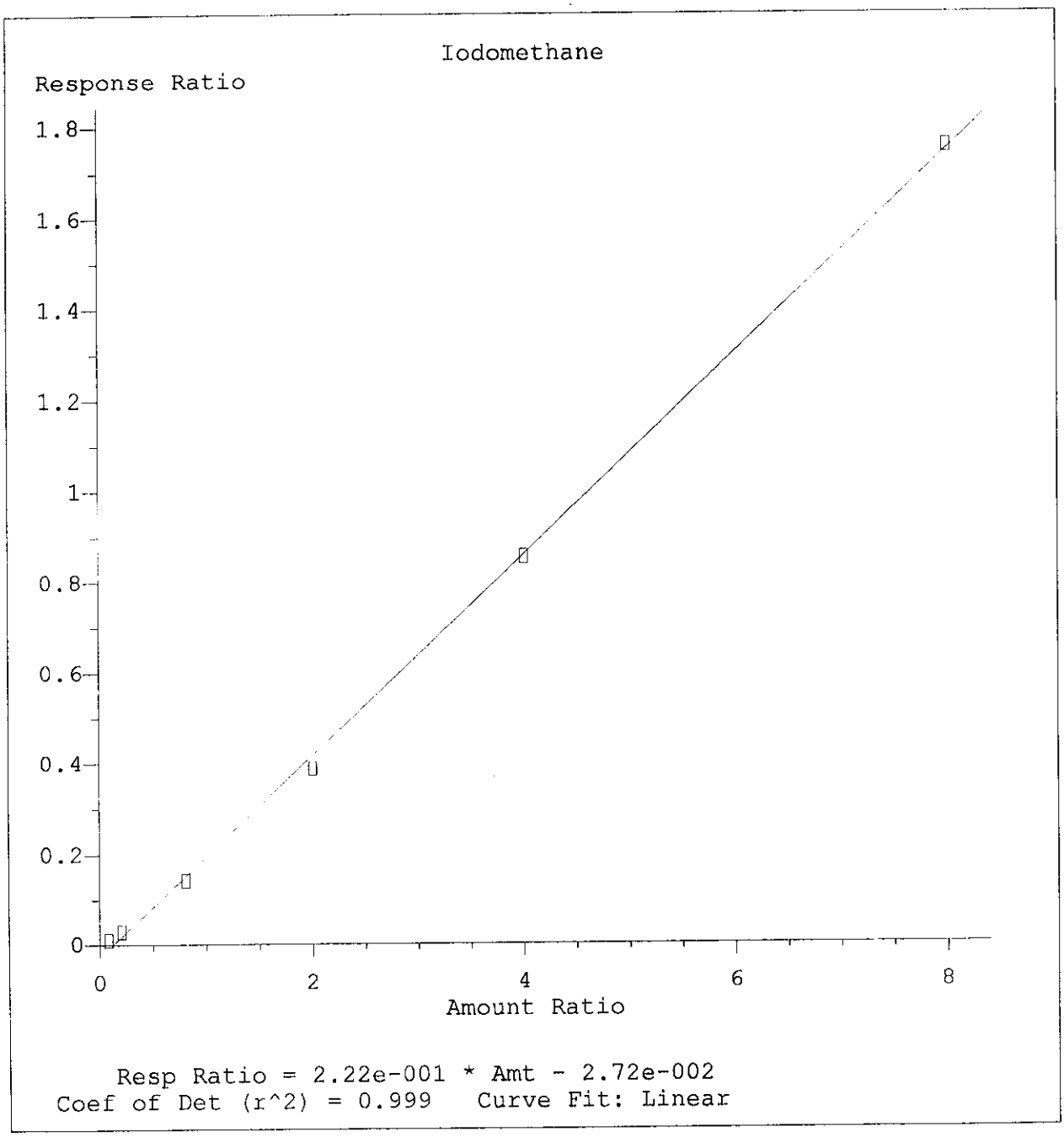
Thu May 24 14:51:59 2001



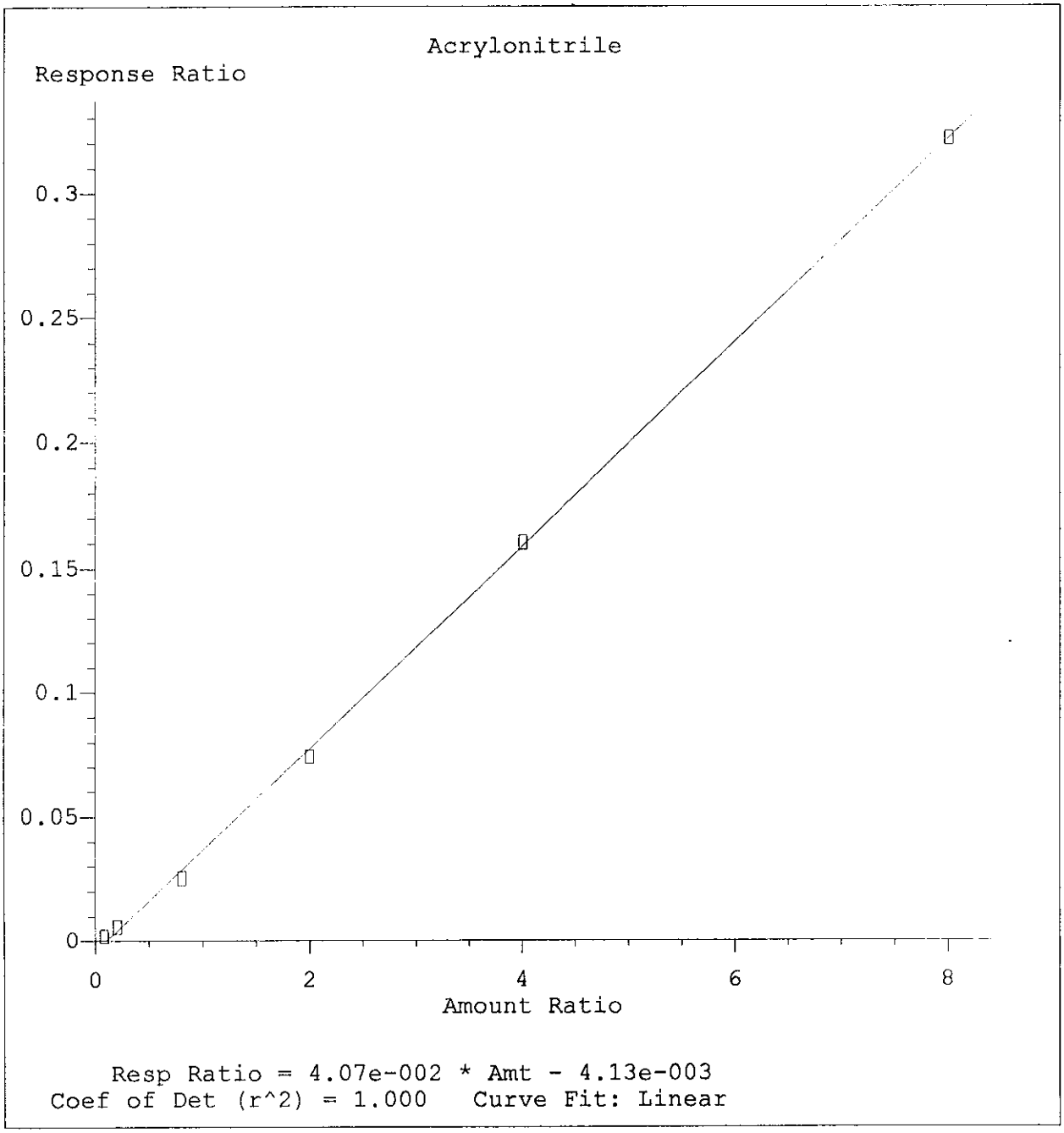
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



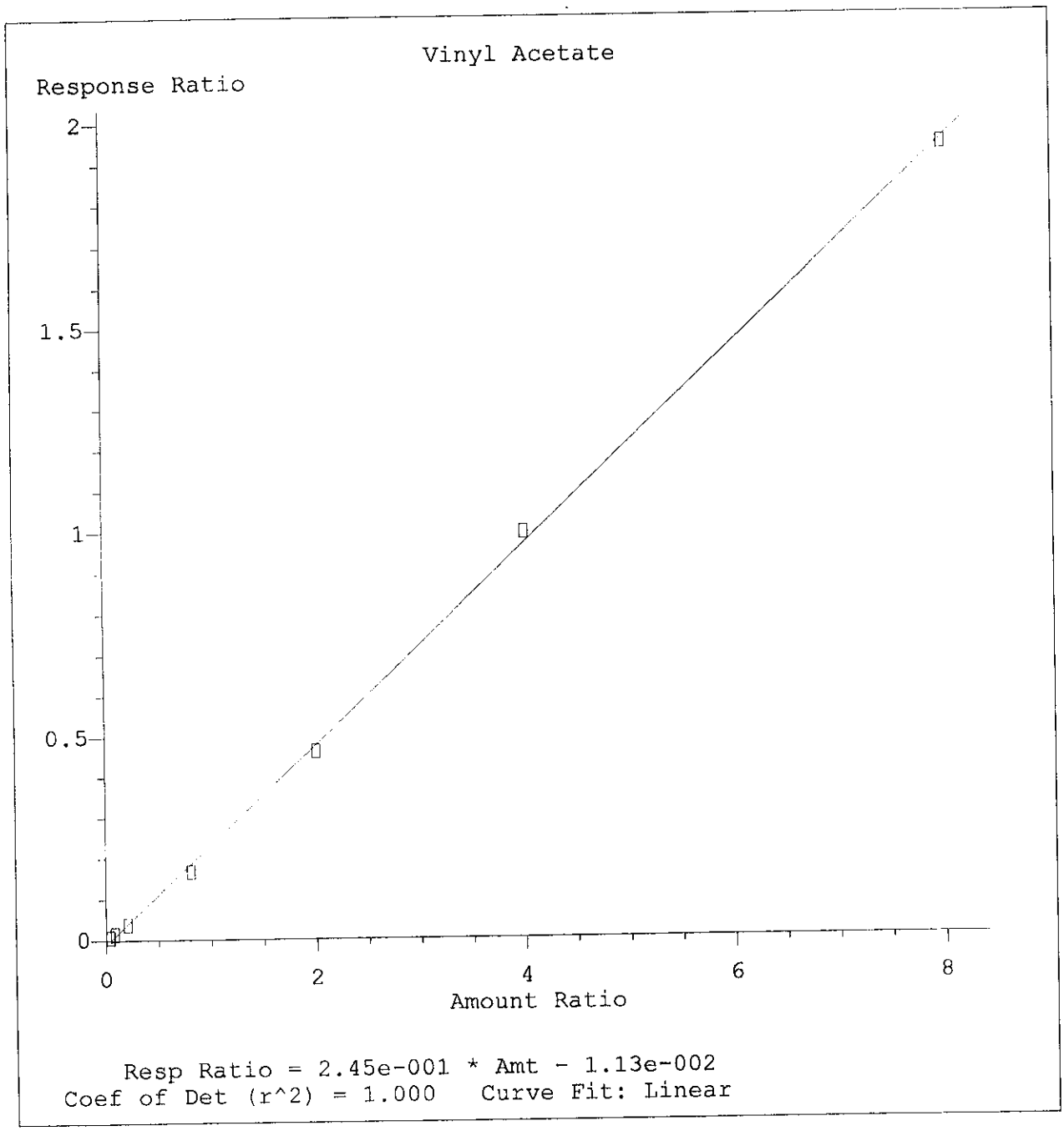
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



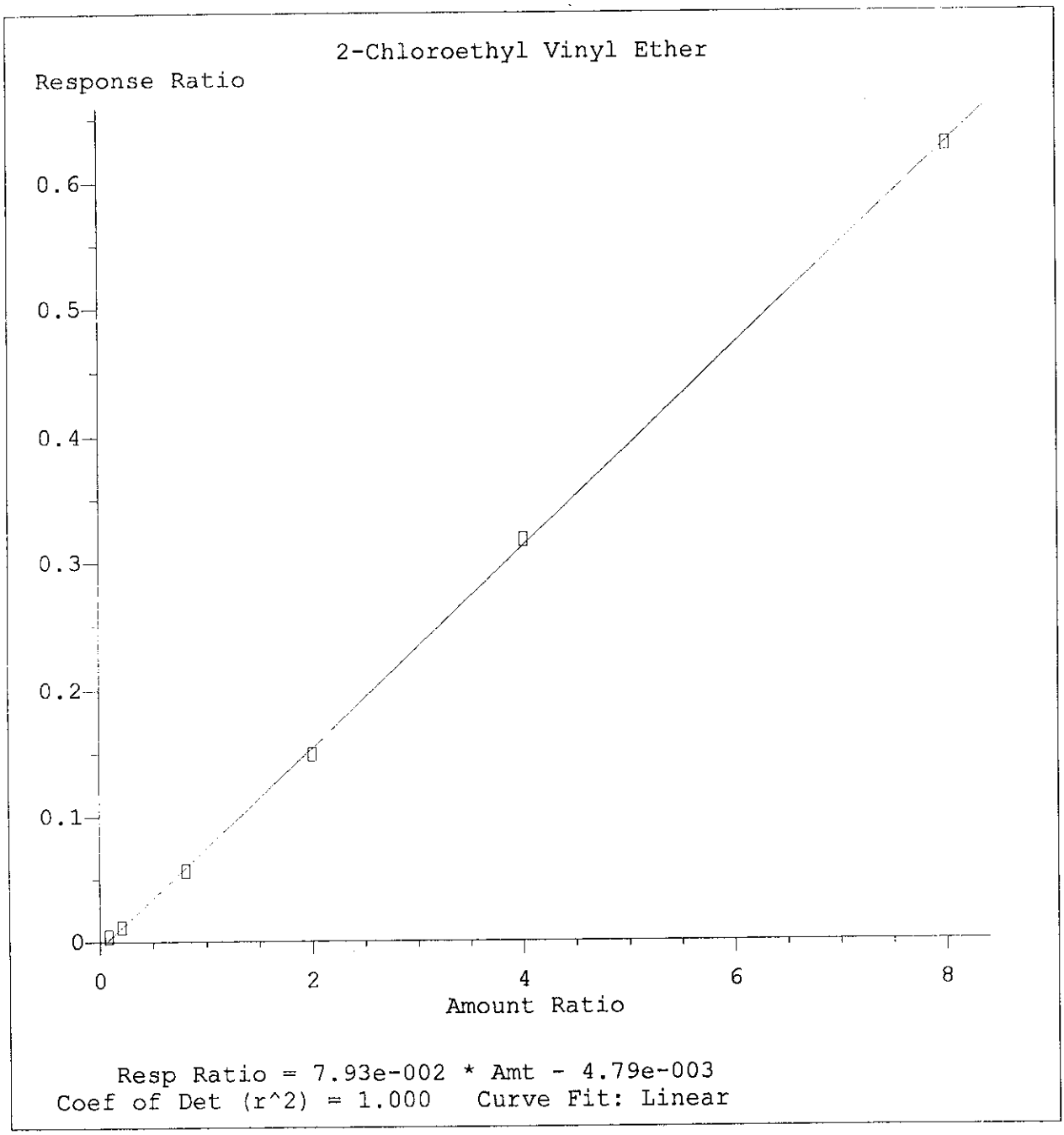
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



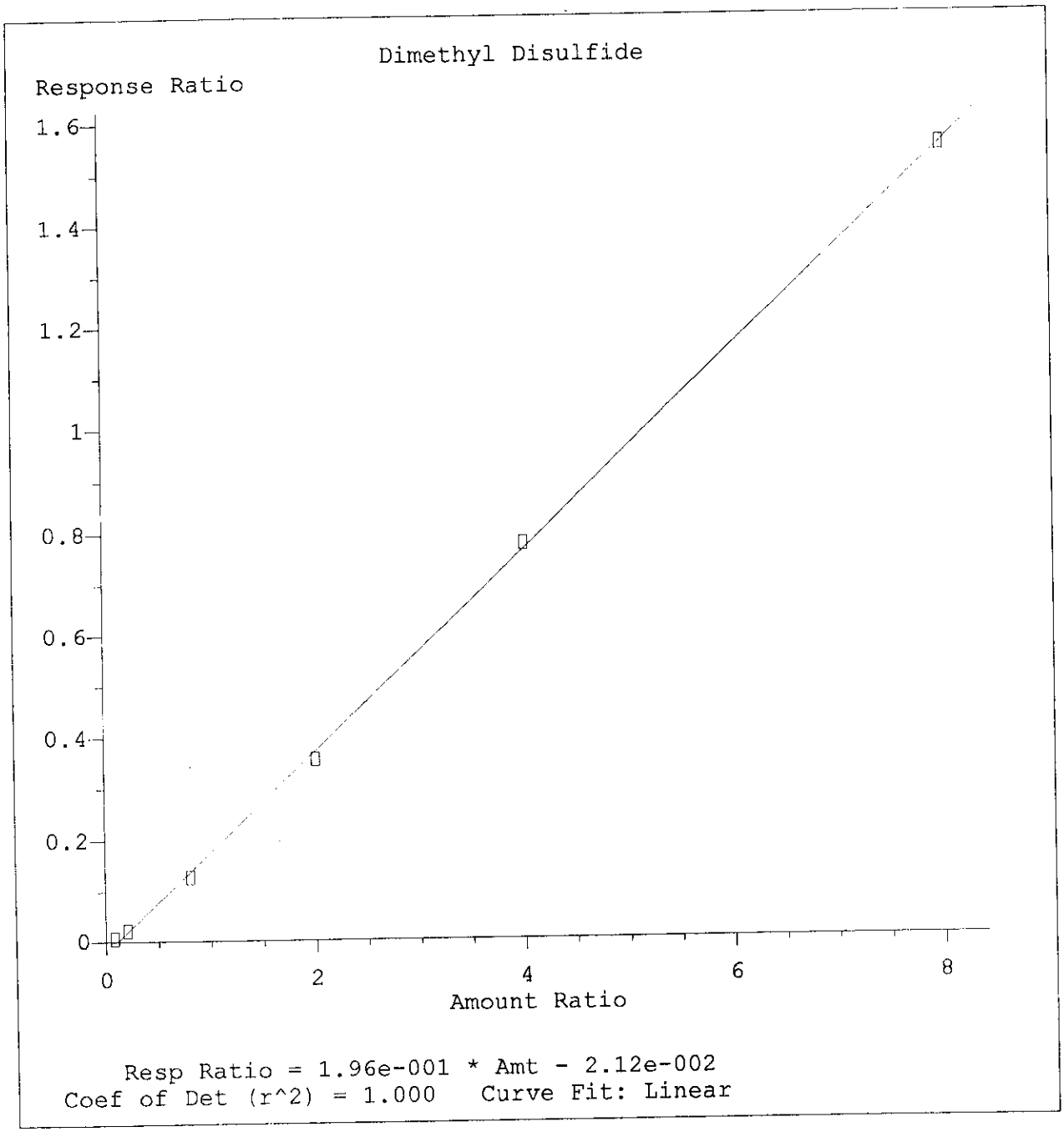
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



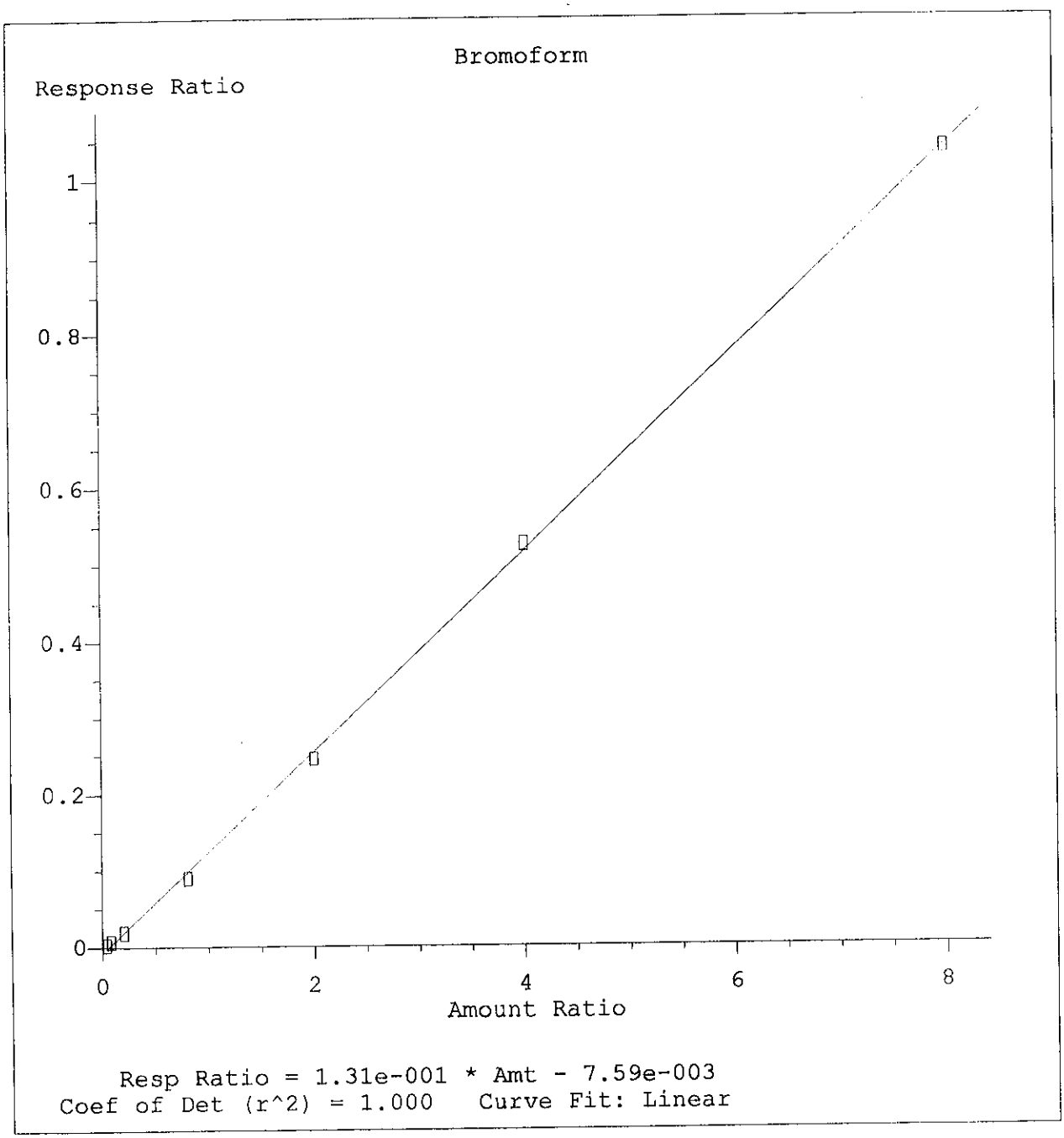
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



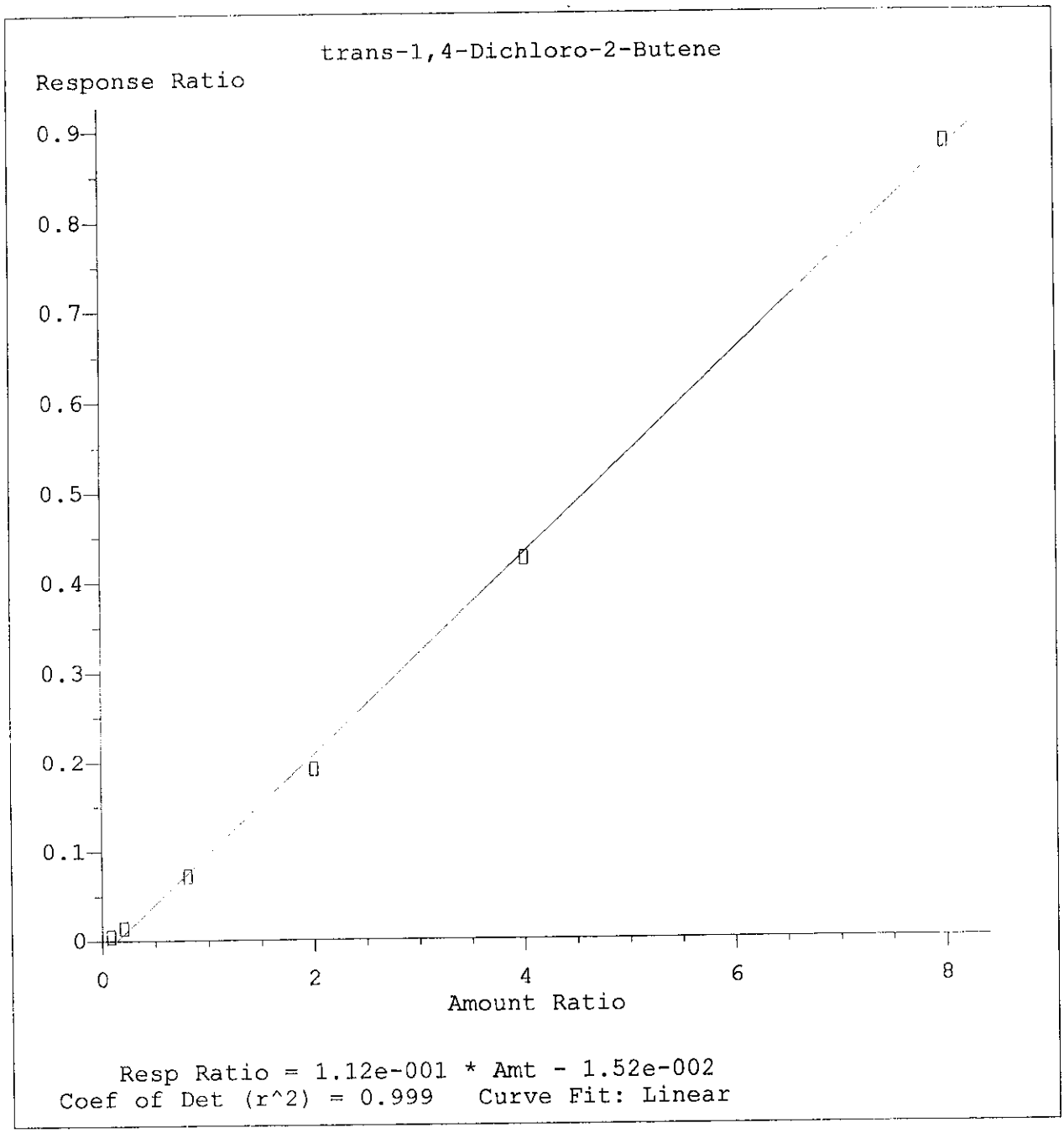
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



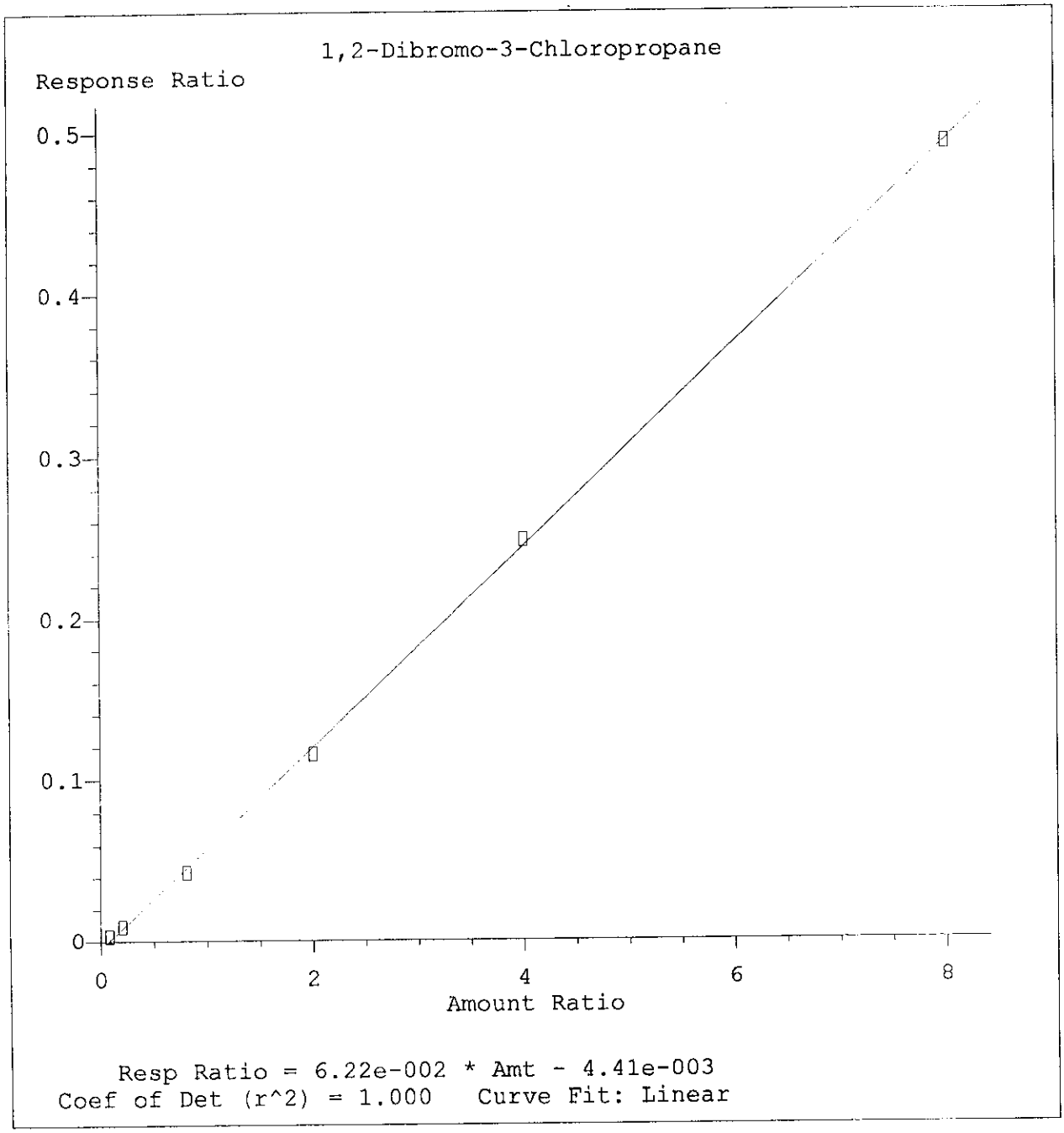
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



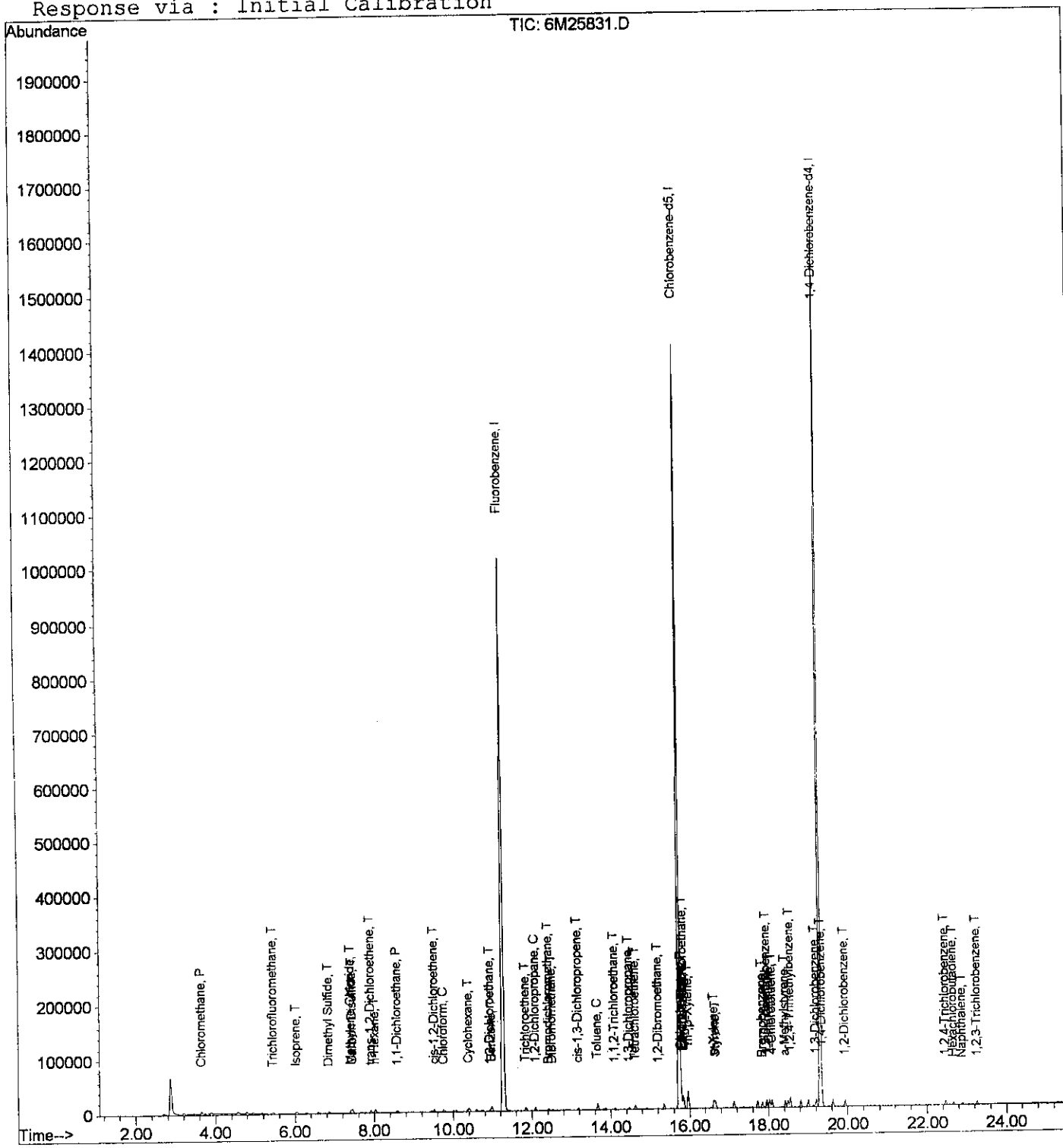
Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25831.D
Acq On : 21 May 2001 16:14
Sample : WG97810-02 0.25 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101

Vial: 8
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



6M25831.D 8260WTR.M Thu May 24 14:56:52 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25831.D
Acq On : 21 May 2001 16:14
Sample : WG97810-02 0.25 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101

Vial: 8
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1387928	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1176309	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	632918	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
45) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
66) p-Bromofluorobenzene	17.52	95	944	0.04	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.16%#		
Target Compounds						Qvalue
3) Chloromethane	3.65	50	5386	0.27	ug/L	94
7) Trichlorofluoromethane	5.44	101	4894	0.17	ug/L #	74
8) Isoprene	6.03	67	4070	0.17	ug/L	90
13) Dimethyl Sulfide	6.86	62	2402	0.20	ug/L #	1
15) Methylene Chloride	7.41	84	3694	0.27	ug/L	87
16) Carbon Disulfide	7.45	76	13401	0.28	ug/L #	90
19) trans-1,2-Dichloroethene	7.91	96	2597	0.17	ug/L	86
20) n-Hexane	8.02	57	4458	0.17	ug/L #	71
22) 1,1-Dichloroethane	8.59	63	5681	0.20	ug/L #	74
25) cis-1,2-Dichloroethene	9.52	96	2729	0.19	ug/L	96
26) Chloroform	9.75	83	5981	0.22	ug/L	94
30) Cyclohexane	10.40	56	4946	0.17	ug/L #	60
34) 1,2-Dichloroethane	10.93	62	3563	0.23	ug/L #	58
35) Benzene	10.98	78	12166	0.22	ug/L	96
36) Trichloroethene	11.85	130	3530	0.18	ug/L	88
37) 1,2-Dichloropropane	12.09	63	3224	0.22	ug/L #	82
38) Bromodichloromethane	12.43	83	3119	0.19	ug/L	94
39) Dibromomethane	12.52	93	820	0.16	ug/L #	65
42) cis-1,3-Dichloropropene	13.17	75	3073	0.17	ug/L #	52
46) Toluene	13.66	91	13523	0.18	ug/L	91
49) 1,1,2-Trichloroethane	14.11	97	1691	0.23	ug/L #	82
51) 1,3-Dichloropropane	14.48	76	3131	0.23	ug/L	97
52) Tetrachloroethene	14.62	164	2589	0.16	ug/L	95
54) 1,2-Dibromoethane	15.20	107	1496	0.20	ug/L	99
56) Chlorobenzene	15.81	112	13334	0.24	ug/L	93
57) 1,1,1,2-Tetrachloroethane	15.84	131	2951	0.19	ug/L #	44

(#) = qualifier out of range (m) = manual integration
6M25831.D 8260WTR.M Thu May 24 14:56:44 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25831.D Vial: 8
Acq On : 21 May 2001 16:14 Operator: CMS
Sample : WG97810-02 0.25 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101 Quant Results File: 8260WTR.RES

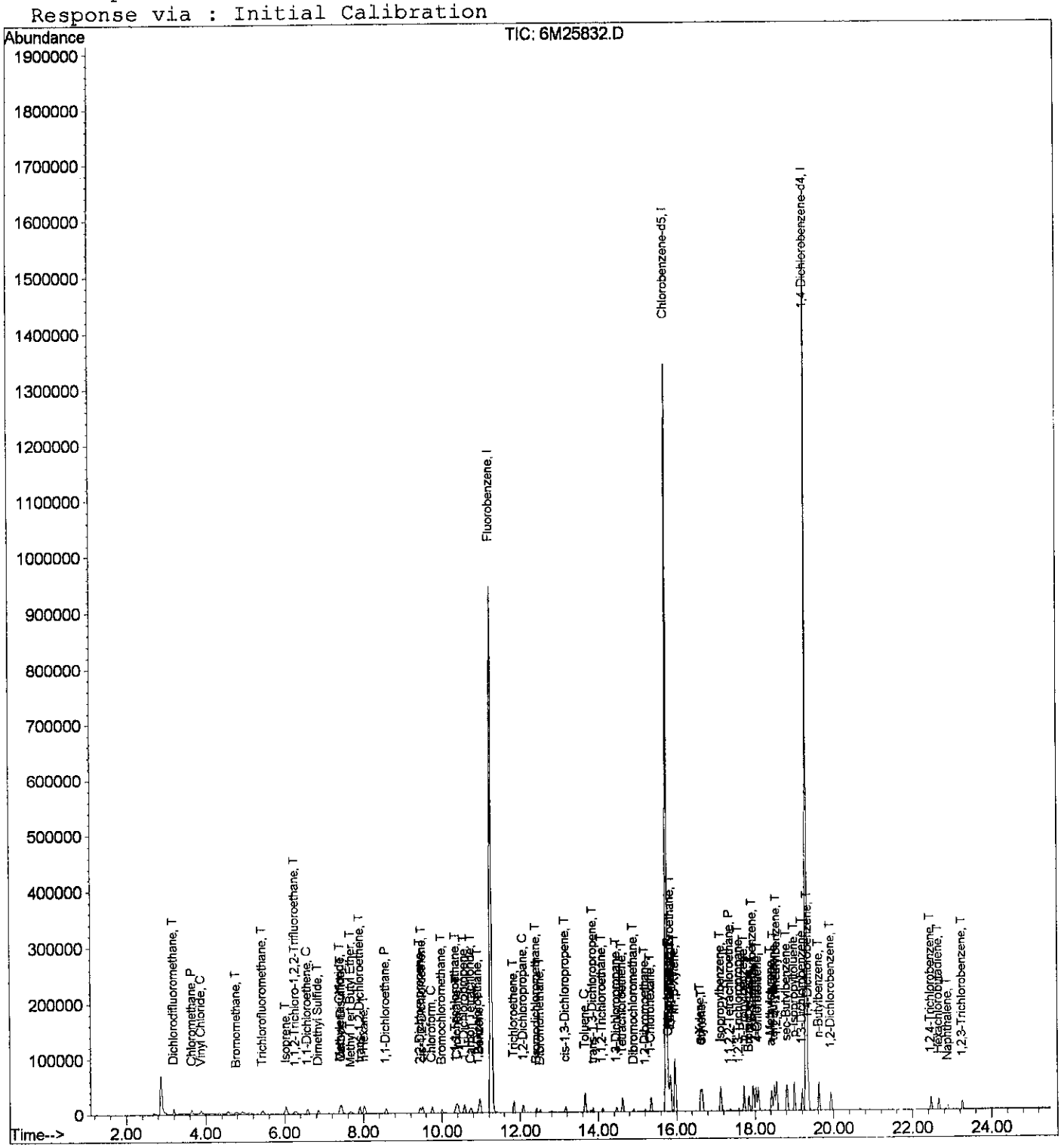
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
58)	Ethylbenzene	15.85	106	5927	0.19 ug/L		86
59)	m-,p-Xylene	15.97	106	15272	0.39 ug/L		88
60)	o-Xylene	16.63	106	6529	0.19 ug/L		100
61)	Styrene	16.67	104	10015	0.18 ug/L		98
70)	Bromobenzene	17.85	156	4483	0.22 ug/L		96
71)	1,3,5-Trimethylbenzene	17.95	105	14181	0.19 ug/L		95
72)	2-Chlorotoluene	18.03	91	13281	0.20 ug/L		99
73)	4-Chlorotoluene	18.09	91	13939	0.21 ug/L		98
74)	a-Methylstyrene	18.42	118	6716	0.18 ug/L		96
76)	1,2,4-Trimethylbenzene	18.56	105	19144	0.24 ug/L		100
79)	1,3-Dichlorobenzene	19.21	146	9963	0.23 ug/L		97
80)	1,4-Dichlorobenzene	19.36	146	10734	0.24 ug/L		98
82)	1,2-Dichlorobenzene	19.94	146	8230	0.23 ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	4500	0.22 ug/L		96
85)	Hexachlorobutadiene	22.66	225	2040	0.18 ug/L	#	99
86)	Naphthalene	22.89	128	4818	0.22 ug/L	#	75
87)	1,2,3-Trichlorobenzene	23.26	180	3470	0.22 ug/L	#	96

(#) = qualifier out of range (m) = manual integration
6M25831.D 8260WTR.M Thu May 24 14:56:46 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1290540	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1123142	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	618637	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
45) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
66) p-Bromofluorobenzene	17.37	95	521	0.02	ug/L	-0.15
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.08%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.20	85	13904	0.61	ug/L	98
3) Chloromethane	3.65	50	11832	0.65	ug/L	97
4) Vinyl Chloride	3.88	62	10002	1166.51	ug/L	92
5) Bromomethane	4.78	94	5108	0.64	ug/L	88
7) Trichlorofluoromethane	5.44	101	15036	0.58	ug/L #	92
8) Isoprene	6.04	67	11174	0.51	ug/L	94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	8188	0.55	ug/L #	45
12) 1,1-Dichloroethene	6.57	96	6356	0.54	ug/L	89
13) Dimethyl Sulfide	6.86	62	5871	0.51	ug/L #	1
15) Methylene Chloride	7.40	84	8428	0.65	ug/L	83
16) Carbon Disulfide	7.45	76	28685	0.64	ug/L	97
18) Methyl Tert Butyl Ether	7.68	73	8589	0.50	ug/L #	75
19) trans-1,2-Dichloroethene	7.91	96	8046	0.58	ug/L	95
20) n-Hexane	8.03	57	12632m	0.52	ug/L	
22) 1,1-Dichloroethane	8.58	63	14947	0.57	ug/L	96
24) 2,2-Dichloropropane	9.45	77	11226	0.49	ug/L	94
25) cis-1,2-Dichloroethene	9.51	96	7271	0.54	ug/L	95
26) Chloroform	9.75	83	14508	0.59	ug/L	97
27) Bromochloromethane	9.99	128	2642	0.50	ug/L	87
29) 1,1,1-Trichloroethane	10.35	97	13907	0.55	ug/L	92
30) Cyclohexane	10.40	56	13831	0.51	ug/L	93
31) 1,1-Dichloropropene	10.58	75	11540	0.52	ug/L	93
32) Carbon Tetrachloride	10.74	117	10768	0.48	ug/L	97
34) 1,2-Dichloroethane	10.93	62	8348	0.59	ug/L #	79
35) Benzene	10.97	78	32246	0.61	ug/L	94
36) Trichloroethene	11.84	130	10389	0.57	ug/L	97

(#) = qualifier out of range (m) = manual integration
6M25832.D 8260WTR.M Thu May 24 14:57:14 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D
Acq On : 21 May 2001 16:46
Sample : WG97810-03 0.5 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101

Vial: 9
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

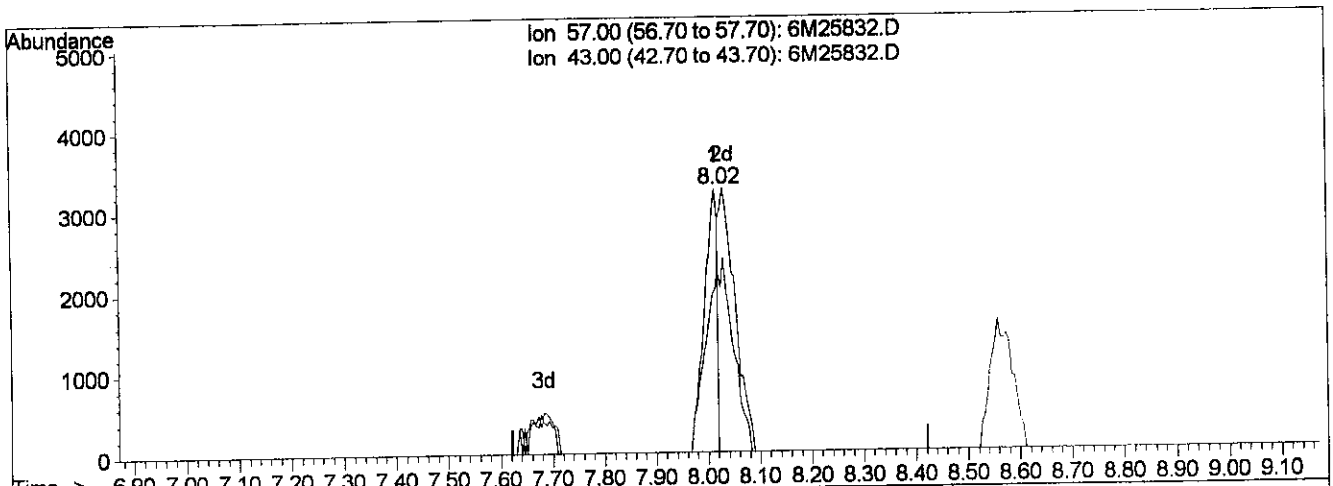
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	1,2-Dichloropropane	12.09	63	7600	0.56	ug/L		95
38)	Bromodichloromethane	12.42	83	8239	0.53	ug/L		96
39)	Dibromomethane	12.51	93	2645	0.56	ug/L		92
42)	cis-1,3-Dichloropropene	13.17	75	8032	0.49	ug/L		100
46)	Toluene	13.66	91	37155	0.53	ug/L		97
48)	trans-1,3-Dichloropropene	13.87	75	5759	0.42	ug/L		95
49)	1,1,2-Trichloroethane	14.11	97	3636	0.51	ug/L		99
51)	1,3-Dichloropropane	14.47	76	6786	0.52	ug/L		85
52)	Tetrachloroethene	14.62	164	8585	0.57	ug/L		97
53)	Dibromochloromethane	14.91	129	4418	0.44	ug/L		94
54)	1,2-Dibromoethane	15.21	107	3642	0.50	ug/L		98
55)	1-Chlorohexane	15.36	91	10480	0.45	ug/L	#	82
56)	Chlorobenzene	15.80	112	31178	0.59	ug/L		85
57)	1,1,1,2-Tetrachloroethane	15.85	131	7737	0.53	ug/L		93
58)	Ethylbenzene	15.86	106	18026	0.59	ug/L		96
59)	m-,p-Xylene	15.97	106	43803	1.17	ug/L		90
60)	o-Xylene	16.61	106	18355	0.56	ug/L		96
61)	Styrene	16.66	104	28886	0.53	ug/L		95
63)	Isopropylbenzene	17.13	105	49240	0.52	ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.36	83	4001	0.53	ug/L		96
67)	1,2,3-Trichloropropane	17.59	110	1117	0.46	ug/L	#	22
69)	n-Propylbenzene	17.72	91	55470	0.52	ug/L		96
70)	Bromobenzene	17.84	156	11453	0.57	ug/L		94
71)	1,3,5-Trimethylbenzene	17.95	105	43145	0.59	ug/L		97
72)	2-Chlorotoluene	18.03	91	38031	0.57	ug/L		97
73)	4-Chlorotoluene	18.09	91	38212	0.58	ug/L		100
74)	a-Methylstyrene	18.42	118	17658	0.47	ug/L		97
75)	tert-Butylbenzene	18.49	119	41578	0.54	ug/L		98
76)	1,2,4-Trimethylbenzene	18.56	105	50792	0.65	ug/L		97
77)	sec-Butylbenzene	18.82	105	54327	0.53	ug/L		97
78)	p-Isopropyltoluene	19.01	119	48337	0.52	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	25099	0.58	ug/L		100
80)	1,4-Dichlorobenzene	19.36	146	27675	0.63	ug/L		98
81)	n-Butylbenzene	19.63	91	42879	0.55	ug/L		100
82)	1,2-Dichlorobenzene	19.94	146	20813	0.59	ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	11552	0.56	ug/L		97
85)	Hexachlorobutadiene	22.66	225	6688	0.62	ug/L	#	31
86)	Naphthalene	22.89	128	11310	0.52	ug/L	#	93
87)	1,2,3-Trichlorobenzene	23.26	180	9037	0.59	ug/L		91

(#) = qualifier out of range (m) = manual integration
6M25832.D 8260WTR.M Thu May 24 14:57:18 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D
Acq On : 21 May 2001 16:46
Sample : WG97810-03 0.5 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 9
Operator: CMS
Inst : HPMS6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:28:15 2001
Response via : Multiple Level Calibration



TIC: 6M25832.D

(20) n-Hexane (T)

8.02min 0.24ug/L

response 5929

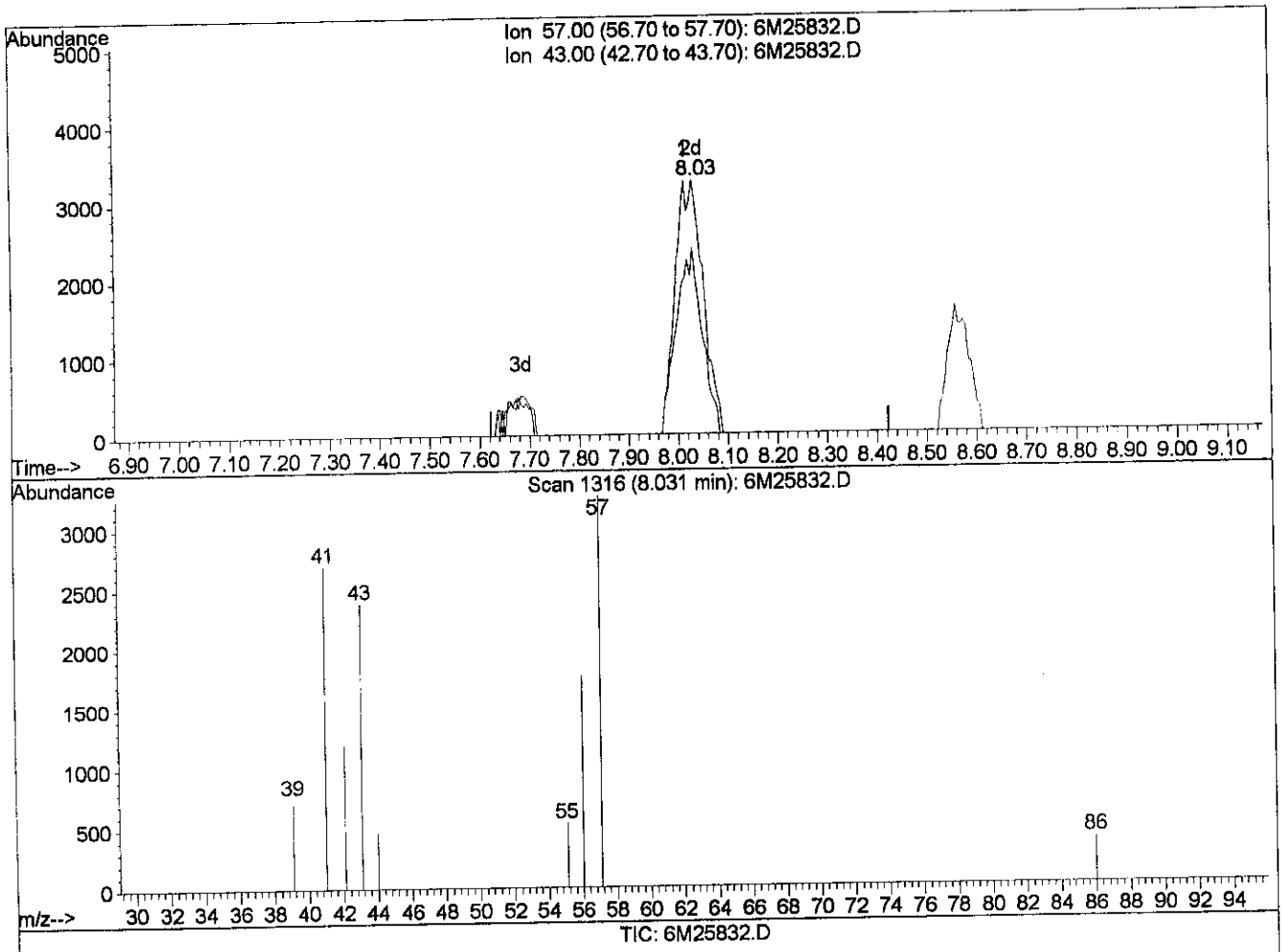
Ion	Exp%	Act%
57.00	100	100
43.00	66.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

6M25832.D 8260WTR.M Thu May 24 14:33:46 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D
Acq On : 21 May 2001 16:46
Sample : WG97810-03 0.5 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 9
Operator: CMS
Inst : HPMS6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:28:15 2001
Response via : Multiple Level Calibration



TIC: 6M25832.D

(20) n-Hexane (T)

8.03min 0.52ug/L m

response 12632

Ion	Exp%	Act%
57.00	100	100
43.00	66.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

5-24-01 cms

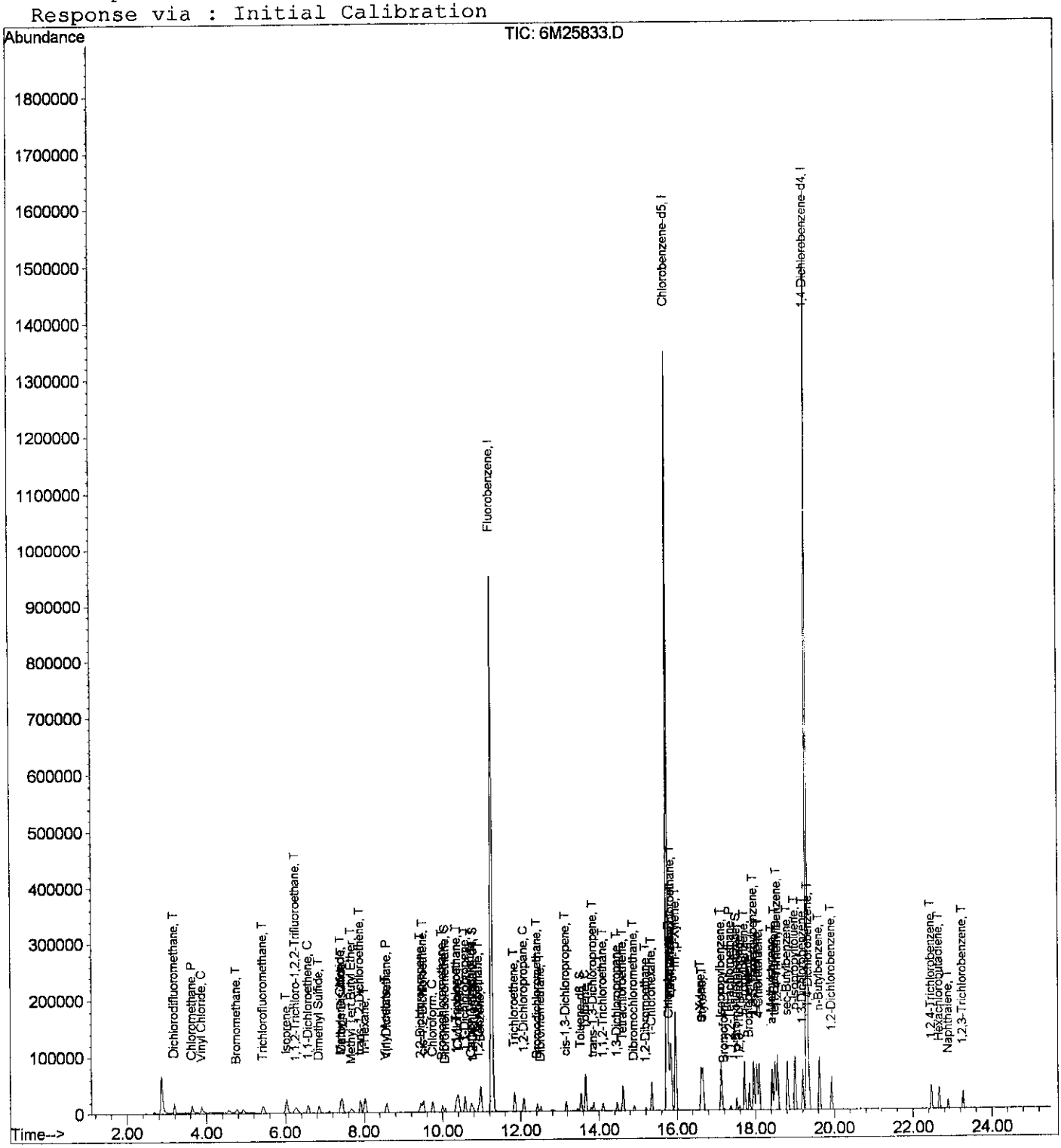
5/24/01

6M25832.D 8260WTR.M Thu May 24 14:33:56 2001

402

Data File : C:\HPCHEM\1\DATA\052101\6M25833.D Vial: 10
Acq On : 21 May 2001 17:19 Operator: CMS
Sample : WG97810-04 1 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25833.D
Acq On : 21 May 2001 17:19
Sample : WG97810-04 1 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101

Vial: 10
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1296351	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1123844	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	621518	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	7666	0.54	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	2.16%#		
33) 1,2-Dichloroethane-d4	10.79	65	6560	0.55	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.20%#		
45) Toluene-d8	13.55	98	33869	0.52	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.08%#		
66) p-Bromofluorobenzene	17.52	95	12769	0.53	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.12%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.19	85	26542	1.15	ug/L	98
3) Chloromethane	3.64	50	22945	1.25	ug/L	98
4) Vinyl Chloride	3.88	62	19459	1165.74	ug/L	91
5) Bromomethane	4.76	94	8820	1.11	ug/L	91
7) Trichlorofluoromethane	5.44	101	29083	1.11	ug/L #	97
8) Isoprene	6.03	67	21596	0.98	ug/L	98
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	15877	1.07	ug/L #	80
12) 1,1-Dichloroethene	6.57	96	11708	0.98	ug/L	91
13) Dimethyl Sulfide	6.85	62	11230	0.98	ug/L #	1
15) Methylene Chloride	7.40	84	13704	1.06	ug/L	81
16) Carbon Disulfide	7.45	76	50932	1.14	ug/L	100
18) Methyl Tert Butyl Ether	7.68	73	16135	0.93	ug/L	99
19) trans-1,2-Dichloroethene	7.91	96	13644	0.98	ug/L	90
20) n-Hexane	8.02	57	23503	0.96	ug/L	96
21) Vinyl Acetate	8.56	43	8356	1.82	ug/L #	76
22) 1,1-Dichloroethane	8.58	63	26229	0.99	ug/L	98
24) 2,2-Dichloropropane	9.45	77	20455	0.89	ug/L	96
25) cis-1,2-Dichloroethene	9.52	96	13237	0.97	ug/L	90
26) Chloroform	9.75	83	25124	1.01	ug/L	98
27) Bromochloromethane	10.00	128	5241	0.99	ug/L	90
29) 1,1,1-Trichloroethane	10.36	97	24075	0.95	ug/L	90
30) Cyclohexane	10.40	56	25812	0.95	ug/L	93
31) 1,1-Dichloropropene	10.58	75	20877	0.94	ug/L	93
32) Carbon Tetrachloride	10.74	117	19408	0.87	ug/L	99
34) 1,2-Dichloroethane	10.93	62	15438	1.08	ug/L #	88
35) Benzene	10.97	78	58280	1.11	ug/L	96

(#) = qualifier out of range (m) = manual integration
6M25833.D 8260WTR.M Thu May 24 14:57:49 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25833.D Vial: 10
Acq On : 21 May 2001 17:19 Operator: CMS
Sample : WG97810-04 1 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) Trichloroethene	11.85	130	19034	1.04 ug/L	97
37) 1,2-Dichloropropane	12.09	63	13306	0.97 ug/L	98
38) Bromodichloromethane	12.43	83	15144	0.98 ug/L	96
39) Dibromomethane	12.51	93	4573	0.96 ug/L	92
42) cis-1,3-Dichloropropene	13.17	75	14570	0.89 ug/L	99
46) Toluene	13.66	91	71872	1.02 ug/L	97
48) trans-1,3-Dichloropropene	13.87	75	11716	0.86 ug/L	97
49) 1,1,2-Trichloroethane	14.11	97	7085	0.99 ug/L	98
51) 1,3-Dichloropropane	14.48	76	12074	0.93 ug/L	87
52) Tetrachloroethene	14.62	164	16062	1.06 ug/L	96
53) Dibromochloromethane	14.90	129	8512	0.84 ug/L	97
54) 1,2-Dibromoethane	15.20	107	6932	0.95 ug/L	97
55) 1-Chlorohexane	15.36	91	20817	0.89 ug/L #	79
56) Chlorobenzene	15.80	112	55195	1.05 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	14263	0.98 ug/L	95
58) Ethylbenzene	15.86	106	31812	1.04 ug/L	97
59) m-,p-Xylene	15.96	106	79820	2.13 ug/L	91
60) o-Xylene	16.62	106	32979	1.00 ug/L	99
61) Styrene	16.66	104	54265	0.99 ug/L	97
62) Bromoform	17.21	173	3297	2.01 ug/L #	79
63) Isopropylbenzene	17.13	105	92332	0.97 ug/L	96
65) 1,1,2,2-Tetrachloroethane	17.36	83	7045	0.93 ug/L	96
67) 1,2,3-Trichloropropane	17.60	110	2277	0.93 ug/L #	86
69) n-Propylbenzene	17.73	91	105180	0.98 ug/L	98
70) Bromobenzene	17.84	156	20745	1.03 ug/L	93
71) 1,3,5-Trimethylbenzene	17.96	105	79264	1.08 ug/L	98
72) 2-Chlorotoluene	18.03	91	70990	1.07 ug/L	99
73) 4-Chlorotoluene	18.09	91	67663	1.02 ug/L	98
74) a-Methylstyrene	18.42	118	34650	0.92 ug/L	96
75) tert-Butylbenzene	18.50	119	76623	0.99 ug/L	99
76) 1,2,4-Trimethylbenzene	18.56	105	88721	1.13 ug/L	98
77) sec-Butylbenzene	18.81	105	100925	0.98 ug/L	97
78) p-Isopropyltoluene	19.02	119	91042	0.98 ug/L	98
79) 1,3-Dichlorobenzene	19.21	146	43986	1.01 ug/L	98
80) 1,4-Dichlorobenzene	19.36	146	47184	1.06 ug/L	100
81) n-Butylbenzene	19.63	91	78226	1.00 ug/L	99
82) 1,2-Dichlorobenzene	19.94	146	37012	1.05 ug/L	99
84) 1,2,4-Trichlorobenzene	22.47	180	20389	0.99 ug/L	96
85) Hexachlorobutadiene	22.67	225	11410	1.05 ug/L #	27
86) Naphthalene	22.89	128	20513	0.94 ug/L #	91
87) 1,2,3-Trichlorobenzene	23.26	180	15589	1.01 ug/L	93

(#) = qualifier out of range (m) = manual integration
6M25833.D 8260WTR.M Thu May 24 14:57:53 2001 Page 2

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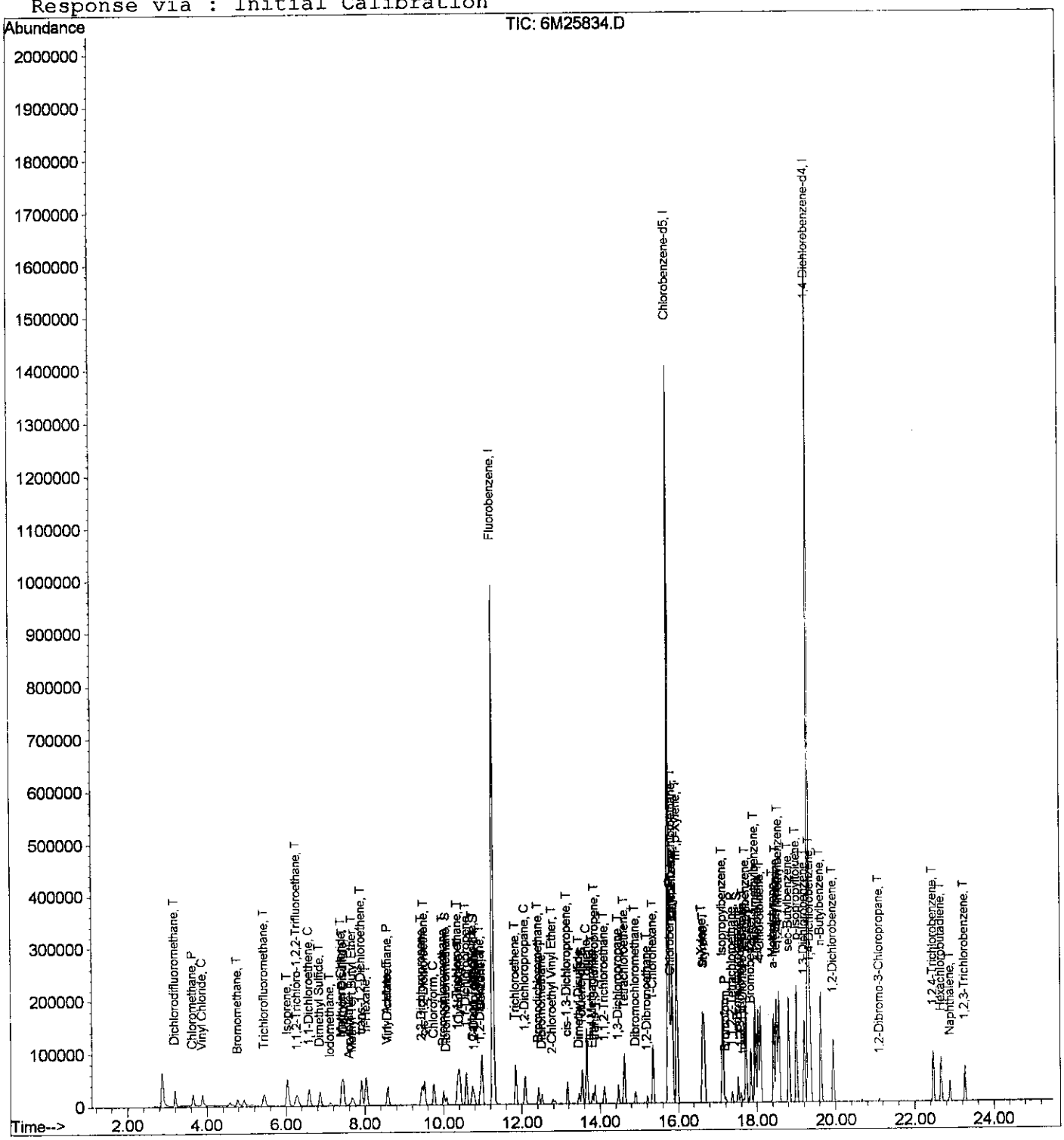
Data File : C:\HPCHEM\1\DATA\052101\6M25834.D
Acq On : 21 May 2001 18:02
Sample : WG97810-05 2 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101

Vial: 11
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25834.D Vial: 11
Acq On : 21 May 2001 18:02 Operator: CMS
Sample : WG97810-05 2 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1336461	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1161816	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	654603	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.08	111	14652	1.00	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	4.00%#		
33) 1,2-Dichloroethane-d4	10.80	65	12498	1.02	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	4.08%#		
45) Toluene-d8	13.55	98	68045	1.01	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.04%#		
66) p-Bromofluorobenzene	17.52	95	25098	0.99	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.96%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.19	85	46537	1.96	ug/L	97
3) Chloromethane	3.64	50	39368	2.08	ug/L	99
4) Vinyl Chloride	3.89	62	33124	0.68	ug/L	97
5) Bromomethane	4.77	94	15941	1.94	ug/L	94
7) Trichlorofluoromethane	5.45	101	52297	1.94	ug/L	100
8) Isoprene	6.03	67	43539	1.92	ug/L	95
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	28005	1.83	ug/L	99
12) 1,1-Dichloroethene	6.59	96	24097	1.96	ug/L	91
13) Dimethyl Sulfide	6.86	62	23328	1.97	ug/L #	1
14) Iodomethane	7.12	142	13759	4.23	ug/L #	64
15) Methylene Chloride	7.41	84	26554	1.99	ug/L	79
16) Carbon Disulfide	7.45	76	100596	2.18	ug/L	99
17) Acrylonitrile	7.61	53	2572	3.72	ug/L	91
18) Methyl Tert Butyl Ether	7.68	73	32395	1.82	ug/L #	84
19) trans-1,2-Dichloroethene	7.91	96	28752	2.00	ug/L	90
20) n-Hexane	8.03	57	51276	2.03	ug/L	99
21) Vinyl Acetate	8.57	43	18361	2.56	ug/L #	88
22) 1,1-Dichloroethane	8.59	63	54862	2.00	ug/L	96
24) 2,2-Dichloropropane	9.46	77	43144	1.82	ug/L	100
25) cis-1,2-Dichloroethene	9.51	96	27171	1.94	ug/L	86
26) Chloroform	9.75	83	52068	2.03	ug/L	98
27) Bromochloromethane	10.00	128	10607	1.94	ug/L	99
29) 1,1,1-Trichloroethane	10.36	97	50581	1.94	ug/L	90
30) Cyclohexane	10.41	56	55564	1.98	ug/L	92
31) 1,1-Dichloropropene	10.59	75	44537	1.94	ug/L	93
32) Carbon Tetrachloride	10.75	117	42618	1.84	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:23 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25834.D
Acq On : 21 May 2001 18:02
Sample : WG97810-05 2 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101

Vial: 11
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) 1,2-Dichloroethane	10.93	62	31376	2.13 ug/L #	75
35) Benzene	10.98	78	122791	2.26 ug/L	96
36) Trichloroethene	11.85	130	38621	2.05 ug/L	100
37) 1,2-Dichloropropane	12.09	63	28269	2.00 ug/L	100
38) Bromodichloromethane	12.42	83	31474	1.97 ug/L	100
39) Dibromomethane	12.51	93	10247	2.09 ug/L	97
40) 2-Chloroethyl Vinyl Ether	12.79	63	5471	2.80 ug/L	90
42) cis-1,3-Dichloropropene	13.17	75	32270	1.90 ug/L	99
43) Dimethyl Disulfide	13.46	79	7668	3.43 ug/L	93
46) Toluene	13.67	91	152999	2.11 ug/L	97
47) Ethyl Methacrylate	13.81	69	13647	1.57 ug/L	94
48) trans-1,3-Dichloropropene	13.87	75	25266	1.79 ug/L	99
49) 1,1,2-Trichloroethane	14.11	97	14917	2.01 ug/L	99
51) 1,3-Dichloropropane	14.47	76	26151	1.94 ug/L	89
52) Tetrachloroethene	14.62	164	32785	2.09 ug/L	98
53) Dibromochloromethane	14.91	129	18536	1.76 ug/L	99
54) 1,2-Dibromoethane	15.21	107	14433	1.92 ug/L	99
55) 1-Chlorohexane	15.36	91	46276	1.91 ug/L	85
56) Chlorobenzene	15.81	112	112829	2.08 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	30595	2.03 ug/L	99
58) Ethylbenzene	15.85	106	67763	2.15 ug/L	97
59) m-,p-Xylene	15.97	106	170594	4.40 ug/L	91
60) o-Xylene	16.62	106	72888	2.15 ug/L	99
61) Styrene	16.66	104	120445	2.14 ug/L	97
62) Bromoform	17.21	173	7808	2.73 ug/L	96
63) Isopropylbenzene	17.13	105	206664	2.11 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.37	83	15390	1.93 ug/L	95
67) 1,2,3-Trichloropropane	17.60	110	5215	2.01 ug/L	94
68) trans-1,4-Dichloro-2-Buten	17.66	53	3022	4.44 ug/L #	62
69) n-Propylbenzene	17.73	91	237728	2.11 ug/L	98
70) Bromobenzene	17.85	156	43292	2.03 ug/L	96
71) 1,3,5-Trimethylbenzene	17.96	105	180386	2.34 ug/L	97
72) 2-Chlorotoluene	18.03	91	152492	2.17 ug/L	98
73) 4-Chlorotoluene	18.09	91	150375	2.14 ug/L	99
74) a-Methylstyrene	18.43	118	80229	2.03 ug/L	99
75) tert-Butylbenzene	18.49	119	168778	2.08 ug/L	99
76) 1,2,4-Trimethylbenzene	18.56	105	193403	2.34 ug/L	97
77) sec-Butylbenzene	18.82	105	226576	2.09 ug/L	98
78) p-Isopropyltoluene	19.01	119	204648	2.09 ug/L	97
79) 1,3-Dichlorobenzene	19.21	146	96648	2.11 ug/L	97
80) 1,4-Dichlorobenzene	19.36	146	97523	2.09 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:26 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25834.D
Acq On : 21 May 2001 18:02
Sample : WG97810-05 2 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101

Vial: 11
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81) n-Butylbenzene	19.63	91	171886	2.08	ug/L		99
82) 1,2-Dichlorobenzene	19.94	146	76146	2.06	ug/L		99
83) 1,2-Dibromo-3-Chloropropan	21.10	157	2083	3.05	ug/L		82
84) 1,2,4-Trichlorobenzene	22.47	180	42867	1.98	ug/L		99
85) Hexachlorobutadiene	22.67	225	23595	2.06	ug/L	#	22
86) Naphthalene	22.89	128	46256	2.02	ug/L	#	91
87) 1,2,3-Trichlorobenzene	23.27	180	31913	1.96	ug/L		96

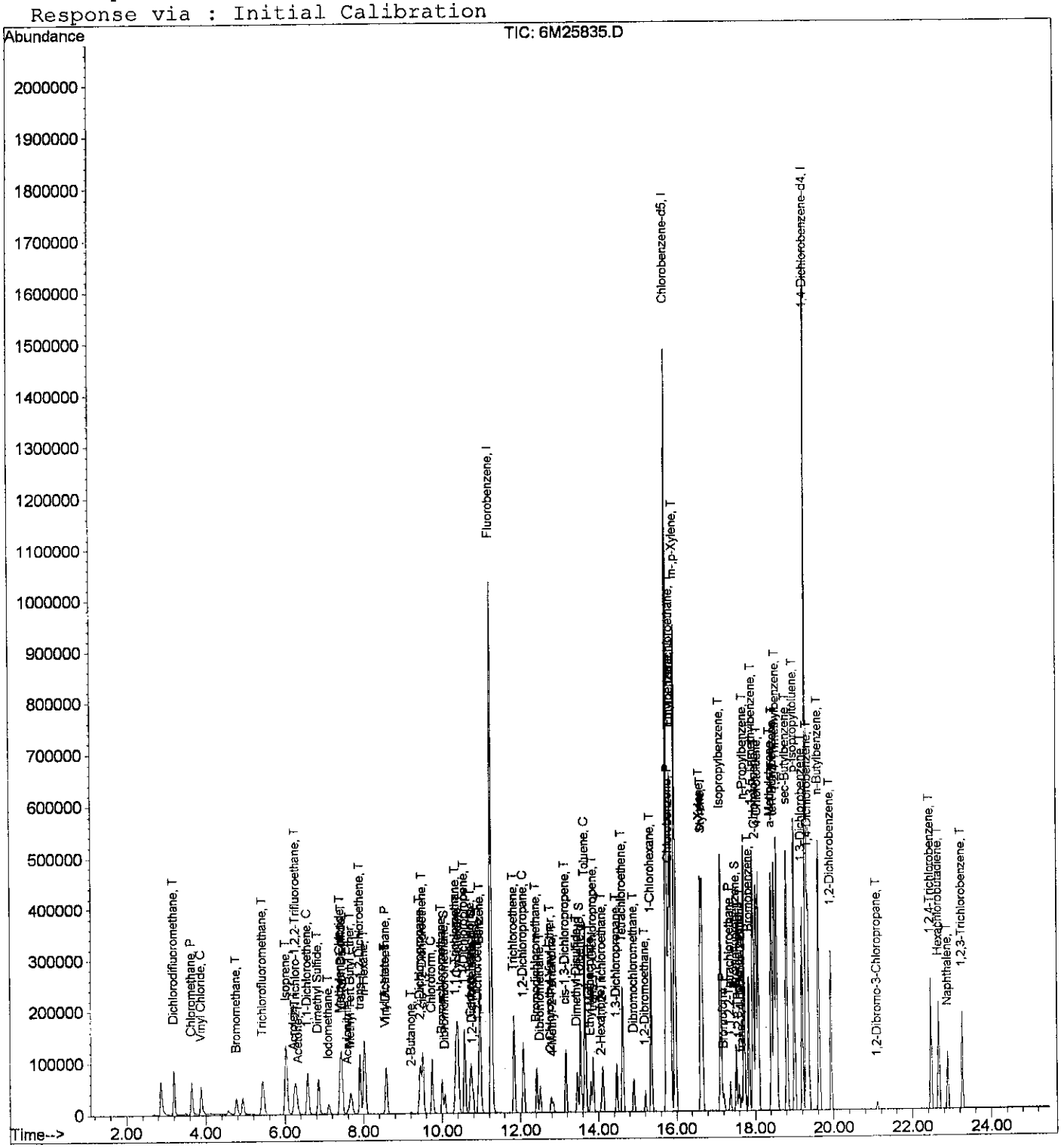
(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:27 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25835.D
Acq On : 21 May 2001 18:35
Sample : WG97810-06 5 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101

Vial: 12
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1400753	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1226025	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	676953	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	36351	2.36	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	9.44%		#	
33) 1,2-Dichloroethane-d4	10.79	65	31041	2.42	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	9.68%		#	
45) Toluene-d8	13.55	98	173076	2.43	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.72%		#	
66) p-Bromofluorobenzene	17.52	95	63260	2.40	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.60%		#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	127623	5.13	ug/L		96
3) Chloromethane	3.64	50	102507	5.16	ug/L		99
4) Vinyl Chloride	3.88	62	90763	4.95	ug/L		98
5) Bromomethane	4.77	94	39872	4.63	ug/L		96
7) Trichlorofluoromethane	5.44	101	142023	5.03	ug/L	#	97
8) Isoprene	6.03	67	112668	4.75	ug/L		93
9) Acrolein	6.22	56	2325	22.79	ug/L	#	57
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	77540	4.83	ug/L		98
11) Acetone	6.35	43	6657	4.89	ug/L	#	46
12) 1,1-Dichloroethene	6.58	96	58362	4.54	ug/L		87
13) Dimethyl Sulfide	6.85	62	61332	4.94	ug/L	#	1
14) Iodomethane	7.11	142	41750	6.43	ug/L		95
15) Methylene Chloride	7.40	84	62339	4.45	ug/L		79
16) Carbon Disulfide	7.45	76	239660	4.96	ug/L		99
17) Acrylonitrile	7.59	53	8168	6.12	ug/L		99
18) Methyl Tert Butyl Ether	7.67	73	86904	4.65	ug/L		96
19) trans-1,2-Dichloroethene	7.91	96	70965	4.71	ug/L		91
20) n-Hexane	8.02	57	133145	5.03	ug/L		98
21) Vinyl Acetate	8.56	43	51875	4.94	ug/L		97
22) 1,1-Dichloroethane	8.58	63	136475	4.76	ug/L		97
23) 2-Butanone	9.21	43	7763	4.25	ug/L	#	84
24) 2,2-Dichloropropane	9.45	77	112264	4.52	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	70119	4.77	ug/L		87
26) Chloroform	9.75	83	127471	4.74	ug/L		98
27) Bromochloromethane	10.00	128	26988	4.70	ug/L		97
29) 1,1,1-Trichloroethane	10.36	97	129197	4.74	ug/L		91

(#) = qualifier out of range (m) = manual integration
6M25835.D 8260WTR.M Thu May 24 14:58:56 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25835.D
Acq On : 21 May 2001 18:35
Sample : WG97810-06 5 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101

Vial: 12
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Cyclohexane	10.40	56	146365	4.97 ug/L	93
31) 1,1-Dichloropropene	10.58	75	117368	4.89 ug/L	95
32) Carbon Tetrachloride	10.75	117	113900	4.70 ug/L	98
34) 1,2-Dichloroethane	10.93	62	79349	5.14 ug/L #	75
35) Benzene	10.98	78	313255	5.50 ug/L	96
36) Trichloroethene	11.84	130	99161	5.03 ug/L	99
37) 1,2-Dichloropropane	12.09	63	72755	4.91 ug/L	98
38) Bromodichloromethane	12.43	83	82061	4.90 ug/L	99
39) Dibromomethane	12.51	93	26287	5.11 ug/L	96
40) 2-Chloroethyl Vinyl Ether	12.79	63	16633	5.25 ug/L	100
41) 4-Methyl-2-Pentanone	12.84	58	9804	4.60 ug/L	87
42) cis-1,3-Dichloropropene	13.17	75	88583	4.98 ug/L	98
43) Dimethyl Disulfide	13.47	79	29930	5.42 ug/L	92
46) Toluene	13.66	91	400104	5.23 ug/L	97
47) Ethyl Methacrylate	13.80	69	41894	4.56 ug/L	99
48) trans-1,3-Dichloropropene	13.87	75	70718	4.74 ug/L	99
49) 1,1,2-Trichloroethane	14.12	97	38679	4.94 ug/L	99
50) 2-Hexanone	14.07	43	15839	4.25 ug/L	96
51) 1,3-Dichloropropane	14.47	76	69423	4.88 ug/L	90
52) Tetrachloroethene	14.62	164	84623	5.12 ug/L	99
53) Dibromochloromethane	14.91	129	52071	4.70 ug/L	100
54) 1,2-Dibromoethane	15.21	107	38852	4.89 ug/L	100
55) 1-Chlorohexane	15.36	91	128337	5.01 ug/L	88
56) Chlorobenzene	15.81	112	286074	4.99 ug/L	100
57) 1,1,1,2-Tetrachloroethane	15.85	131	81503	5.13 ug/L	97
58) Ethylbenzene	15.86	106	172169	5.18 ug/L	96
59) m-,p-Xylene	15.97	106	437364	10.69 ug/L	92
60) o-Xylene	16.62	106	195102	5.44 ug/L	100
61) Styrene	16.66	104	317425	5.33 ug/L	96
62) Bromoform	17.21	173	22962	5.02 ug/L	98
63) Isopropylbenzene	17.13	105	548651	5.30 ug/L	96
65) 1,1,2,2-Tetrachloroethane	17.37	83	39527	4.80 ug/L	99
67) 1,2,3-Trichloropropane	17.59	110	13398	5.00 ug/L	98
68) trans-1,4-Dichloro-2-Buten	17.65	53	9421	6.52 ug/L #	75
69) n-Propylbenzene	17.73	91	620526	5.31 ug/L	98
70) Bromobenzene	17.85	156	113243	5.14 ug/L	95
71) 1,3,5-Trimethylbenzene	17.95	105	464727	5.82 ug/L	98
72) 2-Chlorotoluene	18.03	91	379471	5.23 ug/L	96
73) 4-Chlorotoluene	18.09	91	389045	5.36 ug/L	98
74) a-Methylstyrene	18.42	118	217013	5.30 ug/L	99
75) tert-Butylbenzene	18.50	119	435705	5.18 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M25835.D 8260WTR.M Thu May 24 14:58:59 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76) 1,2,4-Trimethylbenzene	18.55	105	487526	5.71	ug/L		97
77) sec-Butylbenzene	18.82	105	587815	5.25	ug/L		98
78) p-Isopropyltoluene	19.01	119	533509	5.26	ug/L		98
79) 1,3-Dichlorobenzene	19.21	146	242543	5.13	ug/L		100
80) 1,4-Dichlorobenzene	19.36	146	245311	5.08	ug/L		97
81) n-Butylbenzene	19.63	91	442553	5.17	ug/L		100
82) 1,2-Dichlorobenzene	19.94	146	191563	5.00	ug/L		100
83) 1,2-Dibromo-3-Chloropropan	21.11	157	6165	5.43	ug/L		87
84) 1,2,4-Trichlorobenzene	22.47	180	112999	5.05	ug/L		96
85) Hexachlorobutadiene	22.67	225	59383	5.01	ug/L	#	25
86) Naphthalene	22.89	128	128983	5.45	ug/L	#	91
87) 1,2,3-Trichlorobenzene	23.26	180	83905	4.98	ug/L		97

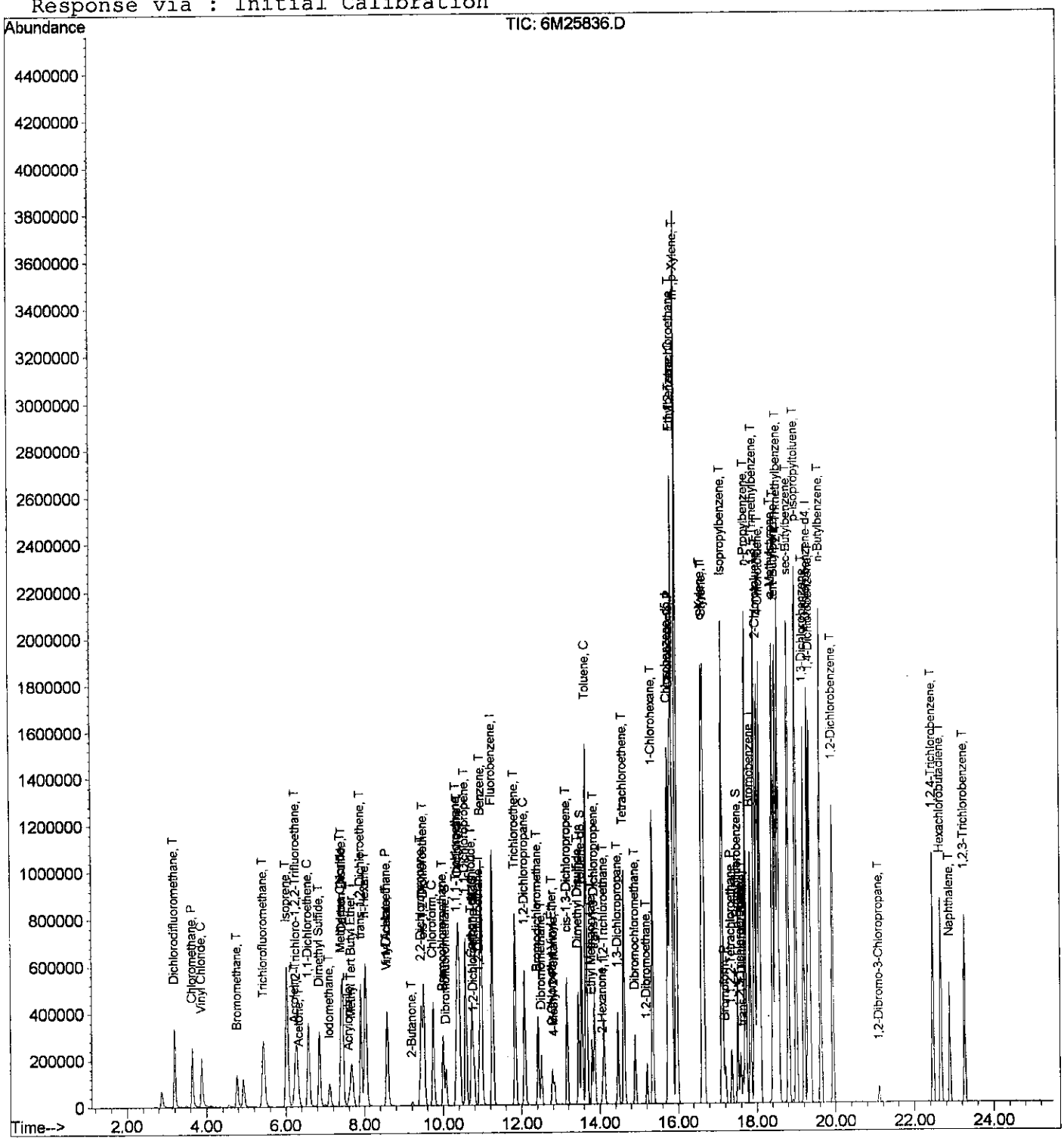
(#) = qualifier out of range (m) = manual integration
6M25835.D 8260WTR.M Thu May 24 14:59:00 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25836.D
Acq On : 21 May 2001 19:07
Sample : WG97810-07 20 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 13
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25836.D
Acq On : 21 May 2001 19:07
Sample : WG97810-07 20 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 13
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1487178	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1269414	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	692403	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	157918	9.66	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 38.64%#			
33) 1,2-Dichloroethane-d4	10.79	65	132529	9.72	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 38.88%#			
45) Toluene-d8	13.55	98	743782	10.10	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 40.40%#			
66) p-Bromofluorobenzene	17.52	95	271292	10.07	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 40.28%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.19	85	511293	19.37	ug/L	95
3) Chloromethane	3.64	50	417435	19.80	ug/L	100
4) Vinyl Chloride	3.88	62	355178	23.90	ug/L	99
5) Bromomethane	4.77	94	173717	19.02	ug/L	100
7) Trichlorofluoromethane	5.44	101	603578	20.13	ug/L	99
8) Isoprene	6.03	67	515437	20.45	ug/L	93
9) Acrolein	6.22	56	12571	43.01	ug/L	98
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	333802	19.57	ug/L	99
11) Acetone	6.34	43	27940	19.32	ug/L	92
12) 1,1-Dichloroethene	6.58	96	261635	19.17	ug/L	88
13) Dimethyl Sulfide	6.85	62	283267	21.47	ug/L #	1
14) Iodomethane	7.11	142	210491	19.04	ug/L	96
15) Methylene Chloride	7.40	84	267929	18.00	ug/L	81
16) Carbon Disulfide	7.45	76	1075382	20.95	ug/L	99
17) Acrylonitrile	7.59	53	37424	17.99	ug/L	91
18) Methyl Tert Butyl Ether	7.67	73	398418	20.08	ug/L	95
19) trans-1,2-Dichloroethene	7.91	96	317759	19.86	ug/L	89
20) n-Hexane	8.03	57	598140	21.27	ug/L	99
21) Vinyl Acetate	8.56	43	248391	18.22	ug/L	98
22) 1,1-Dichloroethane	8.58	63	599148	19.67	ug/L	98
23) 2-Butanone	9.21	43	36148	18.63	ug/L	93
24) 2,2-Dichloropropane	9.45	77	524509	19.89	ug/L	99
25) cis-1,2-Dichloroethene	9.52	96	319845	20.48	ug/L	90
26) Chloroform	9.75	83	550650	19.27	ug/L	98
27) Bromochloromethane	10.00	128	117895	19.35	ug/L	100
29) 1,1,1-Trichloroethane	10.36	97	571159	19.73	ug/L	92

(#) = qualifier out of range (m) = manual integration
6M25836.D 8260WTR.M Thu May 24 14:59:30 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25836.D
Acq On : 21 May 2001 19:07
Sample : WG97810-07 20 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 13
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Cyclohexane	10.40	56	665993	21.31 ug/L	94
31) 1,1-Dichloropropene	10.58	75	517597	20.30 ug/L	94
32) Carbon Tetrachloride	10.74	117	530506	20.62 ug/L	99
34) 1,2-Dichloroethane	10.93	62	341846	20.87 ug/L #	75
35) Benzene	10.98	78	1360937	22.51 ug/L	96
36) Trichloroethene	11.84	130	424211	20.26 ug/L	99
37) 1,2-Dichloropropane	12.09	63	310902	19.76 ug/L	99
38) Bromodichloromethane	12.42	83	364705	20.50 ug/L	100
39) Dibromomethane	12.51	93	112202	20.53 ug/L	97
40) 2-Chloroethyl Vinyl Ether	12.79	63	84083	19.34 ug/L	97
41) 4-Methyl-2-Pentanone	12.84	58	43780	19.36 ug/L	92
42) cis-1,3-Dichloropropene	13.17	75	405769	21.51 ug/L	98
43) Dimethyl Disulfide	13.46	79	188116	18.80 ug/L	95
46) Toluene	13.66	91	1681863	21.22 ug/L	98
47) Ethyl Methacrylate	13.80	69	196232	20.63 ug/L	99
48) trans-1,3-Dichloropropene	13.87	75	327756	21.24 ug/L	98
49) 1,1,2-Trichloroethane	14.12	97	161482	19.93 ug/L	100
50) 2-Hexanone	14.07	43	76173	19.74 ug/L	100
51) 1,3-Dichloropropane	14.47	76	295907	20.10 ug/L	91
52) Tetrachloroethene	14.62	164	354202	20.68 ug/L	98
53) Dibromochloromethane	14.91	129	240960	21.00 ug/L	100
54) 1,2-Dibromoethane	15.21	107	169159	20.55 ug/L	100
55) 1-Chlorohexane	15.36	91	571775	21.54 ug/L	91
56) Chlorobenzene	15.81	112	1155710	19.47 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	353546	21.48 ug/L	96
58) Ethylbenzene	15.86	106	704816	20.46 ug/L	97
59) m-,p-Xylene	15.97	106	1764479	41.64 ug/L	93
60) o-Xylene	16.62	106	817680	22.04 ug/L	99
61) Styrene	16.66	104	1327643	21.54 ug/L	96
62) Bromoform	17.21	173	113109	18.45 ug/L	100
63) Isopropylbenzene	17.13	105	2272357	21.19 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.37	83	166664	19.77 ug/L	99
67) 1,2,3-Trichloropropane	17.59	110	54785	19.99 ug/L	96
68) trans-1,4-Dichloro-2-Buten	17.66	53	49473	19.42 ug/L #	80
69) n-Propylbenzene	17.73	91	2567356	21.49 ug/L	98
70) Bromobenzene	17.85	156	463578	20.57 ug/L	96
71) 1,3,5-Trimethylbenzene	17.95	105	1928650	23.61 ug/L	98
72) 2-Chlorotoluene	18.03	91	1553583	20.92 ug/L	98
73) 4-Chlorotoluene	18.09	91	1571838	21.17 ug/L	99
74) a-Methylstyrene	18.42	118	945594	22.59 ug/L	99
75) tert-Butylbenzene	18.49	119	1778449	20.68 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M25836.D 8260WTR.M Thu May 24 14:59:33 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25836.D Vial: 13
Acq On : 21 May 2001 19:07 Operator: CMS
Sample : WG97810-07 20 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,2,4-Trimethylbenzene	18.56	105	1974868	22.62	ug/L		98
77)	sec-Butylbenzene	18.81	105	2428403	21.21	ug/L		98
78)	p-Isopropyltoluene	19.01	119	2211855	21.32	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	991561	20.50	ug/L		99
80)	1,4-Dichlorobenzene	19.36	146	972178	19.69	ug/L		99
81)	n-Butylbenzene	19.63	91	1814400	20.73	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	785091	20.05	ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	29732	19.02	ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	479190	20.94	ug/L		96
85)	Hexachlorobutadiene	22.67	225	247292	20.39	ug/L	#	25
86)	Naphthalene	22.89	128	586447	24.24	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	358073	20.77	ug/L		96

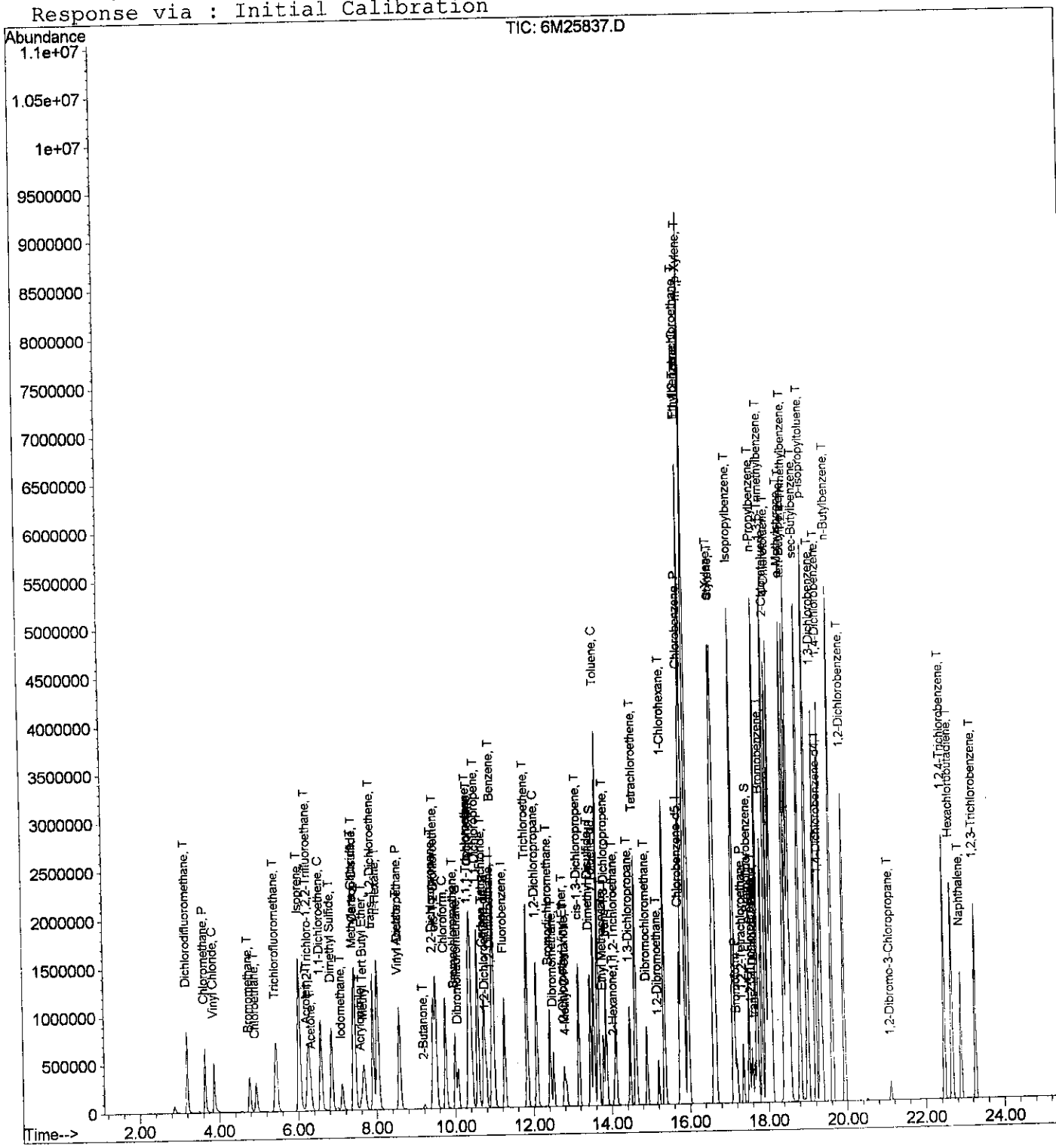
(#) = qualifier out of range (m) = manual integration
6M25836.D 8260WTR.M Thu May 24 14:59:34 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D
Acq On : 21 May 2001 19:39
Sample : WG97810-08 50 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 14
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25837.D Vial: 14
Acq On : 21 May 2001 19:39 Operator: CMS
Sample : WG97810-08 50 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1561179	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1318268	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	722228	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	411594	23.98	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.92%				
33) 1,2-Dichloroethane-d4	10.79	65	340876	23.83	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.32%				
45) Toluene-d8	13.55	98	1889282	24.71	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.84%				
66) p-Bromofluorobenzene	17.52	95	694587	24.72	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	1307256	47.17	ug/L		96
3) Chloromethane	3.64	50	1086685	49.10	ug/L		100
4) Vinyl Chloride	3.87	62	793347	54.57	ug/L		100
5) Bromomethane	4.77	94	459112	47.87	ug/L		99
6) Chloroethane	4.94	64	517529	0.25	ug/L		100
7) Trichlorofluoromethane	5.44	101	1567895	49.81	ug/L		99
8) Isoprene	6.03	67	1394866	52.72	ug/L		95
9) Acrolein	6.22	56	36358	87.15	ug/L		94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	872270	48.71	ug/L		99
11) Acetone	6.34	43	71469	47.09	ug/L		97
12) 1,1-Dichloroethene	6.58	96	703559	49.10	ug/L		89
13) Dimethyl Sulfide	6.85	62	785336	56.70	ug/L	#	1
14) Iodomethane	7.11	142	603089	46.65	ug/L		97
15) Methylene Chloride	7.40	84	713348	45.65	ug/L		83
16) Carbon Disulfide	7.45	76	2964961	55.03	ug/L		99
17) Acrylonitrile	7.60	53	115603	48.01	ug/L		100
18) Methyl Tert Butyl Ether	7.67	73	1067306	51.25	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	858912	51.13	ug/L		91
20) n-Hexane	8.03	57	1563954	52.98	ug/L		100
21) Vinyl Acetate	8.56	43	723230	48.47	ug/L		98
22) 1,1-Dichloroethane	8.58	63	1600969	50.06	ug/L		97
23) 2-Butanone	9.21	43	104943	51.51	ug/L		93
24) 2,2-Dichloropropane	9.45	77	1455037	52.56	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	848962	51.79	ug/L		89
26) Chloroform	9.75	83	1450389	48.35	ug/L		98
27) Bromochloromethane	10.00	128	313253	48.96	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M25837.D 8260WTR.M Thu May 24 15:00:03 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D
Acq On : 21 May 2001 19:39
Sample : WG97810-08 50 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 14
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 1,1,1-Trichloroethane	10.36	97	1534091	50.49 ug/L	92
30) Cyclohexane	10.40	56	1752677	53.42 ug/L	95
31) 1,1-Dichloropropene	10.58	75	1368596	51.14 ug/L	94
32) Carbon Tetrachloride	10.74	117	1459945	54.05 ug/L	99
34) 1,2-Dichloroethane	10.93	62	888919	51.69 ug/L #	75
35) Benzene	10.98	78	3548363	55.91 ug/L	96
36) Trichloroethene	11.85	130	1114605	50.70 ug/L	99
37) 1,2-Dichloropropane	12.09	63	825724	50.00 ug/L	98
38) Bromodichloromethane	12.42	83	977945	52.36 ug/L	100
39) Dibromomethane	12.51	93	293712	51.19 ug/L	95
40) 2-Chloroethyl Vinyl Ether	12.79	63	232464	48.46 ug/L	97
41) 4-Methyl-2-Pentanone	12.84	58	120566	50.80 ug/L	93
42) cis-1,3-Dichloropropene	13.17	75	1101531	55.62 ug/L	98
43) Dimethyl Disulfide	13.46	79	555087	47.96 ug/L	95
46) Toluene	13.67	91	4297173	52.20 ug/L	98
47) Ethyl Methacrylate	13.80	69	527832	53.44 ug/L	100
48) trans-1,3-Dichloropropene	13.87	75	890806	55.58 ug/L	99
49) 1,1,2-Trichloroethane	14.12	97	424276	50.42 ug/L	100
50) 2-Hexanone	14.07	43	209835	52.36 ug/L	100
51) 1,3-Dichloropropane	14.47	76	777813	50.88 ug/L	92
52) Tetrachloroethene	14.62	164	915137	51.46 ug/L	97
53) Dibromochloromethane	14.91	129	662876	55.63 ug/L	100
54) 1,2-Dibromoethane	15.21	107	455340	53.26 ug/L	100
55) 1-Chlorohexane	15.36	91	1474786	53.51 ug/L	93
56) Chlorobenzene	15.81	112	2941754	47.73 ug/L	96
57) 1,1,1,2-Tetrachloroethane	15.85	131	918331	53.73 ug/L	97
58) Ethylbenzene	15.86	106	1791601	50.09 ug/L	100
59) m-,p-Xylene	15.97	106	4456255	101.28 ug/L	97
60) o-Xylene	16.62	106	2102769	54.57 ug/L	98
61) Styrene	16.66	104	3401618	53.15 ug/L	96
62) Bromoform	17.21	173	323522	48.27 ug/L	99
63) Isopropylbenzene	17.13	105	5742911	51.56 ug/L	98
65) 1,1,2,2-Tetrachloroethane	17.37	83	438692	49.89 ug/L	100
67) 1,2,3-Trichloropropane	17.60	110	147788	51.69 ug/L	96
68) trans-1,4-Dichloro-2-Buten	17.66	53	138542	46.40 ug/L	84
69) n-Propylbenzene	17.73	91	6447700	51.75 ug/L	100
70) Bromobenzene	17.85	156	1184753	50.41 ug/L	96
71) 1,3,5-Trimethylbenzene	17.95	105	4888795	57.37 ug/L	100
72) 2-Chlorotoluene	18.03	91	3898647	50.34 ug/L	95
73) 4-Chlorotoluene	18.09	91	4012846	51.81 ug/L	99
74) a-Methylstyrene	18.42	118	2425991	55.56 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M25837.D 8260WTR.M Thu May 24 15:00:07 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D
Acq On : 21 May 2001 19:39
Sample : WG97810-08 50 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 14
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

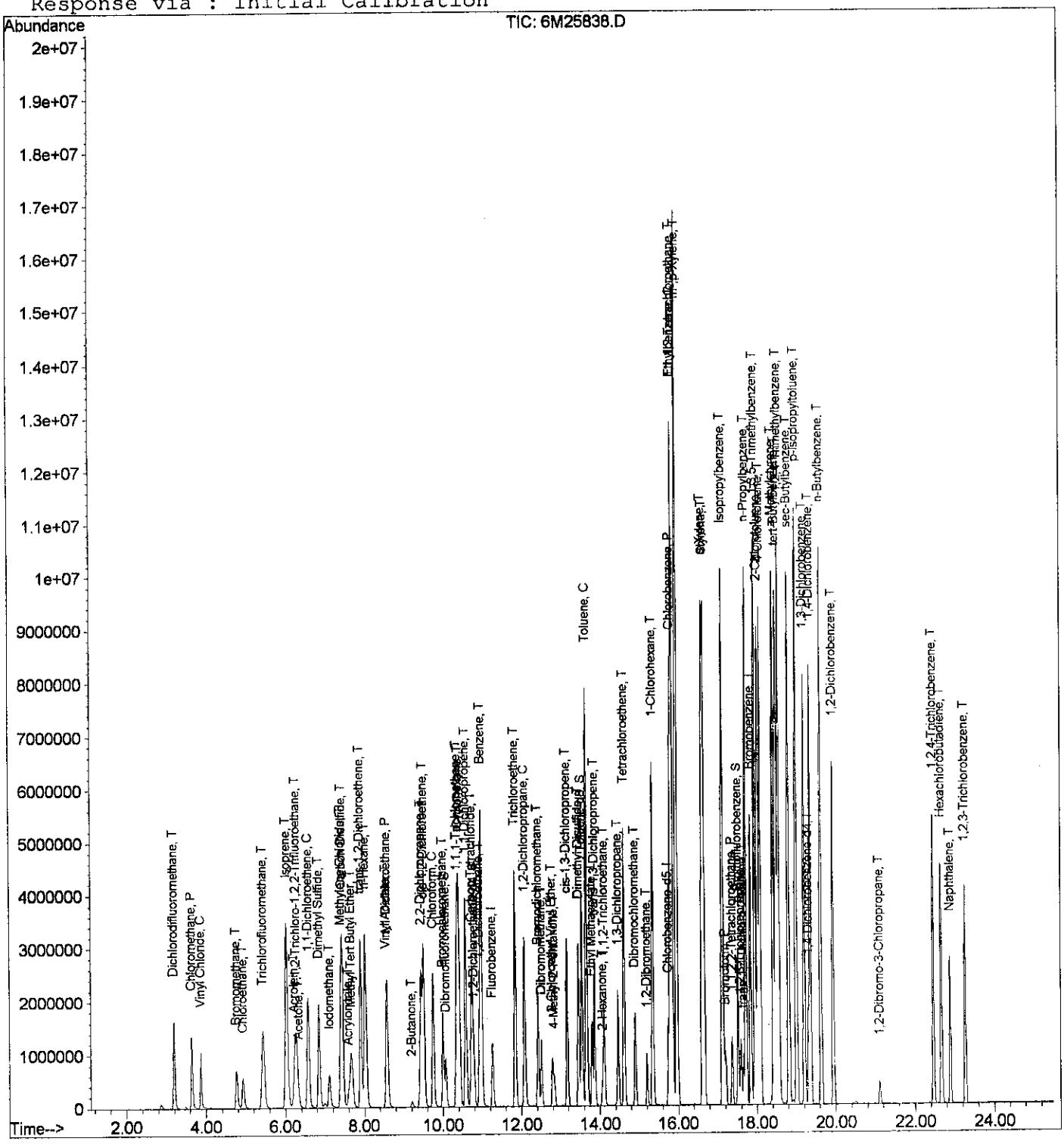
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) tert-Butylbenzene	18.50	119	4542363	50.64 ug/L	99
76) 1,2,4-Trimethylbenzene	18.56	105	4963570	54.51 ug/L	100
77) sec-Butylbenzene	18.82	105	6133693	51.37 ug/L	99
78) p-Isopropyltoluene	19.01	119	5612511	51.87 ug/L	98
79) 1,3-Dichlorobenzene	19.21	146	2520635	49.97 ug/L	100
80) 1,4-Dichlorobenzene	19.36	146	2467898	47.93 ug/L	100
81) n-Butylbenzene	19.63	91	4606469	50.46 ug/L	98
82) 1,2-Dichlorobenzene	19.94	146	2012511	49.27 ug/L	100
83) 1,2-Dibromo-3-Chloropropan	21.11	157	83406	48.17 ug/L	97
84) 1,2,4-Trichlorobenzene	22.47	180	1243545	52.10 ug/L	96
85) Hexachlorobutadiene	22.67	225	639361	50.55 ug/L #	25
86) Naphthalene	22.89	128	1527619	60.53 ug/L #	90
87) 1,2,3-Trichlorobenzene	23.26	180	915606	50.92 ug/L	96

(#) = qualifier out of range (m) = manual integration
6M25837.D 8260WTR.M Thu May 24 15:00:08 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D Vial: 15
Acq On : 21 May 2001 20:12 Operator: CMS
Sample : WG97810-09 100 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25838.D
Acq On : 21 May 2001 20:12
Sample : WG97810-09 100 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 15
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1640006	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1366798	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	744658	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	936615	51.95	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 207.80%#			
33) 1,2-Dichloroethane-d4	10.79	65	761941	50.70	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 202.80%#			
45) Toluene-d8	13.55	98	4057068	51.18	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 204.72%#			
66) p-Bromofluorobenzene	17.52	95	1489473	51.42	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 205.68%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.19	85	2512834	86.30	ug/L	95
3) Chloromethane	3.64	50	2210830	95.09	ug/L	100
4) Vinyl Chloride	3.87	62	1374585	94.75	ug/L	100
5) Bromomethane	4.77	94	914947	90.82	ug/L	100
6) Chloroethane	4.93	64	1005158	0.46	ug/L	100
7) Trichlorofluoromethane	5.44	101	3215925	97.25	ug/L	100
8) Isoprene	6.03	67	3139270	112.94	ug/L	96
9) Acrolein	6.22	56	94277	188.92	ug/L	97
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	1810136	96.23	ug/L	99
11) Acetone	6.34	43	166651	104.52	ug/L	92
12) 1,1-Dichloroethene	6.58	96	1580464	104.99	ug/L	91
13) Dimethyl Sulfide	6.85	62	1803316	123.95	ug/L #	1
14) Iodomethane	7.11	142	1402336	99.53	ug/L	95
15) Methylene Chloride	7.40	84	1529456	93.18	ug/L	85
16) Carbon Disulfide	7.45	76	6618190	116.92	ug/L	100
17) Acrylonitrile	7.59	53	263019	101.03	ug/L	100
18) Methyl Tert Butyl Ether	7.67	73	2393197	109.39	ug/L	95
19) trans-1,2-Dichloroethene	7.91	96	1930448	109.40	ug/L	92
20) n-Hexane	8.03	57	3376842	108.90	ug/L	99
21) Vinyl Acetate	8.56	43	1633272	102.87	ug/L	99
22) 1,1-Dichloroethane	8.58	63	3555747	105.85	ug/L	98
23) 2-Butanone	9.21	43	233319	109.01	ug/L	95
24) 2,2-Dichloropropane	9.45	77	3338059	114.78	ug/L	100
25) cis-1,2-Dichloroethene	9.51	96	1891405	109.83	ug/L	89
26) Chloroform	9.75	83	3171037	100.63	ug/L	98
27) Bromochloromethane	10.00	128	717688	106.79	ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D
Acq On : 21 May 2001 20:12
Sample : WG97810-09 100 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 15
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 1,1,1-Trichloroethane	10.36	97	3332060	104.38 ug/L	93
30) Cyclohexane	10.40	56	3824241	110.96 ug/L	96
31) 1,1-Dichloropropene	10.58	75	2948027	104.87 ug/L	96
32) Carbon Tetrachloride	10.74	117	3197651	112.70 ug/L	100
34) 1,2-Dichloroethane	10.93	62	1919621	106.25 ug/L #	75
35) Benzene	10.98	78	7425371	111.37 ug/L	96
36) Trichloroethene	11.84	130	2377003	102.92 ug/L	100
37) 1,2-Dichloropropane	12.09	63	1780565	102.63 ug/L	96
38) Bromodichloromethane	12.42	83	2119160	108.02 ug/L	100
39) Dibromomethane	12.51	93	645373	107.08 ug/L	95
40) 2-Chloroethyl Vinyl Ether	12.79	63	519699	101.42 ug/L	97
41) 4-Methyl-2-Pentanone	12.84	58	264485	106.08 ug/L	93
42) cis-1,3-Dichloropropene	13.17	75	2389168	114.83 ug/L	98
43) Dimethyl Disulfide	13.46	79	1273402	101.55 ug/L	95
46) Toluene	13.66	91	8761180	102.65 ug/L	99
47) Ethyl Methacrylate	13.80	69	1147841	112.08 ug/L	100
48) trans-1,3-Dichloropropene	13.87	75	1921092	115.60 ug/L	98
49) 1,1,2-Trichloroethane	14.11	97	900109	103.17 ug/L	100
50) 2-Hexanone	14.07	43	443679	106.79 ug/L	98
51) 1,3-Dichloropropane	14.47	76	1668372	105.25 ug/L	94
52) Tetrachloroethene	14.62	164	1903011	103.21 ug/L	98
53) Dibromochloromethane	14.90	129	1447195	117.13 ug/L	99
54) 1,2-Dibromoethane	15.20	107	975654	110.07 ug/L	100
55) 1-Chlorohexane	15.36	91	3104311	108.64 ug/L	94
56) Chlorobenzene	15.81	112	5983189	93.62 ug/L	96
57) 1,1,1,2-Tetrachloroethane	15.85	131	1848737	104.33 ug/L	98
58) Ethylbenzene	15.86	106	3652517	98.49 ug/L	94
59) m-,p-Xylene	15.97	106	8695701	190.61 ug/L	95
60) o-Xylene	16.62	106	4306222	107.79 ug/L	94
61) Styrene	16.66	104	6830555	102.94 ug/L	96
62) Bromoform	17.21	173	719609	101.90 ug/L	99
63) Isopropylbenzene	17.13	105	11387835	98.61 ug/L	100
65) 1,1,2,2-Tetrachloroethane	17.37	83	949556	104.74 ug/L	100
67) 1,2,3-Trichloropropane	17.60	110	313285	106.27 ug/L	97
68) trans-1,4-Dichloro-2-Buten	17.66	53	316516	98.67 ug/L	92
69) n-Propylbenzene	17.73	91	12573114	97.87 ug/L	98
70) Bromobenzene	17.85	156	2421450	99.92 ug/L	96
71) 1,3,5-Trimethylbenzene	17.96	105	9765142	111.14 ug/L	99
72) 2-Chlorotoluene	18.03	91	7850961	98.32 ug/L	96
73) 4-Chlorotoluene	18.09	91	7861820	98.45 ug/L	96
74) a-Methylstyrene	18.42	118	5046221	112.08 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M25838.D 8260WTR.M Thu May 24 15:00:40 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D
Acq On : 21 May 2001 20:12
Sample : WG97810-09 100 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101

Vial: 15
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75) tert-Butylbenzene	18.50	119	9055243	97.90	ug/L		100
76) 1,2,4-Trimethylbenzene	18.56	105	9768539	104.05	ug/L		98
77) sec-Butylbenzene	18.81	105	12035802	97.77	ug/L		100
78) p-Isopropyltoluene	19.01	119	11013762	98.72	ug/L		100
79) 1,3-Dichlorobenzene	19.21	146	5086502	97.80	ug/L		99
80) 1,4-Dichlorobenzene	19.36	146	4953380	93.30	ug/L		99
81) n-Butylbenzene	19.63	91	9163736	97.37	ug/L		96
82) 1,2-Dichlorobenzene	19.94	146	4083817	96.97	ug/L		99
83) 1,2-Dibromo-3-Chloropropan	21.11	157	184975	101.58	ug/L		100
84) 1,2,4-Trichlorobenzene	22.47	180	2527862	102.71	ug/L		96
85) Hexachlorobutadiene	22.66	225	1317346	101.01	ug/L	#	25
86) Naphthalene	22.89	128	3207163	123.26	ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.26	180	1869595	100.85	ug/L		96

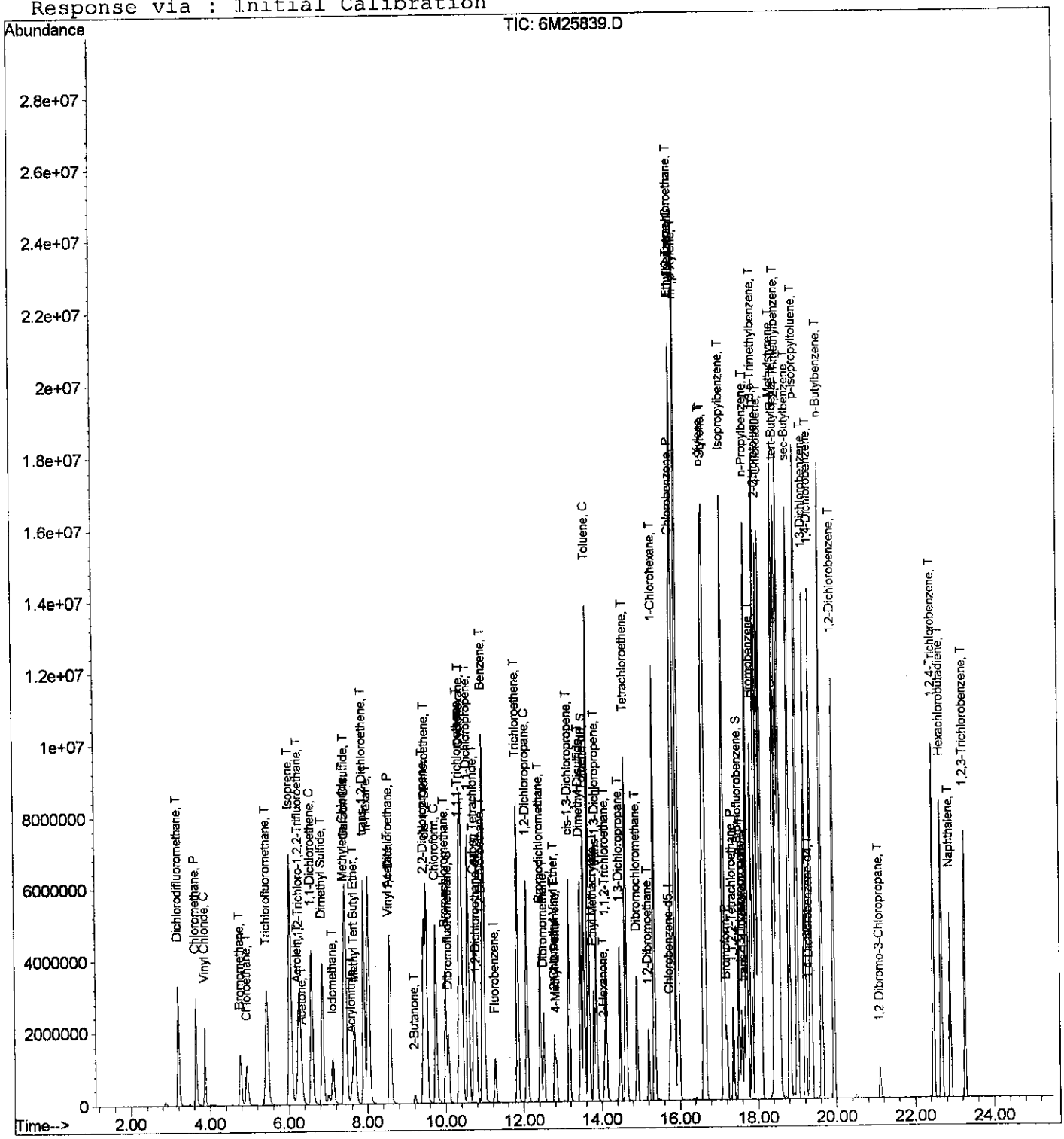
(#) = qualifier out of range (m) = manual integration
6M25838.D 8260WTR.M Thu May 24 15:00:41 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D
Acq On : 21 May 2001 20:46
Sample : WG97810-10 200 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101

Vial: 16
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25839.D
Acq On : 21 May 2001 20:46
Sample : WG97810-10 200 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101

Vial: 16
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1702267	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.76	117	1403703	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	757487	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	1904780	101.79	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 407.16%#			
33) 1,2-Dichloroethane-d4	10.80	65	1510600	96.84	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 387.36%#			
45) Toluene-d8	13.55	98	7771621	95.47	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 381.88%#			
66) p-Bromofluorobenzene	17.52	95	2864788	97.23	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 388.92%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.20	85	5145645	170.27	ug/L	95
3) Chloromethane	3.64	50	4644324	192.45	ug/L	99
4) Vinyl Chloride	3.87	62	2700024	201.21	ug/L	99
5) Bromomethane	4.77	94	1860597	177.93	ug/L	100
6) Chloroethane	4.94	64	2040037	0.91	ug/L	100
7) Trichlorofluoromethane	5.44	101	7109749	207.13	ug/L	100
8) Isoprene	6.03	67	6587330	228.32	ug/L	97
9) Acrolein	6.23	56	223256	408.13	ug/L	94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	4030573	206.43	ug/L	99
11) Acetone	6.34	43	353888	213.83	ug/L	92
12) 1,1-Dichloroethene	6.58	96	3322033	212.60	ug/L	92
13) Dimethyl Sulfide	6.85	62	3758552	248.89	ug/L #	1
14) Iodomethane	7.11	142	2988316	201.11	ug/L	94
15) Methylene Chloride	7.41	84	2993731	175.72	ug/L	89
16) Carbon Disulfide	7.45	76	12854472	218.79	ug/L	99
17) Acrylonitrile	7.60	53	547726	200.14	ug/L	99
18) Methyl Tert Butyl Ether	7.67	73	5027680	221.41	ug/L	94
19) trans-1,2-Dichloroethene	7.91	96	3922138	214.14	ug/L	93
20) n-Hexane	8.03	57	6754218	209.86	ug/L	97
21) Vinyl Acetate	8.56	43	3299375	199.12	ug/L	100
22) 1,1-Dichloroethane	8.58	63	7205198	206.64	ug/L	99
23) 2-Butanone	9.21	43	488331	219.82	ug/L	97
24) 2,2-Dichloropropane	9.45	77	6771964	224.34	ug/L	100
25) cis-1,2-Dichloroethene	9.52	96	3850480	215.41	ug/L	90
26) Chloroform	9.75	83	6330820	193.55	ug/L	98
27) Bromochloromethane	10.00	128	1522208	218.22	ug/L	98

(#) = qualifier out of range (m) = manual integration
6M25839.D 8260WTR.M Thu May 24 15:01:12 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29)	1,1,1-Trichloroethane	10.36	97	6484040	195.70 ug/L		92
30)	Cyclohexane	10.41	56	7745455	216.52 ug/L		96
31)	1,1-Dichloropropene	10.59	75	5724495	196.18 ug/L		97
32)	Carbon Tetrachloride	10.75	117	6298076	213.86 ug/L		100
34)	1,2-Dichloroethane	10.93	62	3817677	203.58 ug/L	#	77
35)	Benzene	10.98	78	13881175	200.58 ug/L		96
36)	Trichloroethene	11.85	130	4587478	191.37 ug/L		100
37)	1,2-Dichloropropane	12.09	63	3546734	196.95 ug/L		95
38)	Bromodichloromethane	12.43	83	4232501	207.85 ug/L		99
39)	Dibromomethane	12.51	93	1318484	210.77 ug/L		96
40)	2-Chloroethyl Vinyl Ether	12.79	63	1070182	199.73 ug/L		98
41)	4-Methyl-2-Pentanone	12.83	58	535411	206.88 ug/L		94
42)	cis-1,3-Dichloropropene	13.17	75	4771795	220.96 ug/L		98
43)	Dimethyl Disulfide	13.46	79	2636047	199.83 ug/L		95
46)	Toluene	13.67	91	15657407	178.63 ug/L		97
47)	Ethyl Methacrylate	13.80	69	2277607	216.56 ug/L		100
48)	trans-1,3-Dichloropropene	13.87	75	3804057	222.88 ug/L		98
49)	1,1,2-Trichloroethane	14.12	97	1789203	199.69 ug/L		99
50)	2-Hexanone	14.07	43	894185	209.56 ug/L		97
51)	1,3-Dichloropropane	14.47	76	3329660	204.53 ug/L		96
52)	Tetrachloroethene	14.62	164	3562611	188.14 ug/L		98
53)	Dibromochloromethane	14.91	129	2882149	227.15 ug/L		100
54)	1,2-Dibromoethane	15.21	107	1960207	215.34 ug/L		100
55)	1-Chlorohexane	15.36	91	6066429	206.72 ug/L		96
56)	Chlorobenzene	15.81	112	10742099	163.67 ug/L		97
57)	1,1,1,2-Tetrachloroethane	15.85	131	3250884	178.63 ug/L		97
58)	Ethylbenzene	15.86	106	6512099	170.99 ug/L		82
59)	m-,p-Xylene	15.97	106	14160805	302.24 ug/L		83
60)	o-Xylene	16.62	106	7891967	192.35 ug/L		88
61)	Styrene	16.66	104	12099896	177.55 ug/L		98
62)	Bromoform	17.21	173	1458100	199.63 ug/L		100
63)	Isopropylbenzene	17.13	105	19006283	160.25 ug/L		94
65)	1,1,2,2-Tetrachloroethane	17.37	83	1933224	209.62 ug/L		99
67)	1,2,3-Trichloropropane	17.60	110	636296	212.18 ug/L		95
68)	trans-1,4-Dichloro-2-Buten	17.66	53	669717	201.56 ug/L		92
69)	n-Propylbenzene	17.73	91	20277716m	155.17 ug/L		
70)	Bromobenzene	17.85	156	4477125	181.62 ug/L		96
71)	1,3,5-Trimethylbenzene	17.96	105	16569412	185.39 ug/L		94
72)	2-Chlorotoluene	18.03	91	13925915	171.45 ug/L		94
73)	4-Chlorotoluene	18.10	91	13168697	162.11 ug/L		93
74)	a-Methylstyrene	18.42	118	9289431	202.83 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

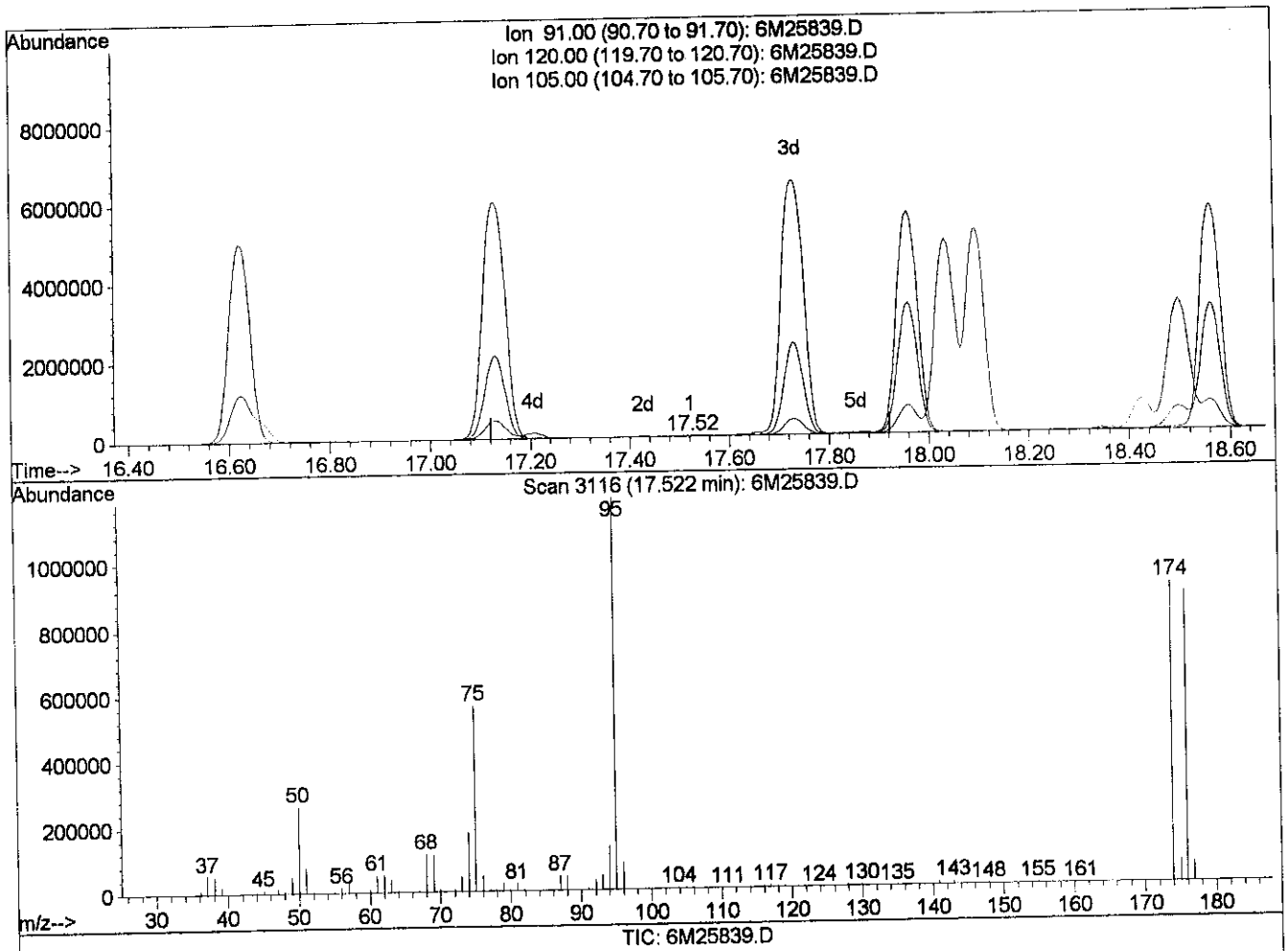
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) tert-Butylbenzene	18.50	119	15527544	165.04 ug/L	97
76) 1,2,4-Trimethylbenzene	18.56	105	16318669	170.88 ug/L	94
77) sec-Butylbenzene	18.82	105	19840457	158.43 ug/L	95
78) p-Isopropyltoluene	19.01	119	18011306	158.70 ug/L	95
79) 1,3-Dichlorobenzene	19.21	146	9105411	172.11 ug/L	96
80) 1,4-Dichlorobenzene	19.37	146	8807110	163.08 ug/L	96
81) n-Butylbenzene	19.63	91	15595873	162.90 ug/L	92
82) 1,2-Dichlorobenzene	19.94	146	7487229	174.78 ug/L	97
83) 1,2-Dibromo-3-Chloropropan	21.11	157	373225	199.74 ug/L	98
84) 1,2,4-Trichlorobenzene	22.47	180	4616497	184.40 ug/L	96
85) Hexachlorobutadiene	22.67	225	2463304	185.68 ug/L #	25
86) Naphthalene	22.89	128	6048088	228.51 ug/L #	89
87) 1,2,3-Trichlorobenzene	23.26	180	3470306	184.02 ug/L	96

(#) = qualifier out of range (m) = manual integration
6M25839.D 8260WTR.M Thu May 24 15:01:17 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D
Acq On : 21 May 2001 20:46
Sample : WG97810-10 200 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 16
Operator: CMS
Inst : HPMS6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:34:10 2001
Response via : Multiple Level Calibration



TIC: 6M25839.D

(69) n-Propylbenzene (T)

17.52min 0.08ug/L

response 10106

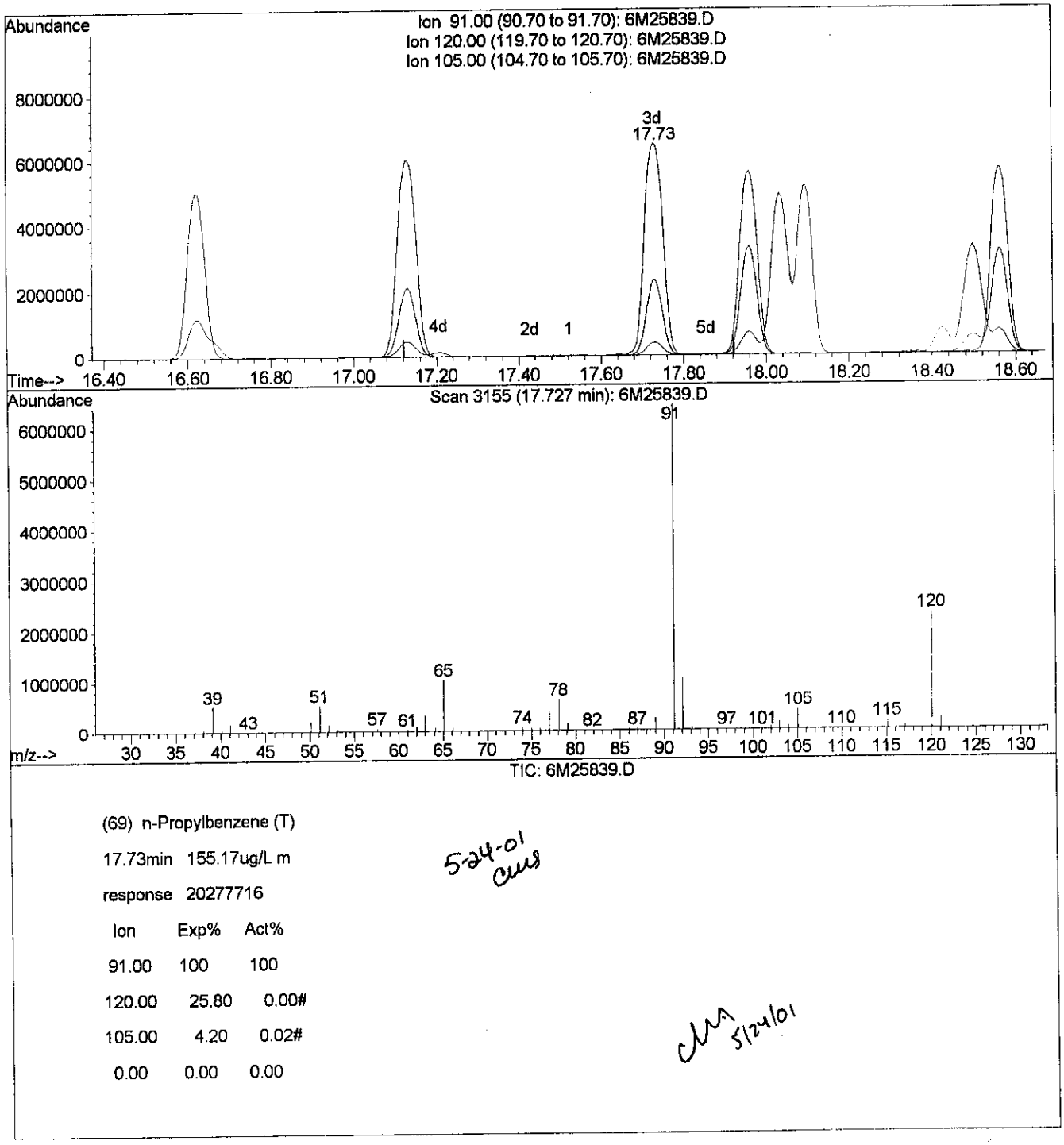
Ion	Exp%	Act%
91.00	100	100
120.00	25.80	0.00#
105.00	4.20	41.85#
0.00	0.00	0.00

6M25839.D 8260WTR.M Thu May 24 14:37:32 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D
Acq On : 21 May 2001 20:46
Sample : WG97810-10 200 PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint2p

Vial: 16
Operator: CMS
Inst : HPMS6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:34:10 2001
Response via : Multiple Level Calibration



(69) n-Propylbenzene (T)

17.73min 155.17ug/L m

response 20277716

Ion	Exp%	Act%
91.00	100	100
120.00	25.80	0.00#
105.00	4.20	0.02#
0.00	0.00	0.00

5-24-01 CMS

CMS 5/24/01

6M25839.D 8260WTR.M Thu May 24 14:37:40 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D
Acq On : 21 May 2001 23:58
Sample : WG97810-11 20PPB ALT SOURCE
Misc : 1,1 SV7925
MS Integration Params: rteint.p

Vial: 20
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	20.000	15.299	23.5#	83	0.00
3	P	Chloromethane	20.000	18.476	7.6	104	0.00
4	C	Vinyl Chloride	20.000	18.727	6.4	84	0.00
5	T	Bromomethane	20.000	17.551	12.2	97	0.00
6	T	Chloroethane	20.000	18.879	5.6	104	0.00
7	T	Trichlorofluoromethane	20.000	19.310	3.5	100	0.00
8	T	Isoprene	20.000	0.000	-100.0#	0	-6.03#
9	T	Acrolein	40.000	0.000	-100.0#	0	-6.23#
10	T	1,1,2-Trichloro-1,2,2-Trifl	20.000	0.000	-100.0#	0	-6.27#
11	T	Acetone	20.000	13.976	-30.1#	76	0.00
12	C	1,1-Dichloroethene	20.000	20.067	-0.3	110	0.00
13	T	Dimethyl Sulfide	20.000	2.849	-85.8#	15	-0.28
14	T	Iodomethane	20.000	26.386	-31.9#	153	0.00
15	T	Methylene Chloride	20.000	18.959	5.2	110	0.00
16	T	Carbon Disulfide	20.000	13.182	-34.1#	74	0.00
17	T	Acrylonitrile	20.000	4.610	-77.0#	14	0.08
18	T	Methyl Tert Butyl Ether	20.000	20.429	-2.1	107	0.00
19	T	trans-1,2-Dichloroethene	20.000	20.465	-2.3	108	0.00
20	T	n-Hexane	20.000	21.585	-7.9	106	0.00
21	T	Vinyl Acetate	20.000	13.803	-31.0#	78	0.00
22	P	1,1-Dichloroethane	20.000	19.739	1.3	105	0.00
23	T	2-Butanone	20.000	17.401	13.0	98	0.00
24	T	2,2-Dichloropropane	20.000	19.883	0.6	105	0.00
25	T	cis-1,2-Dichloroethene	20.000	20.407	-2.0	104	0.00
26	C	Chloroform	20.000	19.598	2.0	106	0.00
27	T	Bromochloromethane	20.000	19.587	2.1	106	0.00
28	S	Dibromofluoromethane	10.000	22.459	-124.6#	244	0.00
29	T	1,1,1-Trichloroethane	20.000	19.808	1.0	105	0.00
30	T	Cyclohexane	20.000	0.056	-99.7#	0	0.02
31	T	1,1-Dichloropropene	20.000	19.321	3.4	100	0.00
32	T	Carbon Tetrachloride	20.000	20.630	-3.1	105	0.00
33	S	1,2-Dichloroethane-d4	10.000	21.556	-115.6#	233	0.00
34	T	1,2-Dichloroethane	20.000	18.683	6.6	99	0.00
35	T	Benzene	20.000	20.968	-4.8	106	0.00
36	T	Trichloroethene	20.000	20.729	-3.6	107	0.00
37	C	1,2-Dichloropropane	20.000	19.129	4.4	101	0.00
38	T	Bromodichloromethane	20.000	20.481	-2.4	104	0.00
39	T	Dibromomethane	20.000	19.697	1.5	100	0.00
40	T	2-Chloroethyl Vinyl Ether	20.000	17.014	14.9	91	0.00
41	T	4-Methyl-2-Pentanone	20.000	16.545	17.3	90	0.00

(#) = Out of Range
6M25843.D 8260WTR.M Thu May 24 15:03:06 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	20.000	21.812	-9.1	106	0.00
43	T	Dimethyl Disulfide	20.000	0.000	100.0#	0	-13.46#
44	I	Chlorobenzene-d5	25.000	25.000	0.0	103	0.00
45	S	Toluene-d8	10.000	24.786	-147.9#	254	0.00
46	C	Toluene	20.000	21.991	-10.0	106	0.00
47	T	Ethyl Methacrylate	20.000	0.394	98.0#	2	-0.25
48	T	trans-1,3-Dichloropropene	20.000	21.282	-6.4	103	0.00
49	T	1,1,2-Trichloroethane	20.000	20.029	-0.1	103	0.00
50	T	2-Hexanone	20.000	15.323	23.4#	80	0.00
51	T	1,3-Dichloropropane	20.000	19.886	0.6	101	0.00
52	T	Tetrachloroethene	20.000	21.470	-7.3	107	0.00
53	T	Dibromochloromethane	20.000	20.285	-1.4	100	0.00
54	T	1,2-Dibromoethane	20.000	20.585	-2.9	103	0.00
55	T	1-Chlorohexane	20.000	22.247	-11.2	107	0.00
56	P	Chlorobenzene	20.000	19.865	0.7	105	0.00
57	T	1,1,1,2-Tetrachloroethane	20.000	21.472	-7.4	103	0.00
58	C	Ethylbenzene	20.000	20.689	-3.4	104	0.00
59	T	m-,p-Xylene	40.000	42.123	-5.3	104	0.00
60	T	o-Xylene	20.000	21.771	-8.9	105	0.00
61	T	Styrene	20.000	21.515	-7.6	103	0.00
62	P	Bromoform	20.000	17.462	12.7	97	0.00
63	T	Isopropylbenzene	20.000	20.443	-2.2	100	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	102	0.00
65	P	1,1,2,2-Tetrachloroethane	20.000	19.258	3.7	99	0.00
66	S	p-Bromofluorobenzene	10.000	25.137	-151.4#	255	0.00
67	T	1,2,3-Trichloropropane	20.000	19.878	0.6	102	0.00
68	T	trans-1,4-Dichloro-2-Butene	20.000	8.288	58.6#	31	0.06
69	T	n-Propylbenzene	20.000	22.318	-11.6	106	0.00
70	T	Bromobenzene	20.000	20.422	-2.1	102	0.00
71	T	1,3,5-Trimethylbenzene	20.000	22.738	-13.7	106	0.00
72	T	2-Chlorotoluene	20.000	21.687	-8.4	106	0.00
73	T	4-Chlorotoluene	20.000	20.701	-3.5	100	0.00
74	T	a-Methylstyrene	20.000	0.027	99.9#	0	0.00
75	T	tert-Butylbenzene	20.000	20.979	-4.9	104	0.00
76	T	1,2,4-Trimethylbenzene	20.000	21.490	-7.4	106	0.00
77	T	sec-Butylbenzene	20.000	21.392	-7.0	103	0.00
78	T	p-Isopropyltoluene	20.000	21.130	-5.6	101	0.00
79	T	1,3-Dichlorobenzene	20.000	20.548	-2.7	103	0.00
80	T	1,4-Dichlorobenzene	20.000	19.636	1.8	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D
Acq On : 21 May 2001 23:58
Sample : WG97810-11 20PPB ALT SOURCE
Misc : 1,1 SV7925
MS Integration Params: rteint.p

Vial: 20
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	20.000	21.591	-8.0	106	0.00
82	T	1,2-Dichlorobenzene	20.000	20.094	-0.5	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	20.000	18.615	6.9	100	0.00
84	T	1,2,4-Trichlorobenzene	20.000	21.037	-5.2	103	0.00
85	T	Hexachlorobutadiene	20.000	21.528	-7.6	108	0.00
86	T	Naphthalene	20.000	21.917	-9.6	100	0.00
87	T	1,2,3-Trichlorobenzene	20.000	20.537	-2.7	101	0.00

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.444	0.340	23.4#	83	0.00
3	P	Chloromethane	0.378	0.349	7.7	104	0.00
4	C	Vinyl Chloride	0.295	0.240	18.6	84	0.00
5	T	Bromomethane	0.154	0.135	12.3	97	0.00
6	T	Chloroethane	0.180	0.169	6.1	104	0.00
7	T	Trichlorofluoromethane	0.502	0.484	3.6	100	0.00
8	T	Isoprene	0.422	0.000	100.0#	0#	-6.03#
9	T	Acrolein	0.006	0.000	100.0#	0#	-6.23#
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.287	0.000	100.0#	0#	-6.27#
11	T	Acetone	0.024	0.017	29.2#	76	0.00
12	C	1,1-Dichloroethene	0.229	0.230	-0.4	110	0.00
13	T	Dimethyl Sulfide	0.233	0.033	85.8#	15#	-0.28
14	T	Iodomethane	0.180	0.258	-43.3#	153	0.00
15	T	Methylene Chloride	0.248	0.235	5.2	110	0.00
16	T	Carbon Disulfide	0.962	0.634	34.1#	74	0.00
17	T	Acrylonitrile	0.034	0.004	88.2#	14#	0.08
18	T	Methyl Tert Butyl Ether	0.333	0.341	-2.4	107	0.00
19	T	trans-1,2-Dichloroethene	0.268	0.274	-2.2	108	0.00
20	T	n-Hexane	0.470	0.508	-8.1	106	0.00
21	T	Vinyl Acetate	0.207	0.155	25.1#	78	0.00
22	P	1,1-Dichloroethane	0.509	0.502	1.4	105	0.00
23	T	2-Butanone	0.033	0.028	15.2	98	0.00
24	T	2,2-Dichloropropane	0.443	0.441	0.5	105	0.00
25	T	cis-1,2-Dichloroethene	0.261	0.266	-1.9	104	0.00
26	C	Chloroform	0.477	0.468	1.9	106	0.00
27	T	Bromochloromethane	0.102	0.100	2.0	106	0.00
28	S	Dibromofluoromethane	0.275	0.617	-124.4#	244#	0.00
29	T	1,1,1-Trichloroethane	0.487	0.482	1.0	105	0.00
30	T	Cyclohexane	0.523	0.001	99.8#	0#	0.02
31	T	1,1-Dichloropropene	0.429	0.414	3.5	100	0.00
32	T	Carbon Tetrachloride	0.433	0.446	-3.0	105	0.00
33	S	1,2-Dichloroethane-d4	0.229	0.494	-115.7#	233#	0.00
34	T	1,2-Dichloroethane	0.289	0.270	6.6	99	0.00
35	T	Benzene	1.105	1.159	-4.9	106	0.00
36	T	Trichloroethene	0.350	0.363	-3.7	107	0.00
37	C	1,2-Dichloropropane	0.263	0.251	4.6	101	0.00
38	T	Bromodichloromethane	0.297	0.305	-2.7	104	0.00
39	T	Dibromomethane	0.091	0.090	1.1	100	0.00
40	T	2-Chloroethyl Vinyl Ether	0.069	0.061	11.6	91	0.00
41	T	4-Methyl-2-Pentanone	0.038	0.031	18.4	90	0.00

(#) = Out of Range
6M25843.D 8260WTR.M Thu May 24 15:02:41 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052101\6M25843.D
Acq On : 21 May 2001 23:58
Sample : WG97810-11 20PPB ALT SOURCE
Misc : 1,1 SV7925
MS Integration Params: rteint.p

Vial: 20
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.316	0.344	-8.9	106	0.00
43	T	Dimethyl Disulfide	0.150	0.000	-100.0#	0#	-13.46#
44	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
45	S	Toluene-d8	1.450	3.594	-147.9#	254#	0.00
46	C	Toluene	1.551	1.706	-10.0	106	0.00
47	T	Ethyl Methacrylate	0.187	0.004	97.9#	2#	-0.25
48	T	trans-1,3-Dichloropropene	0.303	0.323	-6.6	103	0.00
49	T	1,1,2-Trichloroethane	0.158	0.159	-0.6	103	0.00
50	T	2-Hexanone	0.076	0.058	23.7#	80	0.00
51	T	1,3-Dichloropropane	0.288	0.286	0.7	101	0.00
52	T	Tetrachloroethene	0.335	0.360	-7.5	107	0.00
53	T	Dibromochloromethane	0.226	0.229	-1.3	100	0.00
54	T	1,2-Dibromoethane	0.161	0.166	-3.1	103	0.00
55	T	1-Chlorohexane	0.523	0.581	-11.1	107	0.00
56	P	Chlorobenzene	1.159	1.152	0.6	105	0.00
57	T	1,1,1,2-Tetrachloroethane	0.322	0.346	-7.5	103	0.00
58	C	Ethylbenzene	0.674	0.697	-3.4	104	0.00
59	T	m-,p-Xylene	0.829	0.873	-5.3	104	0.00
60	T	o-Xylene	0.753	0.820	-8.9	105	0.00
61	T	Styrene	1.207	1.298	-7.5	103	0.00
62	P	Bromoform	0.107	0.105	1.9	97	0.00
63	T	Isopropylbenzene	2.112	2.159	-2.2	100	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
65	P	1,1,2,2-Tetrachloroethane	0.304	0.293#	3.6	99	0.00
66	S	p-Bromofluorobenzene	0.972	2.444	-151.4#	255#	0.00
67	T	1,2,3-Trichloropropane	0.099	0.098	1.0	102	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.088	0.027	69.3#	31#	0.06
69	T	n-Propylbenzene	4.313	4.813	-11.6	106	0.00
70	T	Bromobenzene	0.816	0.833	-2.1	102	0.00
71	T	1,3,5-Trimethylbenzene	3.186	3.622	-13.7	106	0.00
72	T	2-Chlorotoluene	2.687	2.913	-8.4	106	0.00
73	T	4-Chlorotoluene	2.687	2.781	-3.5	100	0.00
74	T	a-Methylstyrene	1.515	0.002	99.9#	0#	0.00
75	T	tert-Butylbenzene	3.105	3.257	-4.9	104	0.00
76	T	1,2,4-Trimethylbenzene	3.441	3.697	-7.4	106	0.00
77	T	sec-Butylbenzene	4.133	4.421	-7.0	103	0.00
78	T	p-Isopropyltoluene	3.746	3.957	-5.6	101	0.00
79	T	1,3-Dichlorobenzene	1.750	1.798	-2.7	103	0.00
80	T	1,4-Dichlorobenzene	1.787	1.755	1.8	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D
Acq On : 21 May 2001 23:58
Sample : WG97810-11 20PPB ALT SOURCE
Misc : 1,1 SV7925
MS Integration Params: rteint.p

Vial: 20
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

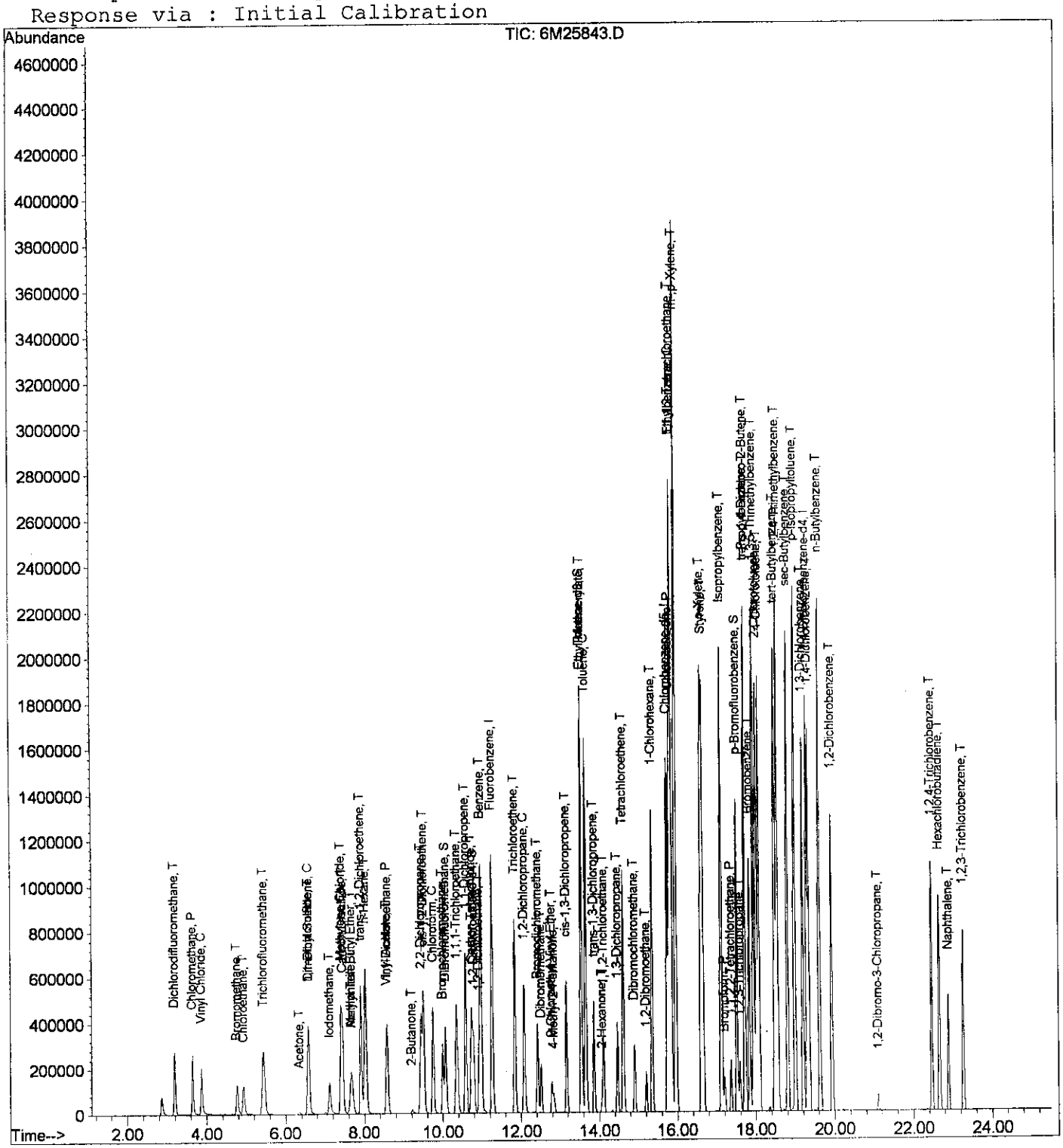
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.160	3.411	-7.9	106	0.00
82	T	1,2-Dichlorobenzene	1.417	1.424	-0.5	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.053	0.052	1.9	100	0.00
84	T	1,2,4-Trichlorobenzene	0.828	0.871	-5.2	103	0.00
85	T	Hexachlorobutadiene	0.439	0.472	-7.5	108	0.00
86	T	Naphthalene	0.947	1.038	-9.6	100	0.00
87	T	1,2,3-Trichlorobenzene	0.624	0.641	-2.7	101	0.00

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



6M25843.D 8260WTR.M Thu May 24 15:02:15 2001 Page 4

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1560592	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1312238	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	707058	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	385281	22.46	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 89.84%				
33) 1,2-Dichloroethane-d4	10.79	65	308282	21.56	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 86.24%				
45) Toluene-d8	13.55	98	1886281	24.79	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.16%				
66) p-Bromofluorobenzene	17.52	95	691329	25.14	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	423881	15.30	ug/L		96
3) Chloromethane	3.64	50	435710	18.48	ug/L		100
4) Vinyl Chloride	3.87	62	299445	18.73	ug/L		100
5) Bromomethane	4.77	94	168251	17.55	ug/L		100
6) Chloroethane	4.94	64	211590	18.88	ug/L		100
7) Trichlorofluoromethane	5.44	101	604550	19.31	ug/L		99
11) Acetone	6.34	43	21205	13.98	ug/L		98
12) 1,1-Dichloroethene	6.58	96	287457	20.07	ug/L		89
13) Dimethyl Sulfide	6.58	62	41396	2.85	ug/L	#	1
14) Iodomethane	7.11	142	322513	26.39	ug/L		93
15) Methylene Chloride	7.40	84	293833	18.96	ug/L		85
16) Carbon Disulfide	7.45	76	791955	13.18	ug/L		99
17) Acrylonitrile	7.67	53	5274	4.61	ug/L	#	12
18) Methyl Tert Butyl Ether	7.67	73	425273	20.43	ug/L		96
19) trans-1,2-Dichloroethene	7.91	96	341898	20.47	ug/L		91
20) n-Hexane	8.03	57	633739	21.58	ug/L		99
21) Vinyl Acetate	8.56	43	193204	13.80	ug/L		98
22) 1,1-Dichloroethane	8.59	63	627311	19.74	ug/L		97
23) 2-Butanone	9.21	43	35440	17.40	ug/L		93
24) 2,2-Dichloropropane	9.45	77	550250	19.88	ug/L		100
25) cis-1,2-Dichloroethene	9.51	96	332605	20.41	ug/L		91
26) Chloroform	9.75	83	583841	19.60	ug/L		99
27) Bromochloromethane	10.00	128	125264	19.59	ug/L		97
29) 1,1,1-Trichloroethane	10.36	97	601667	19.81	ug/L		93
31) 1,1-Dichloropropene	10.58	75	516848	19.32	ug/L		96
32) Carbon Tetrachloride	10.74	117	556968	20.63	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M25843.D 8260WTR.M Thu May 24 15:02:02 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	1,2-Dichloroethane	10.93	62	336870	18.68	ug/L	#	74
35)	Benzene	10.98	78	1446786	20.97	ug/L		97
36)	Trichloroethene	11.85	130	453163	20.73	ug/L		100
37)	1,2-Dichloropropane	12.08	63	313794	19.13	ug/L		97
38)	Bromodichloromethane	12.42	83	380263	20.48	ug/L		99
39)	Dibromomethane	12.51	93	112435	19.70	ug/L		95
40)	2-Chloroethyl Vinyl Ether	12.79	63	76735	17.01	ug/L		98
41)	4-Methyl-2-Pentanone	12.84	58	39255	16.55	ug/L		92
42)	cis-1,3-Dichloropropene	13.17	75	429672	21.81	ug/L		98
46)	Toluene	13.66	91	1790841	21.99	ug/L		97
47)	Ethyl Methacrylate	13.56	69	3873	0.39	ug/L	#	1
48)	trans-1,3-Dichloropropene	13.87	75	339031	21.28	ug/L		99
49)	1,1,2-Trichloroethane	14.12	97	166499	20.03	ug/L		100
50)	2-Hexanone	14.07	43	61122	15.32	ug/L		99
51)	1,3-Dichloropropane	14.47	76	300320	19.89	ug/L		94
52)	Tetrachloroethene	14.62	164	377984	21.47	ug/L		97
53)	Dibromochloromethane	14.90	129	240616	20.28	ug/L		99
54)	1,2-Dibromoethane	15.20	107	174023	20.58	ug/L		100
55)	1-Chlorohexane	15.36	91	610345	22.25	ug/L		93
56)	Chlorobenzene	15.80	112	1208928	19.87	ug/L		96
57)	1,1,1,2-Tetrachloroethane	15.85	131	362934	21.47	ug/L		96
58)	Ethylbenzene	15.85	106	732041	20.69	ug/L		97
59)	m-,p-Xylene	15.96	106	1832945	42.12	ug/L		94
60)	o-Xylene	16.62	106	860713	21.77	ug/L		99
61)	Styrene	16.66	104	1362626	21.52	ug/L		96
62)	Bromoform	17.21	173	110141	17.46	ug/L		100
63)	Isopropylbenzene	17.13	105	2266602	20.44	ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.37	83	165783	19.26	ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	55644	19.88	ug/L	#	92
68)	trans-1,4-Dichloro-2-Buten	17.72	53	15415	8.29	ug/L	#	1
69)	n-Propylbenzene	17.72	91	2722342	22.32	ug/L		99
70)	Bromobenzene	17.84	156	471081	20.42	ug/L		97
71)	1,3,5-Trimethylbenzene	17.96	105	2048730	22.74	ug/L		99
72)	2-Chlorotoluene	18.03	91	1647910	21.69	ug/L		98
73)	4-Chlorotoluene	18.09	91	1573324	20.70	ug/L		99
75)	tert-Butylbenzene	18.49	119	1842382	20.98	ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	2091267	21.49	ug/L		98
77)	sec-Butylbenzene	18.81	105	2500561	21.39	ug/L		98
78)	p-Isopropyltoluene	19.00	119	2238403	21.13	ug/L		97
79)	1,3-Dichlorobenzene	19.20	146	1017259	20.55	ug/L		99
80)	1,4-Dichlorobenzene	19.36	146	992537	19.64	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25843.D 8260WTR.M Thu May 24 15:02:05 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
81)	n-Butylbenzene	19.63	91	1929440	21.59 ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	805565	20.09 ug/L		99
83)	1,2-Dibromo-3-Chloropropan	21.11	157	29640	18.61 ug/L		99
84)	1,2,4-Trichlorobenzene	22.47	180	492792	21.04 ug/L		96
85)	Hexachlorobutadiene	22.66	225	267136	21.53 ug/L	#	25
86)	Naphthalene	22.89	128	587311	21.92 ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	362403	20.54 ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25843.D 8260WTR.M Thu May 24 15:02:06 2001 Page 3

Ical Date:	5/11/01	Ical Filename:	9M15561.D	Instrument:	HPMS_9
CCV Date:	5/18/01	CCV Filename:	9M15687.D		

	Fluorbenzene		**Chlorobenzene-d5**		**1,4-Dichlorobenzene-d4**	
	Ret. Time	Response	Ret. Time	Response	Ret. Time	Response
Ical	9.92	1144542	13.78	788685	16.77	476161
CCV	9.91	1032554	13.77	754449	16.77	461543
	Pass	Pass	Pass	Pass	Pass	Pass

Data File : D:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	0.614	0.565	8.0	86	-0.02
3	P	Chloromethane	0.320	0.305 ✓	4.7	97	-0.03
4	C	Vinyl Chloride	0.255	0.255	✓ 0.0	100	0.00
5	T	Bromomethane	0.145	0.147	-1.4	94	-0.01
6	T	Chloroethane	0.140	0.148	-5.7	100	0.00
7	T	Trichlorofluoromethane	0.766	0.741	3.3	95	-0.01
8	T	Isoprene	0.368	0.280	23.9	65	0.00
9	T	Acrolein	0.025	0.018	28.0#	61	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.339	0.171	49.6#	47#	-0.02
11	T	Acetone	0.080	0.072	10.0	91	0.02
12	C	1,1-Dichloroethene	0.261	0.270	✓-3.4	89	0.00
13	T	Dimethyl Sulfide	0.196	0.191	2.6	81	0.00
14	T	Iodomethane	0.169	0.156	7.7	81	0.00
15	T	Methylene Chloride	0.276	0.265	4.0	94	0.00
16	T	Carbon Disulfide	0.944	0.886	6.1	85	0.00
17	T	Acrylonitrile	0.058	0.059	-1.7	92	0.02
18	T	Methyl Tert Butyl Ether	0.560	0.513	8.4	77	0.03
19	T	trans-1,2-Dichloroethene	0.297	0.313	-5.4	91	0.00
20	T	n-Hexane	0.442	0.439	0.7	83	0.00
21	T	Vinyl Acetate	0.292	0.277	5.1	72	0.01
22	P	1,1-Dichloroethane	0.574	0.613 ✓	-6.8	96	0.00
23	T	2-Butanone	0.074	0.068	8.1	76	0.02
24	T	2,2-Dichloropropane	0.550	0.593	-7.8	94	0.00
25	T	cis-1,2-Dichloroethene	0.281	0.315	-12.1	93	0.00
26	C	Chloroform	0.599	0.620	✓-3.5	96	0.00
27	T	Bromochloromethane	0.116	0.117	-0.9	90	0.00
28	S	Dibromofluoromethane	0.310	0.302	2.6	94	0.00
29	T	1,1,1-Trichloroethane	0.629	0.653	-3.8	94	0.00
30	T	Cyclohexane	0.486	0.485	0.2	84	0.00
31	T	1,1-Dichloropropene	0.422	0.483	-14.5	92	0.00
32	T	Carbon Tetrachloride	0.542	0.581	-7.2	97	0.00
33	S	1,2-Dichloroethane-d4	0.376	0.388	-3.2	98	0.01
34	T	1,2-Dichloroethane	0.456	0.477	-4.6	97	0.00
35	T	Benzene	1.074	1.190	-10.8	94	0.01
36	T	Trichloroethene	0.278	0.297	-6.8	91	0.00
37	C	1,2-Dichloropropane	0.255	0.280	✓-9.8	95	0.00
38	T	Bromodichloromethane	0.407	0.434	-6.6	95	0.00
39	T	Dibromomethane	0.151	0.149	1.3	92	0.01
40	T	2-Chloroethyl Vinyl Ether	0.063	0.079	-25.4#	94	0.00
41	T	4-Methyl-2-Pentanone	0.063	0.065	-3.2	83	0.00

(#) = Out of Range
9M15687.D 8260SOIL.M Fri May 18 10:04:25 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.374	0.431	-15.2	93	0.00
43	T	Dimethyl Disulfide	0.194	0.198	-2.1	79	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
45	S	Toluene-d8	1.509	1.584	-5.0	98	0.00
46	C	Toluene	1.609	1.815	✓-12.8	97	0.00
47	T	Ethyl Methacrylate	0.324	0.299	7.7	82	0.00
48	T	trans-1,3-Dichloropropene	0.526	0.614	-16.7	99	0.00
49	T	1,1,2-Trichloroethane	0.282	0.300	-6.4	96	0.00
50	T	2-Hexanone	0.181	0.169	6.6	85	0.00
51	T	1,3-Dichloropropane	0.479	0.514	-7.3	96	0.00
52	T	Tetrachloroethene	0.345	0.357	-3.5	93	0.00
53	T	Dibromochloromethane	0.357	0.377	-5.6	95	0.00
54	T	1,2-Dibromoethane	0.256	0.256	0.0	91	0.00
55	T	1-Chlorohexane	0.520	0.536	-3.1	84	0.00
56	P	Chlorobenzene	1.113	1.131 ✓	-1.6	97	0.00
57	T	1,1,1,2-Tetrachloroethane	0.398	0.430	-8.0	100	0.00
58	C	Ethylbenzene	0.606	0.666	✓-9.9	97	0.00
59	T	m-,p-Xylene	0.748	0.832	-11.2	98	0.00
60	T	o-Xylene	0.692	0.755	-9.1	96	0.00
61	T	Styrene	1.117	1.260	-12.8	98	0.00
62	P	Bromoform	0.233	0.258 ✓	-10.7	100	0.00
63	T	Isopropylbenzene	1.978	2.191	-10.8	98	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
65	P	1,1,2,2-Tetrachloroethane	0.580	0.594 ✓	-2.4	99	0.00
66	S	p-Bromofluorobenzene	1.035	1.040	-0.5	99	0.00
67	T	1,2,3-Trichloropropane	0.182	0.187	-2.7	97	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.171	0.157	8.2	84	0.00
69	T	n-Propylbenzene	4.291	4.750	-10.7	99	0.00
70	T	Bromobenzene	0.744	0.789	-6.0	98	0.00
71	T	1,3,5-Trimethylbenzene	2.686	3.017	-12.3	99	0.00
72	T	2-Chlorotoluene	2.661	2.953	-11.0	98	0.00
73	T	4-Chlorotoluene	2.574	2.914	-13.2	104	0.00
74	T	a-Methylstyrene	1.264	1.165	7.8	78	0.00
75	T	tert-Butylbenzene	2.854	3.092	-8.3	94	0.00
76	T	1,2,4-Trimethylbenzene	2.931	3.162	-7.9	100	0.00
77	T	sec-Butylbenzene	3.659	4.007	-9.5	97	0.00
78	T	p-Isopropyltoluene	3.182	3.437	-8.0	98	0.00
79	T	1,3-Dichlorobenzene	1.436	1.522	-6.0	98	0.00
80	T	1,4-Dichlorobenzene	1.517	1.547	-2.0	98	0.00

(#) = Out of Range
9M15687.D 8260SOIL.M Fri May 18 10:04:29 2001 HPMS_9 Page 2

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Data File : D:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.017	3.505	-16.2	99	0.00
82	T	1,2-Dichlorobenzene	1.267	1.354	-6.9	97	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.111	0.108	2.7	85	0.00
84	T	1,2,4-Trichlorobenzene	0.964	0.978	-1.5	88	0.00
85	T	Hexachlorobutadiene	0.730	0.705	3.4	89	0.00
86	T	Naphthalene	1.590	1.551	2.5	81	0.00
87	T	1,2,3-Trichlorobenzene	0.964	0.978	-1.5	88	0.00

Data File : D:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	50.000	46.049	7.9	86	-0.02
3	P	Chloromethane	50.000	56.436	-12.9	97	-0.03
4	C	Vinyl Chloride	50.000	54.437	-8.9	100	0.00
5	T	Bromomethane	50.000	50.499	-1.0	94	-0.01
6	T	Chloroethane	50.000	52.750	-5.5	100	0.00
7	T	Trichlorofluoromethane	50.000	48.349	3.3	95	-0.01
8	T	Isoprene	50.000	37.964	24.1	65	0.00
9	T	Acrolein	100.000	70.788	29.2#	61	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	25.164	49.7#	47	-0.02
11	T	Acetone	50.000	53.530	-7.1	91	0.02
12	C	1,1-Dichloroethene	50.000	51.562	-3.1	89	0.00
13	T	Dimethyl Sulfide	50.000	44.180	11.6	81	0.00
14	T	Iodomethane	50.000	46.283	7.4	81	0.00
15	T	Methylene Chloride	50.000	47.933	4.1	94	0.00
16	T	Carbon Disulfide	50.000	46.953	6.1	85	0.00
17	T	Acrylonitrile	50.000	50.916	-1.8	92	0.02
18	T	Methyl Tert Butyl Ether	50.000	42.035	15.9	77	0.03
19	T	trans-1,2-Dichloroethene	50.000	52.730	-5.5	91	0.00
20	T	n-Hexane	50.000	49.584	0.8	83	0.00
21	T	Vinyl Acetate	50.000	39.250	21.5	72	0.01
22	P	1,1-Dichloroethane	50.000	53.386	-6.8	96	0.00
23	T	2-Butanone	50.000	46.082	7.8	76	0.02
24	T	2,2-Dichloropropane	50.000	53.931	-7.9	94	0.00
25	T	cis-1,2-Dichloroethene	50.000	56.108	-12.2	93	0.00
26	C	Chloroform	50.000	51.733	-3.5	96	0.00
27	T	Bromochloromethane	50.000	50.401	-0.8	90	0.00
28	S	Dibromofluoromethane	50.000	48.757	2.5	94	0.00
29	T	1,1,1-Trichloroethane	50.000	51.854	-3.7	94	0.00
30	T	Cyclohexane	50.000	49.908	0.2	84	0.00
31	T	1,1-Dichloropropene	50.000	57.281	-14.6	92	0.00
32	T	Carbon Tetrachloride	50.000	53.605	-7.2	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.615	-3.2	98	0.01
34	T	1,2-Dichloroethane	50.000	52.240	-4.5	97	0.00
35	T	Benzene	50.000	55.368	-10.7	94	0.01
36	T	Trichloroethene	50.000	53.338	-6.7	91	0.00
37	C	1,2-Dichloropropane	50.000	54.954	-9.9	95	0.00
38	T	Bromodichloromethane	50.000	53.323	-6.6	95	0.00
39	T	Dibromomethane	50.000	49.149	1.7	92	0.01
40	T	2-Chloroethyl Vinyl Ether	50.000	50.657	-1.3	94	0.00
41	T	4-Methyl-2-Pentanone	50.000	44.977	10.0	83	0.00

(#) = Out of Range
9M15687.D 8260SOIL.M Fri May 18 10:04:35 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	50.584	-1.2	93	0.00
43	T	Dimethyl Disulfide	50.000	43.468	13.1	79	0.00
44	I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
45	S	Toluene-d8	50.000	52.478	-5.0	98	0.00
46	C	Toluene	50.000	56.407	-12.8	97	0.00
47	T	Ethyl Methacrylate	50.000	41.804	16.4	82	0.00
48	T	trans-1,3-Dichloropropene	50.000	58.387	-16.8	99	0.00
49	T	1,1,2-Trichloroethane	50.000	53.230	-6.5	96	0.00
50	T	2-Hexanone	50.000	46.463	7.1	85	0.00
51	T	1,3-Dichloropropane	50.000	53.592	-7.2	96	0.00
52	T	Tetrachloroethene	50.000	51.736	-3.5	93	0.00
53	T	Dibromochloromethane	50.000	52.829	-5.7	95	0.00
54	T	1,2-Dibromoethane	50.000	49.942	0.1	91	0.00
55	T	1-Chlorohexane	50.000	43.689	12.6	84	0.00
56	P	Chlorobenzene	50.000	50.788	-1.6	97	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	54.099	-8.2	100	0.00
58	C	Ethylbenzene	50.000	54.951	-9.9	97	0.00
59	T	m-,p-Xylene	100.000	111.284	-11.3	98	0.00
60	T	o-Xylene	50.000	54.581	-9.2	96	0.00
61	T	Styrene	50.000	50.423	-0.8	98	0.00
62	P	Bromoform	50.000	55.442	-10.9	100	0.00
63	T	Isopropylbenzene	50.000	55.393	-10.8	98	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	51.201	-2.4	99	0.00
66	S	p-Bromofluorobenzene	50.000	50.247	-0.5	99	0.00
67	T	1,2,3-Trichloropropane	50.000	51.431	-2.9	97	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	45.822	8.4	84	0.00
69	T	n-Propylbenzene	50.000	55.345	-10.7	99	0.00
70	T	Bromobenzene	50.000	53.018	-6.0	98	0.00
71	T	1,3,5-Trimethylbenzene	50.000	49.683	0.6	99	0.00
72	T	2-Chlorotoluene	50.000	55.494	-11.0	98	0.00
73	T	4-Chlorotoluene	50.000	56.594	-13.2	104	0.00
74	T	a-Methylstyrene	50.000	38.939	22.1	78	0.00
75	T	tert-Butylbenzene	50.000	49.726	0.5	94	0.00
76	T	1,2,4-Trimethylbenzene	50.000	53.928	-7.9	100	0.00
77	T	sec-Butylbenzene	50.000	54.748	-9.5	97	0.00
78	T	p-Isopropyltoluene	50.000	54.014	-8.0	98	0.00
79	T	1,3-Dichlorobenzene	50.000	52.992	-6.0	98	0.00
80	T	1,4-Dichlorobenzene	50.000	51.018	-2.0	98	0.00

(#) = Out of Range
9M15687.D 8260SOIL.M Fri May 18 10:04:36 2001 HPMS_9 Page 2

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Data File : D:\HPCHEM\1\DATA\051801\9M15687.D Vial: 2
Acq On : 18 May 2001 9:40 Operator: MES
Sample : WG97659-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

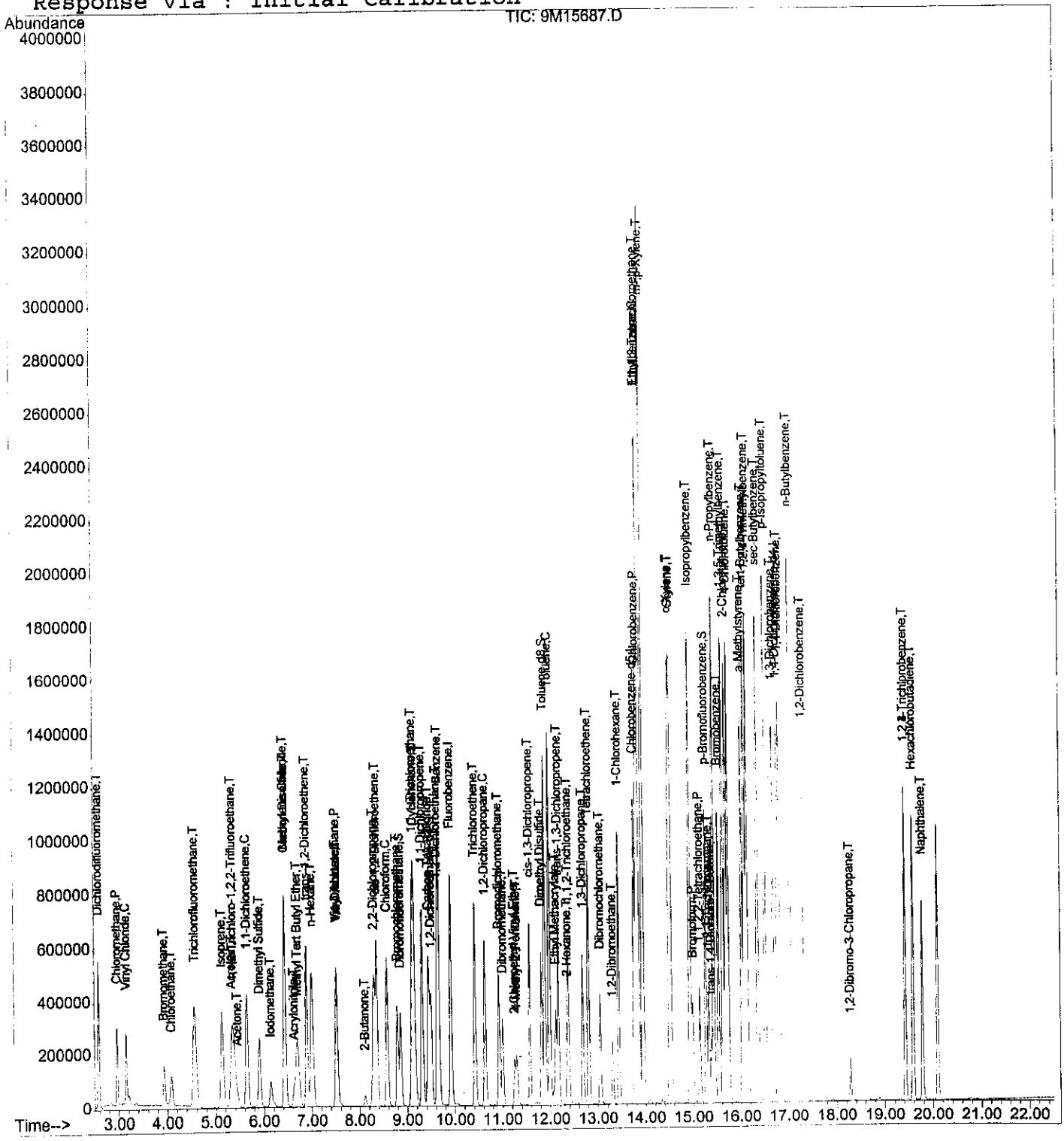
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	58.096	-16.2	99	0.00
82	T	1,2-Dichlorobenzene	50.000	53.445	-6.9	97	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	48.571	2.9	85	0.00
84	T	1,2,4-Trichlorobenzene	50.000	50.738	-1.5	88	0.00
85	T	Hexachlorobutadiene	50.000	48.326	3.3	89	0.00
86	T	Naphthalene	50.000	48.752	2.5	81	0.00
87	T	1,2,3-Trichlorobenzene	50.000	50.738	-1.5	88	0.00

Data File : d:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 18 10:03 2001

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051801\9M15687.D Vial: 2
Acq On : 18 May 2001 9:40 Operator: MES
Sample : WG97659-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 10:03 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.91	96	1032554	50.00	ug/kg	0.00
44) Chlorobenzene-d5	13.77	117	754449	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	461543	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	312325	48.76	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.52%			
33) 1,2-Dichloroethane-d4	9.50	65	400726	51.62	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.24%			
45) Toluene-d8	11.89	98	1195086	52.48	ug/kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery = 104.96%			
66) p-Bromofluorobenzene	15.26	95	479959	50.25	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 100.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	583665	46.05	ug/kg	97
3) Chloromethane	2.96	50	314709	56.44	ug/kg	100
4) Vinyl Chloride	3.15	62	263476	54.44	ug/kg	99
5) Bromomethane	3.93	94	151586	50.50	ug/kg	96
6) Chloroethane	4.09	64	152823	52.75	ug/kg	99
7) Trichlorofluoromethane	4.56	101	765038	48.35	ug/kg	99
8) Isoprene	5.14	67	288893	37.96	ug/kg	97
9) Acrolein	5.33	56	36426	70.79	ug/kg	99
10) 1,1,2-Trichloro-1,2,2-Trif	5.34	101	176263	25.16	ug/kg#	15
11) Acetone	5.45	43	73943	53.53	ug/kg	95
12) 1,1-Dichloroethene	5.65	96	278387	51.56	ug/kg	88
13) Dimethyl Sulfide	5.90	62	197528	44.18	ug/kg	96
14) Iodomethane	6.14	142	161497	46.28	ug/kg	90
15) Methylene Chloride	6.43	84	273330	47.93	ug/kg	91
16) Carbon Disulfide	6.44	76	914888	46.95	ug/kg	99
17) Acrylonitrile	6.62	53	60734	50.92	ug/kg	93
18) Methyl Tert Butyl Ether	6.70	73	529519	42.04	ug/kg	99
19) trans-1,2-Dichloroethene	6.89	96	323387	52.73	ug/kg	89
20) n-Hexane	7.01	57	453028	49.58	ug/kg	99
21) Vinyl Acetate	7.52	43	285736	39.25	ug/kg	97
22) 1,1-Dichloroethane	7.52	63	632865	53.39	ug/kg	100
23) 2-Butanone	8.11	43	70323	46.08	ug/kg	96
24) 2,2-Dichloropropane	8.30	77	612507	53.93	ug/kg	97
25) cis-1,2-Dichloroethene	8.36	96	325384	56.11	ug/kg	89
26) Chloroform	8.57	83	639726	51.73	ug/kg	100
27) Bromochloromethane	8.79	128	121148	50.40	ug/kg	90
29) 1,1,1-Trichloroethane	9.11	97	673754	51.85	ug/kg	94

(#) = qualifier out of range (m) = manual integration
9M15687.D 8260SOIL.M Fri May 18 10:03:38 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 18 10:03 2001

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.14	56	501129	49.91	ug/kg	97
31)	1,1-Dichloropropene	9.31	75	499100	57.28	ug/kg	96
32)	Carbon Tetrachloride	9.45	117	599866	53.61	ug/kg	99
34)	1,2-Dichloroethane	9.62	62	492306	52.24	ug/kg	99
35)	Benzene	9.66	78	1228580	55.37	ug/kg	99
36)	Trichloroethene	10.42	130	306340	53.34	ug/kg	97
37)	1,2-Dichloropropane	10.63	63	289422	54.95	ug/kg	92
38)	Bromodichloromethane	10.93	83	448393	53.32	ug/kg	99
39)	Dibromomethane	11.00	93	153389	49.15	ug/kg	96
40)	2-Chloroethyl Vinyl Ether	11.25	63	81465	50.66	ug/kg	96
41)	4-Methyl-2-Pentanone	11.29	58	67395	44.98	ug/kg	94
42)	cis-1,3-Dichloropropene	11.57	75	445091	50.58	ug/kg	99
43)	Dimethyl Disulfide	11.82	79	204309	43.47	ug/kg	93
46)	Toluene	11.99	91	1369469	56.41	ug/kg	99
47)	Ethyl Methacrylate	12.12	69	225670	41.80	ug/kg	100
48)	trans-1,3-Dichloropropene	12.17	75	463532	58.39	ug/kg	96
49)	1,1,2-Trichloroethane	12.38	97	226432	53.23	ug/kg	97
50)	2-Hexanone	12.35	43	127220	46.46	ug/kg#	83
51)	1,3-Dichloropropane	12.69	76	387569	53.59	ug/kg	92
52)	Tetrachloroethene	12.81	164	269141	51.74	ug/kg	95
53)	Dibromochloromethane	13.05	129	284322	52.83	ug/kg	97
54)	1,2-Dibromoethane	13.31	107	192869	49.94	ug/kg	100
55)	1-Chlorohexane	13.44	91	404711	43.69	ug/kg	87
56)	Chlorobenzene	13.81	112	853208	50.79	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.85	131	324689	54.10	ug/kg	99
58)	Ethylbenzene	13.86	106	502369	54.95	ug/kg	99
59)	m-,p-Xylene	13.95	106	1256143	111.28	ug/kg	96
60)	o-Xylene	14.50	106	569714	54.58	ug/kg	94
61)	Styrene	14.54	104	950374	50.42	ug/kg	92
62)	Bromoform	15.00	173	194918	55.44	ug/kg	98
63)	Isopropylbenzene	14.93	105	1653326	55.39	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	274228	51.20	ug/kg	100
67)	1,2,3-Trichloropropane	15.32	110	86320	51.43	ug/kg	99
68)	trans-1,4-Dichloro-2-Buten	15.38	53	72348	45.82	ug/kg	89
69)	n-Propylbenzene	15.44	91	2192310	55.34	ug/kg	99
70)	Bromobenzene	15.54	156	364144	53.02	ug/kg	92
71)	1,3,5-Trimethylbenzene	15.63	105	1392245	49.68	ug/kg	99
72)	2-Chlorotoluene	15.69	91	1362956	55.49	ug/kg	100
73)	4-Chlorotoluene	15.74	91	1344741	56.59	ug/kg	99
74)	a-Methylstyrene	16.02	118	537907	38.94	ug/kg	94
75)	tert-Butylbenzene	16.08	119	1427147	49.73	ug/kg	94

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051801\9M15687.D
Acq On : 18 May 2001 9:40
Sample : WG97659-02 50PPB STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 18 10:03 2001

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00
Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	1459233	53.93	ug/kg	98
77)	sec-Butylbenzene	16.35	105	1849229	54.75	ug/kg	100
78)	p-Isopropyltoluene	16.51	119	1586452	54.01	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	702619	52.99	ug/kg	97
80)	1,4-Dichlorobenzene	16.81	146	714230	51.02	ug/kg	98
81)	n-Butylbenzene	17.04	91	1617691	58.10	ug/kg	99
82)	1,2-Dichlorobenzene	17.30	146	624831	53.44	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.29	157	49991	48.57	ug/kg	87
84)	1,2,4-Trichlorobenzene	19.43	180	451322	50.74	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	325423	48.33	ug/kg	96
86)	Naphthalene	19.78	128	715725	48.75	ug/kg	100
87)	1,2,3-Trichlorobenzene	19.43	180	451322	50.74	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Ical Date: 5/21/2001 Ical Filename: 6M25837.D Instrument: HPMS 6
CCV Date: 5/22/2001 CCV Filename: 6M25867.D

	Fluorbenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d	
	Ret. Time	Response	Ret. Time	Response	Ret. Time	Response
Ical	11.26	1561179	15.75	1318268	19.31	722228
CCV	11.26	1656560	15.75	1384232	19.32	744361
	Pass	Pass	Pass	Pass	Pass	Pass

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00
2	T	Dichlorodifluoromethane	0.444	0.385	13.3	98	0.00
3	P	Chloromethane	0.378	0.339	10.3	103	0.00
4	C	Vinyl Chloride	0.295	0.209	29.2#	87	0.00
5	T	Bromomethane	0.154	0.126	18.2	91	0.00
6	T	Chloroethane	0.180	0.150	16.7	96	0.00
7	T	Trichlorofluoromethane	0.502	0.482	4.0	102	0.00
8	T	Isoprene	0.422	0.446	-5.7	106	0.00
9	T	Acrolein	0.006	0.007	-16.7	122	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.287	0.276	3.8	105	0.00
11	T	Acetone	0.024	0.030	-25.0#	140	0.00
12	C	1,1-Dichloroethene	0.229	0.227	0.9	107	0.00
13	T	Dimethyl Sulfide	0.233	0.253	-8.6	107	0.00
14	T	Iodomethane	0.180	0.182	-1.1	100	0.00
15	T	Methylene Chloride	0.248	0.228	8.1	106	0.00
16	T	Carbon Disulfide	0.962	0.949	1.4	106	0.00
17	T	Acrylonitrile	0.034	0.040	-17.6	114	0.00
18	T	Methyl Tert Butyl Ether	0.333	0.349	-4.8	108	0.00
19	T	trans-1,2-Dichloroethene	0.268	0.274	-2.2	106	0.00
20	T	n-Hexane	0.470	0.497	-5.7	105	0.00
21	T	Vinyl Acetate	0.207	0.229	-10.6	105	0.00
22	P	1,1-Dichloroethane	0.509	0.505	0.8	104	0.00
23	T	2-Butanone	0.033	0.039	-18.2	125	0.00
24	T	2,2-Dichloropropane	0.443	0.460	-3.8	105	0.00
25	T	cis-1,2-Dichloroethene	0.261	0.271	-3.8	106	0.00
26	C	Chloroform	0.477	0.447	6.3	102	0.00
27	T	Bromochloromethane	0.102	0.102	0.0	108	0.00
28	S	Dibromofluoromethane	0.275	0.257	6.5	103	0.00
29	T	1,1,1-Trichloroethane	0.487	0.463	4.9	100	0.00
30	T	Cyclohexane	0.523	0.550	-5.2	104	0.00
31	T	1,1-Dichloropropene	0.429	0.432	-0.7	105	0.00
32	T	Carbon Tetrachloride	0.433	0.441	-1.8	100	0.00
33	S	1,2-Dichloroethane-d4	0.229	0.203	11.4	98	0.00
34	T	1,2-Dichloroethane	0.289	0.271	6.2	101	0.00
35	T	Benzene	1.105	1.125	-1.8	105	0.00
36	T	Trichloroethene	0.350	0.350	0.0	104	0.00
37	C	1,2-Dichloropropane	0.263	0.262	0.4	105	0.00
38	T	Bromodichloromethane	0.297	0.298	-0.3	101	0.00
39	T	Dibromomethane	0.091	0.092	-1.1	104	0.00
40	T	2-Chloroethyl Vinyl Ether	0.069	0.073	-5.8	104	0.00
41	T	4-Methyl-2-Pentanone	0.038	0.042	-10.5	116	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.316	0.349	-10.4	105	0.00
43	T	Dimethyl Disulfide	0.150	0.174	-16.0	104	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
45	S	Toluene-d8	1.450	1.443	0.5	106	0.00
46	C	Toluene	1.551	1.603	-3.4	103	0.00
47	T	Ethyl Methacrylate	0.187	0.205	-9.6	107	0.00
48	T	trans-1,3-Dichloropropene	0.303	0.336	-10.9	104	0.00
49	T	1,1,2-Trichloroethane	0.158	0.161	-1.9	105	0.00
50	T	2-Hexanone	0.076	0.087	-14.5	114	0.00
51	T	1,3-Dichloropropane	0.288	0.297	-3.1	106	0.00
52	T	Tetrachloroethene	0.335	0.343	-2.4	104	0.00
53	T	Dibromochloromethane	0.226	0.247	-9.3	103	0.00
54	T	1,2-Dibromoethane	0.161	0.172	-6.8	104	0.00
55	T	1-Chlorohexane	0.523	0.551	-5.4	103	0.00
56	P	Chlorobenzene	1.159	1.091	5.9	103	0.00
57	T	1,1,1,2-Tetrachloroethane	0.322	0.336	-4.3	101	0.00
58	C	Ethylbenzene	0.674	0.663	1.6	102	0.00
59	T	m-,p-Xylene	0.829	0.819	1.2	102	0.00
60	T	o-Xylene	0.753	0.775	-2.9	102	0.00
61	T	Styrene	1.207	1.247	-3.3	102	0.00
62	P	Bromoform	0.107	0.121	-13.1	103	0.00
63	T	Isopropylbenzene	2.112	2.105	0.3	101	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
65	P	1,1,2,2-Tetrachloroethane	0.304	0.317	-4.3	108	0.00
66	S	p-Bromofluorobenzene	0.972	0.977	-0.5	105	0.00
67	T	1,2,3-Trichloropropane	0.099	0.102	-3.0	103	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.088	0.099	-12.5	107	0.00
69	T	n-Propylbenzene	4.313	4.391	-1.8	101	0.00
70	T	Bromobenzene	0.816	0.800	2.0	101	0.00
71	T	1,3,5-Trimethylbenzene	3.186	3.331	-4.6	101	0.00
72	T	2-Chlorotoluene	2.687	2.657	1.1	101	0.00
73	T	4-Chlorotoluene	2.687	2.695	-0.3	100	0.00
74	T	a-Methylstyrene	1.515	1.650	-8.9	101	0.00
75	T	tert-Butylbenzene	3.105	3.071	1.1	101	0.00
76	T	1,2,4-Trimethylbenzene	3.441	3.367	2.2	101	0.00
77	T	sec-Butylbenzene	4.133	4.166	-0.8	101	0.00
78	T	p-Isopropyltoluene	3.746	3.820	-2.0	101	0.00
79	T	1,3-Dichlorobenzene	1.750	1.708	2.4	101	0.00
80	T	1,4-Dichlorobenzene	1.787	1.674	6.3	101	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.160	3.120	1.3	101	0.00
82	T	1,2-Dichlorobenzene	1.417	1.364	3.7	101	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.053	0.062	-17.0	111	0.00
84	T	1,2,4-Trichlorobenzene	0.828	0.859	-3.7	103	0.00
85	T	Hexachlorobutadiene	0.439	0.436	0.7	102	0.00
86	T	Naphthalene	0.947	1.092	-15.3	106	0.00
87	T	1,2,3-Trichlorobenzene	0.624	0.642	-2.9	104	0.00

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	106	0.00
2	T	Dichlorodifluoromethane	50.000	43.385	13.2	98	0.00
3	P	Chloromethane	50.000	44.914	10.2	103	0.00
4	C	Vinyl Chloride	50.000	44.098	11.8	87	0.00
5	T	Bromomethane	50.000	40.881	18.2	91	0.00
6	T	Chloroethane	50.000	41.716	16.6	96	0.00
7	T	Trichlorofluoromethane	50.000	48.064	3.9	102	0.00
8	T	Isoprene	50.000	52.932	-5.9	106	0.00
9	T	Acrolein	100.000	97.465	2.5	122	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	48.097	3.8	105	0.00
11	T	Acetone	50.000	62.324	-24.6#	140	0.00
12	C	1,1-Dichloroethene	50.000	49.393	1.2	107	0.00
13	T	Dimethyl Sulfide	50.000	54.312	-8.6	107	0.00
14	T	Iodomethane	50.000	44.181	11.6	100	0.00
15	T	Methylene Chloride	50.000	45.876	8.2	106	0.00
16	T	Carbon Disulfide	50.000	49.316	1.4	106	0.00
17	T	Acrylonitrile	50.000	51.567	-3.1	114	0.00
18	T	Methyl Tert Butyl Ether	50.000	52.379	-4.8	108	0.00
19	T	trans-1,2-Dichloroethene	50.000	51.259	-2.5	106	0.00
20	T	n-Hexane	50.000	52.860	-5.7	105	0.00
21	T	Vinyl Acetate	50.000	47.901	4.2	105	0.00
22	P	1,1-Dichloroethane	50.000	49.587	0.8	104	0.00
23	T	2-Butanone	50.000	60.505	-21.0#	125	0.00
24	T	2,2-Dichloropropane	50.000	51.909	-3.8	105	0.00
25	T	cis-1,2-Dichloroethene	50.000	51.922	-3.8	106	0.00
26	C	Chloroform	50.000	46.871	6.3	102	0.00
27	T	Bromochloromethane	50.000	49.947	0.1	108	0.00
28	S	Dibromofluoromethane	25.000	23.341	6.6	103	0.00
29	T	1,1,1-Trichloroethane	50.000	47.598	4.8	100	0.00
30	T	Cyclohexane	50.000	52.597	-5.2	104	0.00
31	T	1,1-Dichloropropene	50.000	50.404	-0.8	105	0.00
32	T	Carbon Tetrachloride	50.000	50.986	-2.0	100	0.00
33	S	1,2-Dichloroethane-d4	25.000	22.113	11.5	98	0.00
34	T	1,2-Dichloroethane	50.000	46.965	6.1	101	0.00
35	T	Benzene	50.000	50.907	-1.8	105	0.00
36	T	Trichloroethene	50.000	50.006	-0.0	104	0.00
37	C	1,2-Dichloropropane	50.000	49.916	0.2	105	0.00
38	T	Bromodichloromethane	50.000	50.140	-0.3	101	0.00
39	T	Dibromomethane	50.000	50.520	-1.0	104	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	47.575	4.8	104	0.00
41	T	4-Methyl-2-Pentanone	50.000	55.346	-10.7	116	0.00

(#) = Out of Range
6M25867.D 8260WTR.M Thu May 24 15:35:02 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	55.245	-10.5	105	0.00
43	T	Dimethyl Disulfide	50.000	47.004	6.0	104	0.00
44	I	Chlorobenzene-d5	25.000	25.000	0.0	105	0.00
45	S	Toluene-d8	25.000	24.885	0.5	106	0.00
46	C	Toluene	50.000	51.656	-3.3	103	0.00
47	T	Ethyl Methacrylate	50.000	54.592	-9.2	107	0.00
48	T	trans-1,3-Dichloropropene	50.000	55.305	-10.6	104	0.00
49	T	1,1,2-Trichloroethane	50.000	50.769	-1.5	105	0.00
50	T	2-Hexanone	50.000	56.976	-14.0	114	0.00
51	T	1,3-Dichloropropane	50.000	51.611	-3.2	106	0.00
52	T	Tetrachloroethene	50.000	51.125	-2.3	104	0.00
53	T	Dibromochloromethane	50.000	54.698	-9.4	103	0.00
54	T	1,2-Dibromoethane	50.000	53.344	-6.7	104	0.00
55	T	1-Chlorohexane	50.000	52.669	-5.3	103	0.00
56	P	Chlorobenzene	50.000	47.029	5.9	103	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	52.204	-4.4	101	0.00
58	C	Ethylbenzene	50.000	49.144	1.7	102	0.00
59	T	m-,p-Xylene	100.000	98.814	1.2	102	0.00
60	T	o-Xylene	50.000	51.441	-2.9	102	0.00
61	T	Styrene	50.000	51.687	-3.4	102	0.00
62	P	Bromoform	50.000	47.475	5.0	103	0.00
63	T	Isopropylbenzene	50.000	49.828	0.3	101	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	103	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	52.048	-4.1	108	0.00
66	S	p-Bromofluorobenzene	25.000	25.120	-0.5	105	0.00
67	T	1,2,3-Trichloropropane	50.000	51.598	-3.2	103	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	47.927	4.1	107	0.00
69	T	n-Propylbenzene	50.000	50.908	-1.8	101	0.00
70	T	Bromobenzene	50.000	49.073	1.9	101	0.00
71	T	1,3,5-Trimethylbenzene	50.000	52.273	-4.5	101	0.00
72	T	2-Chlorotoluene	50.000	49.456	1.1	101	0.00
73	T	4-Chlorotoluene	50.000	50.134	-0.3	100	0.00
74	T	a-Methylstyrene	50.000	54.462	-8.9	101	0.00
75	T	tert-Butylbenzene	50.000	49.456	1.1	101	0.00
76	T	1,2,4-Trimethylbenzene	50.000	48.933	2.1	101	0.00
77	T	sec-Butylbenzene	50.000	50.400	-0.8	101	0.00
78	T	p-Isopropyltoluene	50.000	50.988	-2.0	101	0.00
79	T	1,3-Dichlorobenzene	50.000	48.791	2.4	101	0.00
80	T	1,4-Dichlorobenzene	50.000	46.847	6.3	101	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

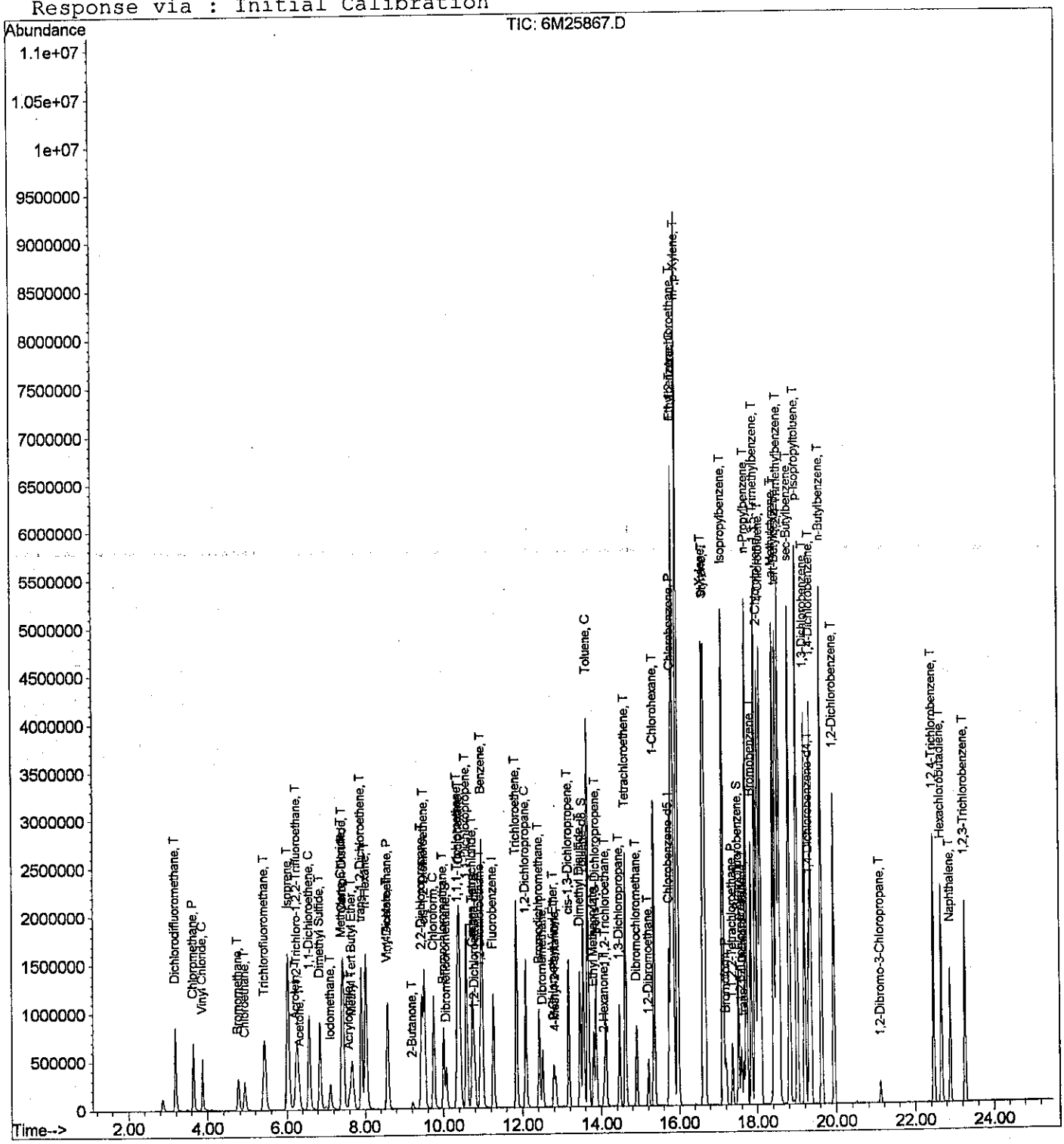
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	49.369	1.3	101	0.00
82	T	1,2-Dichlorobenzene	50.000	48.130	3.7	101	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	51.779	-3.6	111	0.00
84	T	1,2,4-Trichlorobenzene	50.000	51.852	-3.7	103	0.00
85	T	Hexachlorobutadiene	50.000	49.723	0.6	102	0.00
86	T	Naphthalene	50.000	57.601	-15.2	106	0.00
87	T	1,2,3-Trichlorobenzene	50.000	51.419	-2.8	104	0.00

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 15:33 19101

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



6M25867.D 8260WTR.M Thu May 24 15:34:05 2001 Page 4

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Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 15:33 19101

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1656560	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1384232	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	744361	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	425023	23.34	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.36%				
33) 1,2-Dichloroethane-d4	10.80	65	335687	22.11	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 88.44%				
45) Toluene-d8	13.55	98	1997701	24.89	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.56%				
66) p-Bromofluorobenzene	17.52	95	727310	25.12	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	1275940	43.39	ug/L		96
3) Chloromethane	3.64	50	1124319	44.91	ug/L		100
4) Vinyl Chloride	3.87	62	692328	44.10	ug/L		99
5) Bromomethane	4.77	94	416006	40.88	ug/L		99
6) Chloroethane	4.93	64	496289	41.72	ug/L		100
7) Trichlorofluoromethane	5.43	101	1597340	48.06	ug/L		100
8) Isoprene	6.03	67	1478663	52.93	ug/L		98
9) Acrolein	6.22	56	44319	97.46	ug/L		97
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	913859	48.10	ug/L		99
11) Acetone	6.34	43	100374	62.32	ug/L		95
12) 1,1-Dichloroethene	6.58	96	751062	49.39	ug/L		92
13) Dimethyl Sulfide	6.85	62	837608	54.31	ug/L	#	1
14) Iodomethane	7.11	142	603664	44.18	ug/L		91
15) Methylene Chloride	7.41	84	754724	45.88	ug/L		88
16) Carbon Disulfide	7.45	76	3144955	49.32	ug/L		100
17) Acrylonitrile	7.59	53	132258	51.57	ug/L		98
18) Methyl Tert Butyl Ether	7.67	73	1157423	52.38	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	909010	51.26	ug/L		93
20) n-Hexane	8.03	57	1647443	52.86	ug/L		98
21) Vinyl Acetate	8.56	43	758137	47.90	ug/L		99
22) 1,1-Dichloroethane	8.59	63	1672794	49.59	ug/L		97
23) 2-Butanone	9.21	43	130804	60.51	ug/L		96
24) 2,2-Dichloropropane	9.46	77	1524875	51.91	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	898288	51.92	ug/L		91
26) Chloroform	9.76	83	1482202	46.87	ug/L		99
27) Bromochloromethane	10.00	128	339059	49.95	ug/L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 15:33 19101

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 1,1,1-Trichloroethane	10.36	97	1534707	47.60	ug/L		92
30) Cyclohexane	10.41	56	1821967	52.60	ug/L		95
31) 1,1-Dichloropropene	10.58	75	1431276	50.40	ug/L		96
32) Carbon Tetrachloride	10.75	117	1461191	50.99	ug/L		99
34) 1,2-Dichloroethane	10.93	62	898874	46.97	ug/L	#	75
35) Benzene	10.98	78	3728568	50.91	ug/L		98
36) Trichloroethene	11.85	130	1160409	50.01	ug/L		98
37) 1,2-Dichloropropane	12.09	63	869185	49.92	ug/L		95
38) Bromodichloromethane	12.42	83	988176	50.14	ug/L		100
39) Dibromomethane	12.51	93	306116	50.52	ug/L		94
40) 2-Chloroethyl Vinyl Ether	12.79	63	242026	47.58	ug/L		96
41) 4-Methyl-2-Pentanone	12.84	58	139390	55.35	ug/L		94
42) cis-1,3-Dichloropropene	13.17	75	1155154	55.24	ug/L		98
43) Dimethyl Disulfide	13.46	79	576506	47.00	ug/L		95
46) Toluene	13.66	91	4437402	51.66	ug/L		98
47) Ethyl Methacrylate	13.81	69	566202	54.59	ug/L		100
48) trans-1,3-Dichloropropene	13.87	75	929368	55.30	ug/L		98
49) 1,1,2-Trichloroethane	14.12	97	445198	50.77	ug/L		100
50) 2-Hexanone	14.07	43	239742	56.98	ug/L		98
51) 1,3-Dichloropropane	14.48	76	822185	51.61	ug/L		96
52) Tetrachloroethene	14.62	164	949457	51.13	ug/L		96
53) Dibromochloromethane	14.91	129	684414	54.70	ug/L		99
54) 1,2-Dibromoethane	15.21	107	475705	53.34	ug/L		100
55) 1-Chlorohexane	15.36	91	1524220	52.67	ug/L		95
56) Chlorobenzene	15.81	112	3019035	47.03	ug/L		95
57) 1,1,1,2-Tetrachloroethane	15.85	131	930814	52.20	ug/L		97
58) Ethylbenzene	15.86	106	1834232	49.14	ug/L		98
59) m-,p-Xylene	15.97	106	4535750	98.81	ug/L		98
60) o-Xylene	16.62	106	2145293	51.44	ug/L		96
61) Styrene	16.66	104	3453102	51.69	ug/L		95
62) Bromoform	17.21	173	333946	47.48	ug/L		99
63) Isopropylbenzene	17.13	105	5827657	49.83	ug/L		99
65) 1,1,2,2-Tetrachloroethane	17.37	83	471682	52.05	ug/L		100
67) 1,2,3-Trichloropropane	17.60	110	152056	51.60	ug/L		98
68) trans-1,4-Dichloro-2-Buten	17.66	53	147872	47.93	ug/L		88
69) n-Propylbenzene	17.73	91	6537174	50.91	ug/L		100
70) Bromobenzene	17.85	156	1191696	49.07	ug/L		96
71) 1,3,5-Trimethylbenzene	17.96	105	4958368	52.27	ug/L		100
72) 2-Chlorotoluene	18.03	91	3956200	49.46	ug/L		95
73) 4-Chlorotoluene	18.09	91	4011395	50.13	ug/L		100
74) a-Methylstyrene	18.42	118	2455910	54.46	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\6M25867.D
Acq On : 22 May 2001 21:03
Sample : WG98026-02 50PPB STD
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 15:33 19101

Vial: 3
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

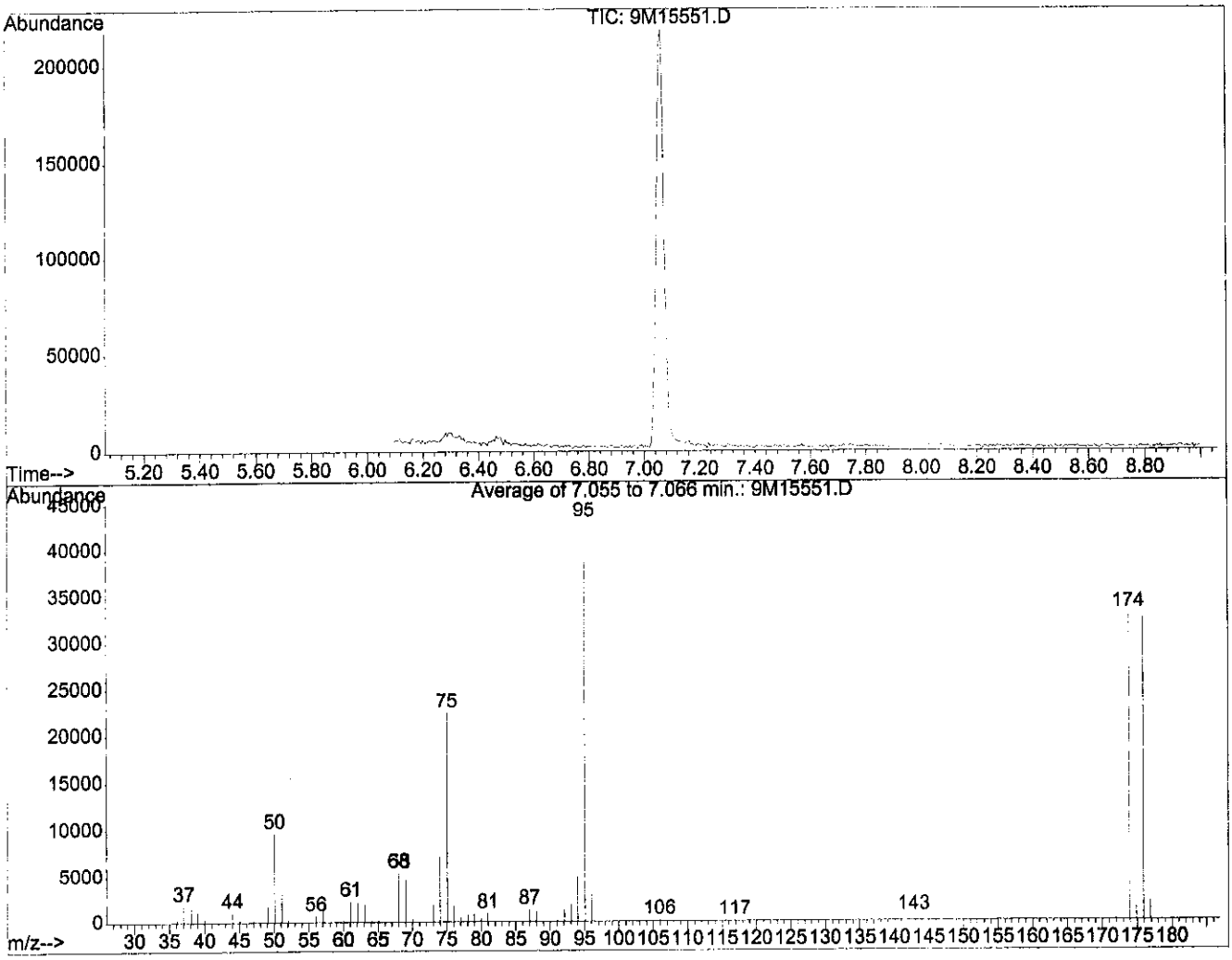
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75) tert-Butylbenzene	18.49	119	4572448	49.46	ug/L		100
76) 1,2,4-Trimethylbenzene	18.56	105	5012990	48.93	ug/L		100
77) sec-Butylbenzene	18.82	105	6202093	50.40	ug/L		99
78) p-Isopropyltoluene	19.01	119	5686493	50.99	ug/L		98
79) 1,3-Dichlorobenzene	19.21	146	2542957	48.79	ug/L		100
80) 1,4-Dichlorobenzene	19.36	146	2492861	46.85	ug/L		100
81) n-Butylbenzene	19.63	91	4644629	49.37	ug/L		98
82) 1,2-Dichlorobenzene	19.94	146	2031334	48.13	ug/L		100
83) 1,2-Dibromo-3-Chloropropan	21.11	157	92643	51.78	ug/L		100
84) 1,2,4-Trichlorobenzene	22.47	180	1278741	51.85	ug/L		96
85) Hexachlorobutadiene	22.67	225	649571	49.72	ug/L	#	26
86) Naphthalene	22.89	128	1624988	57.60	ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.27	180	955245	51.42	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25867.D 8260WTR.M Thu May 24 15:33:55 2001

2.1.1.4 Raw QC Data

Data File : D:\HPCHEM\1\DATA\051101\9M15551.D
Acq On : 11 May 2001 9:35
Sample : WG97218-01 50NG BFB SV7908
Misc : SOLID,1
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9

Vial: 1
Operator: MES
Inst : HPMS9
Multiplr: 1.00



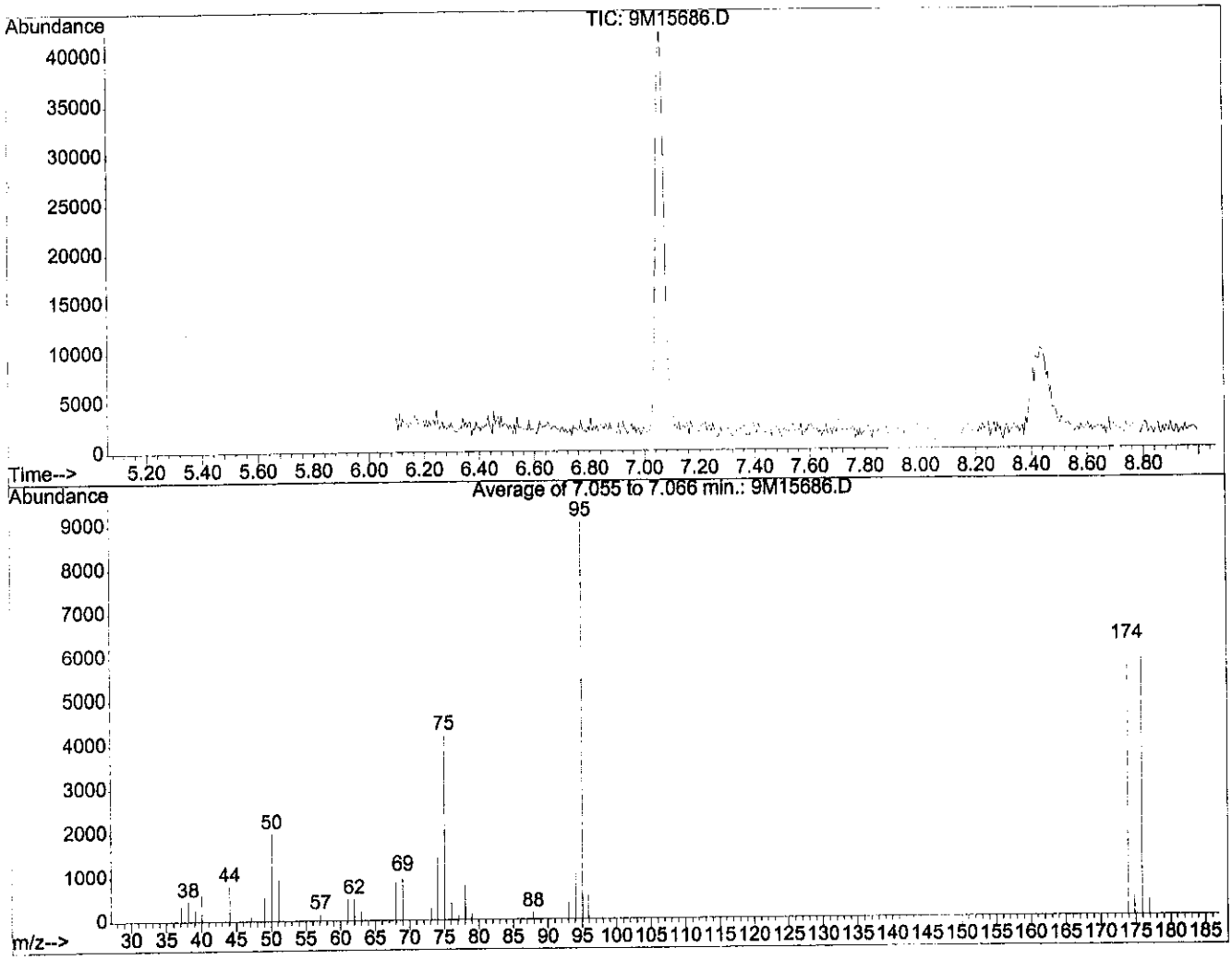
Spectrum Information: Average of 7.055 to 7.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	9654	PASS
75	95	30	60	52.1	22376	PASS
95	95	100	100	100.0	42968	PASS
96	95	5	9	7.1	3037	PASS
173	174	0.00	2	0.3	105	PASS
174	95	50	100	76.6	32933	PASS
175	174	5	9	6.9	2279	PASS
176	174	95	101	98.5	32437	PASS
177	176	5	9	6.7	2177	PASS

9M15551.D 8260SOIL.M Wed May 16 16:23:00 2001 HPMS_9

Data File : D:\HPCHEM\1\DATA\051801\9M15686.D
Acq On : 18 May 2001 8:57
Sample : WG97659-01 50NG BFB SV7908
Misc : SOLID,1
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00



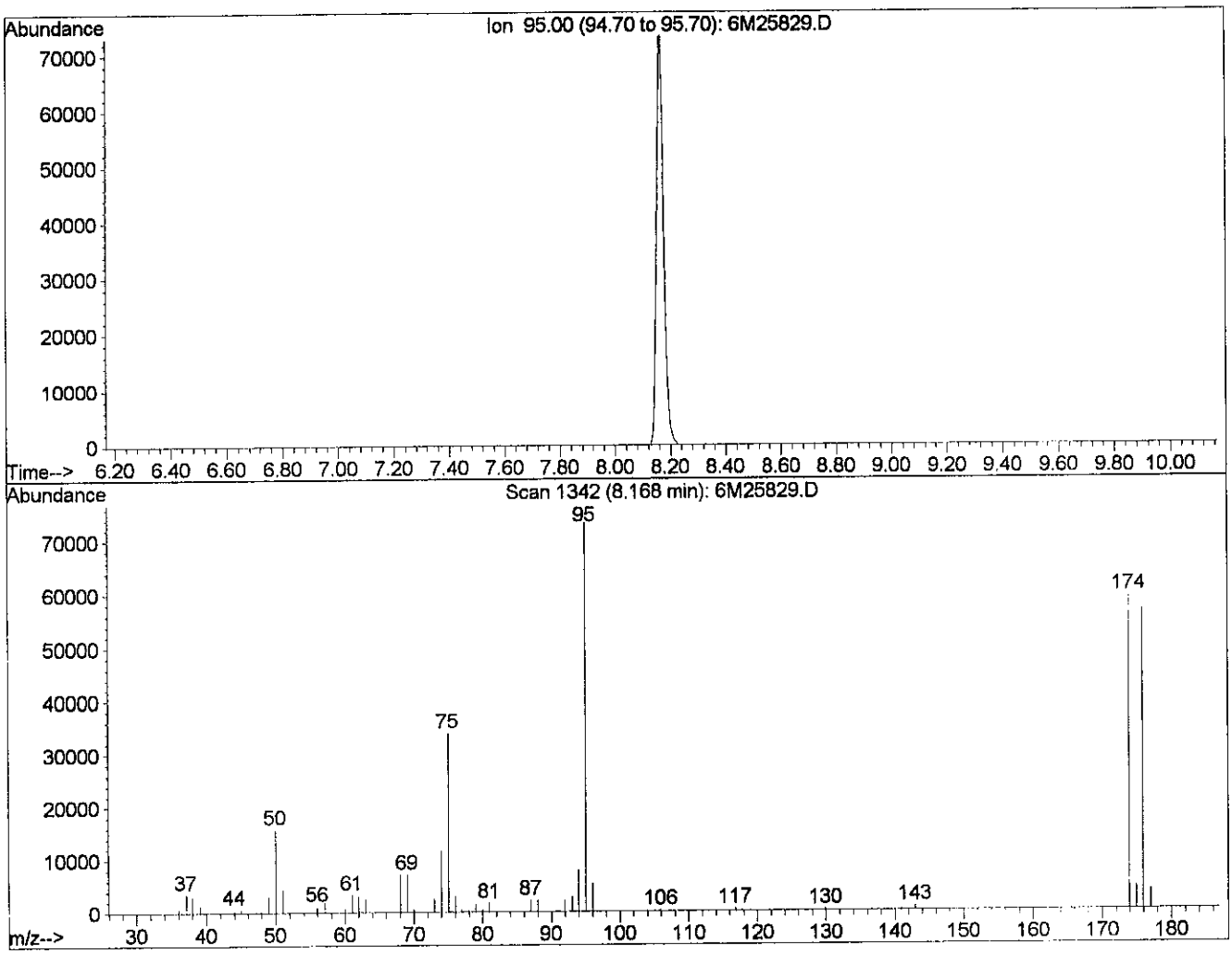
Spectrum Information: Average of 7.055 to 7.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	1983	PASS
75	95	30	60	46.3	4185	PASS
95	95	100	100	100.0	9047	PASS
96	95	5	9	5.9	538	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.9	6143	PASS
175	174	5	9	7.1	435	PASS
176	174	95	101	95.7	5876	PASS
177	176	5	9	6.4	375	PASS

9M15686.D 8260SOIL.M Fri May 18 09:20:15 2001 HPMS_9

Data File : C:\HPCHEM\1\DATA\052101\6M25829.D
Acq On : 21 May 2001 14:46
Sample : WG97810-01 BFB 50NG STD
Misc : 1,1 SV7908
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6

Vial: 6
Operator: CMS
Inst : HPMS6
Multiplr: 1.00



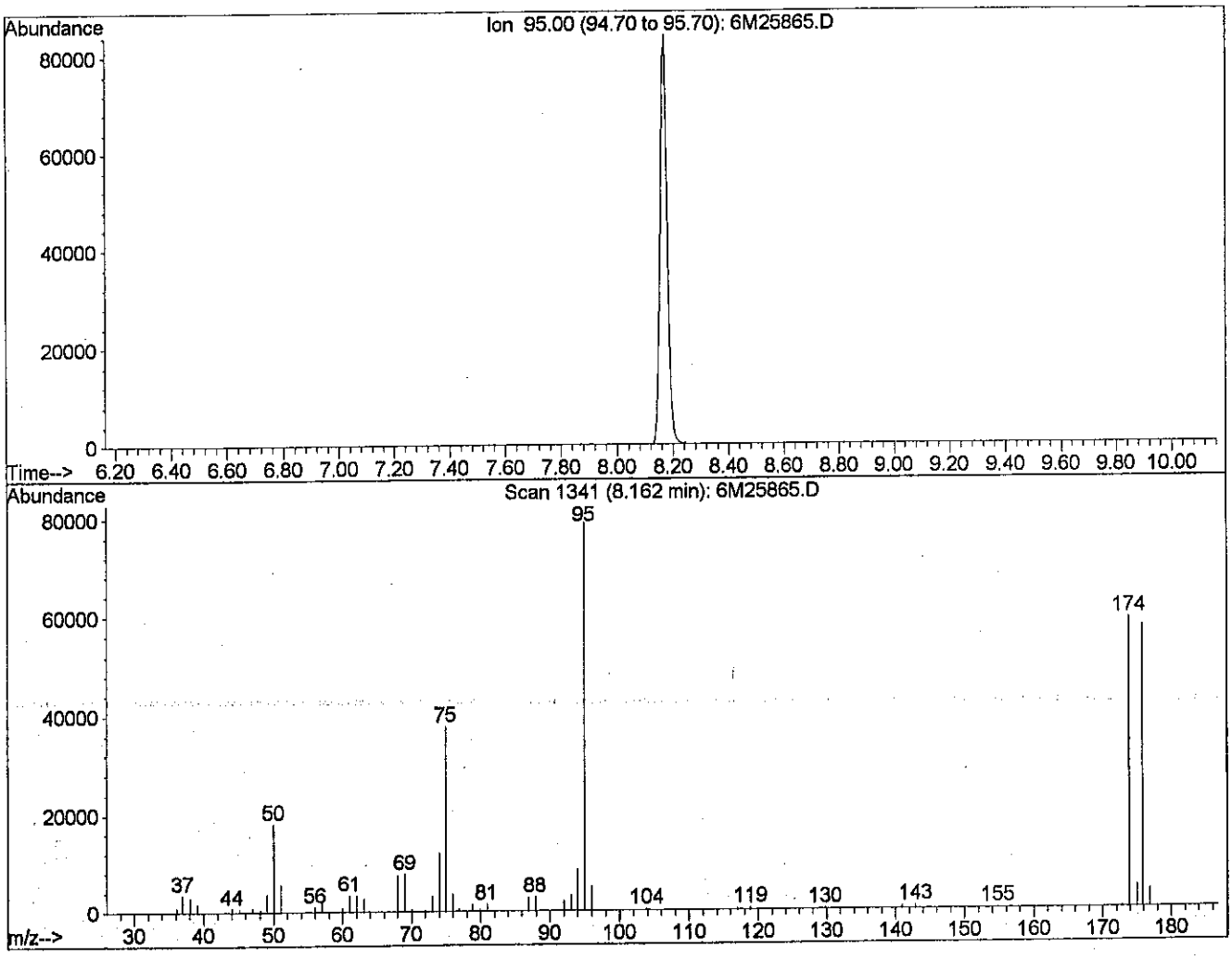
Spectrum Information: Scan 1342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	15913	PASS
75	95	30	60	46.3	33920	PASS
95	95	100	100	100.0	73280	PASS
96	95	5	9	7.1	5217	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.8	59224	PASS
175	174	5	9	7.3	4329	PASS
176	174	95	101	95.7	56664	PASS
177	176	5	9	6.7	3817	PASS

6M25829.D 8260WTR.M Thu May 24 14:55:02 2001

Data File : C:\HPCHEM\1\DATA\052201\6M25865.D
Acq On : 22 May 2001 19:50
Sample : WG98026-01 50NG BFB STD
Misc : 1,1 SV7908
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6

Vial: 1
Operator: CMS
Inst : HPMS6
Multiplr: 1.00



Spectrum Information: Scan 1341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	18176	PASS
75	95	30	60	47.7	37696	PASS
95	95	100	100	100.0	78984	PASS
96	95	5	9	6.4	5075	PASS
173	174	0.00	2	0.7	412	PASS
174	95	50	100	74.7	59000	PASS
175	174	5	9	7.6	4513	PASS
176	174	95	101	97.5	57496	PASS
177	176	5	9	6.4	3699	PASS

6M25865.D 8260WTR.M Thu May 24 15:32:49 2001

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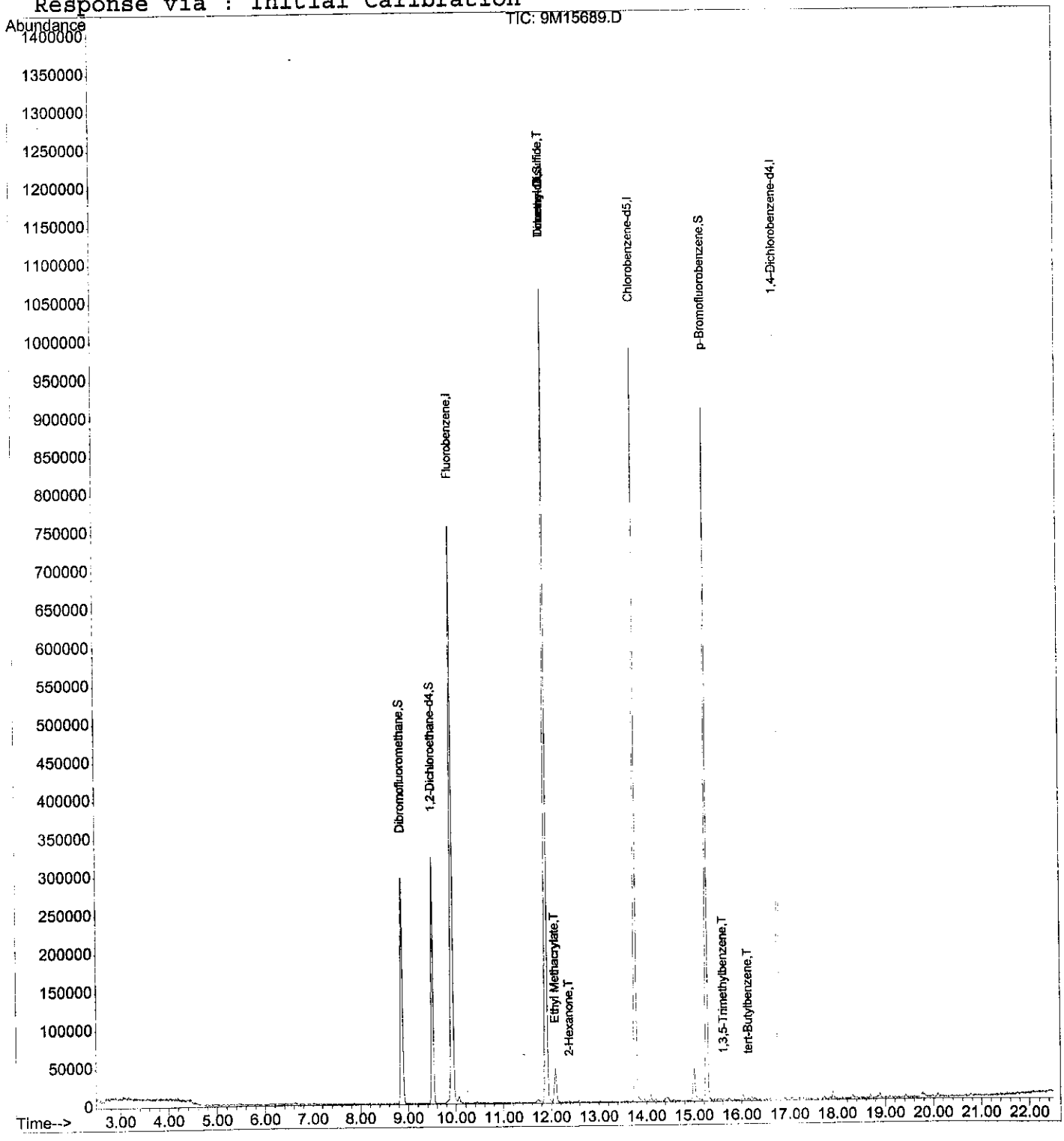
Data File : d:\HPCHEM\1\DATA\051801\9M15689.D
Acq On : 18 May 2001 10:45
Sample : WG97659-03 VBLK0518 M8260
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 18 11:08 2001

Vial: 4
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051801\9M15689.D
Acq On : 18 May 2001 10:45
Sample : WG97659-03 VBLK0518 M8260
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 18 11:08 2001

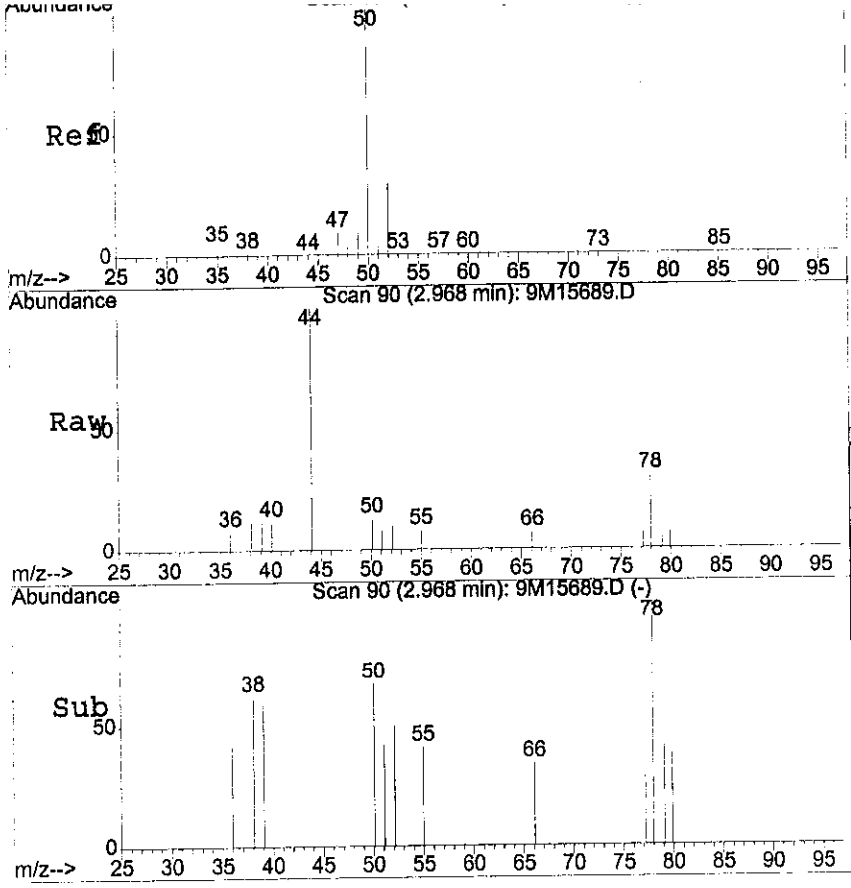
Vial: 4
Operator: MES
Inst : HPMS9
Multiplr: 1.00
Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	878967	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	641419	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	357556	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	267831	49.12	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.24%			
33) 1,2-Dichloroethane-d4	9.51	65	335662	50.79	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.58%			
45) Toluene-d8	11.90	98	948028	48.97	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 97.94%			
66) p-Bromofluorobenzene	15.27	95	395298	53.42	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 106.84%			
Target Compounds						Qvalue
3) Chloromethane	2.97	50	1319	Below Cal	#	1
11) Acetone	5.44	43	1864	Below Cal	#	87
43) Dimethyl Disulfide	11.89	79	123	~~4.57~~	ug/kg#	1
47) Ethyl Methacrylate	12.09	69	102	~~3.99~~	ug/kg#	1
50) 2-Hexanone	12.38	43	1748	~~0.75~~	ug/kg#	22
71) 1,3,5-Trimethylbenzene	15.62	105	258	~~2.31 ug/kg~~	#	27
75) tert-Butylbenzene	16.14	119	223	~~1.10 ug/kg~~	#	1

(#) = qualifier out of range (m) = manual integration
9M15689.D 8260SOIL.M Fri May 18 11:08:43 2001 HPMS_9 Page 1

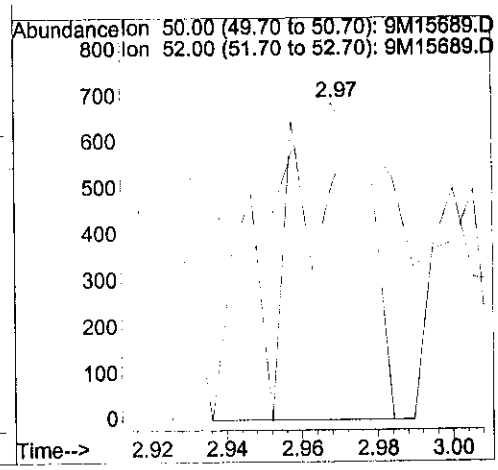
470

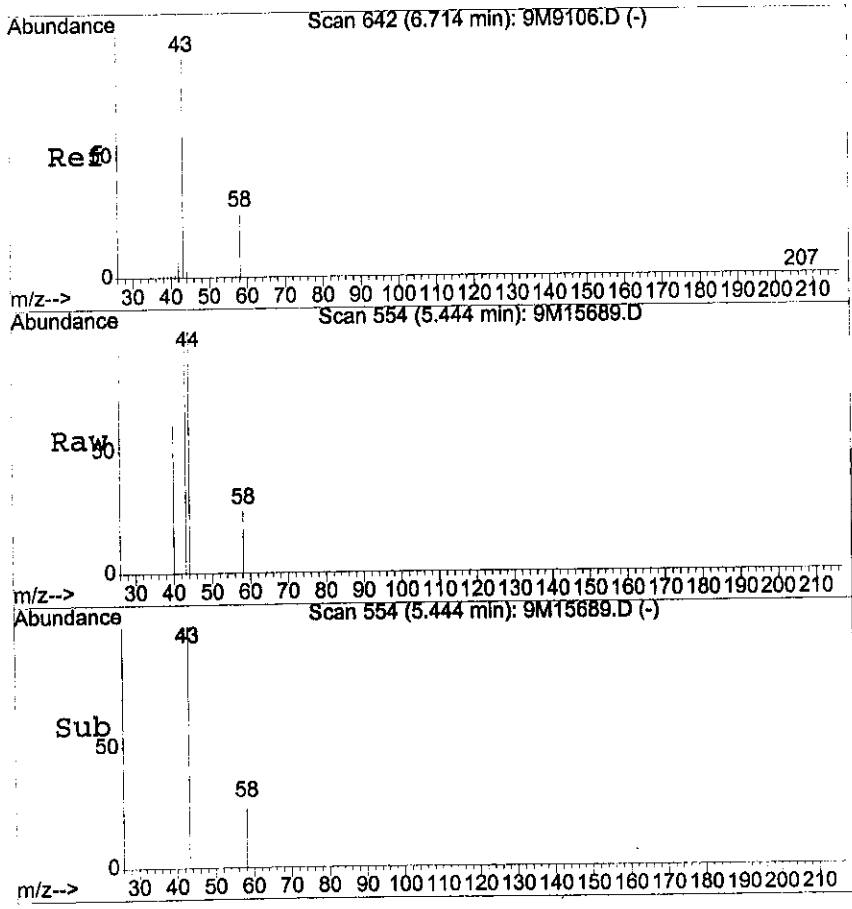


Chloromethane
Concen: Below Cal
RT: 2.97 min Scan# 90
Delta R.T. -0.02 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion: 50 Resp: 1319

Ion	Ratio	Lower	Upper
50	100		
52	116.5	25.4	38.2#

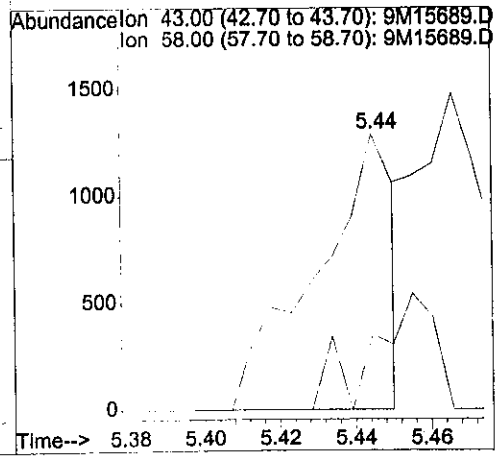


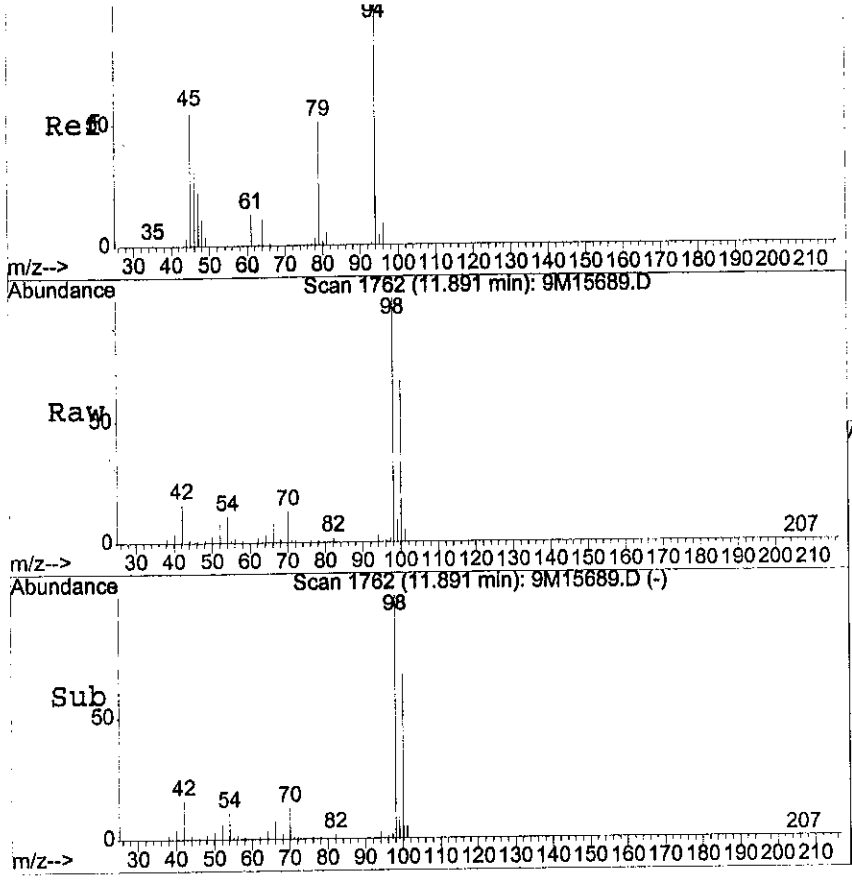


#11
Acetone
Concen: Below Cal
RT: 5.44 min Scan# 554
Delta R.T. 0.01 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion: 43 Resp: 1864 ✓ mcp

Ion	Ratio	Lower	Upper
43	100		
58	34.0	21.9	32.9#

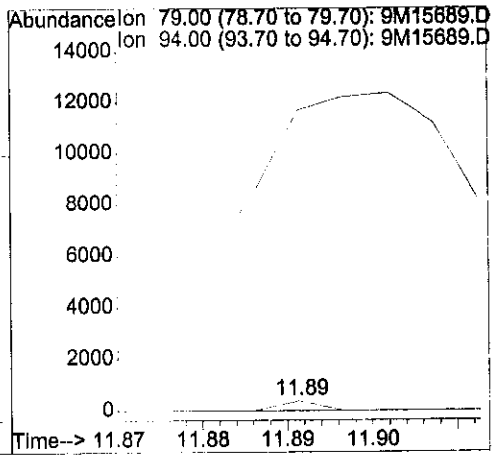


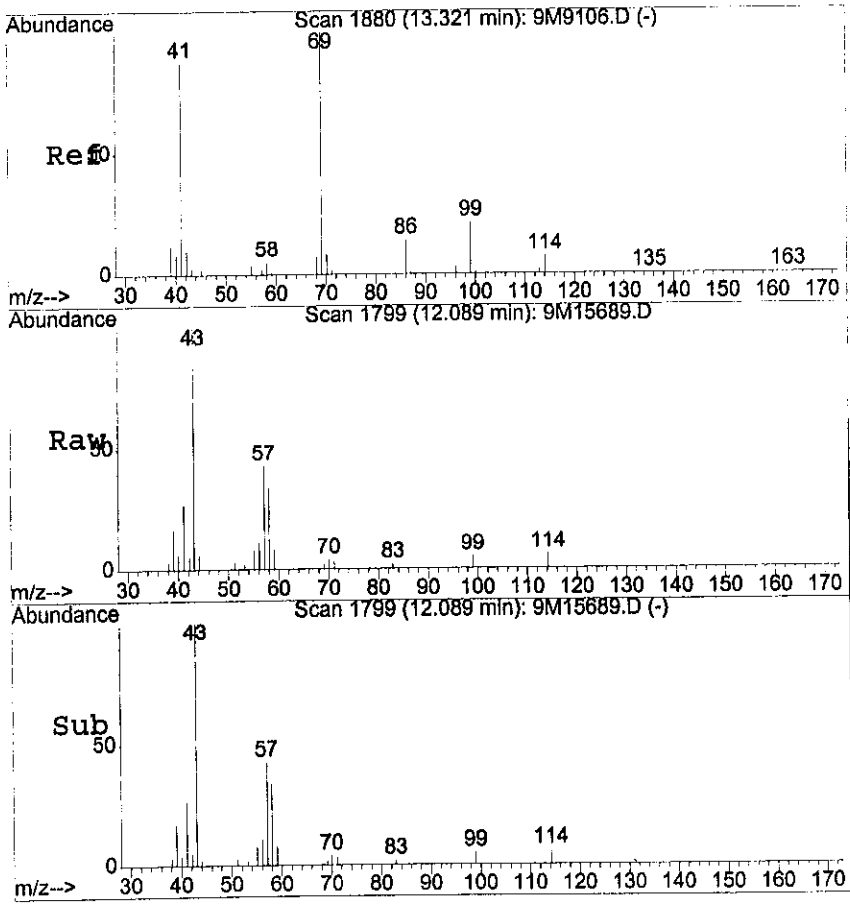


Dimethyl Disulfide
Concen: 4.57 ug/kg
RT: 11.89 min Scan# 1762
Delta R.T. 0.08 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion: 79 Resp: 123

Ion	Ratio	Lower	Upper
79	100		
94	24536.6	153.5	230.3#

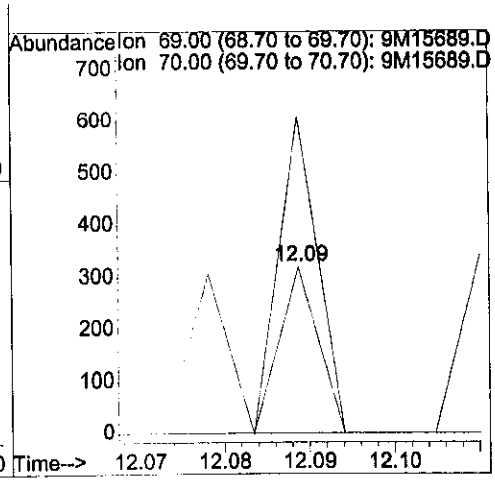


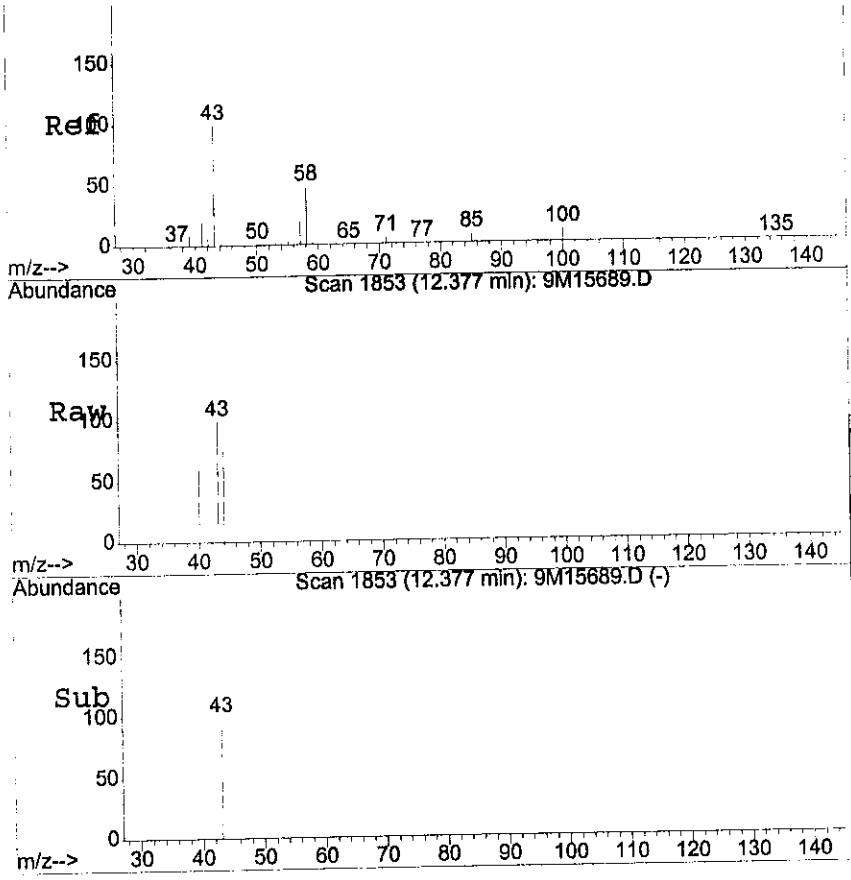


#47
Ethyl Methacrylate
Concen: 3.99 ug/kg
RT: 12.09 min Scan# 1799
Delta R.T. -0.03 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion: 69 Resp: 102

Ion	Ratio	Lower	Upper
69	100		
70	288.2	6.7	10.1#

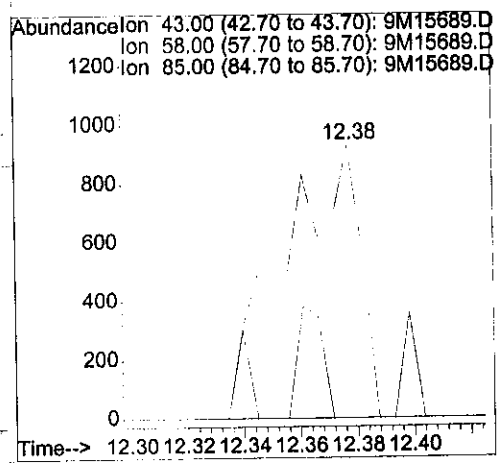


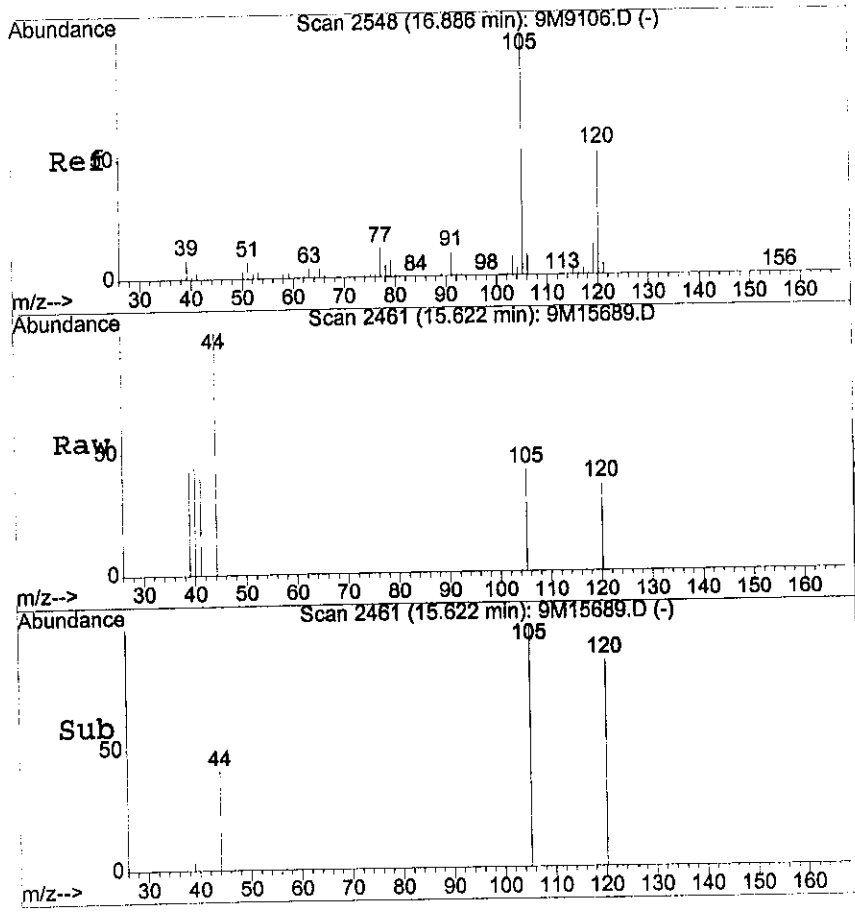


2-Hexanone
Concen: 0.75 ug/kg
RT: 12.38 min Scan# 1853
Delta R.T. 0.04 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion: 43 Resp: 1748

Ion	Ratio	Lower	Upper
43	100		
58	13.3	42.2	63.2#
85	0.0	66.1	99.1#

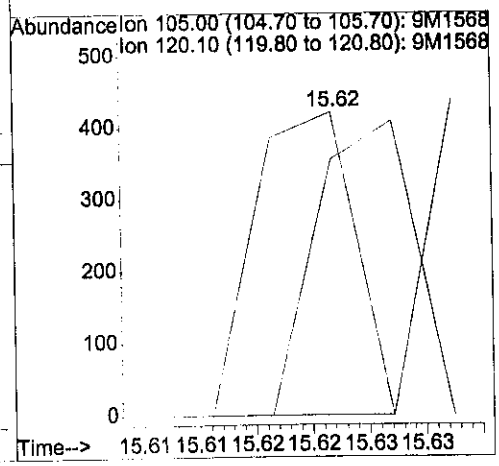


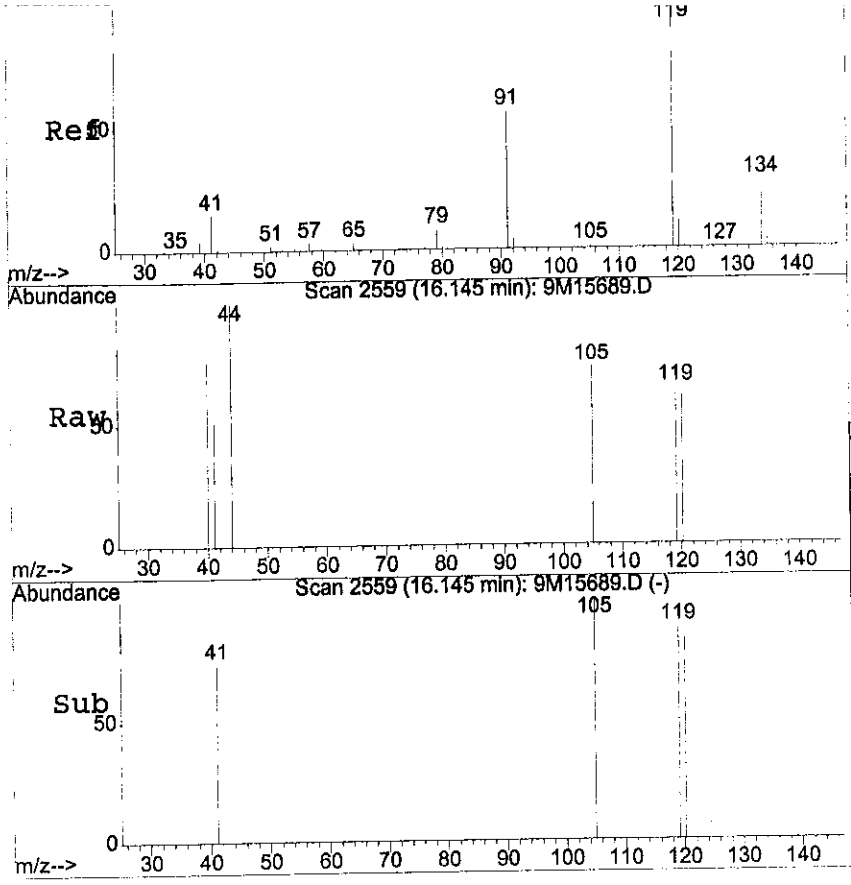


#71
1,3,5-Trimethylbenzene
Concen: 2.31 ug/kg
RT: 15.62 min Scan# 2461
Delta R.T. -0.00 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion:105 Resp: 258

Ion	Ratio	Lower	Upper
105	100		
120	95.0	37.3	55.9#

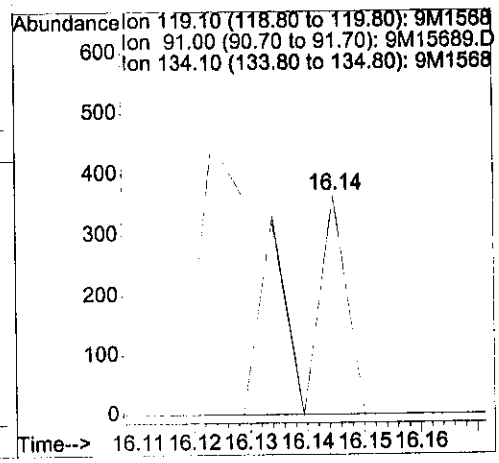




tert-Butylbenzene
Concen: 1.10 ug/kg
RT: 16.14 min Scan# 2559
Delta R.T. 0.06 min
Lab File: 9M15689.D
Acq: 18 May 2001 10:45

Tgt Ion:119 Resp: 223

Ion	Ratio	Lower	Upper
119	100		
91	163.2	39.5	59.3#
134	0.0	16.0	24.0#

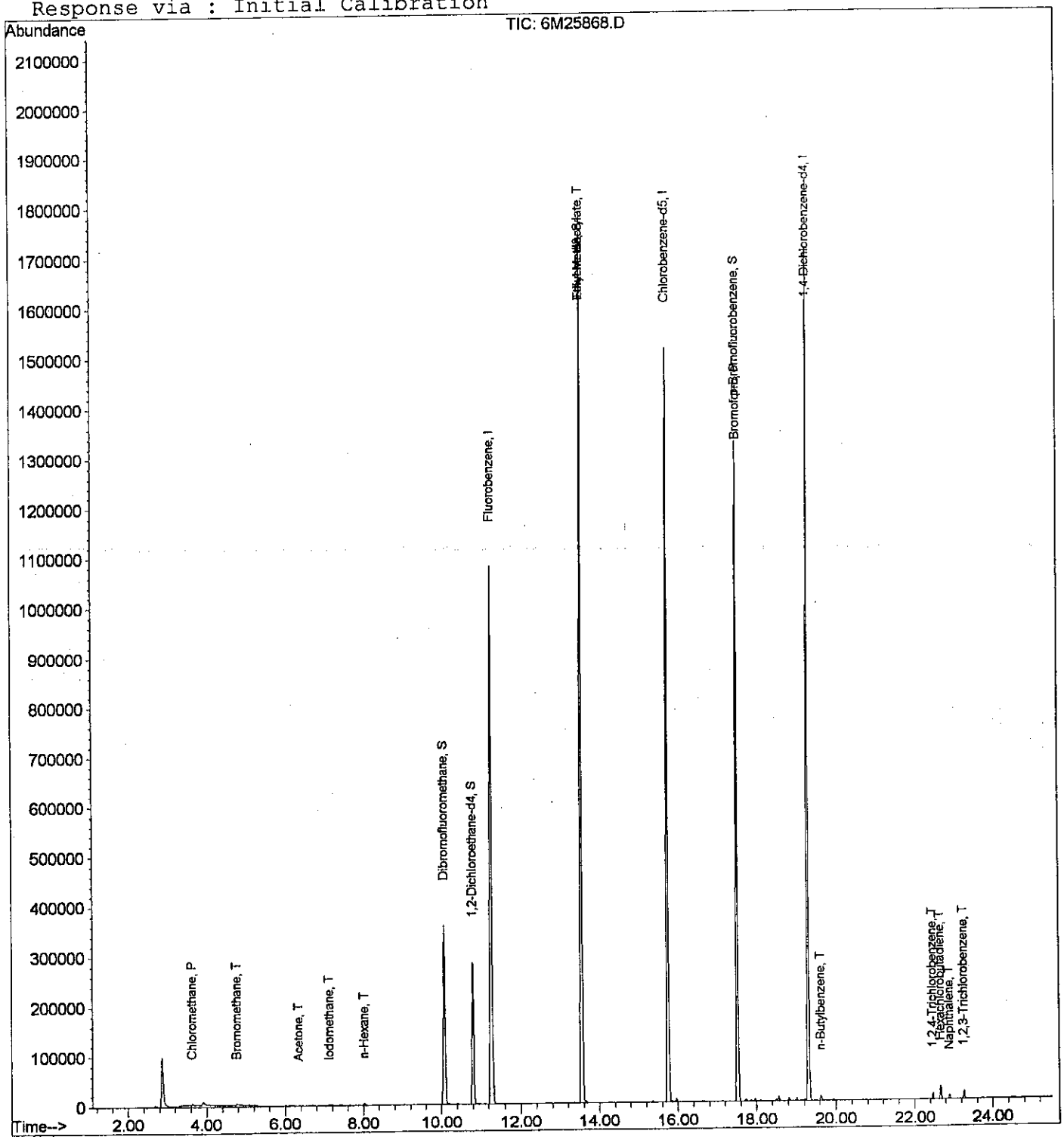


Data File : C:\HPCHEM\1\DATA\052201\6M25868.D
Acq On : 22 May 2001 21:44
Sample : WG97946-03 VBLK 0522
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:41 19101

Vial: 4
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



6M25868.D 8260WTR.M Thu May 24 15:41:38 2001 Page 2

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Data File : C:\HPCHEM\1\DATA\052201\6M25868.D
Acq On : 22 May 2001 21:44
Sample : WG97946-03 VBLK 0522
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 24 15:41 19101

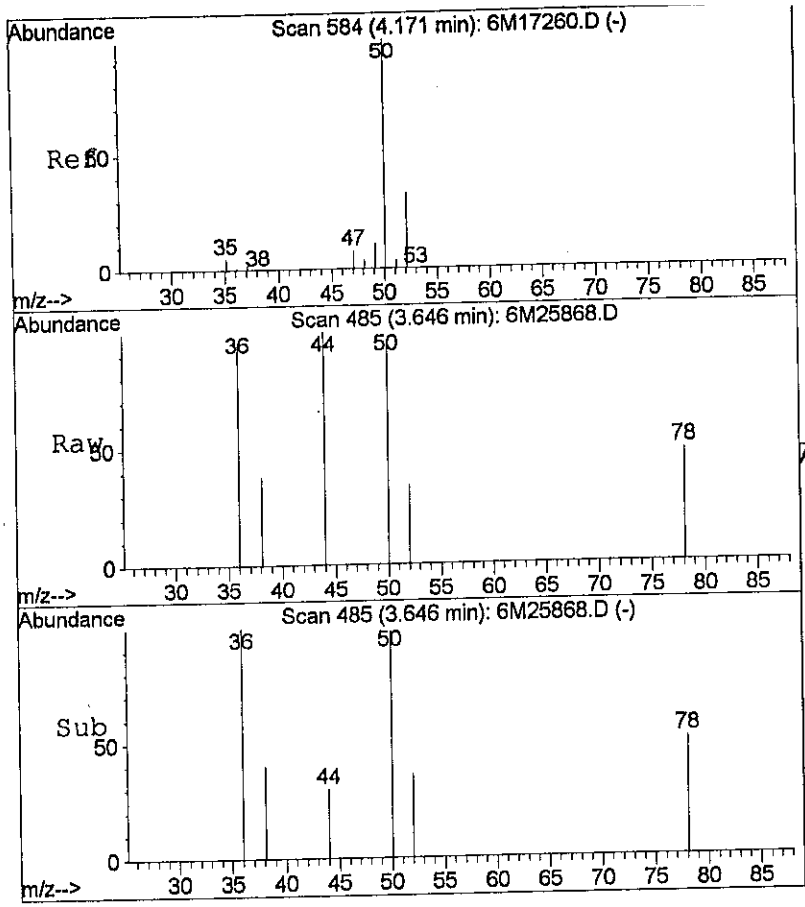
Vial: 4
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.26	96	1506040	25.00 ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1273594	25.00 ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	676898	25.00 ug/L	0.00
System Monitoring Compounds					
28) Dibromofluoromethane	10.07	111	369143	22.30 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118			Recovery = 89.20%	
33) 1,2-Dichloroethane-d4	10.80	65	297967	21.59 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120			Recovery = 86.36%	
45) Toluene-d8	13.55	98	1829737	24.77 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110			Recovery = 99.08%	
66) p-Bromofluorobenzene	17.52	95	661864	25.14 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115			Recovery = 100.56%	
Target Compounds					Qvalue
3) Chloromethane	3.65	50	3951	0.17 ug/L #	71
5) Bromomethane	4.78	94	2803	0.30 ug/L #	42
11) Acetone	6.35	43	1350	0.92 ug/L #	46
14) Iodomethane	7.13	142	2553	3.26 ug/L F	90
20) n-Hexane	8.02	57	3457	0.12 ug/L	91
47) Ethyl Methacrylate	13.55	69	3277	0.34 ug/L #	1
62) Bromoform	17.53	173	940	1.59 ug/L #	1
81) n-Butylbenzene	19.63	91	11105	0.13 ug/L	99
84) 1,2,4-Trichlorobenzene	22.47	180	7765	0.35 ug/L F	95
85) Hexachlorobutadiene	22.66	225	9619	0.81 ug/L #F	31
86) Naphthalene	22.90	128	13668	0.53 ug/L #F	94
87) 1,2,3-Trichlorobenzene	23.26	180	9268	0.55 ug/L F	95

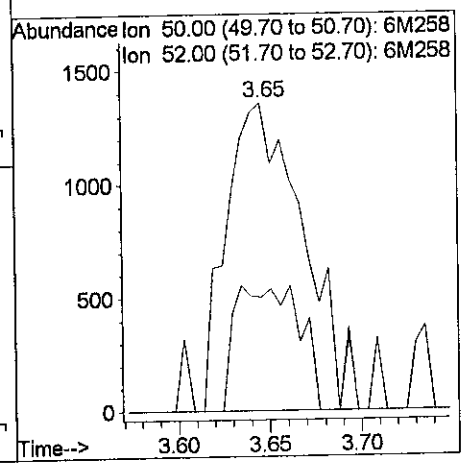
(#) = qualifier out of range (m) = manual integration
6M25868.D 8260WTR.M Thu May 24 15:41:33 2001

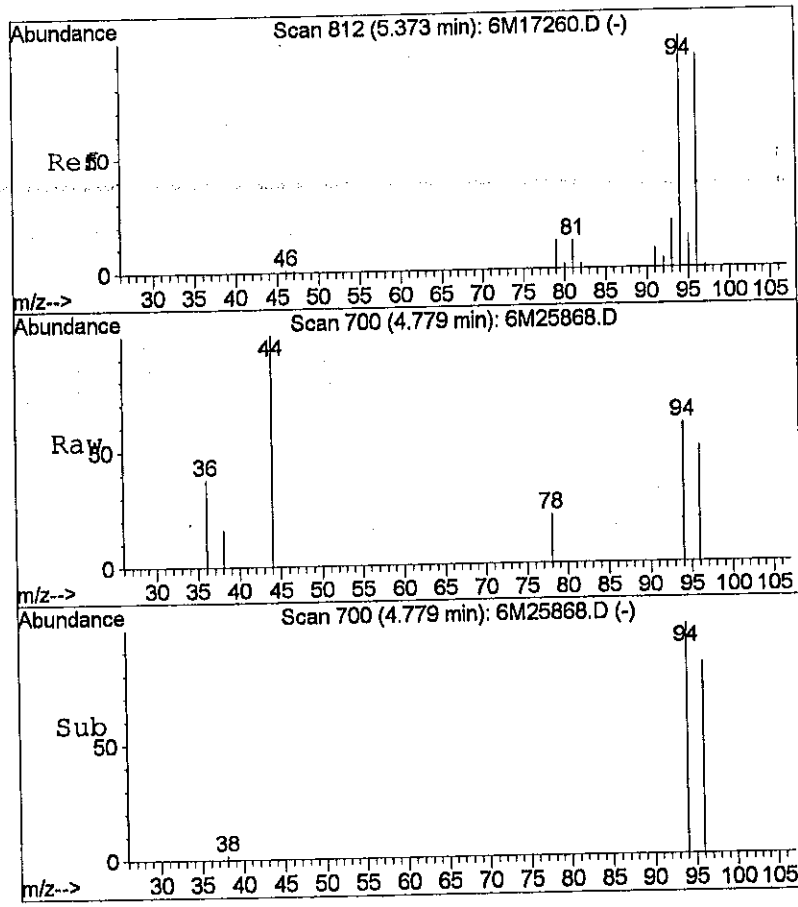


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.65 min Scan# 485
Delta R.T. 0.00 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 50 Resp: 3951

Ion	Ratio	Lower	Upper
50	100		
52	15.9	25.9	38.9#

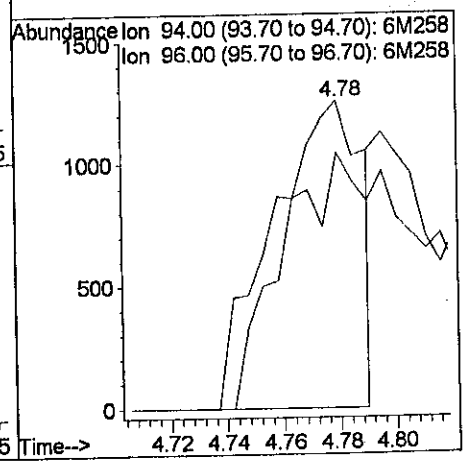


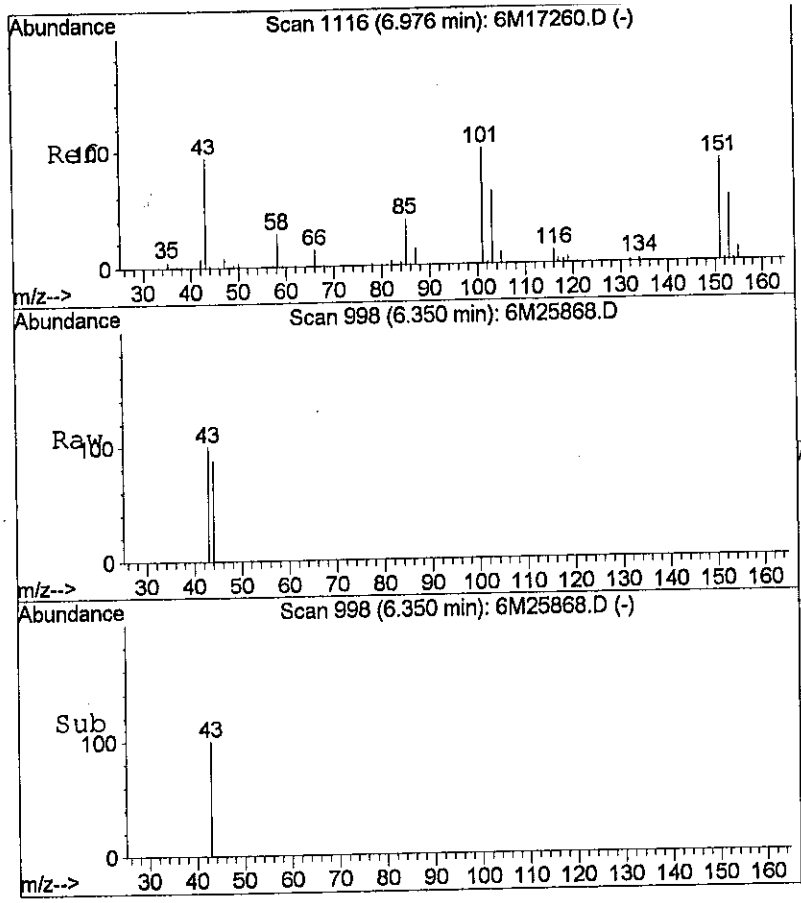


#5
Bromomethane
Concen: 0.30 ug/L
RT: 4.78 min Scan# 700
Delta R.T. 0.01 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 94 Resp: 2803

Ion	Ratio	Lower	Upper
94	100		
96	150.1	75.1	112.7#

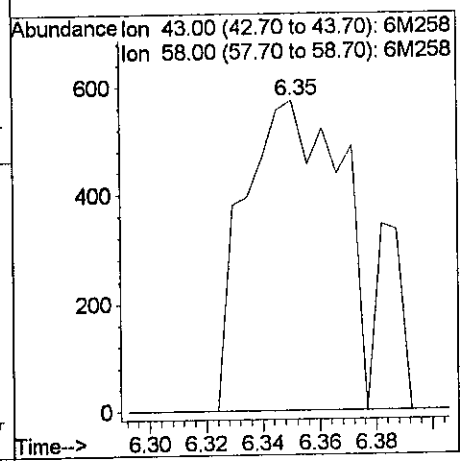


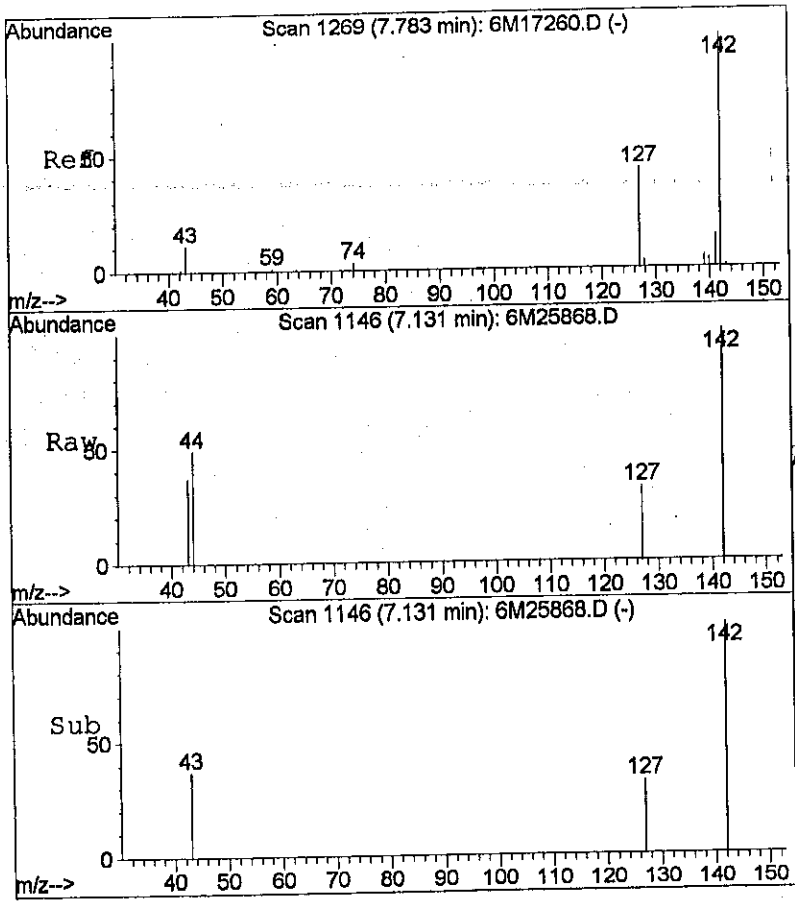


#11
Acetone
Concen: 0.92 ug/L
RT: 6.35 min Scan# 998
Delta R.T. 0.01 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 43 Resp: 1350

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

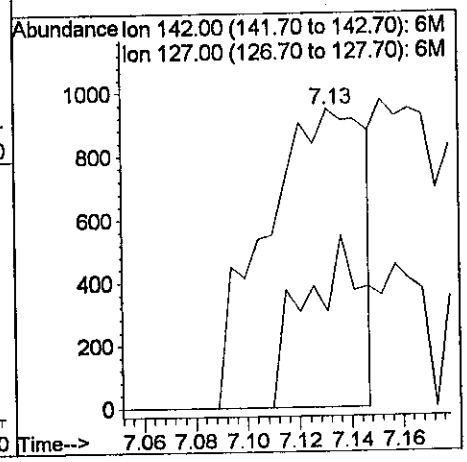


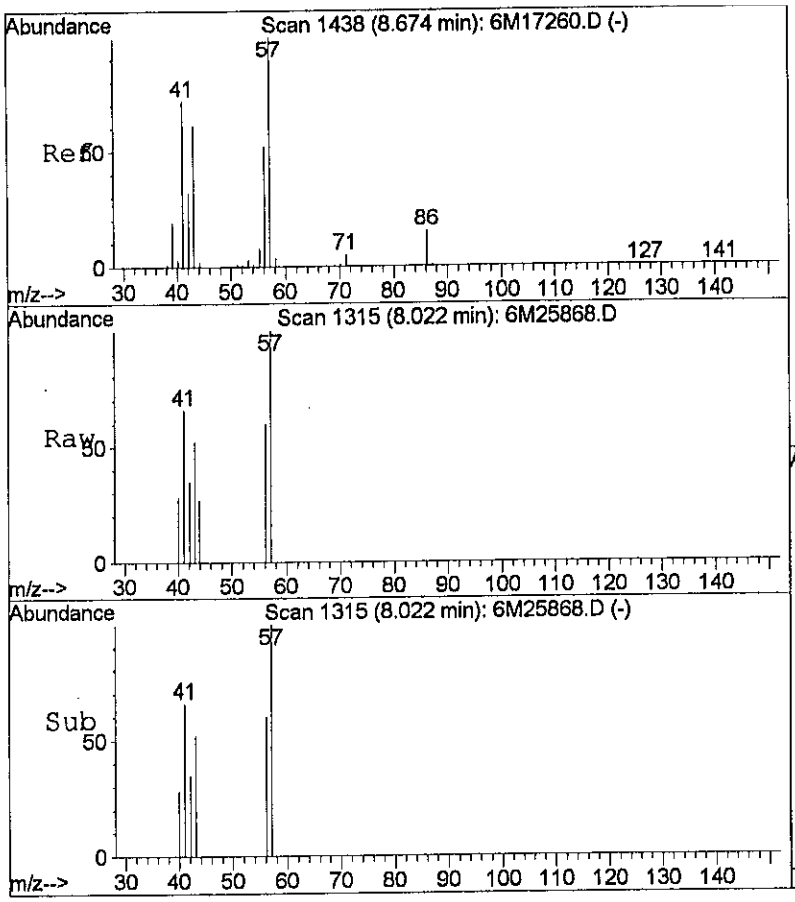


#14
Iodomethane
Concen: 3.26 ug/L
RT: 7.13 min Scan# 1146
Delta R.T. 0.02 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion:142 Resp: 2553

Ion	Ratio	Lower	Upper
142	100		
127	37.6	35.4	53.0

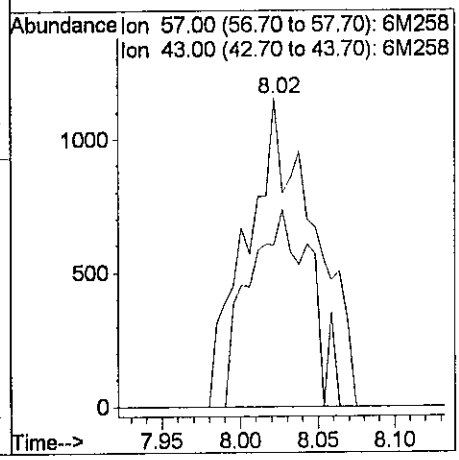


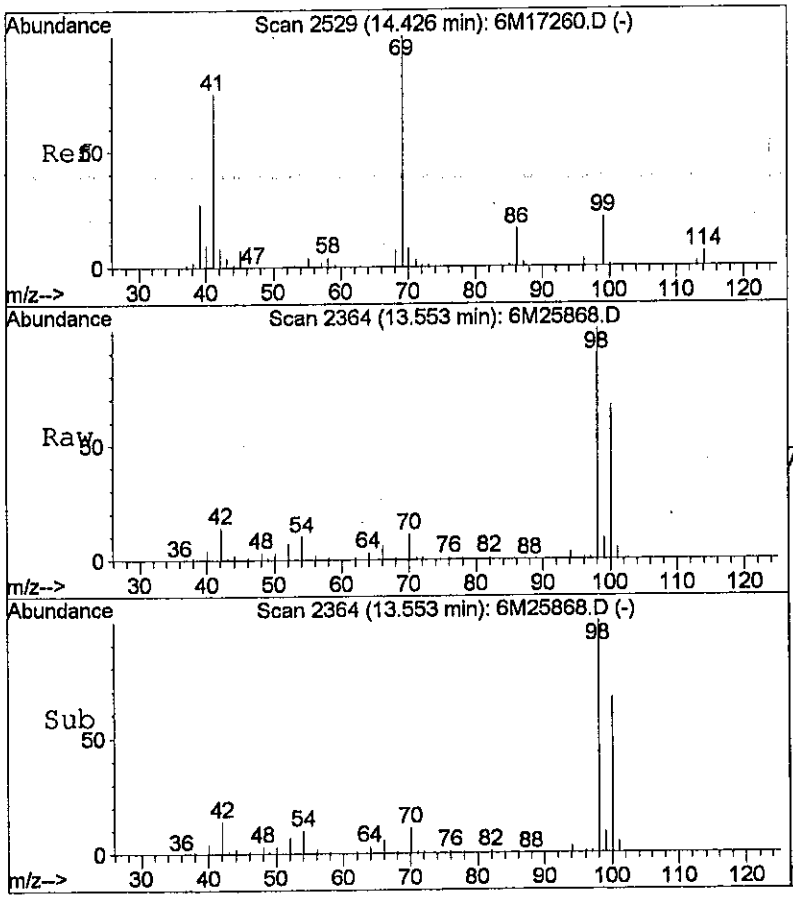


#20
n-Hexane
Concen: 0.12 ug/L
RT: 8.02 min Scan# 1315
Delta R.T. -0.01 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 57 Resp: 3457

Ion	Ratio	Lower	Upper
57	100		
43	58.9	53.0	79.6

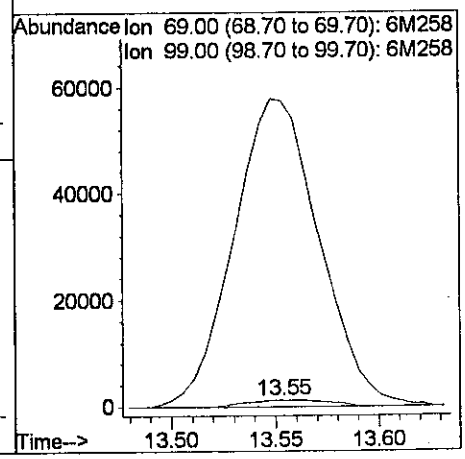


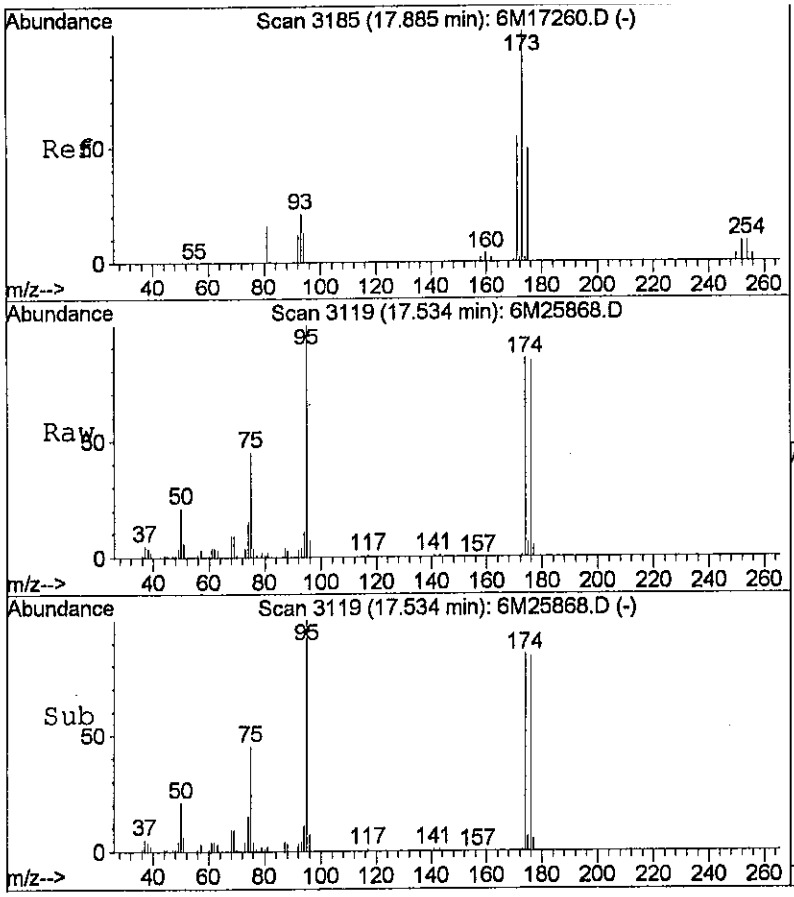


#47
Ethyl Methacrylate
Concen: 0.34 ug/L
RT: 13.55 min Scan# 2364
Delta R.T. -0.25 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 69 Resp: 3277

Ion	Ratio	Lower	Upper
69	100		
99	5026.9	16.6	24.8#

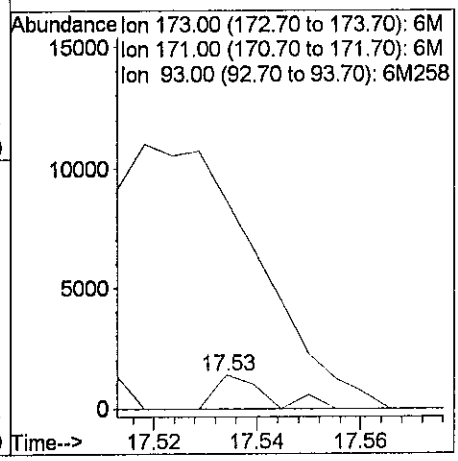


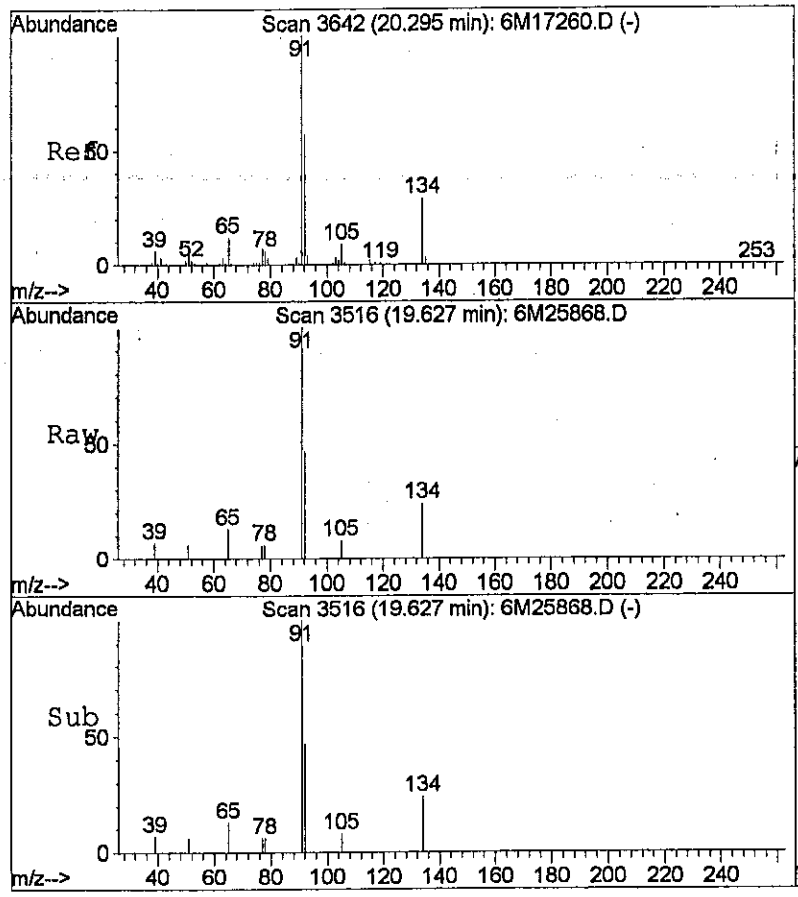


#62
Bromoform
Concen: 1.59 ug/L
RT: 17.53 min Scan# 3119
Delta R.T. 0.33 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion:173 Resp: 940

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	2786.6	18.2	27.2#

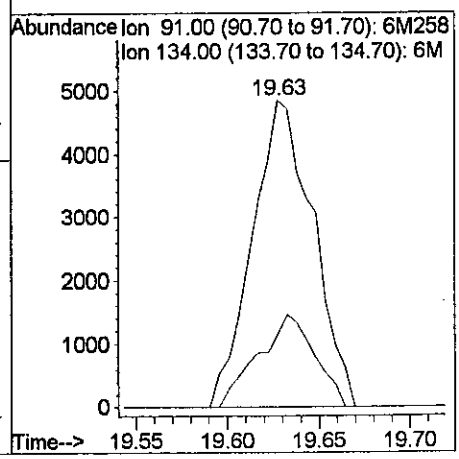


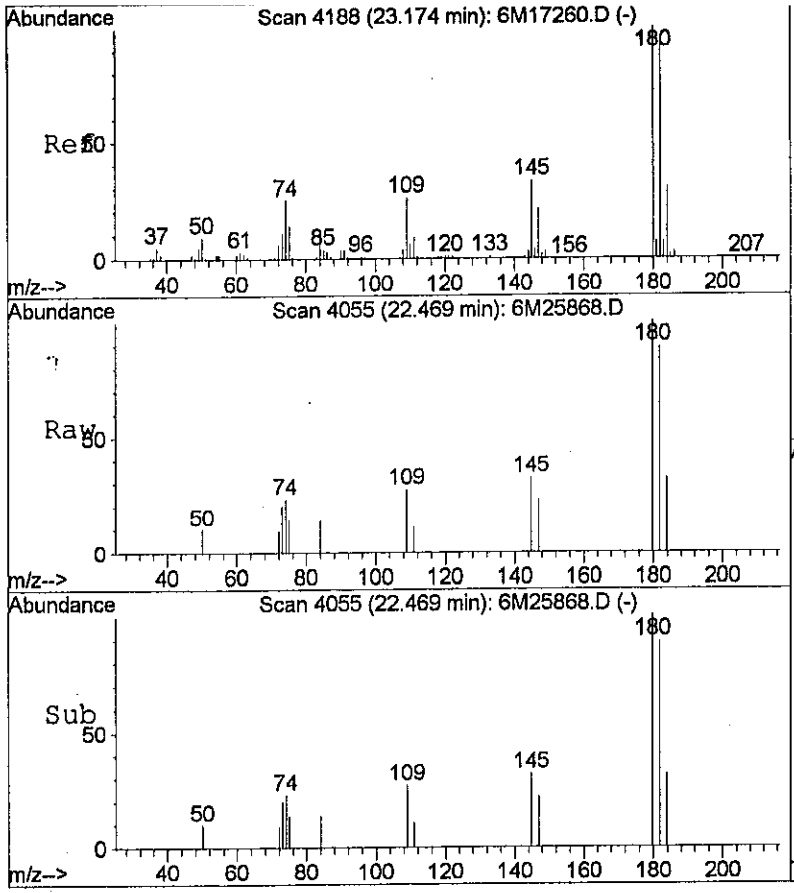


#81
n-Butylbenzene
Concen: 0.13 ug/L
RT: 19.63 min Scan# 3516
Delta R.T. -0.00 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion: 91 Resp: 11105

Ion	Ratio	Lower	Upper
91	100		
134	28.3	23.0	34.4

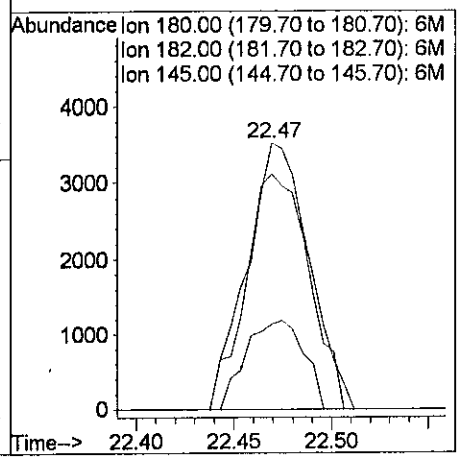


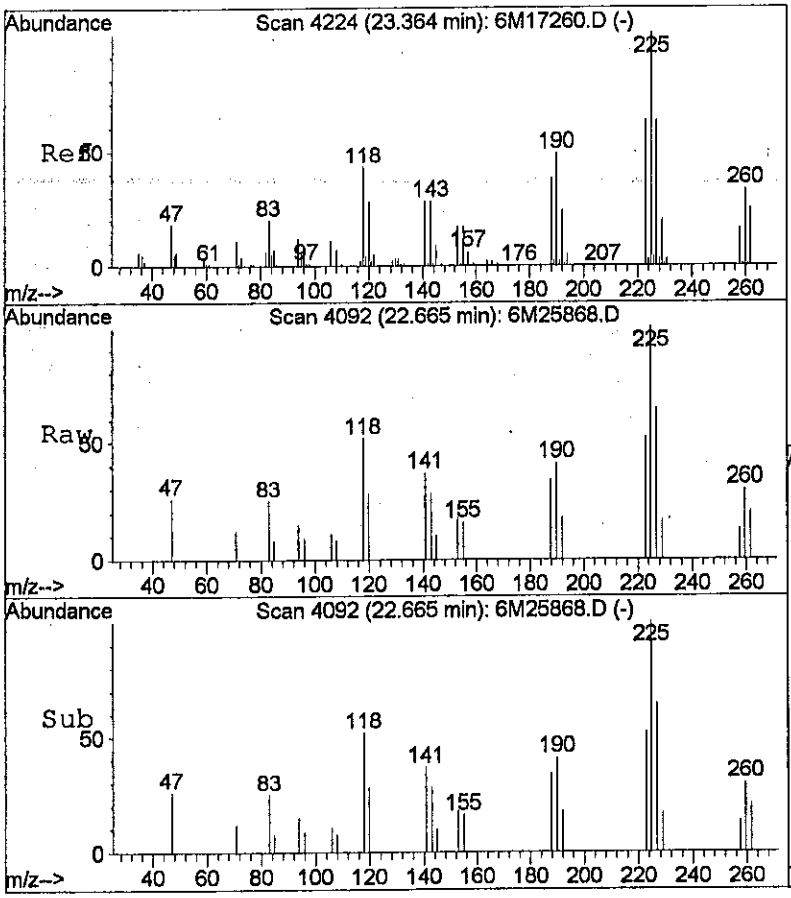


#84
1,2,4-Trichlorobenzene
Concen: 0.35 ug/L
RT: 22.47 min Scan# 4055
Delta R.T. -0.00 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion:180 Resp: 7765

Ion	Ratio	Lower	Upper
180	100		
182	89.7	75.8	113.8
145	31.4	27.4	41.0

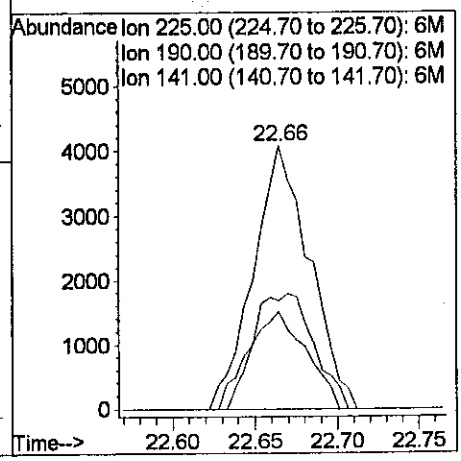


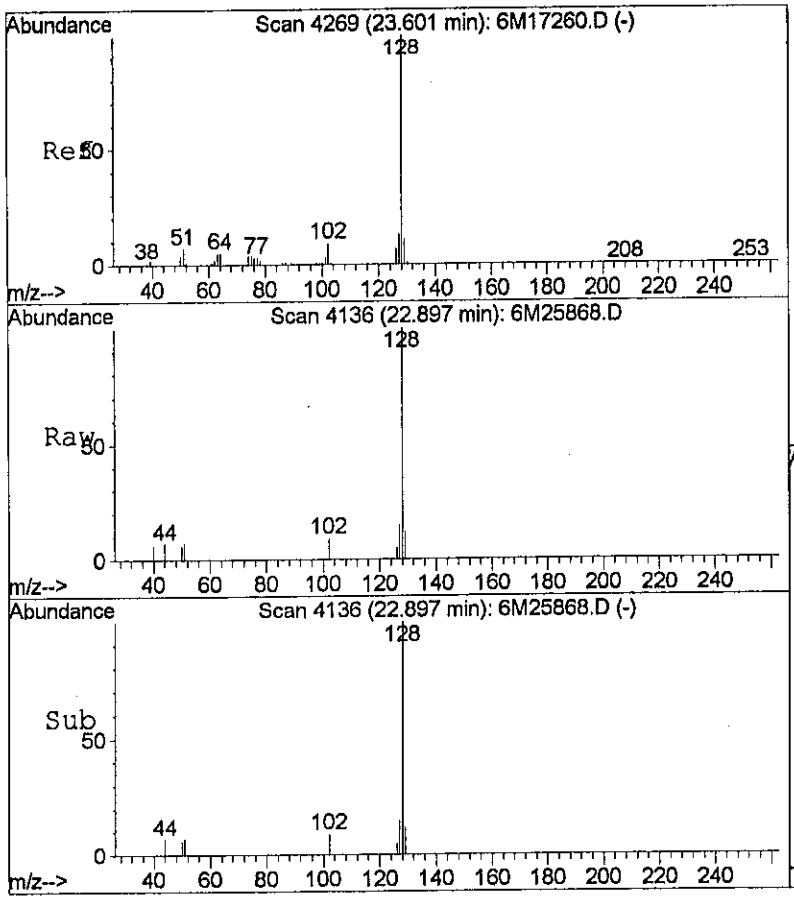


#85
Hexachlorobutadiene
Concen: 0.81 ug/L
RT: 22.66 min Scan# 4092
Delta R.T. -0.00 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion:225 Resp: 9619

Ion	Ratio	Lower	Upper
225	100		
190	49.4	0.5	0.7#
141	35.8	0.2	0.4#

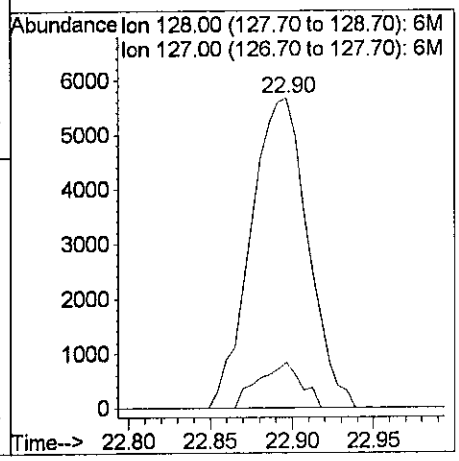


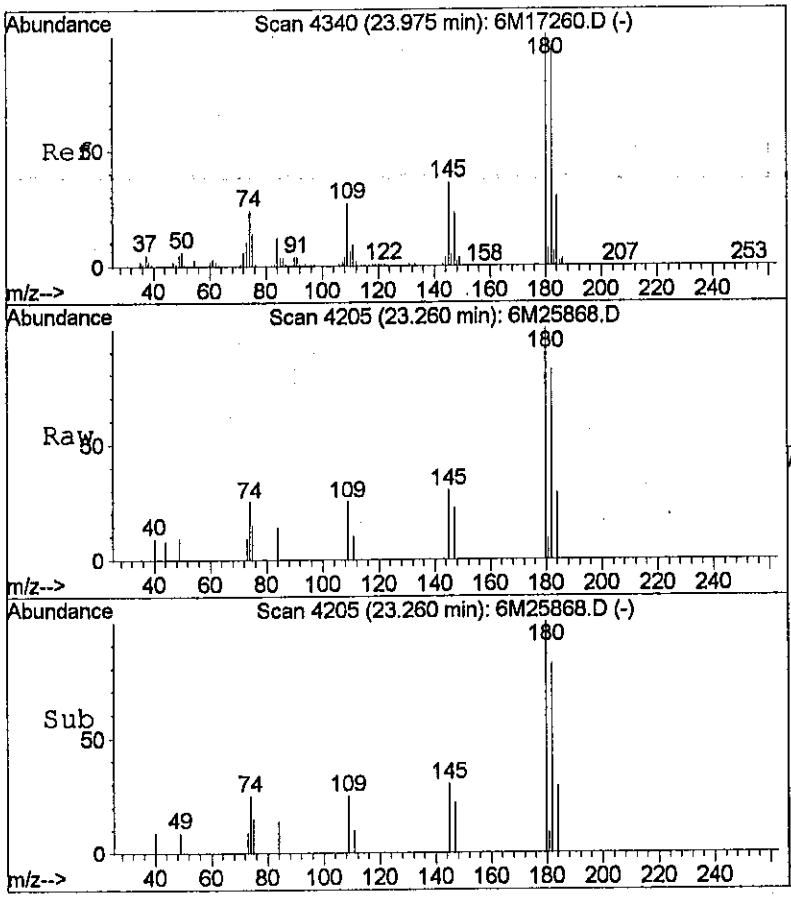


#86
Naphthalene
Concen: 0.53 ug/L
RT: 22.90 min Scan# 4136
Delta R.T. 0.01 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

Tgt Ion:128 Resp: 13668

Ion	Ratio	Lower	Upper
128	100		
127	11.2	7.1	10.7#

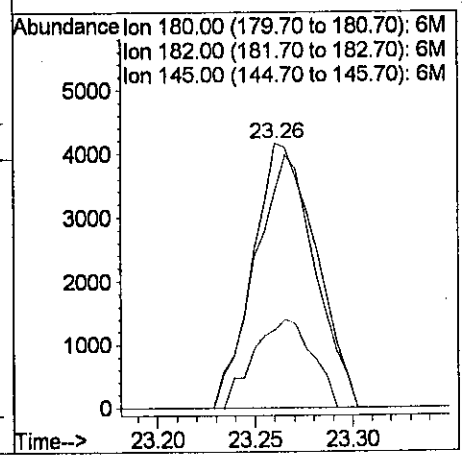




#87
1,2,3-Trichlorobenzene
Concen: 0.55 ug/L
RT: 23.26 min Scan# 4205
Delta R.T. -0.00 min
Lab File: 6M25868.D
Acq: 22 May 2001 21:44

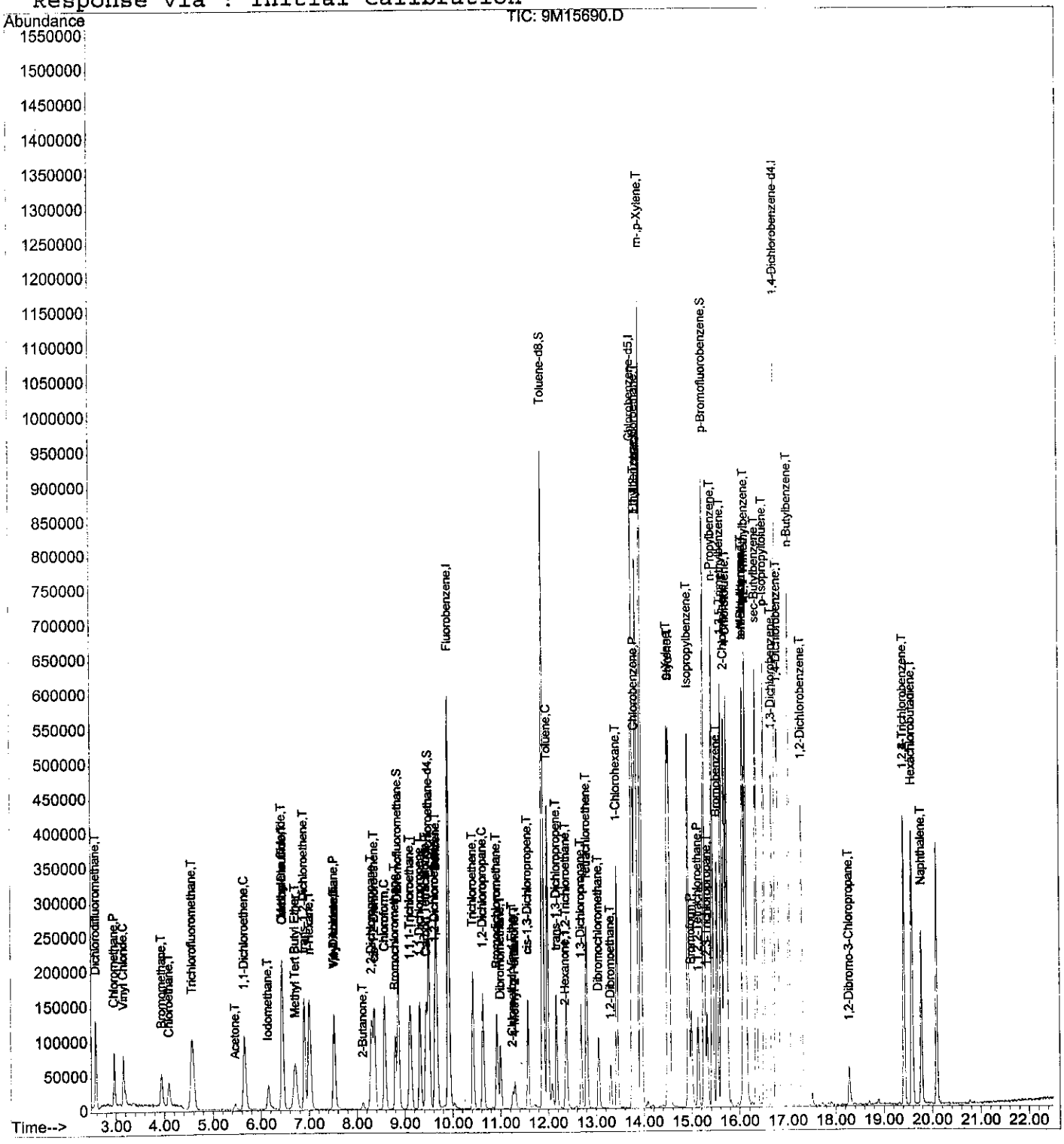
Tgt Ion:180 Resp: 9268

Ion	Ratio	Lower	Upper
180	100		
182	92.2	76.3	114.5
145	31.2	28.8	43.2



Data File : d:\HPCHEM\1\DATA\051801\9M15690.D Vial: 5
Acq On : 18 May 2001 11:31 Operator: MES
Sample : WG97659-04 20PPB LCS M8260 SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 11:53 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



9M15690.D 8260SOIL.M Fri May 18 11:53:55 2001 HPMS_9 Page 4

Data File : d:\HPCHEM\1\DATA\051801\9M15690.D Vial: 5
Acq On : 18 May 2001 11:31 Operator: MES
Sample : WG97659-04 20PPB LCS M8260 SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 11:53 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	697503	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	592647	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	411569	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	207828	48.03	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%			
33) 1,2-Dichloroethane-d4	9.51	65	265586	50.64	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.28%			
45) Toluene-d8	11.89	98	844631	47.22	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 94.44%			
66) p-Bromofluorobenzene	15.26	95	404717	47.51	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 95.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.59	85	144744	16.91	ug/kg	97
3) Chloromethane	2.97	50	86426	21.16	ug/kg	95
4) Vinyl Chloride	3.16	62	69569	19.63	ug/kg	99
5) Bromomethane	3.94	94	49560	24.44	ug/kg	95
6) Chloroethane	4.10	64	42831	21.89	ug/kg	92
7) Trichlorofluoromethane	4.58	101	210923	19.73	ug/kg	98
11) Acetone	5.46	43	17717	15.52	ug/kg	96
12) 1,1-Dichloroethene	5.66	96	69264	18.99	ug/kg	87
14) Iodomethane	6.15	142	63119	26.78	ug/kg	90
15) Methylene Chloride	6.44	84	80879	21.00	ug/kg	88
16) Carbon Disulfide	6.46	76	228458	17.36	ug/kg	99
18) Methyl Tert Butyl Ether	6.71	73	132595	17.28	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	85439	20.62	ug/kg	88
20) n-Hexane	7.02	57	131108	21.24	ug/kg	98
21) Vinyl Acetate	7.52	43	58877	14.27	ug/kg#	89
22) 1,1-Dichloroethane	7.52	63	178752	22.32	ug/kg	99
23) 2-Butanone	8.12	43	18151	17.61	ug/kg#	89
24) 2,2-Dichloropropane	8.31	77	157029	20.47	ug/kg	96
25) cis-1,2-Dichloroethene	8.37	96	78923	20.15	ug/kg	86
26) Chloroform	8.58	83	184929	22.14	ug/kg	99
27) Bromochloromethane	8.80	128	34190	21.06	ug/kg	88
29) 1,1,1-Trichloroethane	9.11	97	182672	20.81	ug/kg	90
31) 1,1-Dichloropropene	9.32	75	106281	18.06	ug/kg	94
32) Carbon Tetrachloride	9.46	117	167323	22.13	ug/kg	99
34) 1,2-Dichloroethane	9.63	62	136116	21.38	ug/kg#	99
35) Benzene	9.66	78	333788	22.27	ug/kg	98
36) Trichloroethene	10.43	130	81287	20.95	ug/kg	97

(#) = qualifier out of range (m) = manual integration
9M15690.D 8260SOIL.M Fri May 18 11:53:49 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051801\9M15690.D Vial: 5
Acq On : 18 May 2001 11:31 Operator: MES
Sample : WG97659-04 20PPB LCS M8260 SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 11:53 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,2-Dichloropropane	10.64	63	72416	20.35	ug/kg	89
38)	Bromodichloromethane	10.93	83	124662	21.95	ug/kg	99
39)	Dibromomethane	11.00	93	46346	21.98	ug/kg	91
40)	2-Chloroethyl Vinyl Ether	11.25	63	11343	15.66	ug/kg	95
41)	4-Methyl-2-Pentanone	11.30	58	14327	17.84	ug/kg	90
42)	cis-1,3-Dichloropropene	11.58	75	106024	19.22	ug/kg	98
46)	Toluene	11.99	91	419655	22.00	ug/kg	100
48)	trans-1,3-Dichloropropene	12.17	75	111333	17.85	ug/kg	94
49)	1,1,2-Trichloroethane	12.39	97	62549	18.72	ug/kg	99
50)	2-Hexanone	12.35	43	31524	14.66	ug/kg#	78
51)	1,3-Dichloropropane	12.68	76	100568	17.70	ug/kg	91
52)	Tetrachloroethene	12.81	164	77768	19.03	ug/kg	93
53)	Dibromochloromethane	13.05	129	76344	18.06	ug/kg	97
54)	1,2-Dibromoethane	13.31	107	52731	17.38	ug/kg	99
55)	1-Chlorohexane	13.44	91	121685	17.97	ug/kg#	80
56)	Chlorobenzene	13.82	112	272532	20.65	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.85	131	89518	18.99	ug/kg	99
58)	Ethylbenzene	13.86	106	157937	21.99	ug/kg	97
59)	m-,p-Xylene	13.95	106	422937	47.70	ug/kg	97
60)	o-Xylene	14.50	106	182225	22.22	ug/kg	96
61)	Styrene	14.54	104	303194	21.52	ug/kg	90
62)	Bromoform	15.00	173	52589	19.04	ug/kg	99
63)	Isopropylbenzene	14.94	105	471489	20.11	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.14	83	83723	17.53	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	27280	18.23	ug/kg	95
69)	n-Propylbenzene	15.44	91	735889	20.83	ug/kg	99
70)	Bromobenzene	15.54	156	119165	19.46	ug/kg	92
71)	1,3,5-Trimethylbenzene	15.63	105	472627	20.34	ug/kg	99
72)	2-Chlorotoluene	15.69	91	448560	20.48	ug/kg	99
73)	4-Chlorotoluene	15.74	91	480622	22.68	ug/kg	94
74)	a-Methylstyrene	16.09	118	7946	4.55	ug/kg#	1
75)	tert-Butylbenzene	16.08	119	457043	18.56	ug/kg#	76
76)	1,2,4-Trimethylbenzene	16.14	105	517539	21.45	ug/kg	98
77)	sec-Butylbenzene	16.36	105	604142	20.06	ug/kg	99
78)	p-Isopropyltoluene	16.52	119	501468	19.15	ug/kg	100
79)	1,3-Dichlorobenzene	16.69	146	237869	20.12	ug/kg	96
80)	1,4-Dichlorobenzene	16.82	146	248516	19.91	ug/kg	94
81)	n-Butylbenzene	17.04	91	569548	22.94	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	212190	20.35	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.28	157	16578	18.06	ug/kg	87
84)	1,2,4-Trichlorobenzene	19.42	180	154066	19.42	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15690.D 8260SOIL.M Fri May 18 11:53:50 2001 HPMS_9 Page 2

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Data File : d:\HPCHEM\1\DATA\051801\9M15690.D Vial: 5
Acq On : 18 May 2001 11:31 Operator: MES
Sample : WG97659-04 20PPB LCS M8260 SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 18 11:53 2001 Quant Results File: 8260SOIL.RES

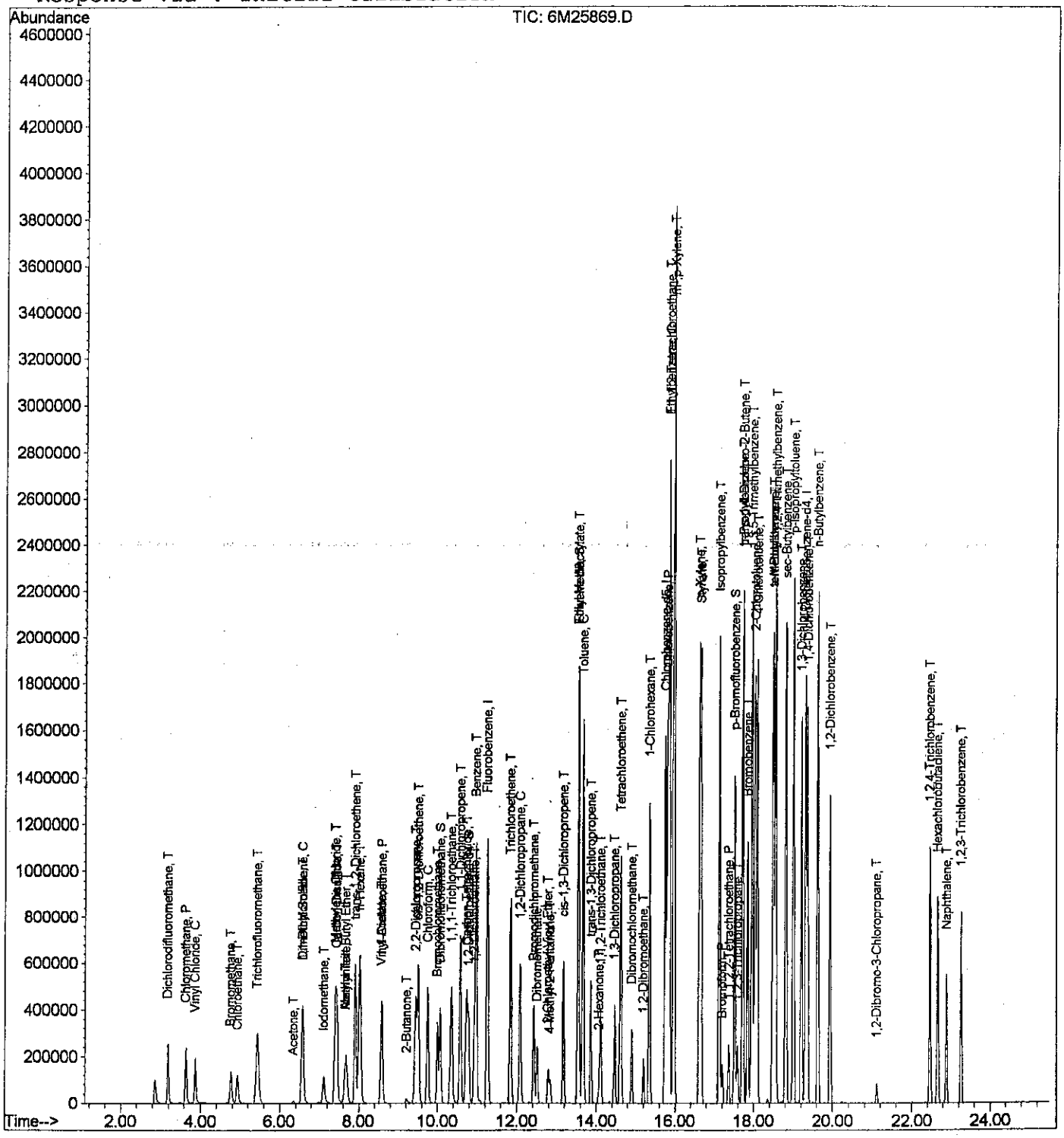
Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85)	Hexachlorobutadiene	19.58	225	119187	19.85	ug/kg	96
86)	Naphthalene	19.78	128	233839	17.86	ug/kg	100
87)	1,2,3-Trichlorobenzene	19.42	180	154066	19.42	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15690.D 8260SOIL.M Fri May 18 11:53:51 2001 HPMS_9 Page 3

Data File : C:\HPCHEM\1\DATA\052201\6M25869.D Vial: 5
Acq On : 22 May 2001 22:16 Operator: CMS
Sample : WG97946-04 20PPB LCS Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:38 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\6M25869.D Vial: 5
Acq On : 22 May 2001 22:16 Operator: CMS
Sample : WG97946-04 20PPB LCS Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:38 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1587286	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1337619	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	723729	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	418404	23.98	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.92%				
33) 1,2-Dichloroethane-d4	10.80	65	336687	23.15	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.60%				
45) Toluene-d8	13.55	98	1930349	24.88	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.52%				
66) p-Bromofluorobenzene	17.52	95	710889	25.25	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	378562	13.43	ug/L		97
3) Chloromethane	3.64	50	376926	15.71	ug/L		100
4) Vinyl Chloride	3.87	62	278980	16.96	ug/L		99
5) Bromomethane	4.77	94	162575	16.67	ug/L		98
6) Chloroethane	4.93	64	192018	16.84	ug/L		100
7) Trichlorofluoromethane	5.44	101	643053	20.19	ug/L		99
11) Acetone	6.34	43	26273	17.03	ug/L		98
12) 1,1-Dichloroethene	6.58	96	318056	21.83	ug/L		93
13) Dimethyl Sulfide	6.58	62	45220	3.06	ug/L	#	1
14) Iodomethane	7.11	142	264853	21.90	ug/L		93
15) Methylene Chloride	7.40	84	308238	19.55	ug/L		86
16) Carbon Disulfide	7.45	76	880924	14.42	ug/L		99
17) Acrylonitrile	7.68	53	5862	4.80	ug/L	#	12
18) Methyl Tert Butyl Ether	7.68	73	481700	22.75	ug/L		96
19) trans-1,2-Dichloroethene	7.91	96	367585	21.63	ug/L		92
20) n-Hexane	8.03	57	640545	21.45	ug/L		98
21) Vinyl Acetate	8.56	43	205967	14.41	ug/L		98
22) 1,1-Dichloroethane	8.58	63	679660	21.03	ug/L		98
23) 2-Butanone	9.22	43	44354	21.41	ug/L		96
24) 2,2-Dichloropropane	9.45	77	576108	20.47	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	359803	21.70	ug/L		91
26) Chloroform	9.76	83	623223	20.57	ug/L		99
27) Bromochloromethane	10.00	128	140952	21.67	ug/L		97
29) 1,1,1-Trichloroethane	10.36	97	621601	20.12	ug/L		92
31) 1,1-Dichloropropene	10.58	75	533753	19.62	ug/L		96
32) Carbon Tetrachloride	10.75	117	578174	21.05	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25869.D 8260WTR.M Thu May 24 15:38:29 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052201\6M25869.D Vial: 5
Acq On : 22 May 2001 22:16 Operator: CMS
Sample : WG97946-04 20PPB LCS Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:38 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	1,2-Dichloroethane	10.93	62	363094	19.80	ug/L	#	75
35)	Benzene	10.98	78	1499298	21.36	ug/L		98
36)	Trichloroethene	11.85	130	468031	21.05	ug/L		99
37)	1,2-Dichloropropane	12.09	63	334928	20.07	ug/L		96
38)	Bromodichloromethane	12.42	83	400241	21.19	ug/L		99
39)	Dibromomethane	12.51	93	125662	21.64	ug/L		95
40)	2-Chloroethyl Vinyl Ether	12.79	63	83307	18.06	ug/L		98
41)	4-Methyl-2-Pentanone	12.84	58	44828	18.58	ug/L		94
42)	cis-1,3-Dichloropropene	13.17	75	460630	22.99	ug/L		98
46)	Toluene	13.66	91	1814684	21.86	ug/L		97
47)	Ethyl Methacrylate	13.55	69	3840	0.38	ug/L	#	1
48)	trans-1,3-Dichloropropene	13.87	75	365063	22.48	ug/L		98
49)	1,1,2-Trichloroethane	14.12	97	180561	21.31	ug/L		100
50)	2-Hexanone	14.07	43	73696	18.12	ug/L		99
51)	1,3-Dichloropropane	14.48	76	325286	21.13	ug/L		96
52)	Tetrachloroethene	14.62	164	382535	21.32	ug/L		96
53)	Dibromochloromethane	14.91	129	258979	21.42	ug/L		98
54)	1,2-Dibromoethane	15.20	107	186886	21.69	ug/L		99
55)	1-Chlorohexane	15.36	91	607055	21.71	ug/L		94
56)	Chlorobenzene	15.81	112	1242323	20.03	ug/L		95
57)	1,1,1,2-Tetrachloroethane	15.85	131	373943	21.70	ug/L		97
58)	Ethylbenzene	15.86	106	737214	20.44	ug/L		98
59)	m-,p-Xylene	15.97	106	1845580	41.61	ug/L		95
60)	o-Xylene	16.62	106	864439	21.45	ug/L		99
61)	Styrene	16.66	104	1392382	21.57	ug/L		95
62)	Bromoform	17.21	173	120560	18.64	ug/L		98
63)	Isopropylbenzene	17.13	105	2243543	19.85	ug/L		98
65)	1,1,2,2-Tetrachloroethane	17.37	83	181791	20.63	ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	61129	21.33	ug/L	#	93
68)	trans-1,4-Dichloro-2-Buten	17.73	53	15556	8.22	ug/L	#	1
69)	n-Propylbenzene	17.73	91	2692854	21.57	ug/L		99
70)	Bromobenzene	17.85	156	489456	20.73	ug/L		96
71)	1,3,5-Trimethylbenzene	17.96	105	2017028	21.87	ug/L		99
72)	2-Chlorotoluene	18.03	91	1605065	20.64	ug/L		98
73)	4-Chlorotoluene	18.09	91	1607131	20.66	ug/L		98
74)	a-Methylstyrene	18.49	118	27694	0.63	ug/L	#	1
75)	tert-Butylbenzene	18.49	119	1802653	20.05	ug/L		100
76)	1,2,4-Trimethylbenzene	18.56	105	2068813	20.77	ug/L		99
77)	sec-Butylbenzene	18.82	105	2455963	20.53	ug/L		98
78)	p-Isopropyltoluene	19.01	119	2187925	20.18	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	1028772	20.30	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M25869.D 8260WTR.M Thu May 24 15:38:33 2001 Page 2

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Data File : C:\HPCHEM\1\DATA\052201\6M25869.D Vial: 5
Acq On : 22 May 2001 22:16 Operator: CMS
Sample : WG97946-04 20PPB LCS Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:38 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80) 1,4-Dichlorobenzene	19.36	146	1005074	19.43	ug/L		99
81) n-Butylbenzene	19.63	91	1876430	20.51	ug/L		99
82) 1,2-Dichlorobenzene	19.94	146	822060	20.03	ug/L		100
83) 1,2-Dibromo-3-Chloropropan	21.11	157	33125	20.16	ug/L		96
84) 1,2,4-Trichlorobenzene	22.47	180	504971	21.06	ug/L		97
85) Hexachlorobutadiene	22.67	225	255016	20.08	ug/L	#	26
86) Naphthalene	22.89	128	630303	22.98	ug/L	#	90
87) 1,2,3-Trichlorobenzene	23.27	180	379474	21.01	ug/L		95

(#) = qualifier out of range (m) = manual integration
6M25869.D 8260WTR.M Thu May 24 15:38:34 2001 Page 3

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Method 5035 Preservation and Extraction Log
VOA Laboratory

Client	Sample #	Fraction ID	Date Collected	Time Collected (Time Zone)	Date Preserved	Time Preserved (EST)	Sample Weight (g)	Volume of Water	Volume of Methanol	Analyst Initials	Comments
CCI-630	L0105404-01	A	5-17-01	1500	5-18-01	1425	5.85	5ml	—	CMS	NoNaHSO4
	-02	A		1505		1427	5.85		—		
	-03MS	A		1505		1429	5.18		—		⊙
	-04MSD	A		1505		1432	6.09		—		⊙
	-05	A		1520		1434	5.77		—		
	-06	A		1530		1436	5.91		—		
	-07	A		1540		1438	5.92		—		
	-08	A		1550		1440	5.90		—		
	-09	A		1600		1442	5.78		—		
	-10	A		0000		1444	6.20		—		▲
	BATCH BLK	A	NA	NA		1447	5.01		—		
	L0105404-01	B	5.17.01	1500	5.18.01	1600	6.32	5mL	—	MES	NA / no NaHSO4
ITCORPTX	L0105438-01	A	5.18.01	0845	5.21.01	1140	5.91	5mL	NA	MES	NA / NO NaHSO4
ITCORPTX	-02	A		0900		1150	5.82				* arm not on
	-03	A		0900		1152	5.65				NA
	-04	A		0915		1154	5.38				* arm not on
	-05	A		0930		1156	4.81				* arm not on
	-06	A		0945		1200	4.31				* arm not on
BATCH BLK	BATCH BLK	A	NA	NA		1202	5.00				NA
ITCORPTX	L0105438-04	B	5.18.01	0915	5.21.01	0215	5.73	5mL	NA	MES	* arm not on

Comments: ⊙ These fractions are from the same batch of encores (only 3 encores sent) Supervisor Review: _____
▲ One encore bag had ice water in it (fraction C). Login notified TSR/client.

* = improperly sealed cap
• = improperly sealed plunger
▲ = hydrocarbon odor
★ = samples preserved out of hold (past 48 hours from time of collection)
EF = sample effervesced

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	9M15551.D	1.	WG97218-01 50NG BFB SV7908	SOLID,1 ✓	11 May 2001 09:35
2	2	9M15552.D	1.	WG97218-02 50PPB STD M8260 SV7907	SOLID,1 RUN CRV	11 May 2001 10:07
3	3	9M15553.D	1.	WG97218-03 VBLK0511 M8260	SOLID,1 ✓	11 May 2001 10:40
4	4	9M15554.D	1.	WG97218-03 VBLK0511 M8260	SOLID,1 ✓	11 May 2001 11:11
5	1	9M15555.D	1.	WG97218-02 1PPB SOIL STD M8260 SV7917	SOLID,1 RR	11 May 2001 11:43
6	2	9M15556.D	1.	WG97218-02 1PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 12:15
7	2	9M15557.D	1.	WG97218-03 2PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 12:46
8	3	9M15558.D	1.	WG97218-04 5PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 13:18
9	4	9M15559.D	1.	WG97218-05 10PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 13:50
10	5	9M15560.D	1.	WG97218-06 20PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 14:22
11	6	9M15561.D	1.	WG97218-07 50PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 14:55
12	7	9M15562.D	1.	WG97218-08 100PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 15:27
13	8	9M15563.D	1.	WG97218-09 200PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 15:59
14	9	9M15564.D	1.	WG97218 SYSTEM BLANK	SOLID,1 ✓	11 May 2001 16:30
15	10	9M15565.D	1.	WG97218 SYSTEM BLANK	SOLID,1 ✓	11 May 2001 17:02
16	11	9M15566.D	1.	WG97218-10 20PPB ALT SOURCE SV7911	SOLID,1 RR	11 May 2001 17:34
17	12	9M15567.D	1.	WG97218-10 20PPB ALT SOURCE SV7911	SOLID,1 ✓	11 May 2001 18:26
18	1	9M15568.D	1.	WG97269-01 BFB 50NG	WATER,1 SV7908 ✓	11 May 2001 19:10
19	2	9M15569.D	1.	WG97269-02 CCV 50PPB 5G/5ML	SOLID,1 SV7917 ✓	11 May 2001 19:55
20	3	9M15570.D	1.	WG97269-03 VBLK 0511	SOLID,1 RR C10	11 May 2001 20:34
21	4	9M15571.D	1.	WG97269-03 VBLK 0511	SOLID,1 ✓	11 May 2001 21:06
22	5	9M15572.D	1.	WG97269-04 LCS 20PPB	SOLID,1 ✓	11 May 2001 21:37
23	6	9M15573.D	1.	SYSTEM BLANK	SOLID,1 ✓	11 May 2001 22:10
24	7	9M15574.D	0.9	L0105181-01 A 826-AF98-SPE 5.81G/5ML	SOLID,0.9 ✓	11 May 2001 22:44
25	8	9M15575.D	1.	L0105181-01 MS A 826-AF98-SPE 5.81G/5ML	SOLID,1 SV7911 ✓	11 May 2001 23:18
26	9	9M15576.D	1.	L0105181-01 MSD A 826-AF98-SPE 5.81G/5M	SOLID,1 SV7911 ✓	11 May 2001 23:52
27	10	9M15577.D	1.	L0105181-02 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 00:25
28	11	9M15578.D	1.	L0105181-03 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 00:59
29	12	9M15579.D	1.	L0105181-04 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 01:34
30	13	9M15580.D	1.	L0105181-05 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 02:08
31	14	9M15581.D	1.	L0105181-06 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 02:42
32	15	9M15582.D	1.	L0105181-07 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 03:16
33	16	9M15583.D	1.	L0105181-08 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 03:51
34	17	9M15584.D	1.	L0105181-09 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 04:25
35	18	9M15585.D	1.	L0105181-10 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 05:00
36	19	9M15586.D	1.	L0105181-11 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 05:34
37	20	9M15587.D	1.	L0105181-12 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 06:09

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
38	21	9M15588.D	1.	L0105181-13 A 826-AF98-SPE 5.81G/5ML	SOLID,1	12 May 2001 06:43

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	9M15685.D	1.	WG97659-01 50NG BFB SV7908	SOLID,1	18 May 2001 08:27
2	2	9M15686.D	1.	WG97659-01 50NG BFB SV7908	SOLID,1	18 May 2001 08:57
3	2	9M15687.D	1.	WG97659-02 50PPB STD M8260 SV7917	SOLID,1	18 May 2001 09:40
4	3	9M15688.D	1.	WG97659-03 VBLK0518 M8260	SOLID,1	18 May 2001 10:14
5	4	9M15689.D	1.	WG97659-03 VBLK0518 M8260	SOLID,1	18 May 2001 10:45
6	5	9M15690.D	1.	WG97659-04 20PPB LCS M8260 SV7911	SOLID,1	18 May 2001 11:31
7	6	9M15691.D	1.	WG97659 SYSTEM BLANK	SOLID,1	18 May 2001 12:02
8	7	9M15692.D	1.	L0105381-02 A A1 826-AF98 FEW	SOLID,1	18 May 2001 12:36
9	8	9M15693.D	1.	L0105381-02 MS A A1 826-AF98 FEW	SOLID,1	18 May 2001 13:09
10	9	9M15694.D	1.	L0105381-02 MSD A A1 826-AF98 FEW	SOLID,1	18 May 2001 13:42
11	10	9M15695.D	1.	SYSTEM BLANK	SOLID,1	18 May 2001 14:14
12	11	9M15696.D	1.	L0105381-03 A A1 826-AF98 FEW	SOLID,1	18 May 2001 14:45
13	12	9M15697.D	1.	L0105404-02 A 00 0.8X 630-NAVY-CTO 5.85	SOLID,0.8	18 May 2001 15:49
14	13	9M15698.D	1.	L0105404-01 B 00 0.8X 630-NAVY-CTO 6.32	SOLID,0.8	18 May 2001 16:21
15	14	9M15699.D	1.	L0105404-03 MS A 00 630-NAVY-CTO 5.18G	SOLID,1	18 May 2001 16:52
16	15	9M15700.D	1.	L0105404-04 MSD A 00 0.8X 630-NAVY-CTO	SOLID,0.8	18 May 2001 17:24
17	16	9M15701.D	1.	L0105404-05 A 00 0.9X 630-NAVY-CTO 5.77	SOLID,0.9	18 May 2001 17:56
18	17	9M15702.D	1.	L0105404-06 A 00 0.8X 630-NAVY-CTO 5.91	SOLID,0.8	18 May 2001 18:28
19	18	9M15703.D	1.	L0105404-07 A 00 0.8X 630-NAVY-CTO 5.92	SOLID,0.8	18 May 2001 18:59
20	19	9M15704.D	1.	L0105404-08 A 00 0.8X 630-NAVY-CTO 5.90	SOLID,0.8	18 May 2001 19:31
21	20	9M15705.D	1.	L0105404-09 A 00 0.9X 630-NAVY-CTO 5.78	SOLID,0.9	18 May 2001 20:02
22	21	9M15706.D	1.	L0105404-10 A 00 0.8X 630-NAVY-CTO 6.20	SOLID,0.8	18 May 2001 20:34
23	22	9M15707.D	1.		SOLID,0.8	18 May 2001 21:06

Directory: c:\hpchem\1\data\052101

Analyst: CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m25824.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 11:40
2	2	6m25825.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 12:10
3	3	6m25826.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 12:39
4	4	6m25827.d	1.	✓BFB 50NG STD SV7908	WATER,1	21 May 01 13:24
5	5	6m25828.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 13:55
6	6	6m25829.d	1.	✓WG97810-01 BFB 50NG STD	WATER,1 SV7908	21 May 01 14:46
7	7	6m25830.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 15:16
8	8	6m25831.d	1.	✓WG97810-02 0.25 PPB STD	WATER,1 SV7940	21 May 01 16:14
9	9	6m25832.d	1.	✓WG97810-03 0.5 PPB STD	WATER,1 SV7940	21 May 01 16:46
10	10	6m25833.d	1.	✓WG97810-04 1 PPB STD	WATER,1 SV7940	21 May 01 17:19
11	11	6m25834.d	1.	✓WG97810-05 2 PPB STD	WATER,1 SV7940	21 May 01 18:02
12	12	6m25835.d	1.	✓WG97810-06 5 PPB STD	WATER,1 SV7940	21 May 01 18:35
13	13	6m25836.d	1.	✓WG97810-07 20 PPB STD	WATER,1 SV7940	21 May 01 19:07
14	14	6m25837.d	1.	✓WG97810-08 50 PPB STD	WATER,1 SV7940	21 May 01 19:39
15	15	6m25838.d	1.	✓WG97810-09 100 PPB STD	WATER,1 SV7940	21 May 01 20:12
16	16	6m25839.d	1.	✓WG97810-10 200 PPB STD	WATER,1 SV7940	21 May 01 20:46
17	17	6m25840.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 21:18
18	18	6m25841.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 22:30
19	19	6m25842.d	1.	RR WG97810-11 20PPB ALT SOURCE	WATER,1 SV7925	21 May 01 23:02
20	20	6m25843.d	1.	✓WG97810-11 20PPB ALT SOURCE	WATER,1 SV7925	21 May 01 23:58

WG97810

No reanalysis required.

Directory: c:\hpchem\1\data\052201

SS: SV79-18

Analyst: CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m25844.d	1.	WG97857-01 BFB 50NG STD	1,1 SV7908	22 May 01 07:22
2	2	6m25845.d	1.	WG97857-02 50 PPB STD 8260	1,1 SV7940	22 May 01 07:53
3	3	6m25846.d	1.	WG97857-03 VBLK0522 BLANK 8260	1,1	22 May 01 08:37
4	4	6m25847.d	1.	WG97857-04 20 PPB LCS STD 8260	1,1 SV7925	22 May 01 09:10
5	5	6m25848.d	1.	L0105401-02 A 826-AF98-SPE 00	1,1	22 May 01 09:54
6	6	6m25849.d	1.	L0105401-01 A 826-AF98-SPE 00	1,1	22 May 01 10:28
7	7	6m25850.d	10.	L0105260-11 10X TCLP-BETX 00	7,10 (5/14/01@1545)	22 May 01 11:01
8	8	6m25851.d	1.	L0105260-12 A 826-AF98 00	1,1	22 May 01 12:05
9	9	6m25852.d	1.	L0105402-04 A 826-AF98 00	1,1	22 May 01 12:39
10	10	6m25853.d	1.	WG97857-05 L0105260-01 A 826-AF98 00	1,1	22 May 01 13:12
11	11	6m25854.d	1.	WG97857-06 L0105260-02 MS A 826-AF98 00	1,1 SV7925	22 May 01 13:46
12	12	6m25855.d	1.	WG97857-07 L0105260-03 MSD A 826-AF98 0	1,1 SV7925	22 May 01 14:20
13	13	6m25856.d	1.	L0105260-04 A 826-AF98 00	1,1	22 May 01 14:53
14	14	6m25857.d	1.	L0105260-05 A 826-AF98 00	1,1	22 May 01 15:27
15	15	6m25858.d	1.	L0105260-06 A 826-AF98 00	1,1	22 May 01 16:01
16	16	6m25859.d	1.	RR10X L0105260-07 A 826-AF98 00	1,1	22 May 01 16:34
17	17	6m25860.d	1.	L0105260-08 A 826-AF98 00	1,1	22 May 01 17:07
18	18	6m25861.d	1.	RR50X L0105402-01 A 826-AF98 00	1,1	22 May 01 17:40
19	19	6m25862.d	1.	RR50X L0105402-02 A 826-AF98 00	1,1	22 May 01 18:13
20	20	6m25863.d	1.	SYSTEM BLANK	1,1	22 May 01 18:46
21	21	6m25864.d	1.	SYSTEM BLANK	1,1	22 May 01 19:19
22	1	6m25865.d	1.	WG97946-01 50NG BFB STD	1,1 SV7908	22 May 01 19:50
23	2	6m25866.d	1.	RE WG97946-02 50PPB STD	1,1 SV7940	22 May 01 20:20
24	3	6m25867.d	1.	WG97946-02 50PPB STD	1,1 SV7940	22 May 01 21:03
25	4	6m25868.d	1.	WG97946-03 VBLK 0522	1,1	22 May 01 21:44
26	5	6m25869.d	1.	WG97946-04 20PPB LCS	1,1 SV7925	22 May 01 22:16
27	6	6m25870.d	10.	L0105260-07 B 10X 826-AF98 D1	1,10 5ML/50ML	22 May 01 23:13
28	7	6m25871.d	1.	PH<2 L0105404-11 A 826-SPE-VO 00	1,1	22 May 01 23:46
29	8	6m25872.d	1.	L0105404-12 A 826-SPE-VO 00	1,1	23 May 01 00:19
30	9	6m25873.d	1.	L0105319-16 B 826-LOWRY 00	1,1	23 May 01 00:52
31	10	6m25874.d	1.	L0105319-17 B 826-LOWRY 00	1,1	23 May 01 01:24
32	11	6m25875.d	1.	L0105319-11 B 826-LOWRY 00	1,1	23 May 01 01:57
33	12	6m25876.d	1.	L0105319-12 MS B 826-LOWRY 00	1,1 SV7925	23 May 01 02:30
34	13	6m25877.d	1.	L0105319-13 MSD B 826-LOWRY 00	1,1 SV7925	23 May 01 03:02
35	14	6m25878.d	1.	L0105402-01 50X D1 B 826-AF98 00	1,50 1ML/50ML	23 May 01 03:35
36	15	6m25879.d	1.	L0105402-02 50X D1 B 826-AF98 00	1,50 1ML/50ML	23 May 01 04:07
37	16	6m25880.d	1.	SYSTEM BLANK	1,1	23 May 01 04:40
38	17	6m25881.d	1.	PH<2 L0105319-14 B 826-LOWRY 00	1,1	23 May 01 05:13
39	18	6m25882.d	1.	L0105319-15 B 826-LOWRY 00	1,1	23 May 01 05:45
40	19	6m25883.d	1.	L0105319-09 B 826-LOWRY 00	1,1	23 May 01 06:18
41	20	6m25884.d	1.	L0105319-10 B 826-LOWRY 00	1,1	23 May 01 06:50
42	21	6m25885.d	1.	RR10X L0105319-08 B 826-LOWRY 00	1,1	23 May 01 07:22
43		6m25886.d	1.			

RR all except L0105402's.

WG97857 reanalysis

L0105260-07 @ 10X: o-Xylene: 6M25870

L0105402-01 @ 50X: Ben., Tol., o-Xyl. SSS; 6M25878

-02 @ 50X: Ben., Tol., m+p-Xyl., o-Xyl., 1,2,4-TMB, SSS: 6M25879

WG97946 reanalysis

L0105319-08 @ 10X: TCE

2.2 Semivolatiles

2.2.1 Semivolatiles GC MS Data (8270)

REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: Sample 02 was chosen by the client for MS/MSD analysis. All acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: mdc REVIEWED: Stephanie L Lupe DATE: 6/1/01

499

Run Date: 5/21/01

Analyst: MDC

Instrument: HPMS7

Workorders:	Due Date:	Priority:
05-318-02,05	5/22	PFP
05-318-11,12	5/23	PFP
05-328	5/22	PFF

II = Checked & OK
NA = Not Applicable

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

Comments: done
05-328/LVL2
Need case narr.

V1B3P115/WF97637 re-ext. req.

V1B3P119/WF97639 re-ext. req.

Primary Reviewer: MDC 5/22/01

Secondary Reviewer: [signature] 5/23/01

Supervisor Review: [signature]

500

Semi-Volatile GCMS Checklist

Run Date: 5/22/01

Analyst: RvdC

Instrument: HPMS7

Workorders:	Due Date:	Priority:
05-345	5/23	M
05-404	5/~~23~~25	PFP
05-378	5/23	PFP
W 69765	5/25	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	NA
	Linear or quadriatic regression	NA
	Alt Source Check	NA
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

Π = Checked & OK

NA = Not Applicable

Comments:

05-345-02 has a RE in bold

05-318-06 & 10 are dilutions - not uploaded due to non-mult request by client

05-378, 05-402, 05-388 } water samples already sent for rest. No data not uploaded

Primary Reviewer: RvdC 5/23/01

Secondary Reviewer: 5/23/01

Supervisor Review: 5/23/01

501

Semi-Volatile GCMS Checklist

Run Date: 5/22/01

Analyst: mdc

Instrument: HPMS4

Workorders:	Due Date:	Priority:
05-262	5/25	m
05-279	5/21	m
05-435	5/23	PFP
05-409	5/23	PFP
05-410	5/23	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

✓ = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: mdc 5/23/01

Secondary Reviewer:

Supervisor Review: 5/23/01

502

Semi-Volatile GCMS Checklist

Run Date: 5/23/01

Analyst: RAC

Instrument: HPMS7

Workorders:		Due Date:	Priority:
05-388	soils	5/24	PFP
05-404	soils	5/25	PFP
05-413	soils	5/25	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	NA
	Linear or quadriatic regression	NA
	Alt Source Check	NA
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

05-388-02 Needs 10
↓ -05 Needs RE
IS #5 l

05-413-01 Needs
RE @ 10x

Primary Reviewer: RAC

Secondary Reviewer: 5/24/01

Supervisor Review: 5/24/01

Semi-Volatile GCMS Checklist

Run Date: 5/24/01

Analyst: mdc

Instrument: HP5973

Workorders:	Due Date:	Priority:
05-404	5/25	PFP
05-397	5/29	ri

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	✓
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: 5/24/01

Secondary Reviewer:

Supervisor Review: 5/24/01

Semi-Volatile GCMS Checklist

Run Date: 5/25/01

Analyst: mlk

Instrument: HPMS4

Workorders:	Due Date:	Priority:
05-404	5/25	P1P
05-262	5/25	M
05-377	5/28	—
05-341	5/28	M
05-297	5/29	FF
05-422	5/29	M
05-291	5/22	M

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	
	Linear or quadriatic regression	
	Alt Source Check	
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	✓
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

05-404 reported 6/25

Primary Reviewer: mlk 5/29/01

Secondary Reviewer: [illegible] 5/29/01

Supervisor Review: [illegible] 5/29/01

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SEMIVOLATILES GC/MS DATA

Login Number: L0105404

A. QC Summary

- ✓ Batch QC Summary Forms
- ✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

- _____ Target Compound List Results - See Summary Report
- _____ Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
- ✓ Reconstructed total ion chromatogram (RIC) and quantitation report for each sample.
- _____ Raw spectra and background subtracted mass spectra of target compounds identified.
- _____ Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

- ✓ Initial calibration data summary form.
- ✓ Chromatograms and quantitation reports for initial calibration standards
- ✓ Continuing calibration data summary form
- ✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

- ✓ GC/MS Instrument Performance Check (DFTPP).
- ✓ Blank chromatogram and quantitation report.
- ✓ Laboratory Control Sample chromatogram and quantitation report.
- _____ Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- ✓ Instrument runlogs
- ✓ Extraction Bench Sheets

Checked By: _____ Date: 5/30/01

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2.2.1.1 QC Summary

MATRIX : SOIL
CONCENTRATION UNITS : ug/kg
PREP WORK GRP : WG97602

BLK FLNM : 4M8476
LCS FLNM : 4M8477

SMPL FLNM : 4M8538
MS FLNM : 4M8539
MSD FLNM : 4M8540

		CONCENTRATION , ug / kg						PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	RPD
PYRIDINE	165	1667	ND	0.0	ND	603	624	NS	0.0	NS	36.2	37.4	25	150	3	40		L			
N-NITROSODIMETHYLAMINE	165	1667	ND	946.6	ND	856.5	767.7	NS	56.8	NS	51.4	47.3	40	106	8	40					
ANILINE	165	1667	ND	565.1	ND	733.3	687.8	NS	33.9	NS	44.0	41.3	25	150	6	40					
PHENOL	165	1667	ND	1006.6	ND	906.2	832.4	NS	60.4	NS	54.4	49.9	18	90	8	40					
BIS(2-CHLOROETHYL)ETHER	165	1667	ND	978.2	ND	869.9	803.6	NS	58.7	NS	52.2	48.2	19	88	8	40					
2-CHLOROPHENOL	165	1667	ND	939.7	ND	851.7	790.8	NS	56.4	NS	51.1	47.4	20	84	7	40					
1,3-DICHLOROBENZENE	165	1667	ND	914.5	ND	827.1	758.0	NS	54.9	NS	49.6	45.5	20	79	9	40					
1,4-DICHLOROBENZENE	165	1667	ND	910.9	ND	826.7	764.8	NS	54.6	NS	49.6	45.9	20	81	8	40					
BENZYL ALCOHOL	165	1667	ND	977.4	ND	873.5	818.6	NS	58.6	NS	52.4	49.1	11	94	6	40					
1,2-DICHLOROBENZENE	165	1667	ND	925.0	ND	834.7	777.1	NS	55.5	NS	50.1	46.6	19	83	7	40					
2-METHYLPHENOL	165	1667	ND	968.7	ND	869.7	807.7	NS	58.1	NS	52.2	48.5	21	90	7	40					
BIS(2-CHLOROISOPROPYL)ETHER	165	1667	ND	1009.4	ND	901.5	825.6	NS	60.6	NS	54.1	49.5	10	92	9	40					
3- & 4-METHYLPHENOL	165	1667	ND	997.0	ND	899.5	822.1	NS	59.8	NS	54.0	49.3	23	91	9	40					
N-NITROSO-DI-N-PROPYLAMINE	165	1667	ND	1041.4	ND	944.4	880.1	NS	62.5	NS	56.7	52.8	19	93	7	40					
HEXACHLOROETHANE	165	1667	ND	838.5	ND	755.8	697.4	NS	50.3	NS	45.3	41.8	18	85	8	40					
NITROBENZENE	165	1667	ND	967.7	ND	867.1	800.4	NS	58.0	NS	52.0	48.0	20	91	8	40					
ISOPHORONE	165	1667	ND	1099.1	ND	1000.2	944.9	NS	65.9	NS	60.0	56.7	20	102	6	40					
2-NITROPHENOL	165	1667	ND	980.2	ND	865.9	830.9	NS	58.8	NS	51.9	49.8	20	90	4	40					
2,4-DIMETHYLPHENOL	165	1667	ND	1049.8	ND	949.5	886.7	NS	63.0	NS	57.0	53.2	23	98	7	40					
BIS(2-CHLOROETHOXY)METHANE	165	1667	ND	997.7	ND	898.4	837.3	NS	59.8	NS	53.9	50.2	23	96	7	40					
BENZOIC ACID	165	1667	ND	625.4	ND	529.7	403.0	NS	49.5	NS	31.8	24.2	10	95	27	40					
2,4-DICHLOROPHENOL	165	1667	ND	994.3	ND	895.3	832.5	NS	59.6	NS	53.7	49.9	21	93	7	40					
1,2,4-TRICHLOROBENZENE	165	1667	ND	897.1	ND	824.2	762.8	NS	53.8	NS	49.4	45.8	19	87	8	40					
NAPHTHALENE	165	1667	ND	976.6	ND	885.8	825.8	NS	58.6	NS	53.1	49.5	21	89	7	40					
4-CHLOROANILINE	165	1667	ND	799.4	ND	864.7	807.8	NS	48.0	NS	51.9	48.4	10	94	7	40					
HEXACHLOROBUTADIENE	165	1667	ND	971.7	ND	882.3	817.3	NS	58.3	NS	52.9	49.0	18	96	8	40					
4-CHLORO-3-METHYLPHENOL	165	1667	ND	1073.3	ND	1022.0	993.4	NS	64.4	NS	61.3	59.6	26	99	3	40					
2-METHYLNAPHTHALENE	165	1667	ND	986.5	ND	897.9	844.6	NS	59.2	NS	53.9	50.7	21	90	6	40					
HEXACHLOROCYCLOPENTADIENE	165	1667	ND	939.9	ND	872.5	834.2	NS	56.4	NS	52.3	50.0	10	89	4	40					
2,4,6-TRICHLOROPHENOL	165	1667	ND	978.7	ND	952.4	901.3	NS	58.7	NS	57.1	54.1	26	97	6	40					
2,4,5-TRICHLOROPHENOL	165	1667	ND	1003.7	ND	961.9	935.0	NS	60.2	NS	57.7	56.1	27	96	3	40					
2-CHLORONAPHTHALENE	165	1667	ND	945.4	ND	877.8	829.2	NS	56.7	NS	52.7	49.7	23	93	6	40					
2-NITROANILINE	825	1667	ND	966.7	ND	985.7	947.1	NS	58.0	NS	59.1	56.8	27	104	4	40					
DIMETHYLPHTHALATE	165	1667	ND	1025.3	ND	1072.2	1033.0	NS	61.5	NS	64.3	62.0	23	98	4	40					
ACENAPHTHYLENE	165	1667	ND	1042.6	ND	992.3	949.8	NS	62.6	NS	59.5	57.0	25	101	4	40					
2,6-DINITROTOLUENE	165	1667	ND	1049.5	ND	1085.5	1052.3	NS	63.0	NS	65.1	63.1	31	103	3	40					
3-NITROANILINE	825	1667	ND	1212.5	ND	1280.4	1214.0	NS	72.7	NS	76.8	72.8	10	134	5	40					
ACENAPHTHENE	165	1667	ND	1017.8	ND	976.6	948.3	NS	61.1	NS	58.6	56.9	22	100	3	40					
2,4-DINITROPHENOL	825	1667	ND	1127.6	ND	1177.2	1133.3	NS	67.6	NS	70.6	68.0	11	102	4	40					
4-NITROPHENOL	825	1667	ND	1294.8	ND	1202.1	1155.0	NS	77.7	NS	72.1	69.3	30	118	4	40					
DIBENZOFURAN	165	1667	ND	972.1	ND	943.6	908.6	NS	58.3	NS	56.6	54.5	28	96	4	40					
2,4-DINITROTOLUENE	165	1667	ND	1297.7	ND	1304.7	1255.2	NS	77.8	NS	78.3	75.3	41	109	4	40					
DIETHYLPHTHALATE	165	1667	ND	1207.5	ND	1247.3	1194.2	NS	72.4	NS	74.8	71.6	42	108	4	40					
FLUORENE	165	1667	ND	996.6	ND	1014.7	965.3	NS	59.8	NS	60.9	57.9	33	101	5	40					
4-CHLOROPHENYL-PHENYL ETHER	165	1667	ND	941.3	ND	963.4	918.3	NS	56.5	NS	57.8	55.1	29	99	5	40					
4-NITROANILINE	825	1667	ND	1643.6	ND	1633.3	1584.4	NS	98.6	NS	98.0	95.0	34	114	3	40					
1,2-DIPHENYLHYDRAZINE *	165	1667	ND	1020.9	ND	1035.2	1007.5	NS	61.2	NS	62.1	60.4	25	150	3	40					
4,6-DINITRO-2-METHYLPHENOL	825	1667	ND	1363.2	ND	1333.6	1316.9	NS	81.8	NS	80.0	79.0	33	110	1	40					
N-NITROSODIPHENYLAMINE **	165	1667	ND	1190.4	ND	1161.7	1166.9	NS	71.4	NS	70.9	70.0	25	135	1	40					
4-BROMOPHENYL-PHENYL ETHER	165	1667	ND	939.9	ND	946.4	929.1	NS	56.4	NS	56.8	55.7	32	94	2	40					
HEXACHLOROBENZENE	165	1667	ND	1177.0	ND	1152.1	1134.0	NS	70.6	NS	69.1	68.0	39	103	2	40					
PENTACHLOROPHENOL	825	1667	ND	1384.5	ND	1337.9	1298.9	NS	83.1	NS	80.3	77.9	26	114	3	40					
PHENANTHRENE	165	1667	ND	1257.2	ND	1215.6	1209.4	NS	75.4	NS	72.9	72.6	38	111	1	40					
ANTHRACENE	165	1667	ND	1278.3	ND	1256.0	1242.2	NS	76.7	NS	75.5	74.5	44	105	1	40					
CARBAZOLE	165	1667	ND	1975.4	ND	1878.2	1840.3	NS	118.5	NS	112.7	110.4	25	150	2	40					
DI-N-BUTYLPHTHALATE	165	1667	ND	1491.4	ND	1413.3	1381.3	NS	89.5	NS	84.8	82.9	45	116	2	40					
FLUORANTHENE	165	1667	ND	1445.6	ND	1344.8	1317.2	NS	86.7	NS	80.7	79.0	46	114	2	40					
PYRENE	165	1667	ND	1449.3	ND	1364.7	1319.4	NS	86.9	NS	81.9	79.1	41	120	3	40					
BUTYLBENZYLPHTHALATE	165	1667	ND	1509.7	ND	1404.9	1371.5	NS	90.6	NS	84.3	82.3	45	135	2	40					
BENZO(A)ANTHRACENE	165	1667	ND	1480.4	ND	1382.5	1345.3	NS	88.8	NS	82.9	80.7	41	119	3	40					
3,3'-DICHLOROBENZIDINE	330	1667	ND	1685.3	ND	1427.4	1424.1	NS	101.1	NS	85.6	85.4	10	146	0	40					
CHRYSENE	165	1667	ND	1520.2	ND	1434.9	1387.7	NS	91.2	NS	86.1	83.2	44	118	3	40					
BIS(2-ETHYLHEXYL)PHTHALATE	165	1667	ND	1490.0	ND	1398.6	1358.3	NS	89.4	NS	83.9	81.5	48	122	3	40					
DI-N-OCTYLPHTHALATE	165	1667	ND	1447.5	ND	1394.7	1334.7	NS	86.8	NS	83.7	80.1	40	127	4	40					
BENZO[B]FLUORANTHENE	165	1667	ND	1479.2	ND	1366.8	1352.9	NS	88.7	NS	82.0	81.2	34	124	1	40					
BENZO[K]FLUORANTHENE	165	1667	ND	1441.4	ND	1413.4	1317.4	NS	86.5	NS	84.8	79.0	37	124	7	40					
BENZO[A]PYRENE	165	1667	ND	1414.0	ND	1347.7	1304.0	NS	84.8	NS	80.8	78.2	41	115	3	40					
INDENO[1,2,3-CD]PYRENE	165	1667	ND	1582.2	ND	1535.2	1528.8	NS	94.9	NS	92.1	91.7	33	126	0	40					
DIBENZ[A,H]ANTHRACENE	165	1667	ND	2064.2	ND	1981.7	1972.5	NS	123.8	NS	118.9	118.3	31	127	0	40					
BENZO[G,H,I]PERYLENE	165	1667	ND	1478.6	ND	1436.9	1429.0	NS	88.7	NS	86.2	85.7	34	120	1	40					
SURROGATES																					
2-FLUOROPHENOL		100	55.8	55.4	39.1	49.7	45.8	55.8	55.4	39.1	49.7	45.8	25	121							
PHENOL - D5		100	60.2	60.1	40.7	53.3	49.4	60.2	60.1	40.7	53.3	49.4	24	113							
NITROBENZENE - D5		50	30.0	29.8	18.8	26.7	24.9	60.1	59.5	37.5	53.3	49.8	23	120							
2-FLUOROBIPHENYL		50	29.1	29.9	18.9	27.4	25.7	58.1	59.8	37.8	54.8	51.5	30	115							
2,4,6-TRIBROMOPHENOL		100	50.1	63.6	34.1	69.2	67.0	50.1	63.6	34.1	69.2	67.0	19	122							
p-TERPHENYL - D14		50	49.1	44.9	39.4	41.1	39.8	98.2	89.8	78.8	82.3	79.5	18	137							

NOTES & DEFINITIONS :

RDL=REPORTING DETECTION LIMIT
ND = NOT DETECTED

NS = NOT SPIKED

L= below QC limit
H=above QC limit

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 827-PAHL

ANAL WORK GRP : WG98002 **EXT DATE :** 05/21/01 **RUN DATE :** 05/22/01 **INSTRUMENT :** HPMS7
METHOD : 8270 **BENCH SHEET :** V163P135 **SMPL ID :** L0105404-02 **ANALYST :** rdc
MATRIX : SOIL **BLK FLNM :** 7M13031 **SMPL FLNM :** 7M13057
CONCENTRATION UNITS : ug/kg **LCS FLNM :** 7M13032 **MS FLNM :** 7M13058
PREP WORK GRP : WG97765 **MSD FLNM :** 7M13059

		CONCENTRATION , ug / kg						PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
NAPHTHALENE	5.0	50	ND	26.9	ND	27.7	24.2	NS	53.8	NS	55.5	48.5	21	89	13	40					
2-METHYLNAPHTHALENE	5.0	50	ND	28.7	ND	29.8	24.9	NS	57.4	NS	59.6	49.8	21	90	18	40					
1-METHYLNAPHTHALENE	5.0	50	ND	27.1	ND	27.6	24.0	NS	54.2	NS	55.2	47.9	40	120	14	40					
ACENAPHTHYLENE	5.0	50	ND	27.5	ND	29.7	26.0	NS	54.9	NS	59.4	52.1	25	101	13	40					
ACENAPHTHENE	5.0	50	ND	25.3	ND	26.3	22.1	NS	50.6	NS	52.5	44.1	22	100	17	40					
FLUORENE	5.0	50	ND	26.9	ND	28.8	25.2	NS	53.8	NS	57.7	50.4	33	101	14	40					
PHENANTHRENE	5.0	50	ND	27.7	ND	34.0	27.4	NS	55.4	NS	67.9	54.9	38	111	21	40					
ANTHRACENE	5.0	50	ND	29.2	ND	36.0	31.6	NS	58.4	NS	71.9	63.3	44	105	13	40					
FLUORANTHENE	5.0	50	ND	36.9	ND	52.1	44.4	NS	73.8	NS	104.2	88.9	46	114	16	40					
PYRENE	5.0	50	ND	34.2	ND	47.1	41.7	NS	68.4	NS	94.2	83.5	41	120	12	40					
BENZO(A)ANTHRACENE	5.0	50	ND	44.2	ND	54.4	52.9	NS	88.4	NS	108.7	105.8	41	119	3	40					
CHRYSENE	5.0	50	ND	40.3	ND	48.9	47.0	NS	80.6	NS	97.7	93.9	44	118	4	40					
BENZO[B]FLUORANTHENE	5.0	50	ND	35.9	ND	41.4	40.7	NS	71.8	NS	82.7	81.4	34	124	2	40					
BENZO[K]FLUORANTHENE	5.0	50	ND	33.0	ND	39.2	39.3	NS	66.0	NS	78.4	78.5	37	124	0	40					
BENZO[A]PYRENE	5.0	50	ND	36.0	ND	44.9	44.7	NS	72.0	NS	89.7	89.3	41	115	0	40					
INDENO[1,2,3-CD]PYRENE	5.0	50	ND	30.2	ND	34.8	35.0	NS	60.4	NS	69.7	70.1	33	126	1	40					
DIBENZ[A,H]ANTHRACENE	5.0	50	ND	27.0	ND	31.0	31.8	NS	54.0	NS	62.0	63.6	31	127	2	40					
BENZO[G,H,I]PERYLENE	5.0	50	ND	31.1	ND	35.2	35.9	NS	62.2	NS	70.5	71.7	34	120	2	40					
SURROGATES																					
NITROBENZENE - D5		2.5	1.72	1.49	1.82	1.68	1.31	68.8	59.6	72.8	63.2	52.4	23	120							
2-FLUOROBIPHENYL		2.5	1.66	1.32	1.58	1.37	1.14	62.0	52.8	63.2	54.8	45.6	30	115							
p-TERPHENYL - D14		2.5	2.14	1.73	1.87	1.99	2.00	85.6	69.2	74.8	79.6	80.0	18	137							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT NS = NOT SPIKED L= below QC limit
ND = NOT DETECTED H=above QC limit

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 827-PAHL

ANAL WORK GRP : WG97994 **EXT DATE :** 05/21/01 **RUN DATE :** 05/22/01 **INSTRUMENT :** HPMS7
METHOD : 8270 **BENCH SFEET :** V163P151 **SMPL ID :** NA **ANALYST :** rdc
MATRIX : WATER **BLK FLNM :** 7M13028 **SMPL FLNM :** NA
CONCENTRATION UNITS : ug/ml **LCS FLNM :** 7M13027 **MS FLNM :** NA
PREP WORK GRP : WG97803 **MSD FLNM :** NA

	CONCENTRATION , ug / ml							PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
NAPHTHALENE	0.1	1.0	ND	0.57	NA	NA	NA	NS	57.0	NS	NA	NA	27	107	NA	40					
2-METHYLNAPHTHALENE	0.1	1.0	ND	0.62	NA	NA	NA	NS	62.0	NS	NA	NA	27	109	NA	40					
1-METHYLNAPHTHALENE	0.1	1.0	ND	0.59	NA	NA	NA	NS	59.0	NS	NA	NA	40	120	NA	40					
ACENAPHTHYLENE	0.1	1.0	ND	0.63	NA	NA	NA	NS	63.0	NS	NA	NA	37	120	NA	40					
ACENAPHTHENE	0.1	1.0	ND	0.59	NA	NA	NA	NS	59.0	NS	NA	NA	30	127	NA	40					
FLUORENE	0.1	1.0	ND	0.66	NA	NA	NA	NS	66.0	NS	NA	NA	39	111	NA	40					
PHENANTHRENE	0.1	1.0	ND	0.67	NA	NA	NA	NS	67.0	NS	NA	NA	50	125	NA	40					
ANTHRACENE	0.1	1.0	ND	0.75	NA	NA	NA	NS	75.0	NS	NA	NA	52	120	NA	40					
FLUORANTHENE	0.1	1.0	ND	0.86	NA	NA	NA	NS	86.0	NS	NA	NA	52	137	NA	40					
PYRENE	0.1	1.0	ND	0.78	NA	NA	NA	NS	78.0	NS	NA	NA	55	127	NA	40					
BENZO(A)ANTHRACENE	0.1	1.0	ND	0.86	NA	NA	NA	NS	86.0	NS	NA	NA	58	131	NA	40					
CHRYSENE	0.1	1.0	ND	0.78	NA	NA	NA	NS	78.0	NS	NA	NA	67	176	NA	40					
BENZO[B]FLUORANTHENE	0.1	1.0	ND	0.73	NA	NA	NA	NS	73.0	NS	NA	NA	48	129	NA	40					
BENZO[K]FLUORANTHENE	0.1	1.0	ND	0.69	NA	NA	NA	NS	69.0	NS	NA	NA	55	127	NA	40					
BENZO[A]PYRENE	0.1	1.0	ND	0.74	NA	NA	NA	NS	74.0	NS	NA	NA	55	132	NA	40					
INDENO[1,2,3-CD]PYRENE	0.1	1.0	ND	0.60	NA	NA	NA	NS	60.0	NS	NA	NA	43	140	NA	40					
DIBENZ[A,H]ANTHRACENE	0.1	1.0	ND	0.51	NA	NA	NA	NS	51.0	NS	NA	NA	37	167	NA	40					
BENZO[G,H,I]PERYLENE	0.1	1.0	ND	0.59	NA	NA	NA	NS	59.0	NS	NA	NA	42	143	NA	40					
SURROGATES																					
NITROBENZENE - D5		2.5	1.91	1.65	NA	NA	NA	76.4	66.0	NA	NA	NA	35	114							
2-FLUOROBIPHENYL		2.5	1.69	1.54	NA	NA	NA	67.6	61.6	NA	NA	NA	43	116							
p-TERPHENYL - D14		2.5	1.70	1.80	NA	NA	NA	68.0	72.0	NA	NA	NA	33	141							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT NS = NOT SPIKED L= below QC limit
ND = NOT DETECTED H=above QC limit

510

Tune File : C:\HPCHEM\1\DATA\052201\4M8472.D
Tune Time : 22 May 2001 14:59

Daily Calibration File : C:\HPCHEM\1\DATA\052201\4M8473.D

{2FP}PHL	NBZ	FBP	DCB	NPT	ANT
			298056	1148240	587646
tbp	TPH		PHN	CRY	PRY
			979686	1101780	1038110

File	Sample	Surrogate Recovery %				Internal Standard Responses		
4M8474.D	WG97704-	37	40	36	36	258433	1016214	558329
		46	107			816647	975924	973621
4M8475.D	WG97704-	45	49	48	53	276999	1086904	588601
		86	101			944643	1090608	1041213
4M8476.D	WG97802-	56	60	60	58	261323	956645	540452
		50	98			797402	954629	951913
4M8477.D	WG97802-	55	60	60	60	277366	1064045	578662
		64	90			912251	1054715	1006142
4M8483.D	L0105435	53	57	58	54	269877	980126	561737
		49	98			839753	991621	1004545
4M8484.D	L0105435	55	58	58	57	267394	983842	575519
		98	130			887151	988376	986941
4M8485.D	L0105410	42	46	44	45	257175	935952	545965
		69	109			830226	941691	920042
4M8486.D	L0105410	44	51	48	58	255186	973438	535475
		70	97			801510	931431	902099
4M8487.D	L0105409	30	34	31	36	253005	917938	547439
		78	101			849986	1006953	933059
4M8488.D	L0105409	45	60	51	70	247484	898250	523816
		76	98			803544	917608	874567
4M8489.D	L0105410	39	48	46	50	263278	961534	557215
		68	96			858470	989958	957744
4M8490.D	WG97704-	46	61	51	59	267292	1004795	587862
		84	99			918721	1077547	952840
4M8491.D	WG97704-	32	39	36	48	264359	1034173	560367
		97	100			936853	1094765	879487
4M8492.D	WG97704-	41	49	45	53	265419	1036718	561245
		94	98			942804	1094725	874814
4M8493.D	L0105409	32	45	37	51	239044	887900	523096
		83	102			825599	946950	800841
4M8494.D	L0105409	38	52	43	56	245506	905861	533078
		82	102			845501	956592	798249

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96 107 900727 976655 532676

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t - fails 12hr time check * - fails criteria

Created: Wed May 23 09:23:33 2001 HPMS4

Tune File : C:\MSDCHEM\1\DATA\052201\7M13019.D
Tune Time : 22 May 2001 11:30

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678

CRY	PRY
339209	274829

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13021.D	ESS0037-	0*	0*	0*	415540	223016	365428
			342770		309086		
7M13022.D	ESS0037-	0*	0*	0*	416699	223881	364595
			359265		313068		
7M13023.D	L0105318	109	62	82	448047	259960	429037
			381214		346987		
7M13024.D	L0105318	275*	56	82	428138	238475	388128
			337774		308470		
7M13025.D	ESS36-42	0*	0*	0*	398962	217109	356976
			331222		288451		
7M13026.D	ESS36-42	0*	0*	0*	403095	218221	349558
			333084		295200		
7M13027.D	WG97803-	66	62	72	393986	212873	357775
			356792		321351		
7M13028.D	WG97803-	76	68	68	438505	242151	399745
			429005		389921		
7M13029.D	L0105404	78	71	70	421794	231170	377781
			360642		330324		
7M13030.D	L0105345	76	69	66	379744	211074	347714
			349741		322905		
7M13033.D	WG97637-	53	44	27*	450185	253466	409314
			388454		382498		
7M13034.D	WG97637-	56	49	35	452765	255263	412425
			390502		365845		
7M13035.D	WG97637-	59	51	46	438799	247288	405760
			395808		372209		
7M13036.D	L0105378	61	53	37	459168	252999	416097
			393058		383263		
7M13037.D	L0105378	64	54	40	425452	239144	386201
			353212		335193		
7M13038.D	L0105378	63	53	44	427201	240828	384722
			351610		327059		
7M13039.D	L0105378	55	45	39	452945	266671	426562
			392041		378385		
7M13040.D	L0105388	50	44	35	422457	235888	384800
			351287		353588		
7M13041.D	L0105402	63	42*	45	535342	288892	464406
			421766		423928		
7M13042.D	L0105402	60	39*	31*	515708	283925	447718
			405231		396889		

t - fails 12hr time check * - fails criteria

Created: Wed May 23 09:55:42 2001 HPMS7

Tune File : C:\MSDCHEM\1\DATA\052201\7M13019.D
Tune Time : 22 May 2001 11:30

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678

CRY	PRY
339209	274829

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13031.D	WG99765-	69	62	86	448379	252966	409648
			377379	356111			
7M13032.D	WG99765-	60	53	69	441004	245651	386044
			382624	378633			

t - fails 12hr time check * - fails criteria

Created: Wed May 23 09:56:49 2001 HPMS7

515

Tune File : C:\MSDCHEM\1\DATA\052501\7M13046.D
Tune Time : 23 May 2001 12:33

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678

CRY	PRY
339209	274829

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13048.D	WG97919-	64	63	71	452898	249211	411454
			368472	346421			
7M13049.D	WG97919-	52	46	79	446601	245555	409273
			409675	406742			
7M13050.D	L0105388	53	47	83	455594	256442	415574
			388758	396292			
7M13051.D	WG97919-	70	63	89	448746	246180	408956
			395857	407480			
7M13052.D	WG97919-	60	52	83	448465	246765	417690
			417263	416727			
7M13053.D	WG97919-	60	51	80	441549	245598	412965
			407383	415396			
7M13054.D	L0105388	54	48	56	469097	262723	451437
			599405	609054*			
7M13055.D	L0105388	49	41	73	480748	271279	442825
			432231	438229			
7M13056.D	L0105404	77	67	84	448038	250086	413230
			400107	398859			
7M13057.D	WG97765-	73	63	75	448745	255306	420208
			413119	413161			
7M13058.D	WG97765-	63	55	80	434188	242318	407768
			396074	398800			
7M13059.D	WG97765-	52	46	80	443356	249031	410779
			399491	403984			
7M13060.D	L0105404	70	60	79	444317	251709	412006
			383696	389425			
7M13061.D	L0105404	69	62	79	437988	243272	408712
			406308	415151			
7M13062.D	L0105404	65	56	85	439421	247317	404823
			387796	389554			
7M13063.D	L0105404	65	54	71	437571	243984	408635
			392406	391069			
7M13064.D	L0105404	68	59	79	453449	258727	424857
			403012	400889			
7M13065.D	L0105404	54	46	83	473536	328621	596693
			448399	425449			
7M13066.D	L0105388	54	47	83	462160	259061	434953
			432136	435257			
7M13067.D	L0105413	77	67	81	433697	244898	407784
			433376	387068			

7M13069.D	L0105388	9*	7*	8*		460210	256356	437734
			457447		356597			

t - fails 12hr time check * - fails criteria

Created: Thu May 24 10:02:33 2001 HPMS7

Tune File : C:\HPCHEM\1\DATA\052401\4M8530.D
Tune Time : 24 May 2001 13:07

Daily Calibration File : C:\HPCHEM\1\DATA\052401\4M8531.D

	{2FP}PHL	NBZ	FBP		DCB	NPT	ANT
					262468	1013500	516847
	tbp	TPH			PHN	CRY	PRY
					876621	971651	874206

File	Sample	Surrogate Recovery %				Internal Standard Responses		
4M8533.D	WG97677-	31	35	32	35	274897	1048694	570651
		40	92			853089	968502	927696
4M8534.D	WG97677-	34	39	39	43	286052	1076141	593102
		67	86			953616	1065826	987285
4M8535.D	L0105397	18*	23*	29	21*	282602	1023347	584376
		10*	1*			884692	1013397	972890
4M8536.D	L0105397	10*	13*	31	20*	279744	1015461	585601
		15*	0*			880248	1004320	953525
4M8537.D	L0105404	53	56	53	54	276773	1066261	577865
		51	77			865312	1011051	962236
4M8538.D	WG97802-	39	41	38	38	275064	1059520	576718
		34	79			859542	988145	921762
4M8539.D	WG97802-	50	53	53	55	293306	1114993	602521
		69	82			991415	1109987	1000895
4M8540.D	WG97802-	46	49	50	51	291570	1101688	599181
		67	80			964009	1092774	1005013

t - fails 12hr time check * - fails criteria

Created: Fri May 25 08:03:49 2001 HPMS4

518

Tune File : C:\HPCHEM\1\DATA\052501\4M8542.D
Tune Time : 25 May 2001 8:03

Daily Calibration File : C:\HPCHEM\1\DATA\052501\4M8543.D

		{2FP}PHL	NBZ	FBP		DCB	NPT	ANT
						263534	1013380	524681
		tbp	TPH			PHN	CRY	PRY
						880979	976779	872446

File	Sample	Surrogate Recovery %				Internal Standard Responses		
4M8544.D	L0105404	49	52	52	50	294315	1057906	604023
		47	87			908296	1062231	1005152
4M8545.D	L0105404	46	48	49	46	280422	1006796	587223
		40	79			867419	989054	932707
4M8546.D	L0105404	39	42	41	41	273654	983669	558210
		34	78			838248	958639	905460
4M8547.D	L0105404	50	55	55	54	271257	1012282	647387
		93	101			1152249	973264	962798
4M8548.D	L0105404	50	53	51	52	280055	1065110	571908
		49	86			856433	983116	931611
4M8549.D	L0105404	51	54	51	53	277508	1062188	570803
		51	82			865645	1002424	959802
4M8550.D	L0105262	40	26	70	69	274317	981428	565224
		71	96			860205	972871	934641
4M8551.D	L0105262	45	29	72	73	263217	995004	540604
		73	91			814059	930691	898449
4M8552.D	L0105262	37	27	71	72	269181	1032541	558601
		55	72			838084	946333	881157
4M8553.D	L0105262	33	25	68	71	267956	1004819	544056
		57	88			822331	927184	870000
4M8555.D	WG97917-	30	19	60	62	264596	1008575	545976
		65	102			818567	939397	880364
4M8556.D	WG97917-	26	18	58	62	270880	1031146	559932
		84	98			921881	1036304	929963
4M8557.D	L0105373	23	17	40	38*	255053	900933	533859
		78	65			833671	902848	880816
4M8558.D	WG97822-	38	25	78	76	265878	953588	550230
		74	101			826789	953227	903840
4M8559.D	L0105341	21*	15	53	50	269157	943167	550021
		36	79			833487	947841	907784
4M8560.D	L0105397	27	18	55	53	270861	961691	554641
		53	93			839893	977023	925693

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4M8562.D	L0105262	36	24	58	60	278007	1054350	575247
		75	74			887194	984910	931365
4M8563.D	L0105425	9*	59	121*	88	247695	1452872	710688
		101	110			1124774	1024341	501411
4M8564.D	L0105294	0*	0*	0*	0*	285441	1016794	617691
		0*	0*			975506	1057945	905813

t - fails 12hr time check * - fails criteria

Created: Tue May 29 08:22:39 2001 HPMS4

520

2.2.1.2 Sample Data

Data File : C:\MSDCHEM\1\DATA\052301\7M13056.D Vial: 11
Acq On : 23 May 2001 17:13 Operator: rdc
Sample : L0105404-01 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:09:51 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.54	136	448038	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	250086	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	413230	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	400107	1.00	ug/ml	-0.02
20) Perylene-d12	15.20	264	398859	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	275205	1.94	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 77.60%			
7) 2-Fluorobiphenyl	7.59	172	611993	1.66	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 66.40%			
17) p-Terphenyl-d14	11.45	244	913406	2.10	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 84.00%			
Target Compounds						Qvalue
8) Acenaphthylene	8.21	152	181	4.04	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
7M13056.D PAHLOW.M Thu May 24 09:10:05 2001 Page 1

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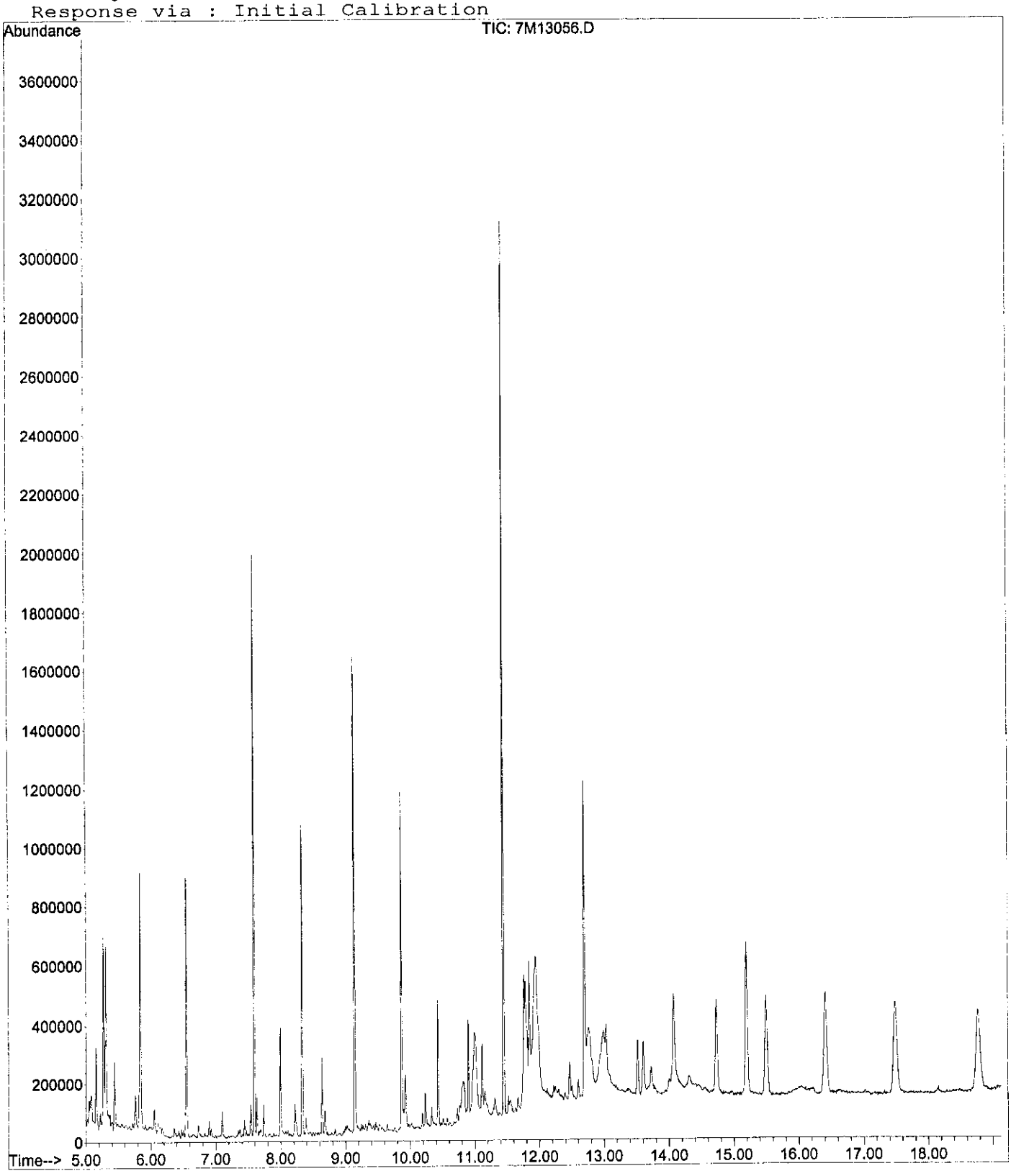
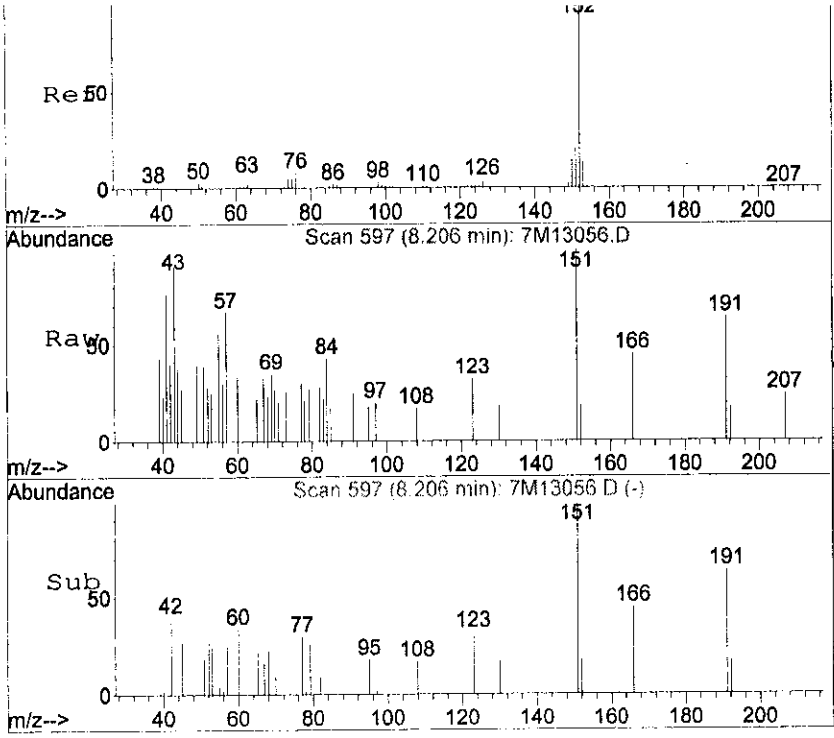
Data File : C:\MSDCHEM\1\DATA\052301\7M13056.D
Acq On : 23 May 2001 17:13
Sample : L0105404-01 SOIL
Misc : SOLID SOIL, 1
MS Integration Params: RTEINT.P
Quant Time: May 24 9:09 2001

Vial: 11
Operator: rdc
Inst : HPMS7
Multiplr: 50.00
Quant Results File: PAHLOW.RES

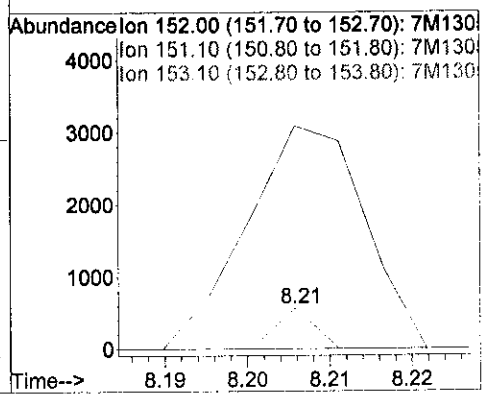
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration





Acenaphthylene
Concen: 4.04 ug/ml
RT: 8.21 min Scan# 597
Delta R.T. 0.00 min
Lab File: 7M13056.D
Acq: 23 May 2001 17:13

Tgt Ion:152	Resp:	181
Ion	Ratio	Lower	Upper
152	100		
151	1702.8	16.2	24.2#
153	0.0	10.2	15.2#



Data File : C:\HPCHEM\1\DATA\052401\4M8537.D
Acq On : 24 May 2001 16:37
Sample : L0105404-01 SOIL
Misc : SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 25 8:01 2001

Vial: 17
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	276773	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1066261	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	577865	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	865312	40.00	ug/ml	0.00
67) Chrysene-d12	15.85	240	1011051	40.00	ug/ml	0.00
76) Perylene-d12	18.17	264	962236	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	536017	53.50	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 53.50%			
6) Phenol-d5	8.02	99	683629	56.34	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 56.34%			
20) Nitrobenzene-d5	9.01	82	283344	26.26	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 52.52%			
38) 2-Fluorobiphenyl	10.81	172	580723	27.19	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 54.38%			
55) 2,4,6-Tribromophenol	12.36	330	149502	50.79	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 50.79%			
70) p-Terphenyl-d14	14.66	244	1016178	38.32	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 76.64%			
Target Compounds						Qvalue
5) Aniline	8.02	66	32118	167.05	ug/ml#	1

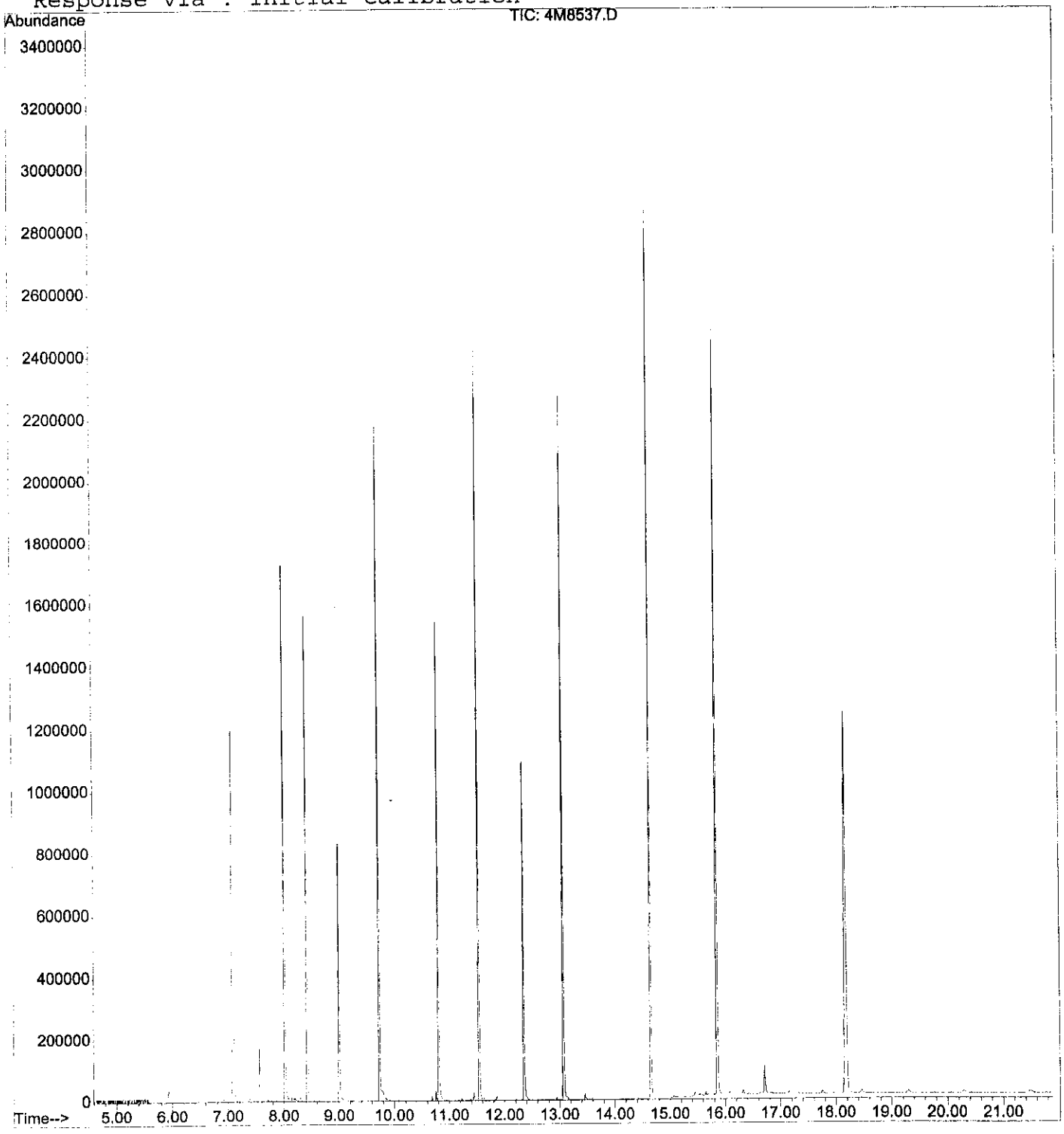
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8537.D
Acq On : 24 May 2001 16:37
Sample : L0105404-01 SOIL
Misc : SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 25 8:01 2001

Vial: 17
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\[illegible]
Acq On : 23 May 2001 17:40 Operator: rdc
Sample : WG97765-01 L0105404-02 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:10:17 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	448745	1.00	ug/ml	-0.01
6) Acenaphthene-d10	8.33	164	255306	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	420208	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	413119	1.00	ug/ml	-0.02
20) Perylene-d12	15.20	264	413161	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	259356	1.82	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 72.80%			
7) 2-Fluorobiphenyl	7.59	172	592379	1.58	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 63.20%			
17) p-Terphenyl-d14	11.45	244	841905	1.87	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 74.80%			
Target Compounds						Qvalue
8) Acenaphthylene	8.19	152	1597	4.17	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
7M13057.D PAHLOW.M Thu May 24 09:10:30 2001 Page 1

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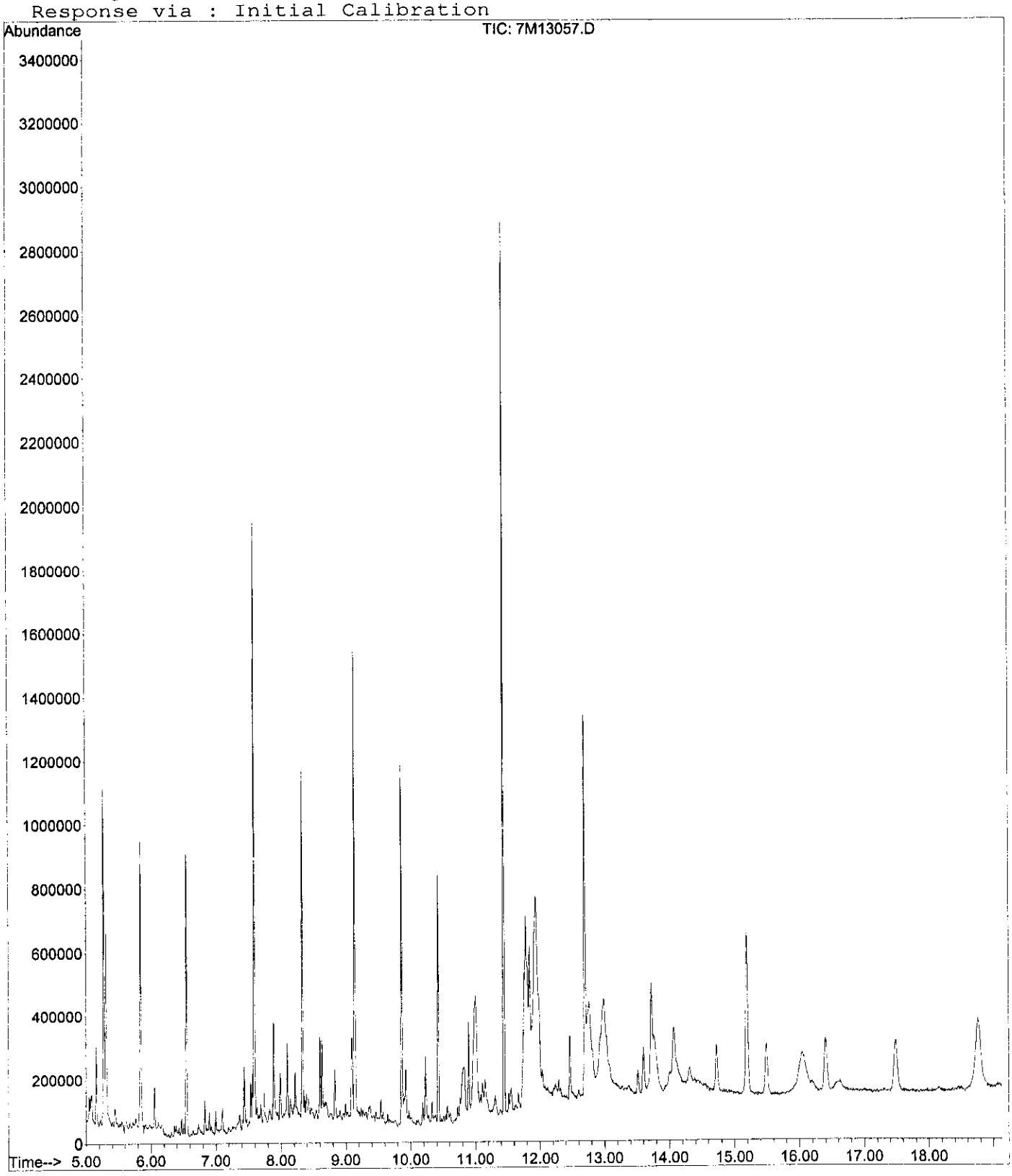
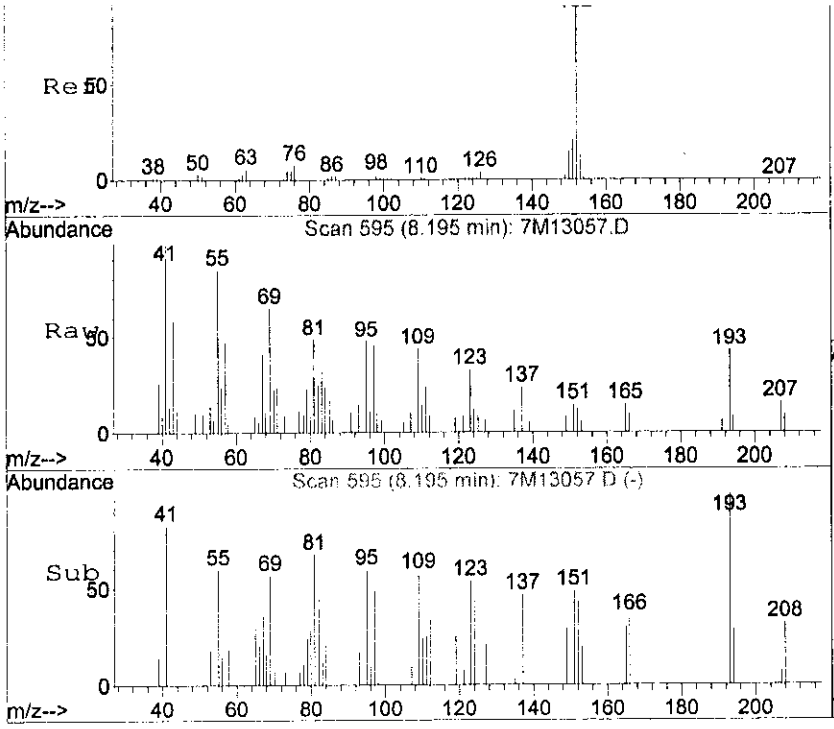
Data File : C:\MSDCHEM\1\DATA\052301\7M13057.D Vial: 12
Acq On : 23 May 2001 17:40 Operator: rdc
Sample : WG97765-01 L0105404-02 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:10 2001 Quant Results File: PAHLOW.RES

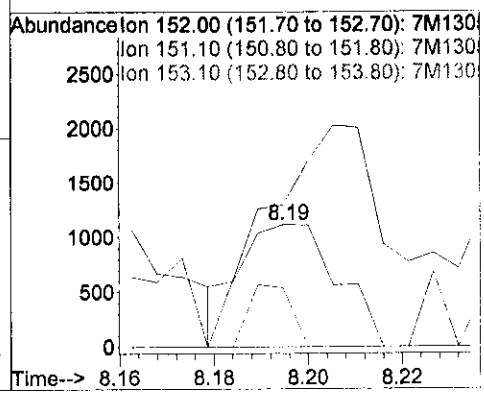
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration





Acenaphthylene
Concen: 4.17 ug/ml
RT: 8.19 min Scan# 595
Delta R.T. -0.01 min
Lab File: 7M13057.D
Acq: 23 May 2001 17:40

Tgt Ion:152	Resp:	1597
Ion	Ratio	Lower	Upper
152	100		
151	244.2	16.2	24.2#
153	22.1	10.2	15.2#



Data File : C:\HPCHEM\1\DATA\052401\4M8538.D Vial: 18
Acq On : 24 May 2001 17:08 Operator: mdc
Sample : WG97802-01 L0105404-02 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:01 2001 Quant Results File: BNA.RES

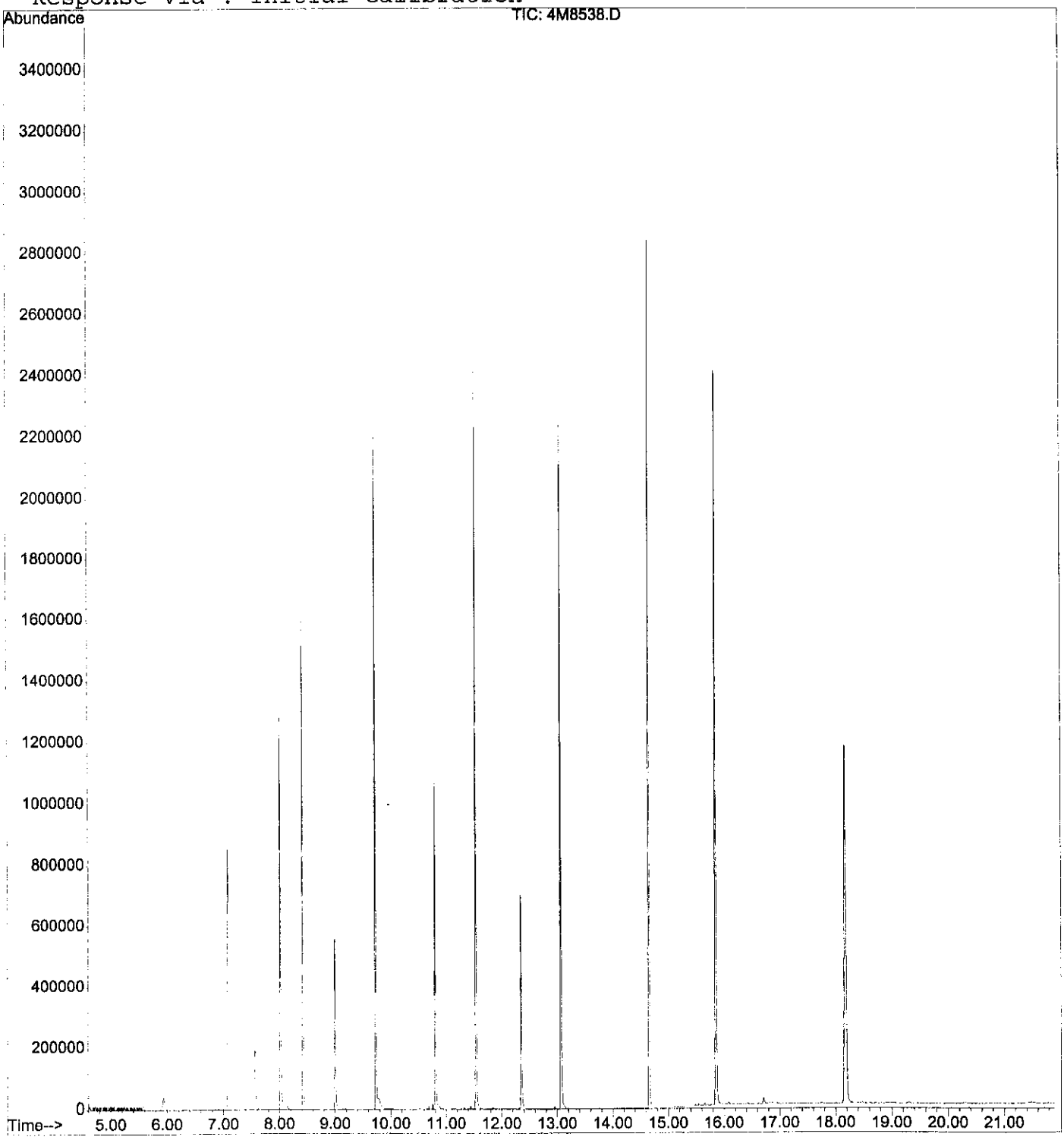
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	275064	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1059520	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	576718	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	859542	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	988145	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	921762	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	389499	39.12	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 39.12%			
6) Phenol-d5	8.02	99	490754	40.70	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 40.70%			
20) Nitrobenzene-d5	9.01	82	201030	18.75	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 37.50%			
38) 2-Fluorobiphenyl	10.80	172	402562	18.88	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 37.76%			
55) 2,4,6-Tribromophenol	12.36	330	94271	34.12	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 34.12%			
70) p-Terphenyl-d14	14.66	244	1021206	39.40	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 78.80%			
Target Compounds						Qvalue
5) Aniline	8.02	66	23419	122.56	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8538.D BNA.M Fri May 25 08:01:58 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8538.D Vial: 18
Acq On : 24 May 2001 17:08 Operator: mdc
Sample : WG97802-01 L0105404-02 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:01 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13058.D Vial: 15
Acq On : 23 May 2001 18:06 Operator: rdc
Sample : WG97765-04 L0105404-03 MS SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:10:41 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	434188	1.00	ug/ml	-0.01
6) Acenaphthene-d10	8.33	164	242318	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	407768	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	396074	1.00	ug/ml	-0.02
20) Perylene-d12	15.20	264	398800	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	216233	1.58	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 63.20%			
7) 2-Fluorobiphenyl	7.59	172	487219	1.37	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 54.80%			
17) p-Terphenyl-d14	11.45	244	857905	1.99	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 79.60%			
Target Compounds						Qvalue
3) Naphthalene	6.57	128	269684	27.74	ug/ml	100
4) 2-Methylnaphthalene	7.25	142	183671	29.80	ug/ml	98
5) 1-Methylnaphthalene	7.36	142	164417	27.58	ug/ml	98
8) Acenaphthylene	8.19	152	259171	29.70	ug/ml	99
9) Acenaphthene	8.37	154	161904	26.27	ug/ml	98
10) Fluorene	8.89	166	192543	28.83	ug/ml	98
12) Phenanthrene	9.89	178	355885	33.95	ug/ml	100
13) Anthracene	9.94	178	322099	35.95	ug/ml	99
14) Fluoranthene	11.12	202	567073	52.11	ug/ml	98
16) Pyrene	11.37	202	572972	47.11	ug/ml	99
18) Benzo[a]anthracene	12.68	228	542555	54.37	ug/ml	99
19) Chrysene	12.74	228	543461	48.86	ug/ml	99
21) Benzo[b]fluoranthene	14.39	252	549896	41.35	ug/ml	99
22) Benzo[k]fluoranthene	14.43	252	506697	39.20	ug/ml	98
23) Benzo[a]pyrene	15.08	252	466666	44.87	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.01	276	433137	34.83	ug/ml#	98
25) Dibenz[ah]anthracene	18.02	278	298145	31.00	ug/ml	99
26) Benzo[ghi]perylene	18.92	276	384291	35.23	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13058.D PAHLOW.M Thu May 24 09:10:59 2001 Page 1

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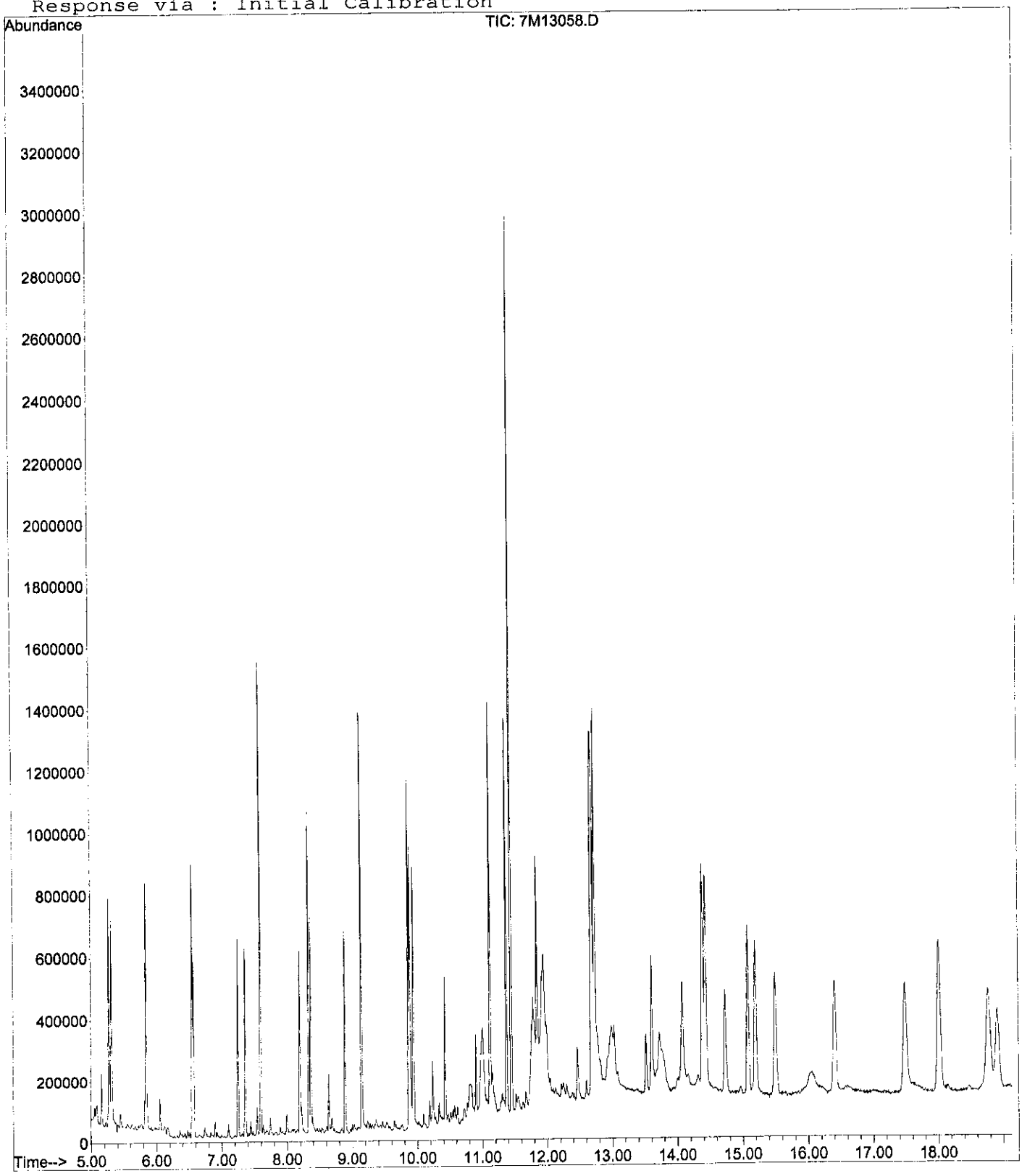
Data File : C:\MSDCHEM\1\DATA\052301\7M13058.D Vial: 15
Acq On : 23 May 2001 18:06 Operator: rdc
Sample : WG97765-04 L0105404-03 MS SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:10 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



7M13058.D PAHLOW.M Thu May 24 09:10:59 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052401\4M8539.D
Acq On : 24 May 2001 17:40
Sample : WG97802-04 L0105404-03 MS SOIL
Misc : SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001

Vial: 19
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	293306	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1114993	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	602521	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	991415	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1109987	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	1000895	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	527194	49.65	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 49.65%			
6) Phenol-d5	8.02	99	684650	53.25	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 53.25%			
20) Nitrobenzene-d5	9.01	82	300701	26.66	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 53.32%			
38) 2-Fluorobiphenyl	10.81	172	610401	27.41	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 54.82%			
55) 2,4,6-Tribromophenol	12.35	330	225468	69.22	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 69.22%			
70) p-Terphenyl-d14	14.66	244	1197310	41.13	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 82.26%			
Target Compounds						Qvalue
2) Pyridine	5.43	79	224589	603.41	ug/ml	100
3) n-Nitrosodimethylamine	5.40	74	182786	856.46	ug/ml	99
5) Aniline	8.10	66	149410	733.28	ug/ml	95
7) Phenol	8.04	94	378129	906.23	ug/ml	95
8) bis(2-Chloroethyl)ether	8.14	63	210613	869.88	ug/ml	100
9) 2-Chlorophenol	8.23	128	285367	851.70	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	305196	827.13	ug/ml	99
11) 1,4-Dichlorobenzene	8.44	146	326819	826.65	ug/ml	99
12) Benzyl Alcohol	8.55	108	189160	873.45	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	298316	834.68	ug/ml	100
14) 2-Methylphenol	8.65	107	230142	869.73	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	467081	901.53	ug/ml	99
16) 4-Methylphenol	8.79	107	345005	899.51	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	208353	944.43	ug/ml	99
18) Hexachloroethane	8.95	117	111546	755.83	ug/ml	99
21) Nitrobenzene	9.02	77	304517	867.09	ug/ml	99
22) Isophorone	9.24	82	562880	1000.17	ug/ml	99
23) 2-Nitrophenol	9.34	139	157671	865.89	ug/ml	95
24) 2,4-Dimethylphenol	9.33	122	267811	949.45	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	332980	898.39	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8539.D Vial: 19
Acq On : 24 May 2001 17:40 Operator: mdc
Sample : WG97802-04 L0105404-03 MS SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.40	122	68732	529.71	ug/ml	91
27) 2,4-Dichlorophenol	9.58	162	230784	895.34	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.66	180	236294	824.18	ug/ml	100
29) Naphthalene	9.75	128	864856	885.76	ug/ml	100
30) 4-Chloroaniline	9.80	127	349716	864.72	ug/ml	99
31) Hexachlorobutadiene	9.85	225	145805	882.28	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.25	107	264317	1021.95	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	559777	897.92	ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	58873	872.51	ug/ml	98
36) 2,4,6-Trichlorophenol	10.74	196	158084	952.36	ug/ml	99
37) 2,4,5-Trichlorophenol	10.78	196	179202	961.85	ug/ml	100
39) 2-Chloronaphthalene	10.96	162	515802	877.80	ug/ml	100
40) 2-Nitroaniline	11.07	65	185190	985.65	ug/ml	99
41) Dimethylphthalate	11.20	163	676089	1072.17	ug/ml	99
42) Acenaphthylene	11.40	152	875472	992.27	ug/ml	99
43) 2,6-Dinitrotoluene	11.30	165	159255	1085.49	ug/ml	99
44) 3-Nitroaniline	11.49	138	197599	1280.44	ug/ml	100
45) Acenaphthene	11.57	154	564791	976.61	ug/ml	99
46) 2,4-Dinitrophenol	11.59	184	71379	1177.23	ug/ml#	87
47) 4-Nitrophenol	11.62	65	150700	1202.14	ug/ml	94
48) Dibenzofuran	11.74	168	752306	943.62	ug/ml	100
49) 2,4-Dinitrotoluene	11.72	165	260395	1304.72	ug/ml#	89
50) Diethylphthalate	11.91	149	771524	1247.29	ug/ml	100
51) Fluorene	12.10	166	660274	1014.73	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	294517	963.36	ug/ml	100
53) 4-Nitroaniline	12.13	138	239413	1633.33	ug/ml	97
54) 1,2-Diphenylhydrazine	12.22	77	700068	1035.16	ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.14	198	162048	1333.59	ug/ml	98
58) n-Nitrosodiphenylamine	12.18	169	550189	1181.70	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.56	248	179883	946.43	ug/ml	99
60) Hexachlorobenzene	12.69	284	254959	1152.09	ug/ml	100
61) Pentachlorophenol	12.88	266	124451	1337.93	ug/ml	99
62) Phenanthrene	13.10	178	1206889	1215.60	ug/ml	100
63) Anthracene	13.15	178	1248779	1257.98	ug/ml	99
64) Carbazole	13.31	167	1251422	1878.15	ug/ml	99
65) Di-n-Butyl Phthalate	13.55	149	1580024	1413.30	ug/ml	100
66) Fluoranthene	14.33	202	1493544	1344.81	ug/ml	100
69) Pyrene	14.58	202	1561545	1364.70	ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	728378	1404.93	ug/ml	99
72) Benzo[a]anthracene	15.84	228	1487088	1382.45	ug/ml	100
73) 3,3'-Dichlorobenzidine	15.77	252	434435	1427.37	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8539.D Vial: 19
Acq On : 24 May 2001 17:40 Operator: mdc
Sample : WG97802-04 L0105404-03 MS SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

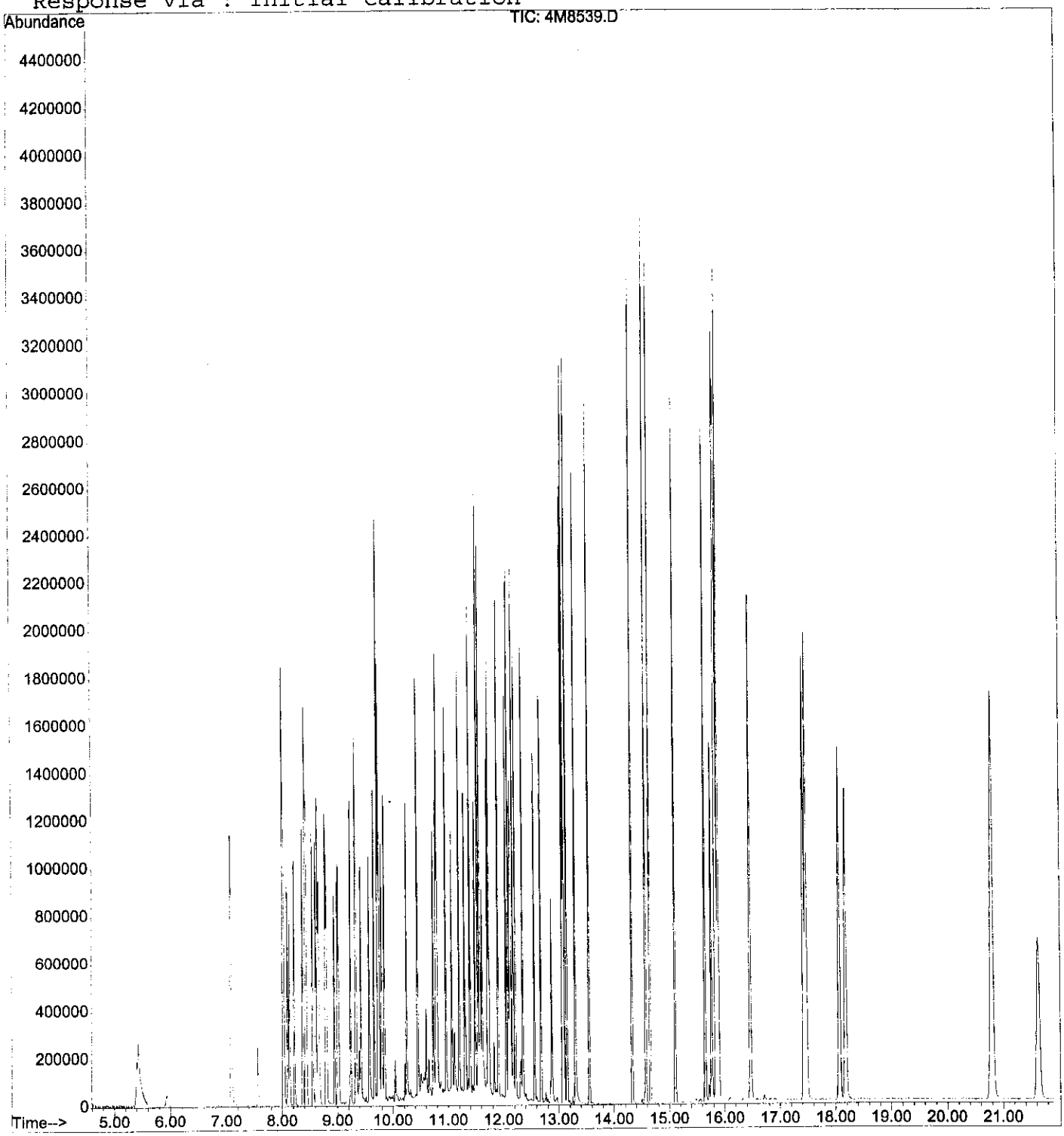
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	Chrysene	15.89	228	1529154	1434.88	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.65	149	972882	1398.61	ug/ml	100
77)	Di-n-Octyl Phthalate	16.47	149	1577586	1394.74	ug/ml	100
78)	Benzo[b]fluoranthene	17.43	252	1341935	1366.81	ug/ml	100
79)	Benzo[k]fluoranthene	17.48	252	1397325	1413.44	ug/ml	99
80)	Benzo[a]pyrene	18.07	252	1178419	1347.67	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.80	276	1306231	1535.21	ug/ml	97
82)	Dibenz[ah]anthracene	20.80	278	1097852	1981.74	ug/ml	100
83)	Benzo[ghi]perylene	21.63	276	990582	1436.92	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8539.D Vial: 19
Acq On : 24 May 2001 17:40 Operator: mdc
Sample : WG97802-04 L0105404-03 MS SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13059.D Vial: 14
Acq On : 23 May 2001 18:33 Operator: rdc
Sample : WG97765-05 L0105404-04 MSD SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:13:19 2001 Quant Results File: PAHLOW.RES

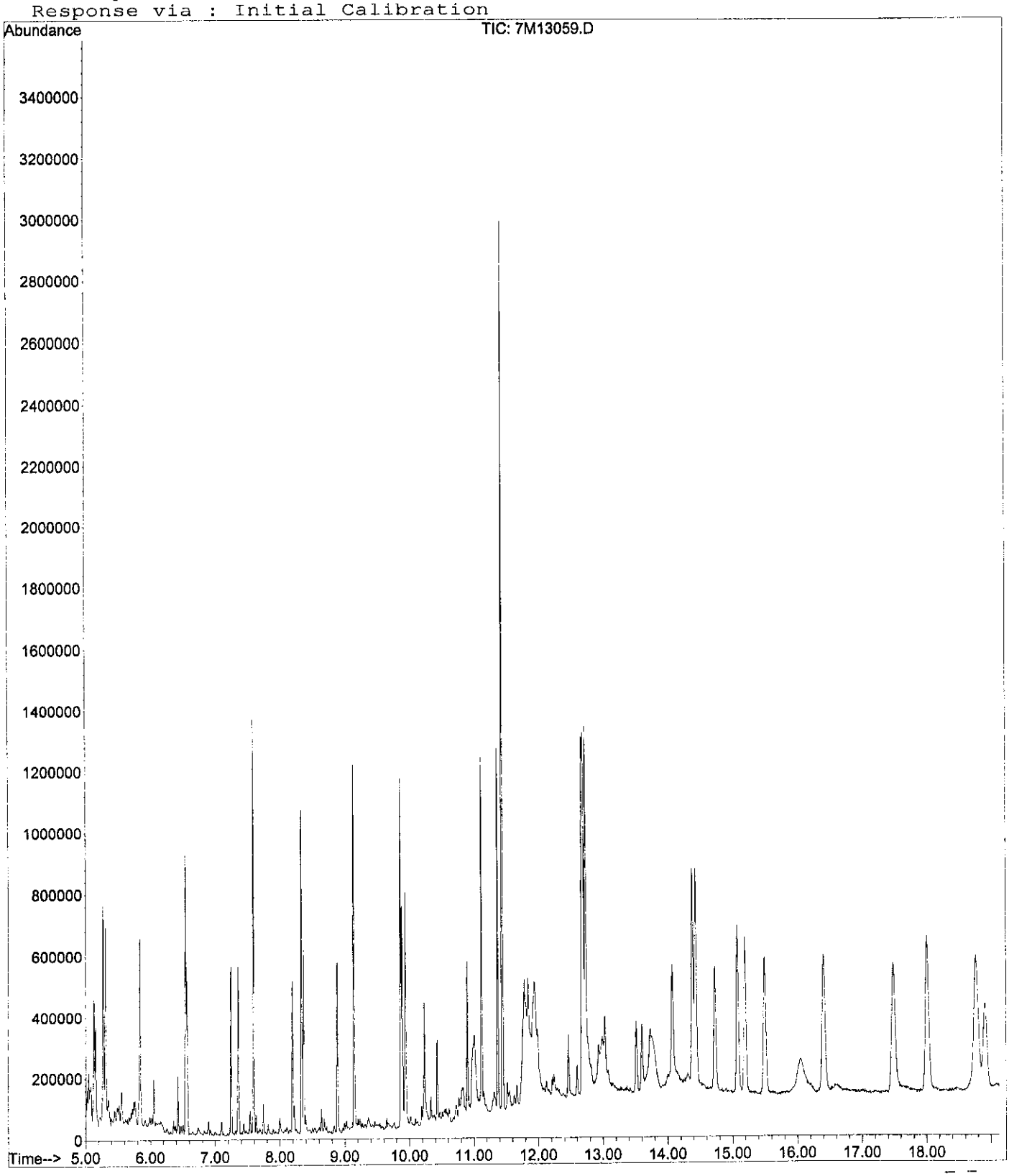
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.54	136	443356	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	249031	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	410779	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	399491	1.00	ug/ml	-0.01
20) Perylene-d12	15.20	264	403984	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	181543	1.31	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 52.40%			
7) 2-Fluorobiphenyl	7.59	172	417470	1.14	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 45.60%			
17) p-Terphenyl-d14	11.45	244	867105	2.00	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 80.00%			
Target Compounds						Qvalue
3) Naphthalene	6.57	128	240642	24.24	ug/ml	99
4) 2-Methylnaphthalene	7.25	142	156639	24.89	ug/ml	99
5) 1-Methylnaphthalene	7.36	142	145931	23.97	ug/ml	97
8) Acenaphthylene	8.20	152	228284	26.03	ug/ml	99
9) Acenaphthene	8.37	154	139706	22.06	ug/ml	97
10) Fluorene	8.89	166	172828	25.18	ug/ml	99
12) Phenanthrene	9.89	178	289772	27.44	ug/ml	100
13) Anthracene	9.94	178	285520	31.64	ug/ml	99
14) Fluoranthene	11.12	202	487001	44.43	ug/ml	99
16) Pyrene	11.37	202	511958	41.73	ug/ml	99
18) Benzo[a]anthracene	12.68	228	532265	52.88	ug/ml	100
19) Chrysene	12.74	228	526830	46.96	ug/ml	100
21) Benzo[b]fluoranthene	14.39	252	548106	40.69	ug/ml	100
22) Benzo[k]fluoranthene	14.43	252	514210	39.27	ug/ml	99
23) Benzo[a]pyrene	15.08	252	470592	44.67	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.01	276	441950	35.04	ug/ml#	98
25) Dibenz[ah]anthracene	18.02	278	311538	31.77	ug/ml	99
26) Benzo[ghi]perylene	18.92	276	396394	35.87	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M13059.D PAHLOW.M Thu May 24 09:13:34 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13059.D Vial: 14
Acq On : 23 May 2001 18:33 Operator: rdc
Sample : WG97765-05 L0105404-04 MSD SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:13 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



7M13059.D PAHLOW.M Thu May 24 09:13:35 2001 Page 539

Data File : C:\HPCHEM\1\DATA\052401\4M8540.D Vial: 20
Acq On : 24 May 2001 18:12 Operator: mdc
Sample : WG97802-05 L0105404-04 MSD SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	291570	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1101688	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	599181	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	964009	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1092774	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	1005013	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	482889	45.75	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 45.75%			
6) Phenol-d5	8.02	99	631410	49.40	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 49.40%			
20) Nitrobenzene-d5	9.01	82	277574	24.90	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 49.80%			
38) 2-Fluorobiphenyl	10.81	172	570187	25.74	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 51.48%			
55) 2,4,6-Tribromophenol	12.35	330	215687	67.04	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 67.04%			
70) p-Terphenyl-d14	14.66	244	1139291	39.75	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 79.50%			
Target Compounds						Qvalue
2) Pyridine	5.43	79	230876	623.99	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	167121	787.73	ug/ml	99
5) Aniline	8.10	66	139315	687.80	ug/ml	96
7) Phenol	8.04	94	345273	832.42	ug/ml	95
8) bis(2-Chloroethyl)ether	8.14	63	193410	803.59	ug/ml	99
9) 2-Chlorophenol	8.23	128	263405	790.83	ug/ml	100
10) 1,3-Dichlorobenzene	8.37	146	278043	758.03	ug/ml	99
11) 1,4-Dichlorobenzene	8.44	146	300583	764.81	ug/ml	100
12) Benzyl Alcohol	8.55	108	176227	818.58	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	276083	777.08	ug/ml	99
14) 2-Methylphenol	8.65	107	212457	807.68	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	425197	825.57	ug/ml	100
16) 4-Methylphenol	8.79	107	313440	822.07	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	193000	880.05	ug/ml	98
18) Hexachloroethane	8.95	117	102311	697.38	ug/ml	100
21) Nitrobenzene	9.03	77	277755	800.44	ug/ml	99
22) Isophorone	9.24	82	525433	944.90	ug/ml	100
23) 2-Nitrophenol	9.34	139	149501	830.94	ug/ml	98
24) 2,4-Dimethylphenol	9.33	122	247128	886.71	ug/ml	97
25) bis(2-Chloroethoxy)methane	9.43	93	306649	837.34	ug/ml	98

(#) = qualifier out of range (m) = manual integration
4M8540.D BNA.M Fri May 25 08:02:30 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8540.D Vial: 20
Acq On : 24 May 2001 18:12 Operator: mdc
Sample : WG97802-05 L0105404-04 MSD SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.40	122	51666	402.99	ug/ml	97
27) 2,4-Dichlorophenol	9.58	162	212034	832.53	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.66	180	216092	762.82	ug/ml	99
29) Naphthalene	9.76	128	796684	825.80	ug/ml	100
30) 4-Chloroaniline	9.80	127	322728	807.63	ug/ml	99
31) Hexachlorobutadiene	9.85	225	133452	817.28	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.25	107	253875	993.43	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	520219	844.55	ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	55027	834.23	ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	148777	901.28	ug/ml	100
37) 2,4,5-Trichlorophenol	10.78	196	173229	934.97	ug/ml	99
39) 2-Chloronaphthalene	10.96	162	484545	829.21	ug/ml	100
40) 2-Nitroaniline	11.07	65	176955	947.07	ug/ml	99
41) Dimethylphthalate	11.20	163	647773	1032.99	ug/ml	100
42) Acenaphthylene	11.40	152	833318	949.76	ug/ml	100
43) 2,6-Dinitrotoluene	11.30	165	153533	1052.33	ug/ml	99
44) 3-Nitroaniline	11.49	138	186314	1214.04	ug/ml	99
45) Acenaphthene	11.57	154	545362	948.27	ug/ml	99
46) 2,4-Dinitrophenol	11.59	184	67293	1133.25	ug/ml#	92
47) 4-Nitrophenol	11.62	65	143986	1154.98	ug/ml	93
48) Dibenzofuran	11.74	168	720350	908.57	ug/ml	98
49) 2,4-Dinitrotoluene	11.72	165	249130	1255.24	ug/ml#	89
50) Diethylphthalate	11.91	149	734567	1194.16	ug/ml	100
51) Fluorene	12.10	166	624593	965.25	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	279197	918.34	ug/ml	99
53) 4-Nitroaniline	12.13	138	230948	1584.36	ug/ml	96
54) 1,2-Diphenylhydrazine	12.22	77	677588	1007.50	ug/ml	99
57) 4,6-Dinitro-2-Methylphenol	12.14	198	155592	1316.86	ug/ml	99
58) n-Nitrosodiphenylamine	12.18	169	528265	1166.87	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.56	248	171705	929.08	ug/ml	99
60) Hexachlorobenzene	12.68	284	244017	1133.99	ug/ml	99
61) Pentachlorophenol	12.87	266	116410	1298.85	ug/ml	99
62) Phenanthrene	13.10	178	1167551	1209.41	ug/ml	100
63) Anthracene	13.15	178	1199027	1242.20	ug/ml	99
64) Carbazole	13.30	167	1194368	1840.26	ug/ml	100
65) Di-n-Butyl Phthalate	13.55	149	1501527	1381.27	ug/ml	100
66) Fluoranthene	14.33	202	1422457	1317.22	ug/ml	100
69) Pyrene	14.58	202	1486276	1319.38	ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	700018	1371.49	ug/ml	99
72) Benzo[a]anthracene	15.84	228	1424632	1345.25	ug/ml	100
73) 3,3'-Dichlorobenzidine	15.76	252	426725	1424.12	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8540.D Vial: 20
Acq On : 24 May 2001 18:12 Operator: mdc
Sample : WG97802-05 L0105404-04 MSD SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

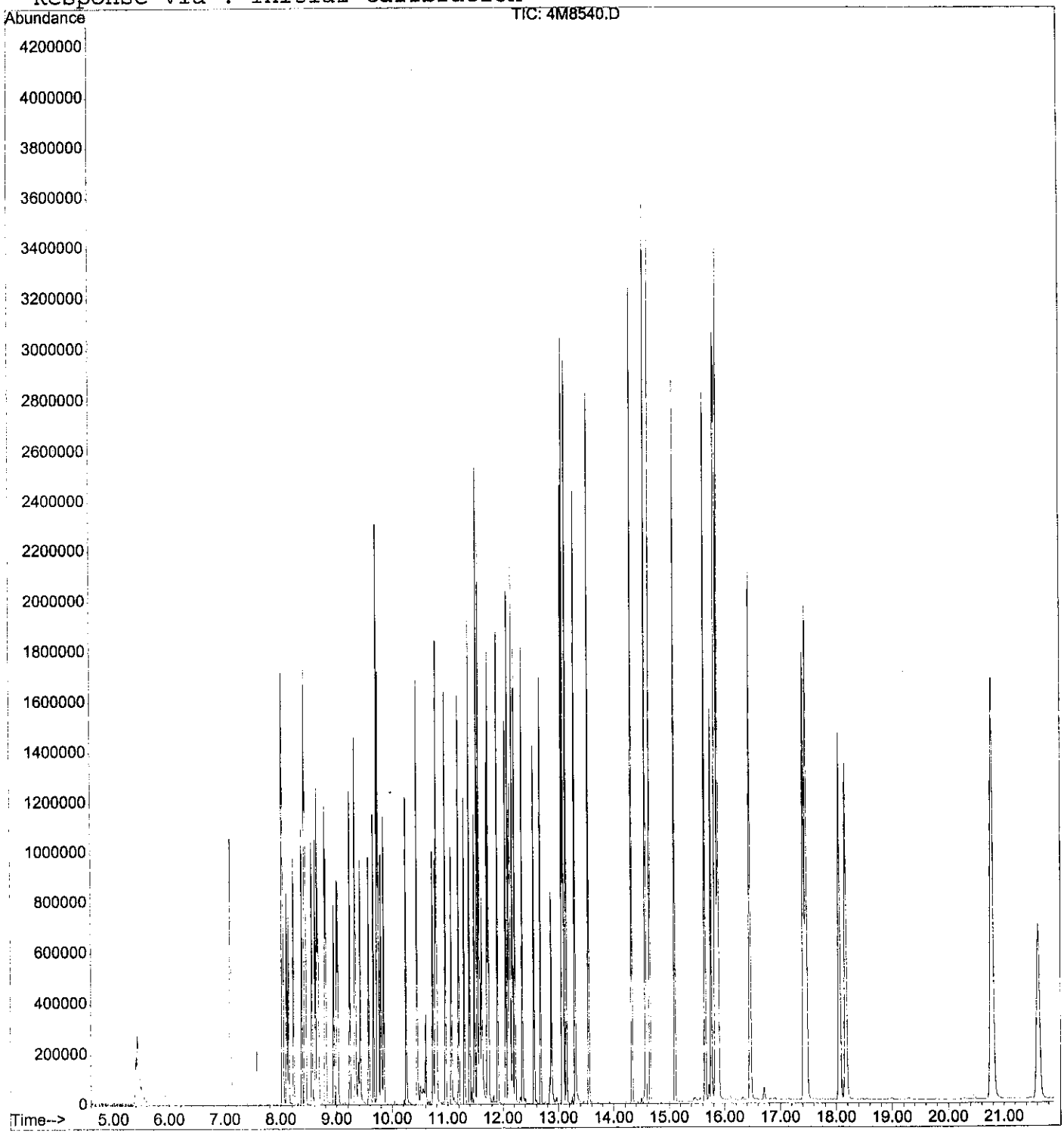
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	Chrysene	15.89	228	1455987	1387.74	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.65	149	930191	1358.30	ug/ml	100
77)	Di-n-Octyl Phthalate	16.46	149	1515844	1334.66	ug/ml	100
78)	Benzo[b]fluoranthene	17.43	252	1333696	1352.85	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	1307729	1317.39	ug/ml	100
80)	Benzo[a]pyrene	18.07	252	1144901	1303.97	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.80	276	1306113	1528.78	ug/ml	98
82)	Dibenz[ah]anthracene	20.80	278	1097229	1972.50	ug/ml	100
83)	Benzo[ghi]perylene	21.62	276	989143	1428.95	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8540.D Vial: 20
Acq On : 24 May 2001 18:12 Operator: mdc
Sample : WG97802-05 L0105404-04 MSD SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 8:02 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 13:56:57 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D Vial: 19
Acq On : 23 May 2001 20:45 Operator: rdc
Sample : L0105404-05 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:16:39 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

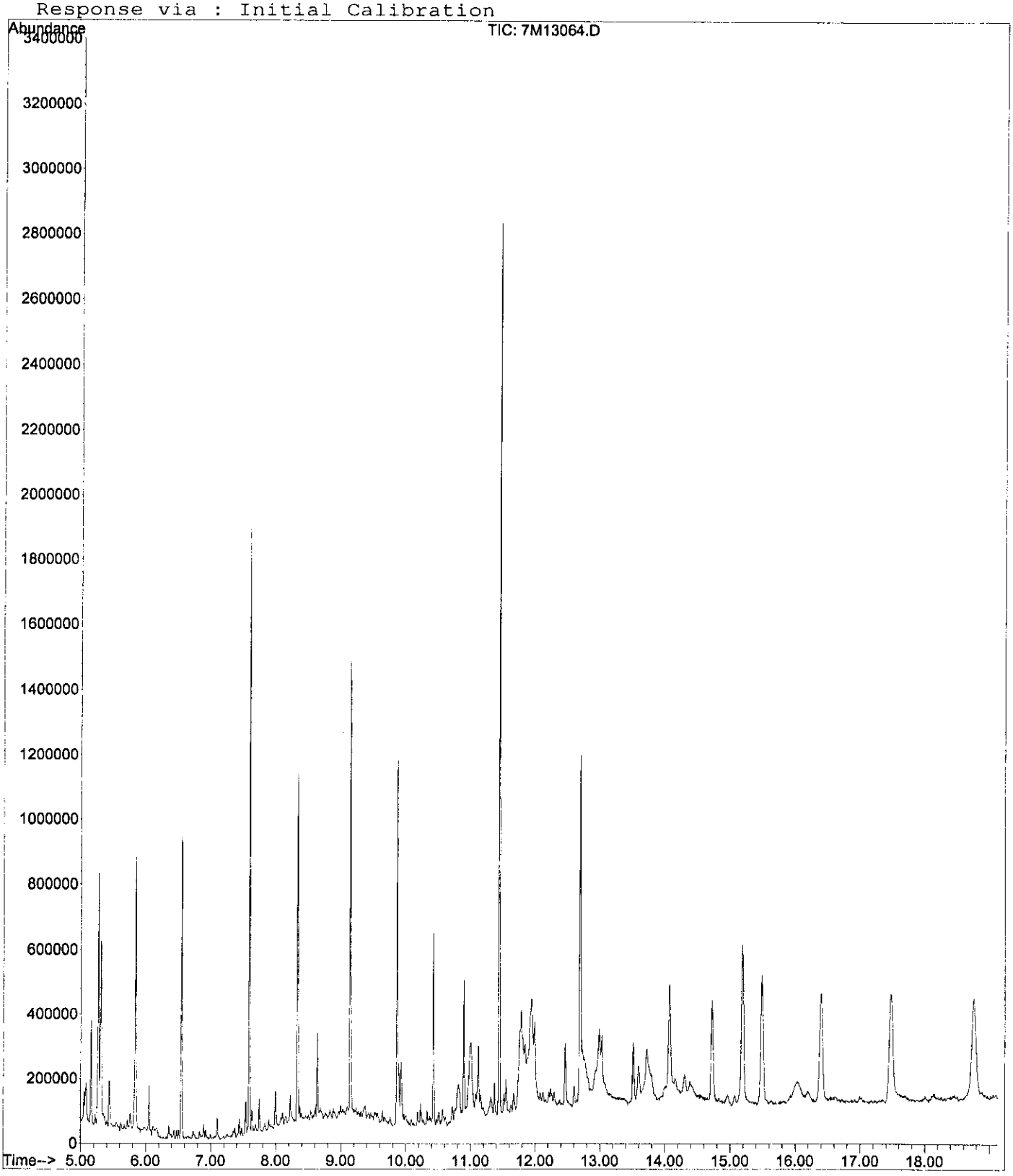
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.54	136	453449	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	258727	1.00	ug/ml	-0.02
11) Phenanthrene-d10	9.87	188	424857	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	403012	1.00	ug/ml	-0.02
20) Perylene-d12	15.19	264	400889	1.00	ug/ml	-0.04
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	244110	1.70	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 68.00%			
7) 2-Fluorobiphenyl	7.59	172	565457	1.49	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 59.60%			
17) p-Terphenyl-d14	11.44	244	866084	1.98	ug/ml	-0.02
Spiked Amount 2.500	Range 18 - 137		Recovery = 79.20%			
Target Compounds						Qvalue
8) Acenaphthylene	8.20	152	1970	4.21	ug/ml#	1
12) Phenanthrene	9.89	178	57767	5.29	ug/ml	97
14) Fluoranthene	11.12	202	63199	5.57	ug/ml#	94
16) Pyrene	11.37	202	49166	3.97	ug/ml# LRL	99
18) Benzo[a]anthracene	12.68	228	26330	2.59	ug/ml# LRL	83
24) Indeno[1,2,3-cd]pyrene	18.00	276	10770	7.22	ug/ml#	90
25) Dibenz[ah]anthracene	18.00	278	2220	6.81	ug/ml#	63

(#) = qualifier out of range (m) = manual integration
7M13064.D PAHLOW.M Thu May 24 09:17:47 2001 Page 544

Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D
Acq On : 23 May 2001 20:45
Sample : L0105404-05 SOIL
Misc : SOLID SOIL, 1
MS Integration Params: RTEINT.P
Quant Time: May 24 9:17 2001

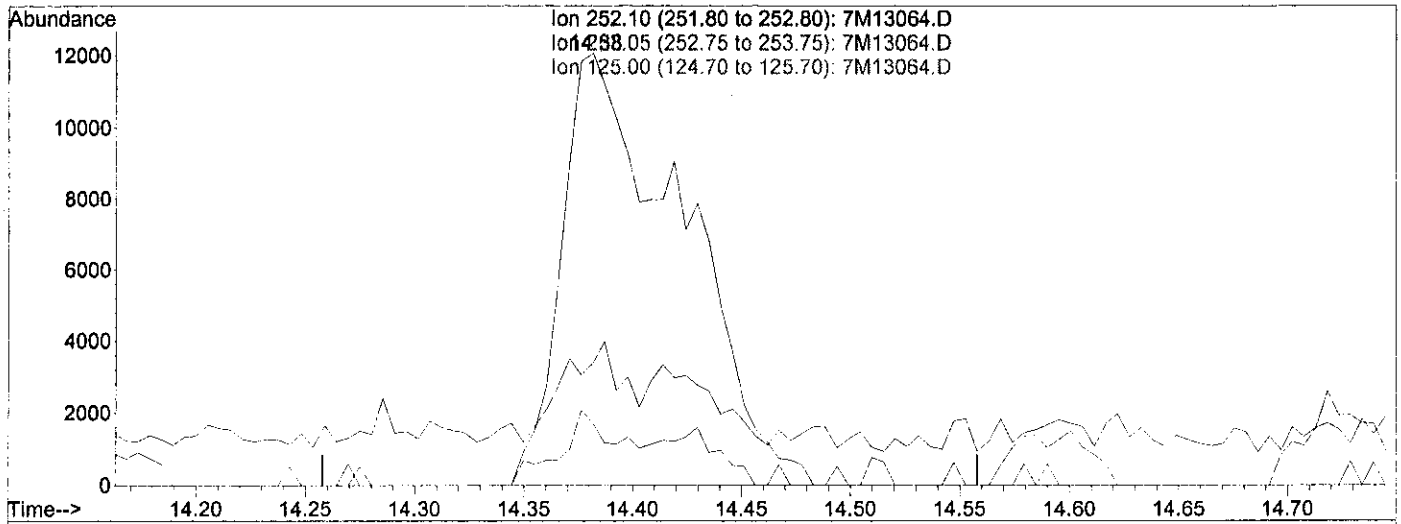
Vial: 19
Operator: rdc
Inst : HPMS7
Multiplr: 50.00
Quant Results File: PAHLOW.RES

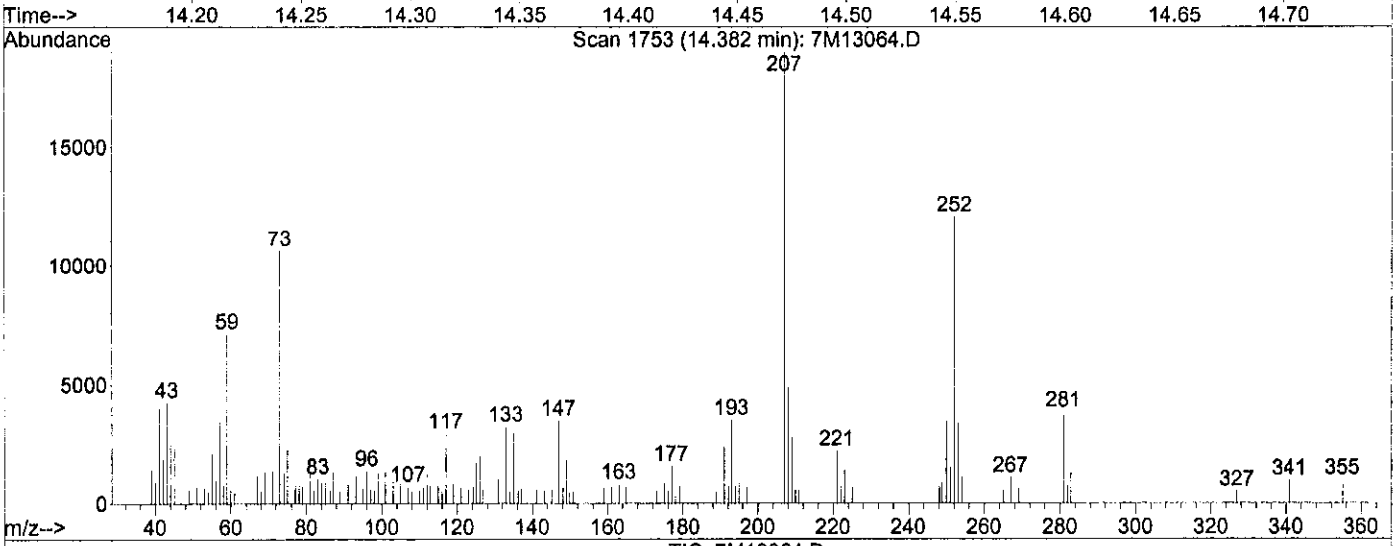
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D Vial: 19
Acq On : 23 May 2001 20:45 Operator: rdc
Sample : L0105404-05 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration





TIC: 7M13064.D

(21) Benzo[b]fluoranthene

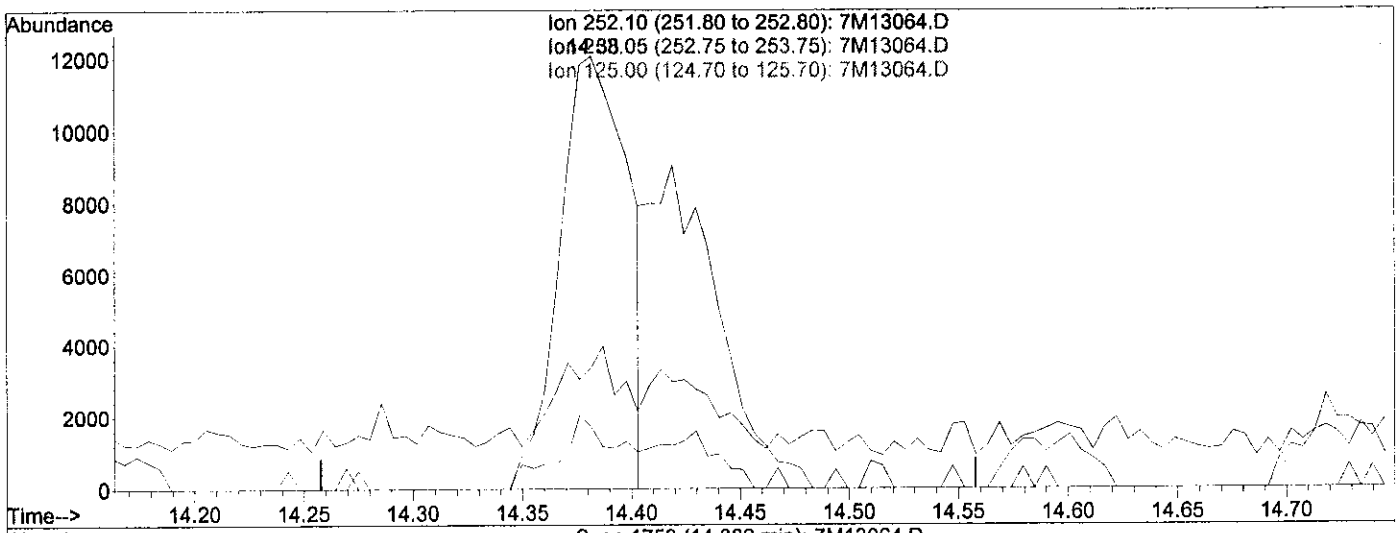
14.38min 3.48ug/ml

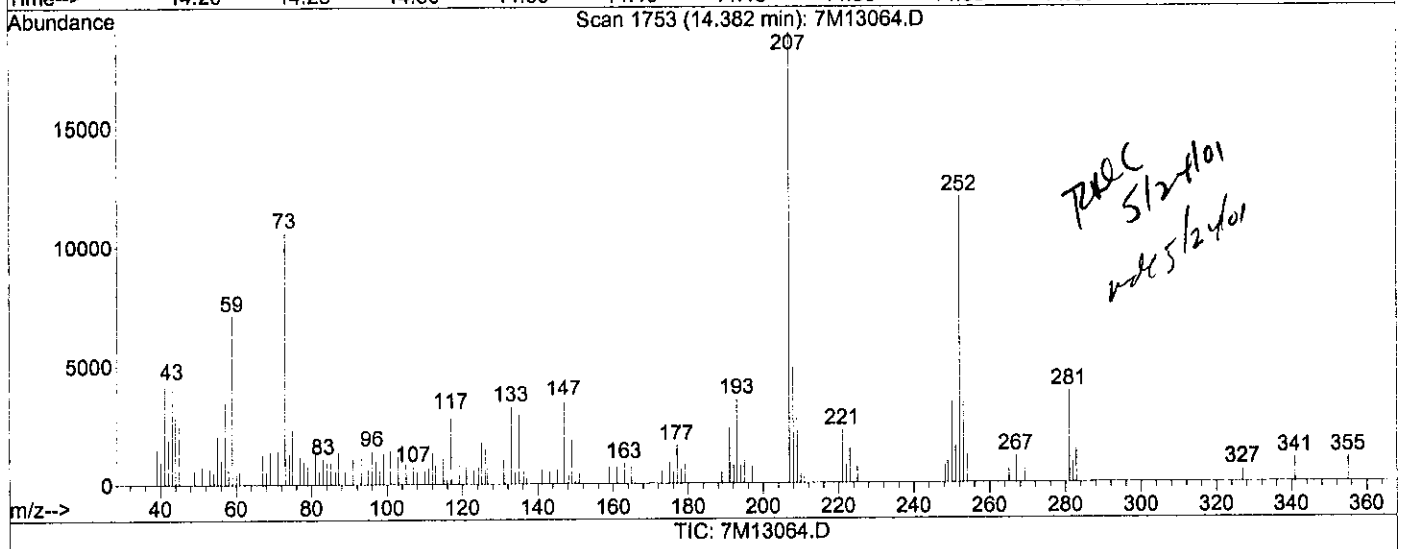
response 46473

Ion	Exp%	Act%
252.10	100	100
253.05	22.20	11.30#
125.00	10.00	14.81#
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D Vial: 19
Acq On : 23 May 2001 20:45 Operator: rdc
Sample : L0105404-05 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:17 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration





TIC: 7M13064.D

PAHC 5/24/01
rdc 5/24/01

(21) Benzo[b]fluoranthene

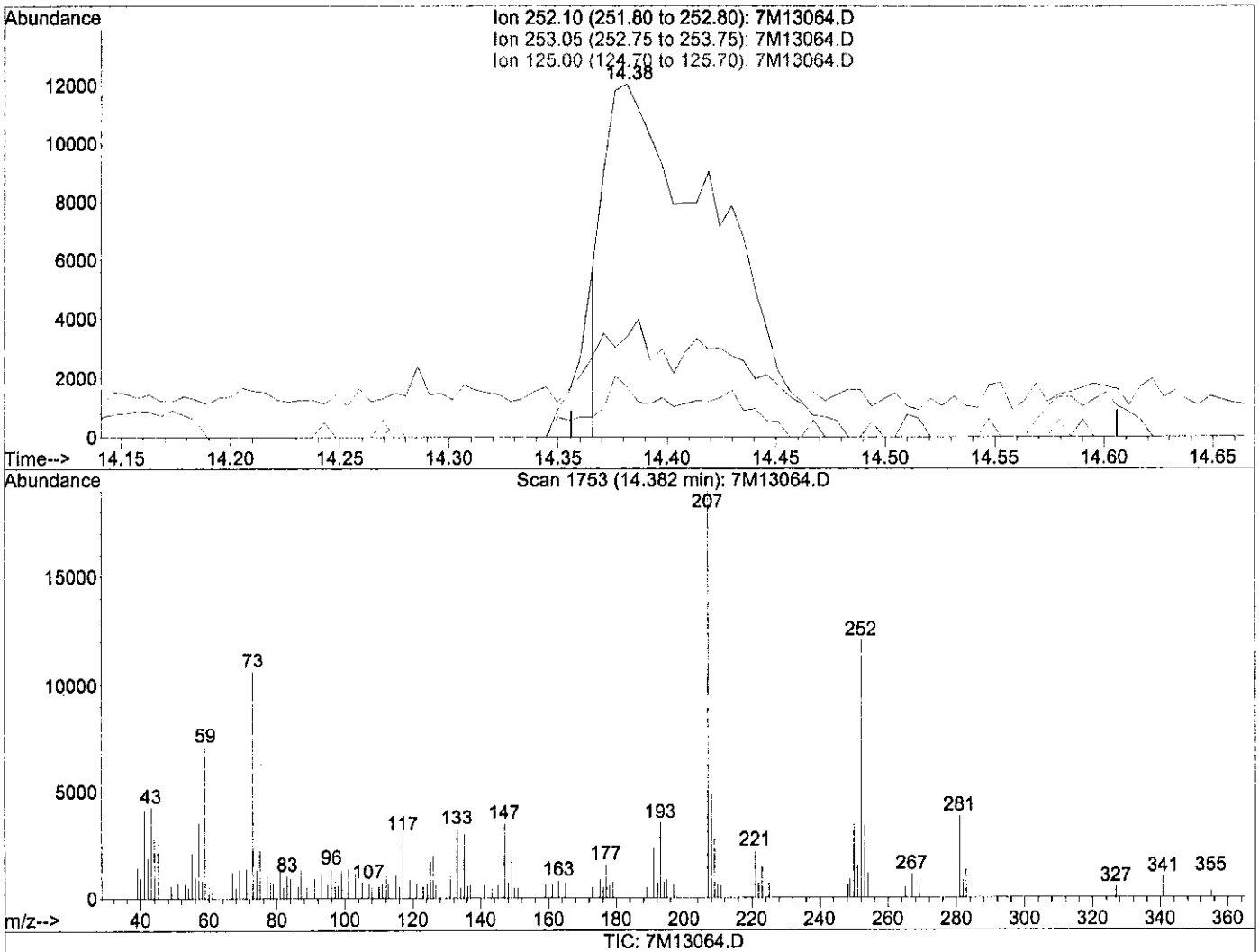
14.38min 1.98ug/ml m

response 26424

Ion	Exp%	Act%
252.10	100	100
253.05	22.20	19.88
125.00	10.00	26.04#
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D Vial: 19
Acq On : 23 May 2001 20:45 Operator: rdc
Sample : L0105404-05 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:17 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration



TIC: 7M13064.D

(22) Benzo[k]fluoranthene

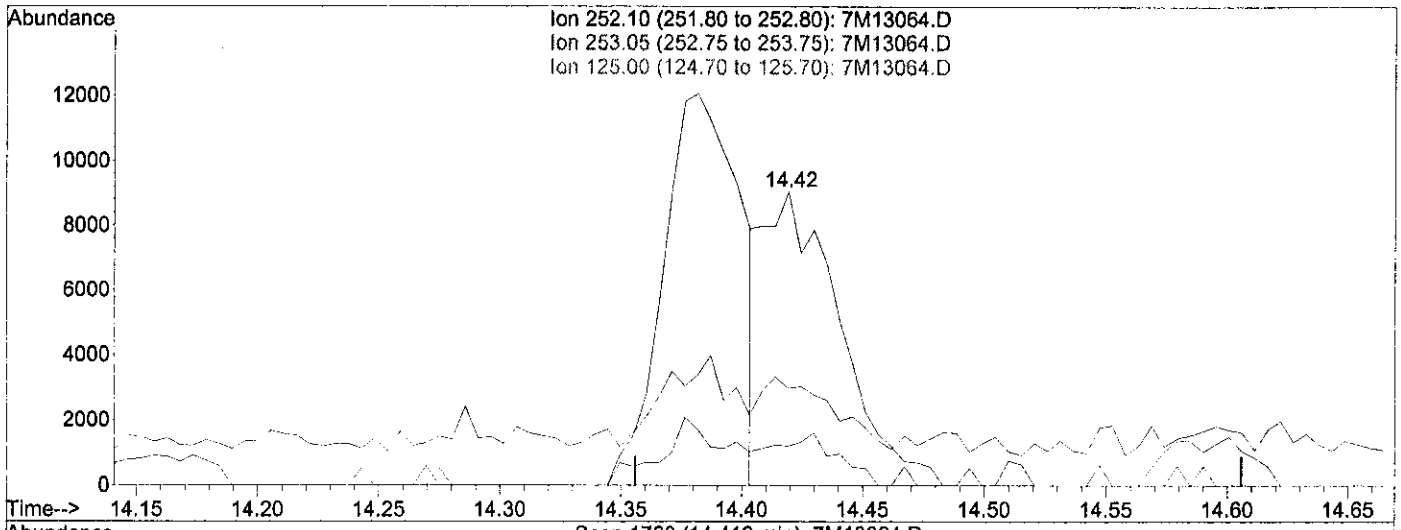
14.38min 3.31ug/ml

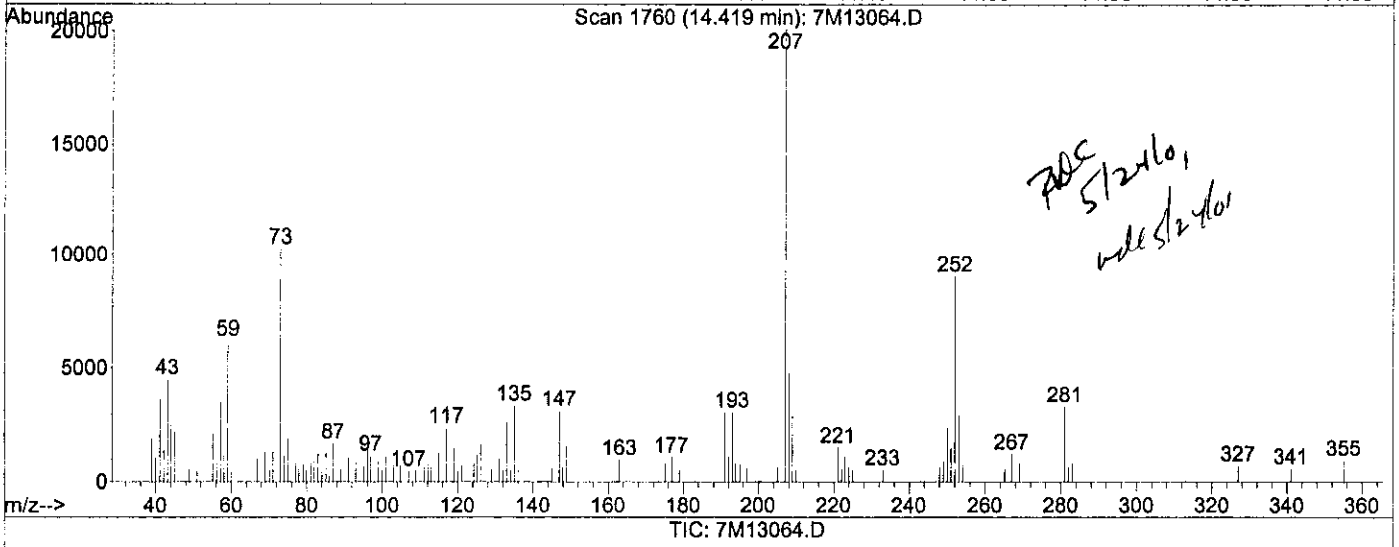
response 42992

Ion	Exp%	Act%
252.10	100	100
253.05	21.80	4.86#
125.00	11.10	14.05#
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052301\7M13064.D Vial: 19
Acq On : 23 May 2001 20:45 Operator: rdc
Sample : L0105404-05 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:17 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration





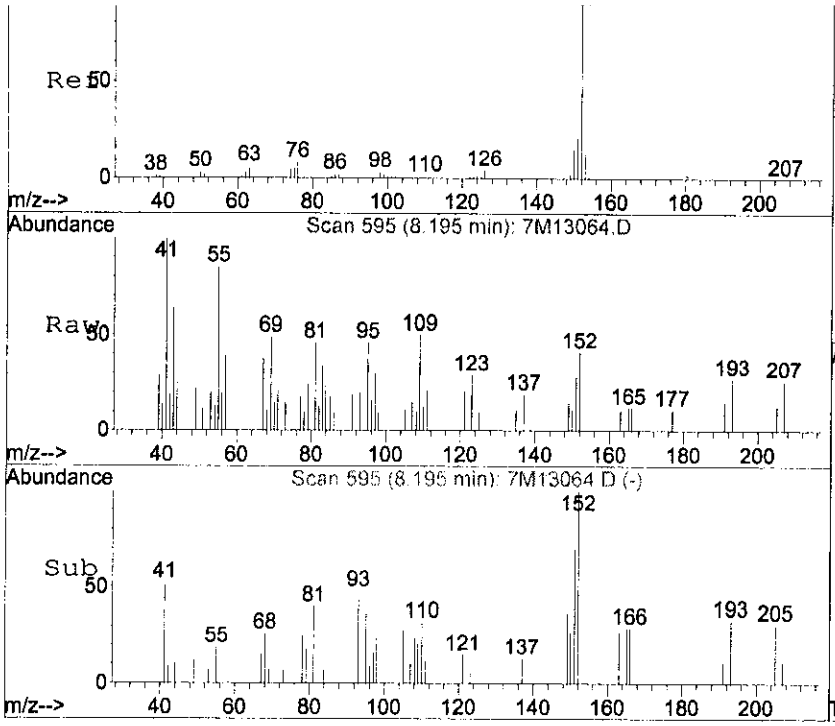
TIC: 7M13064.D

(22) Benzo[k]fluoranthene

14.42min 1.54ug/ml m

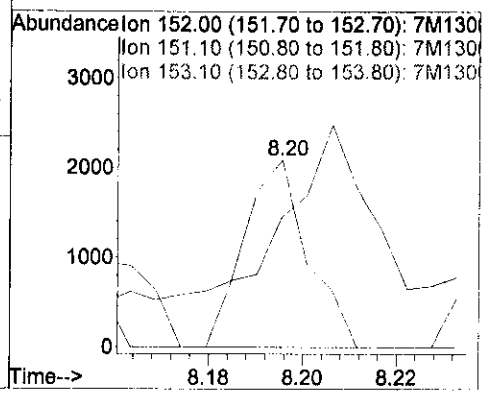
response 20045

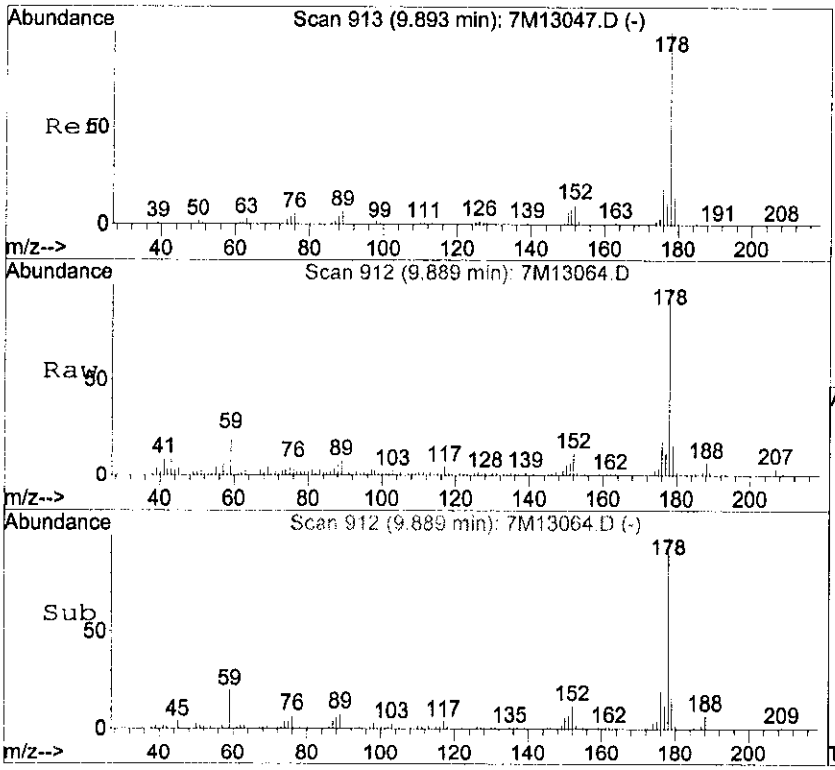
Ion	Exp%	Act%
252.10	100	100
253.05	21.80	10.42#
125.00	11.10	30.14#
0.00	0.00	0.00



Acenaphthylene
Concen: 4.21 ug/ml
RT: 8.20 min Scan# 595
Delta R.T. -0.01 min
Lab File: 7M13064.D
Acq: 23 May 2001 20:45

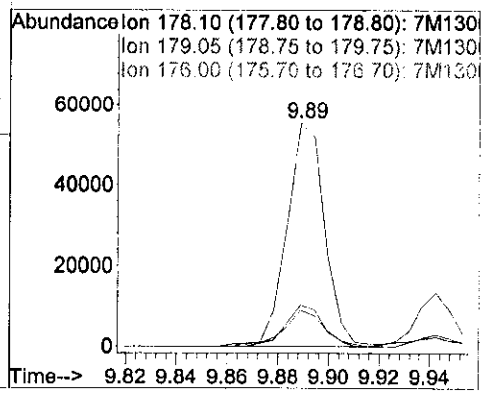
Tgt Ion:152	Resp:	1970
Ion	Ratio	Lower	Upper
152	100		
151	145.1	16.2	24.2#
153	0.0	10.2	15.2#

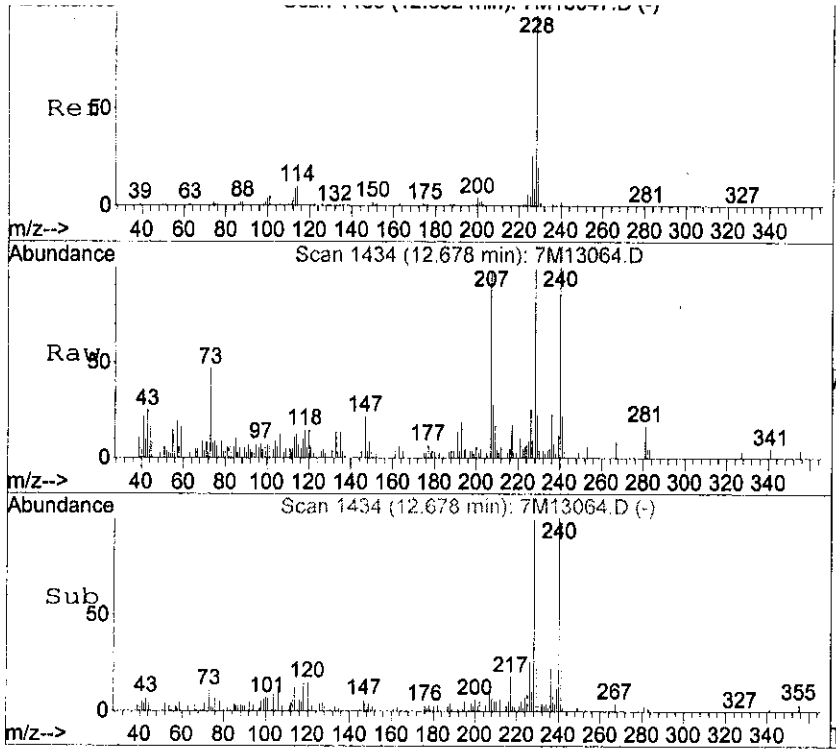




#12
Phenanthrene
Concen: 5.29 ug/ml
RT: 9.89 min Scan# 912
Delta R.T. -0.02 min
Lab File: 7M13064.D
Acq: 23 May 2001 20:45

Tgt Ion:178	Resp:	57767
Ion	Ratio	Lower	Upper
178	100		
179	17.0	12.3	18.5
176	18.3	15.4	23.2

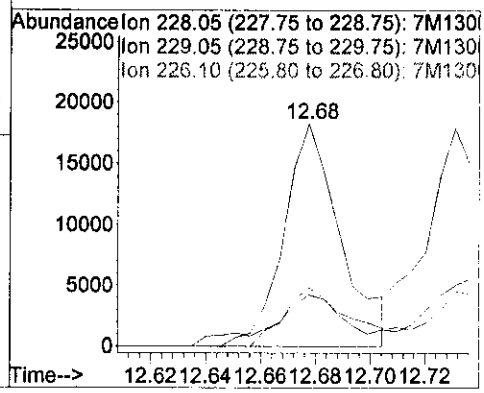


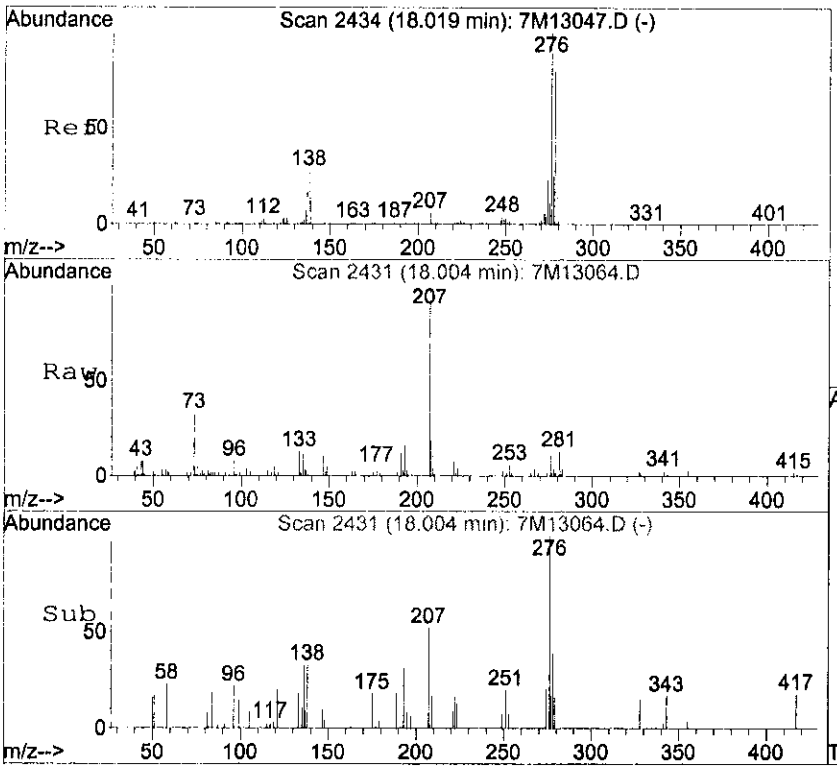


#18
Benzo[a]anthracene
Concen: 2.59 ug/ml
RT: 12.68 min Scan# 1434
Delta R.T. -0.02 min
Lab File: 7M13064.D
Acq: 23 May 2001 20:45

Tgt Ion:228 Resp: 26330

Ion	Ratio	Lower	Upper
228	100		
229	35.9	16.0	24.0#
226	28.5	21.1	31.7

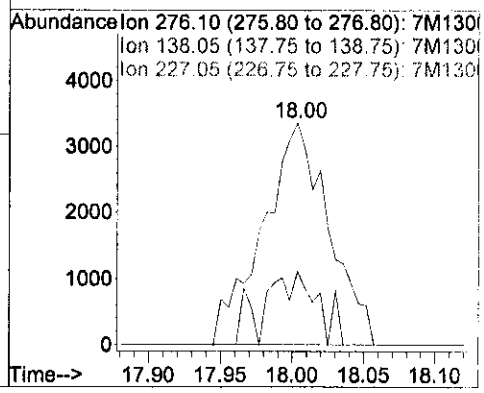


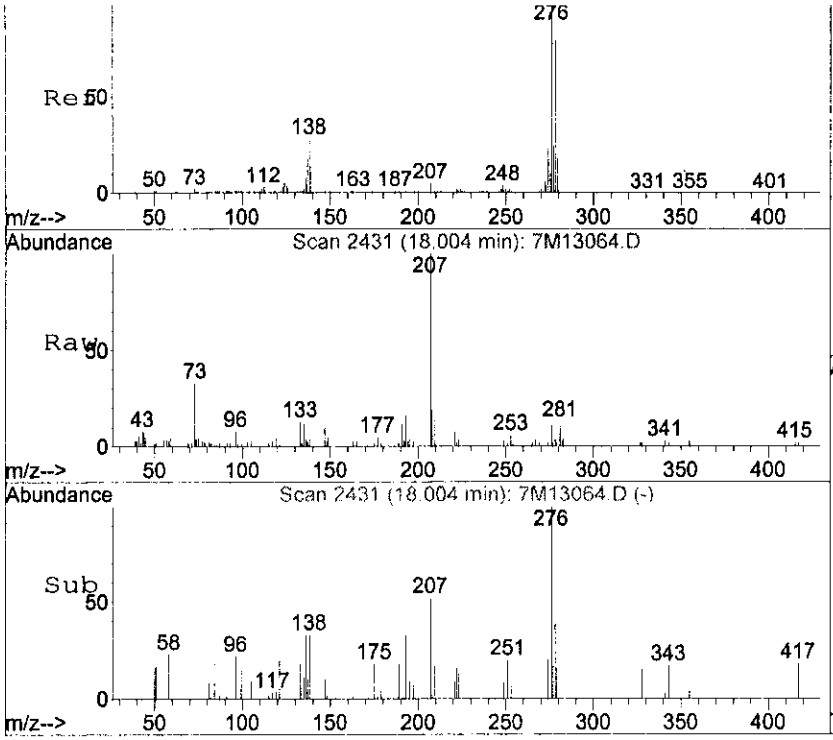


#24
Indeno[1,2,3-cd]pyrene
Concen: 7.22 ug/ml
RT: 18.00 min Scan# 2431
Delta R.T. -0.05 min
Lab File: 7M13064.D
Acq: 23 May 2001 20:45

Tgt Ion:276 Resp: 10770

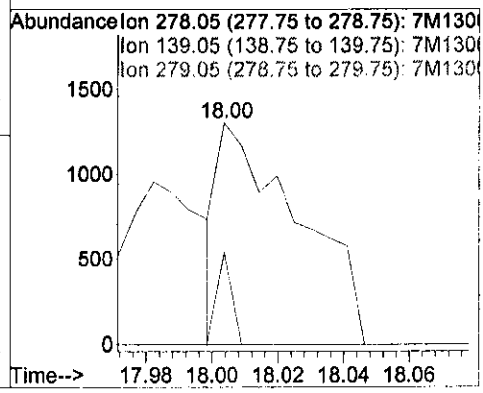
Ion	Ratio	Lower	Upper
276	100		
138	22.8	22.5	33.7
227	0.0	0.0	0.0





Dibenz[ah]anthracene
Concen: 6.81 ug/ml
RT: 18.00 min Scan# 2431
Delta R.T. -0.05 min
Lab File: 7M13064.D
Acq: 23 May 2001 20:45

Tgt Ion:278	Resp:	2220
Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.4	23.0#
279	7.8	19.1	28.7#



Data File : C:\HPCHEM\1\DATA\052501\4M8544.D Vial: 21
Acq On : 25 May 2001 8:53 Operator: mdc
Sample : L0105404-05 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001 Quant Results File: BNA.RES

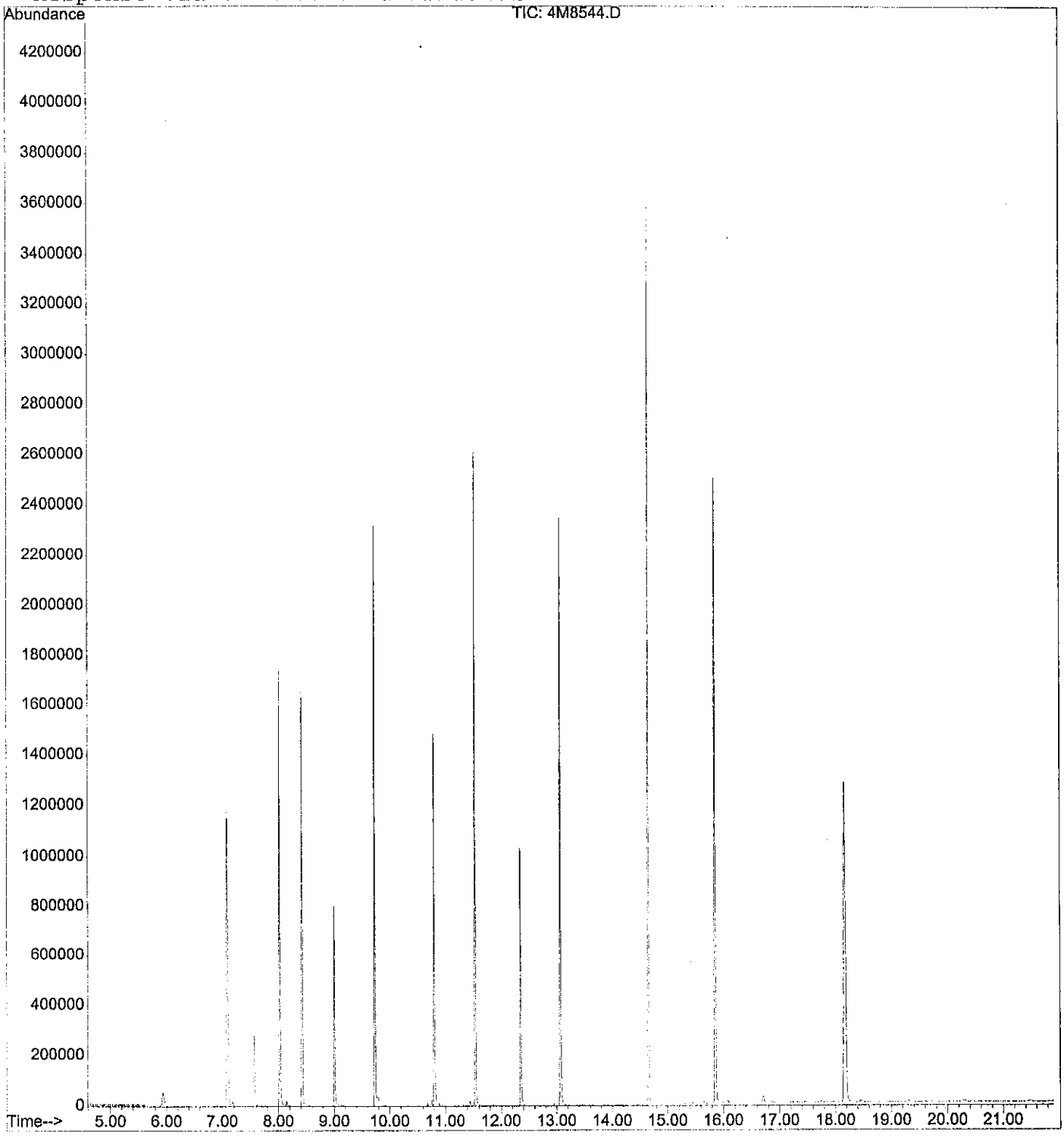
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	294315	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1057906	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	604023	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	908296	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1062231	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	1005152	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	519283	48.74	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 48.74%			
6) Phenol-d5	8.02	99	664960	51.54	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 51.54%			
20) Nitrobenzene-d5	9.01	82	276024	25.79	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 51.58%			
38) 2-Fluorobiphenyl	10.80	172	555687	24.89	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 49.78%			
55) 2,4,6-Tribromophenol	12.36	330	140992	46.51	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 46.51%			
70) p-Terphenyl-d14	14.66	244	1209283	43.41	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 86.82%			
Target Compounds						Qvalue
5) Aniline	8.02	66	31583	154.47	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8544.D BNA.M Fri May 25 09:19:33 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8544.D Vial: 21
Acq On : 25 May 2001 8:53 Operator: mdc
Sample : L0105404-05 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13060.D Vial: 15
Acq On : 23 May 2001 18:59 Operator: rdc
Sample : L0105404-06 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:14:01 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

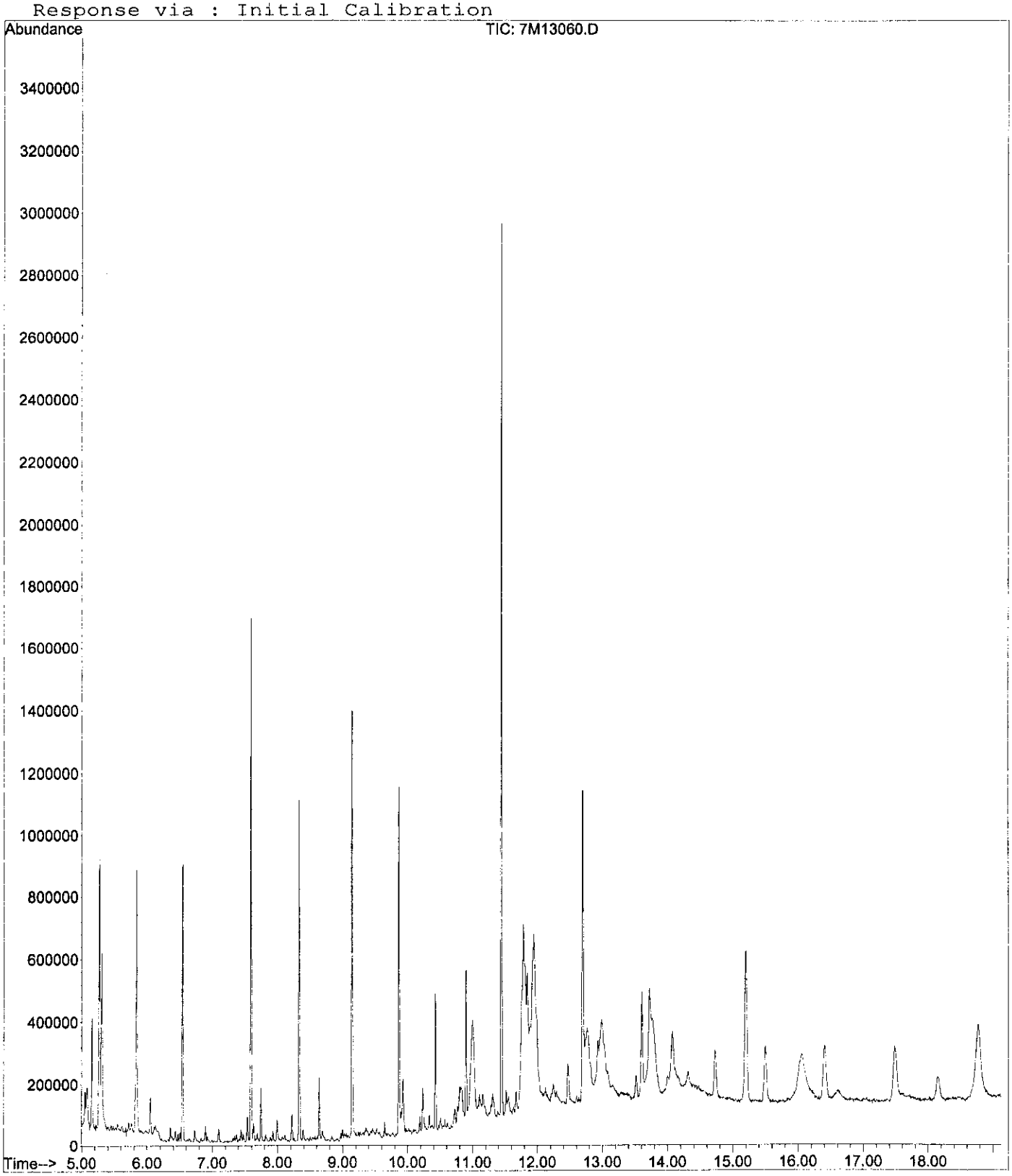
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	444317	1.00	ug/ml	-0.01
6) Acenaphthene-d10	8.33	164	251709	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	412006	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	383696	1.00	ug/ml	-0.02
20) Perylene-d12	15.20	264	389425	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	246049	1.75	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 70.00%			
7) 2-Fluorobiphenyl	7.60	172	554303	1.50	ug/ml	-0.01
Spiked Amount 2.500	Range 30 - 115		Recovery = 60.00%			
17) p-Terphenyl-d14	11.45	244	828484	1.98	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 79.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13060.D PAHLOW.M Thu May 24 09:34:58 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13060.D Vial: 15
Acq On : 23 May 2001 18:59 Operator: rdc
Sample : L0105404-06 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:34 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052501\4M8545.D Vial: 22
Acq On : 25 May 2001 9:25 Operator: mdc
Sample : L0105404-06 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 10:15 2001 Quant Results File: BNA.RES

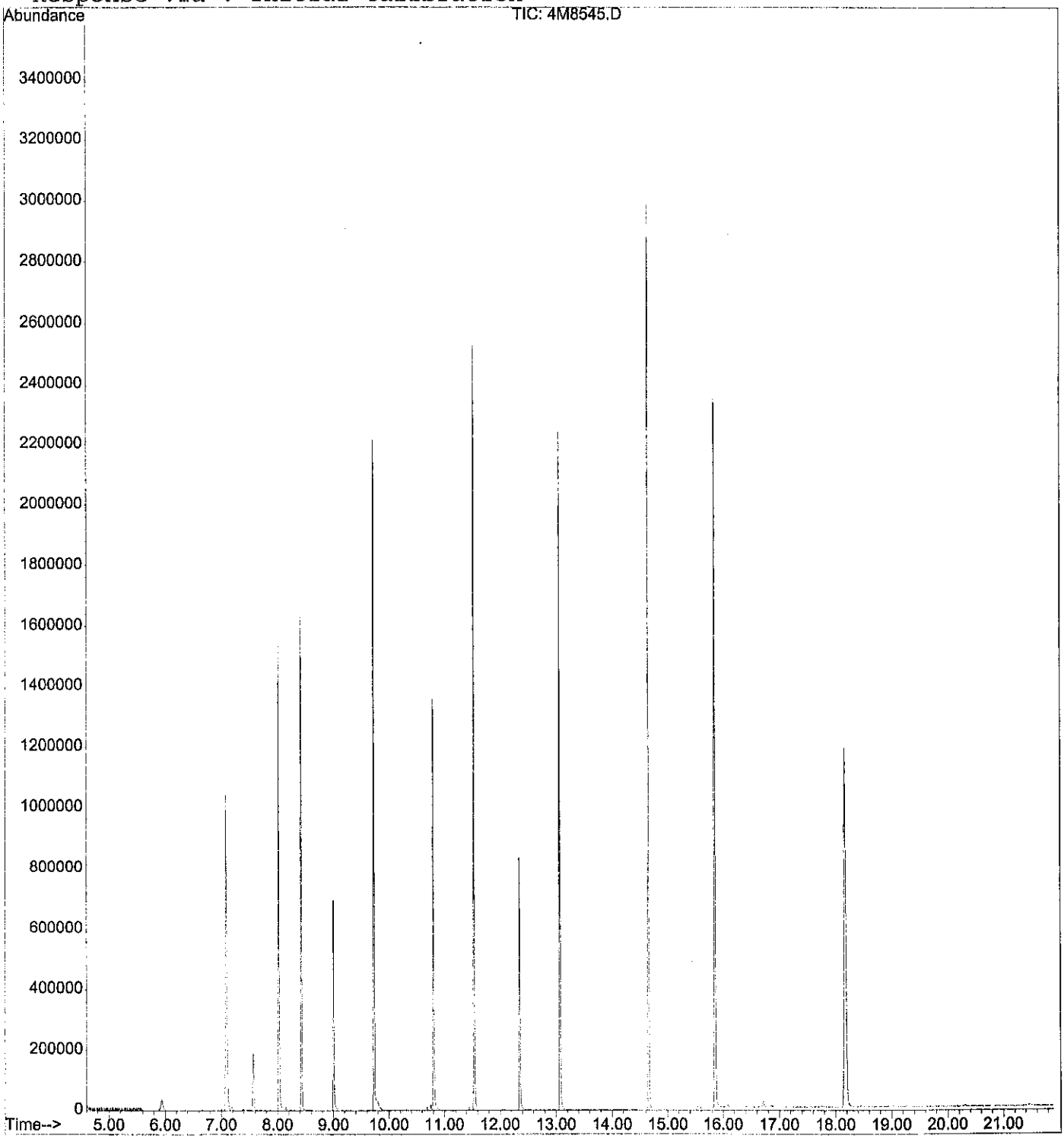
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	280422	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1006796	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	587223	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	867419	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	989054	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	932707	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	464139	45.72	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 45.72%			
6) Phenol-d5	8.02	99	594058	48.33	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 48.33%			
20) Nitrobenzene-d5	9.01	82	247700	24.32	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 48.64%			
38) 2-Fluorobiphenyl	10.80	172	503241	23.18	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 46.36%			
55) 2,4,6-Tribromophenol	12.36	330	114770	39.89	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 39.89%			
70) p-Terphenyl-d14	14.66	244	1022905	39.43	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 78.86%			
Target Compounds						Qvalue
5) Aniline	8.02	66	27575	141.55	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8545.D BNA.M Fri May 25 10:15:23 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8545.D Vial: 22
Acq On : 25 May 2001 9:25 Operator: mdc
Sample : L0105404-06 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 10:15 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13061.D Vial: 16
Acq On : 23 May 2001 19:26 Operator: rdc
Sample : L0105404-07 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:15:41 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

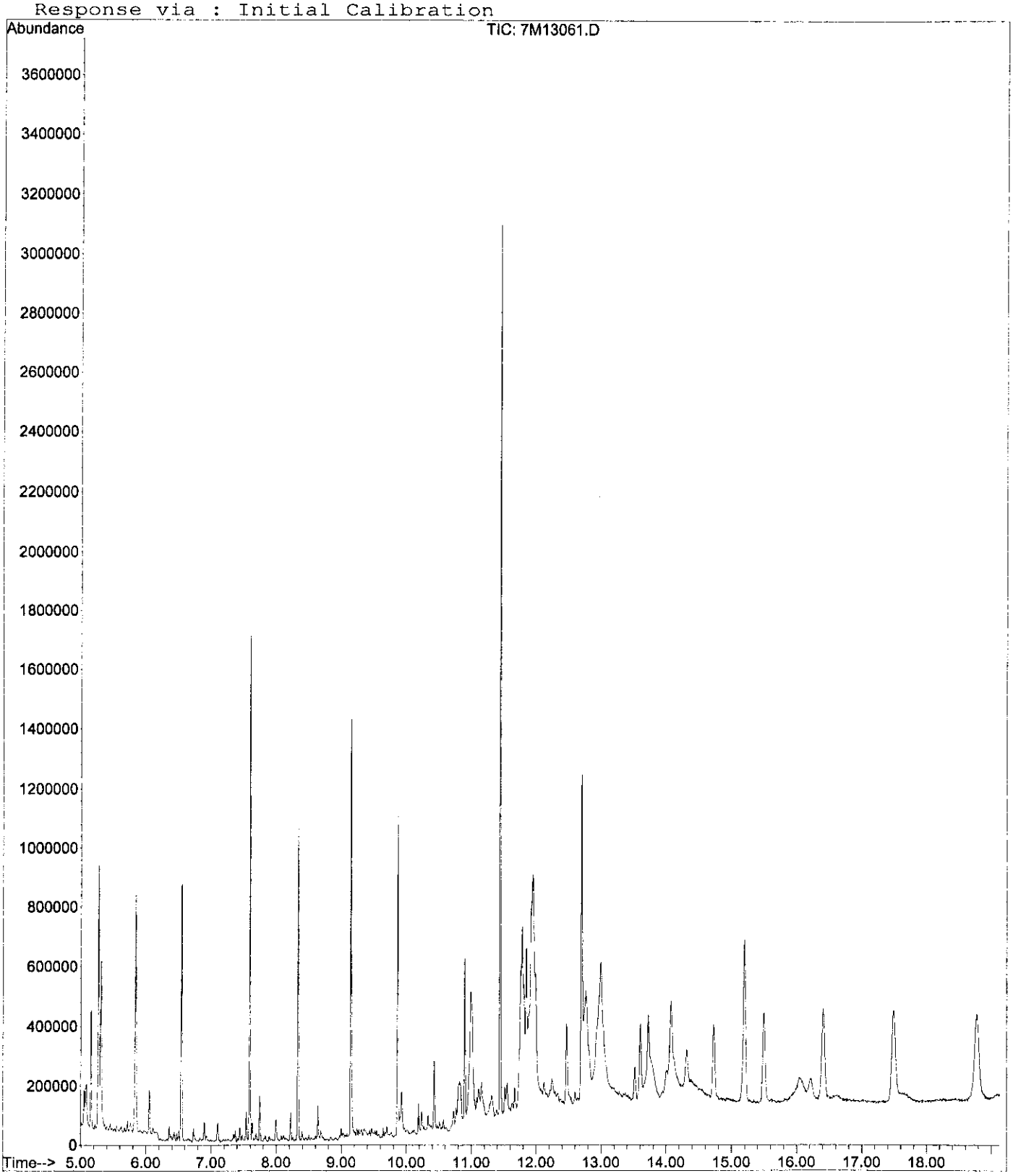
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	437988	1.00	ug/ml	-0.01
6) Acenaphthene-d10	8.33	164	243272	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	408712	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	406308	1.00	ug/ml	-0.01
20) Perylene-d12	15.20	264	415151	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	238276	1.72	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 68.80%			
7) 2-Fluorobiphenyl	7.60	172	553464	1.55	ug/ml	-0.01
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.00%			
17) p-Terphenyl-d14	11.45	244	877620	1.99	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 79.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13061.D PAHLOW.M Thu May 24 09:34:06 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13061.D Vial: 16
Acq On : 23 May 2001 19:26 Operator: rdc
Sample : L0105404-07 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:34 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052501\4M8546.D Vial: 23
Acq On : 25 May 2001 9:57 Operator: mdc
Sample : L0105404-07 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 10:23 2001 Quant Results File: BNA.RES

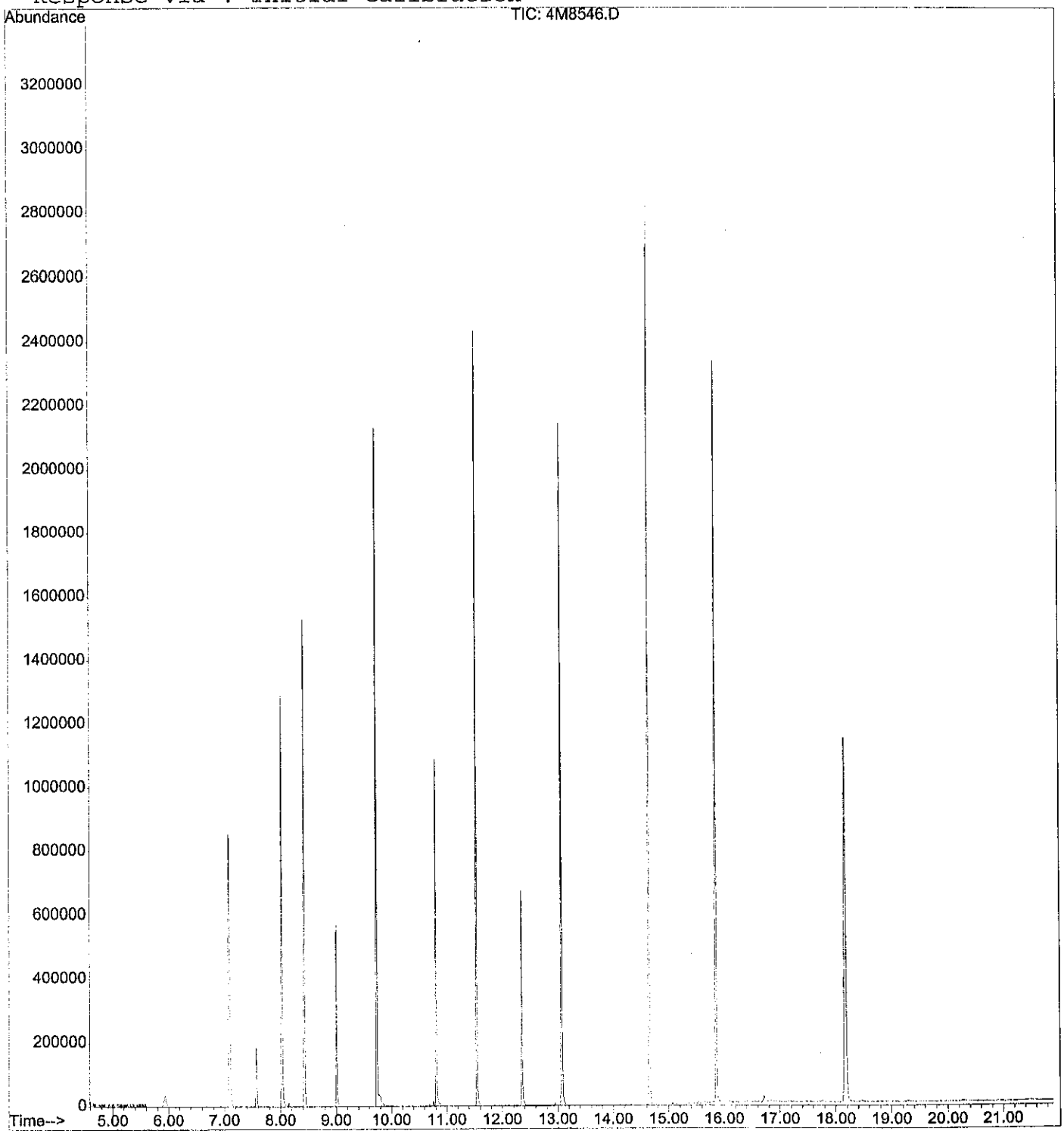
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	273654	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	983669	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	558210	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	838248	40.00	ug/ml	0.00
67) Chrysene-d12	15.85	240	958639	40.00	ug/ml	0.00
76) Perylene-d12	18.17	264	905460	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	386224	38.99	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 38.99%			
6) Phenol-d5	8.02	99	498177	41.53	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 41.53%			
20) Nitrobenzene-d5	9.01	82	202930	20.39	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 40.78%			
38) 2-Fluorobiphenyl	10.81	172	419159	20.31	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 40.62%			
55) 2,4,6-Tribromophenol	12.35	330	91496	34.20	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 34.20%			
70) p-Terphenyl-d14	14.66	244	974424	38.75	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 77.50%			
Target Compounds						Qvalue
5) Aniline	8.02	66	23505	123.64	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8546.D BNA.M Fri May 25 10:23:44 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8546.D Vial: 23
Acq On : 25 May 2001 9:57 Operator: mdc
Sample : L0105404-07 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 10:23 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052301\7M13065.D Vial: 20
Acq On : 23 May 2001 21:12 Operator: rdc
Sample : L0105404-08 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:18:04 2001 Quant Results File: PAHLOW.RES

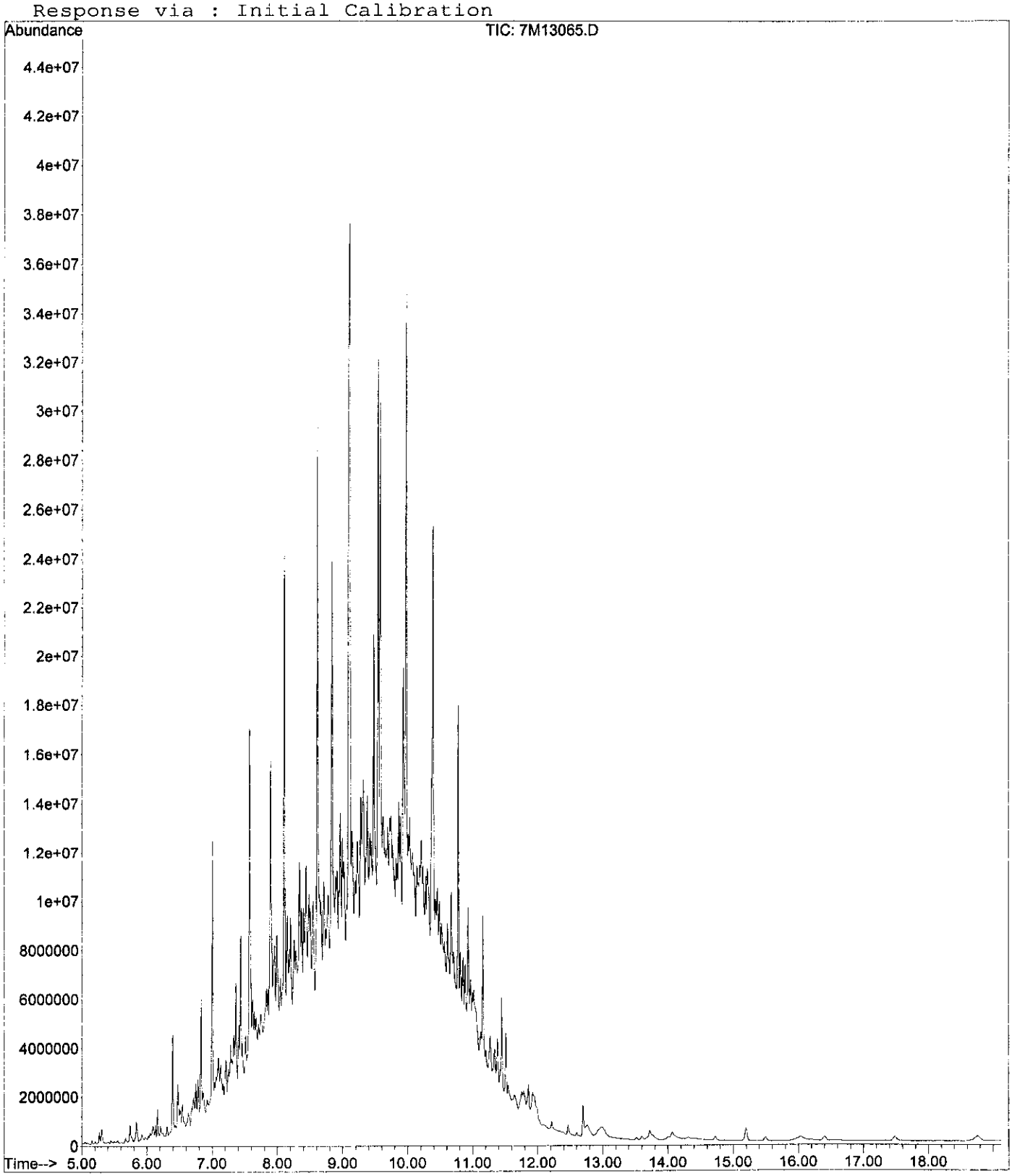
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

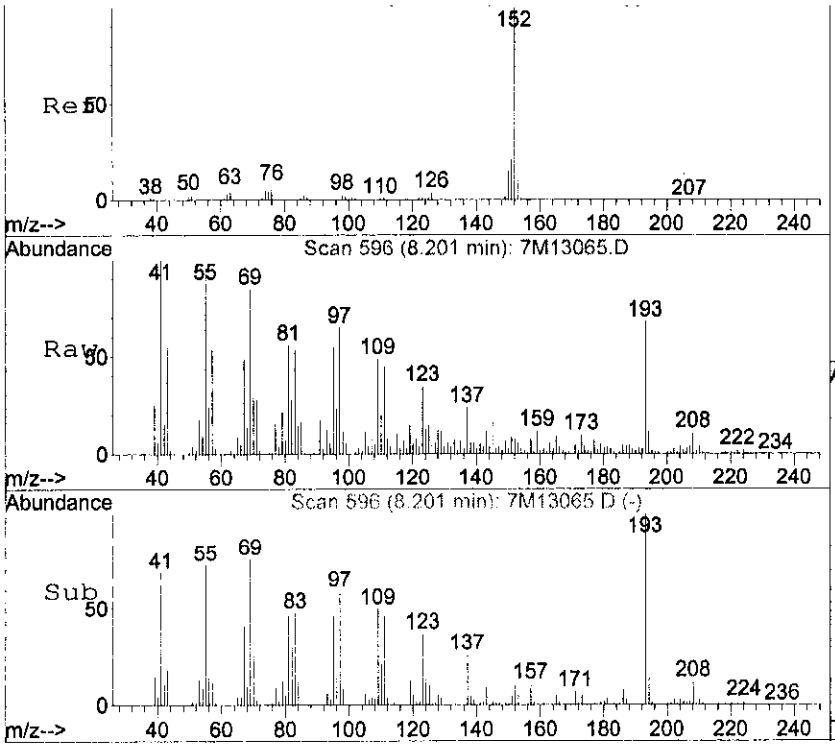
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	473536	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	328621	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	596693	1.00	ug/ml	0.00
15) Chrysene-d12	12.70	240	448399	1.00	ug/ml	-0.02
20) Perylene-d12	15.19	264	425449	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	199285	1.34	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 53.60%			
7) 2-Fluorobiphenyl	7.59	172	552294	1.14	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 45.60%			
17) p-Terphenyl-d14	11.45	244	1010255	2.07	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 82.80%			
Target Compounds						Qvalue
8) Acenaphthylene	8.20	152	28719	6.12	ug/ml#	1
9) Acenaphthene	8.40	154	41997	5.03	ug/ml#	54
10) Fluorene	8.89	166	58665	6.48	ug/ml#	17
12) Phenanthrene	9.89	178	553524	36.08	ug/ml#	69
13) Anthracene	9.95	178	366573	27.96	ug/ml#	1
16) Pyrene	11.38	202	138421	10.05	ug/ml#	54

(#) = qualifier out of range (m) = manual integration
7M13065.D PAHLOW.M Thu May 24 09:18:21 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13065.D Vial: 20
Acq On : 23 May 2001 21:12 Operator: rdc
Sample : L0105404-08 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:18 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration

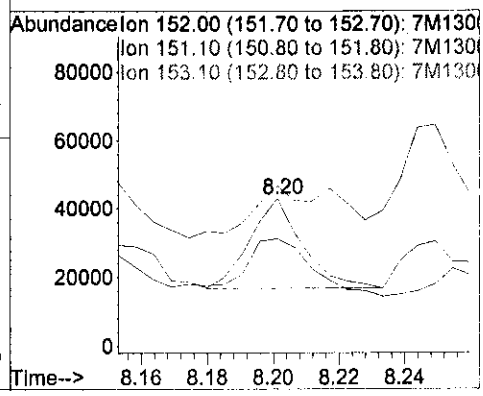


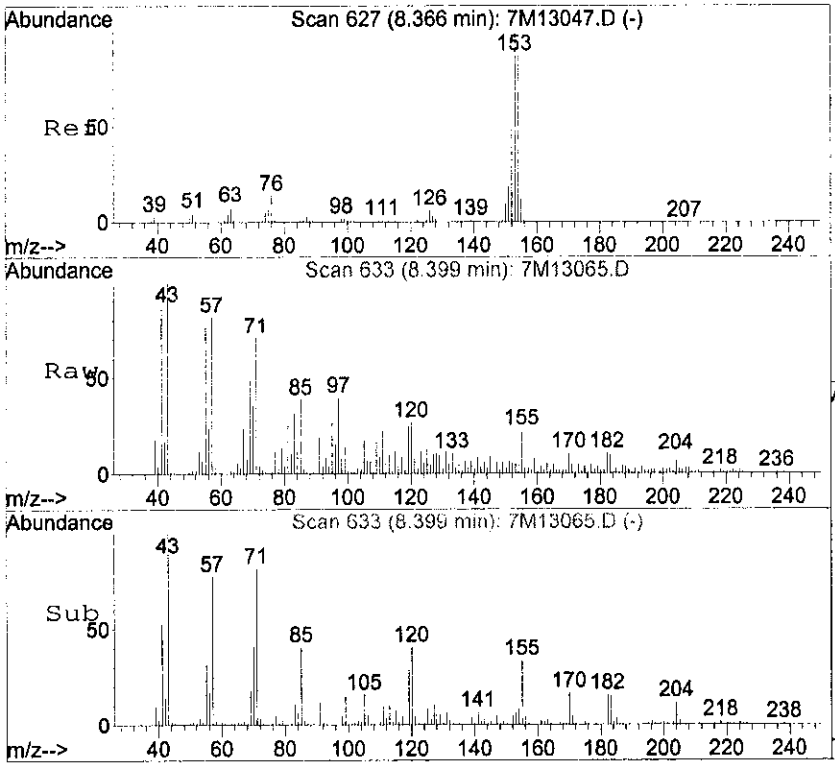


Acenaphthylene
Concen: 6.12 ug/ml
RT: 8.20 min Scan# 596
Delta R.T. -0.00 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

Tgt Ion:152 Resp: 28719

Ion	Ratio	Lower	Upper
152	100		
151	94.7	16.2	24.2#
153	82.9	10.2	15.2#

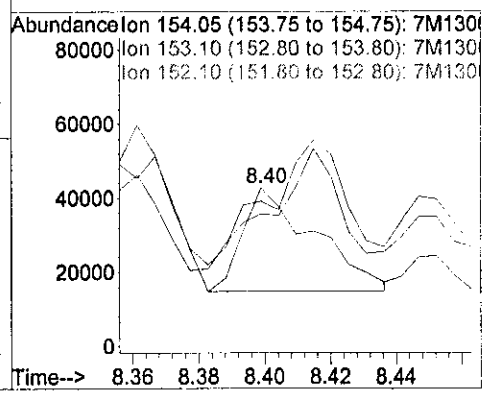


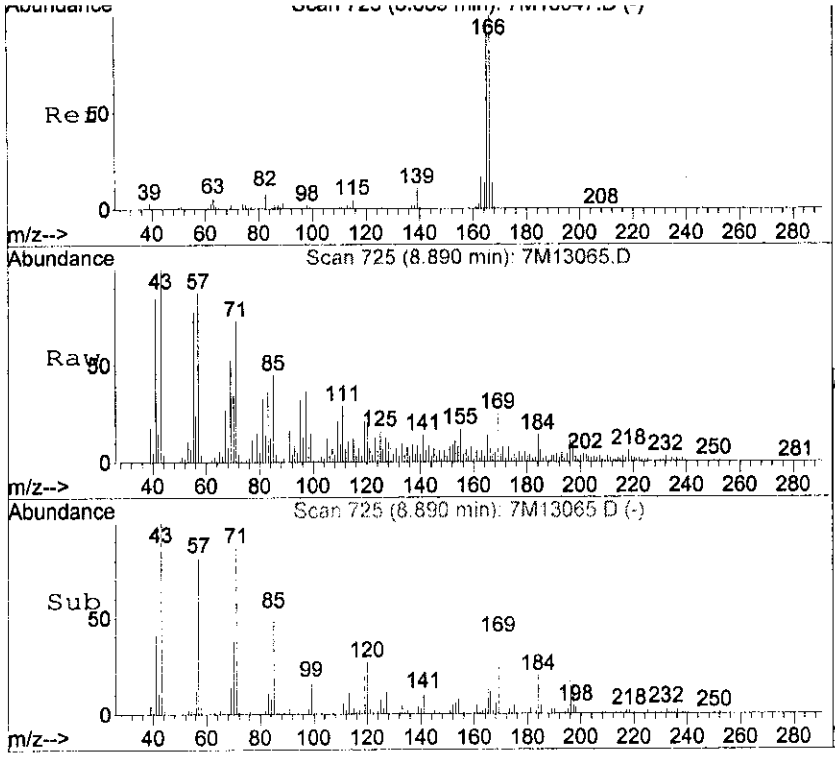


#9
Acenaphthene
Concen: 5.03 ug/ml
RT: 8.40 min Scan# 633
Delta R.T. 0.02 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

Tgt Ion:154 Resp: 41997

Ion	Ratio	Lower	Upper
154	100		
153	130.2	84.2	126.2#
152	114.8	40.8	61.2#

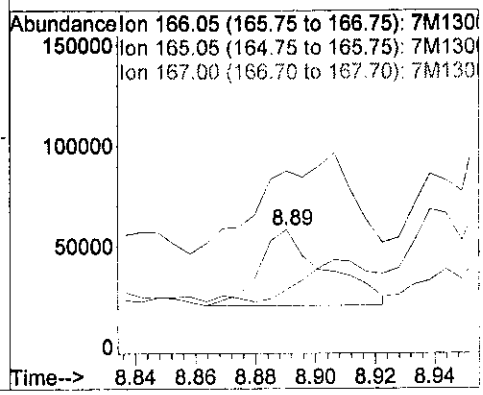


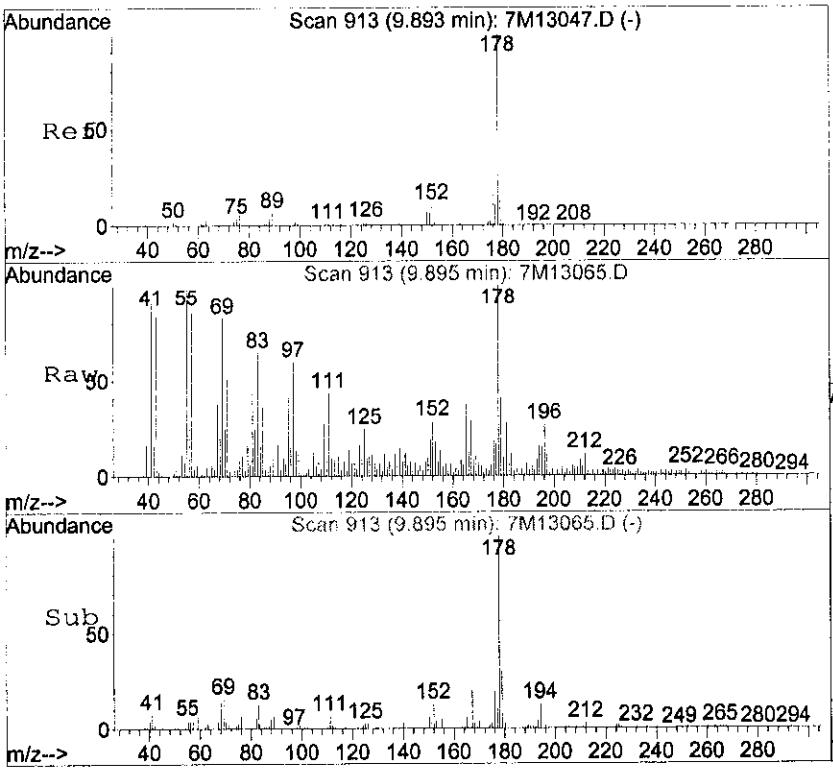


#10
Fluorene
Concen: 6.48 ug/ml
RT: 8.89 min Scan# 725
Delta R.T. -0.01 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

Tgt Ion:166 Resp: 58665

Ion	Ratio	Lower	Upper
166	100		
165	172.2	75.8	113.8#
167	57.8	11.0	16.4#

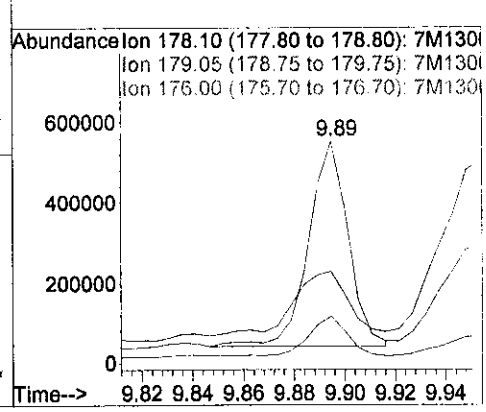


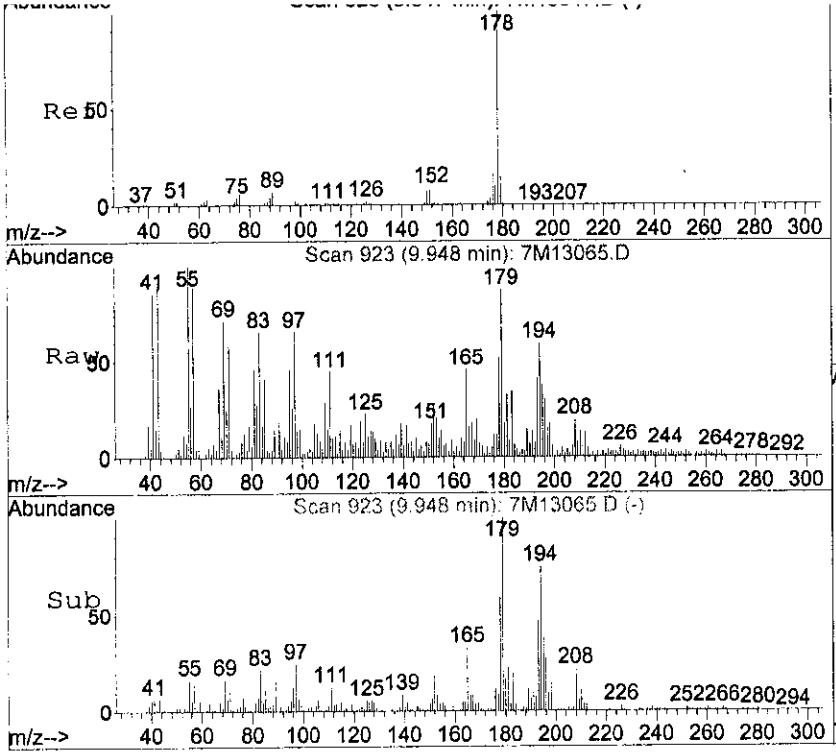


#12
Phenanthrene
Concen: 36.08 ug/ml
RT: 9.89 min Scan# 913
Delta R.T. -0.01 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

Tgt Ion:178 Resp: 553524

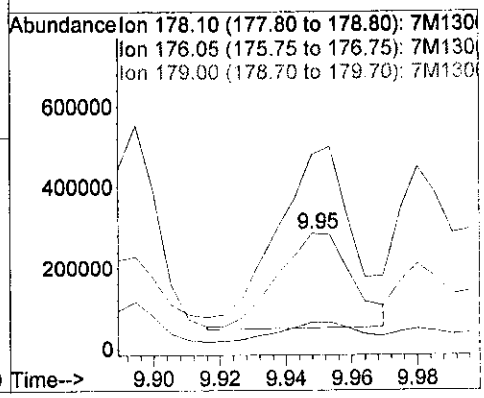
Ion	Ratio	Lower	Upper
178	100		
179	43.8	12.3	18.5#
176	18.2	15.4	23.2

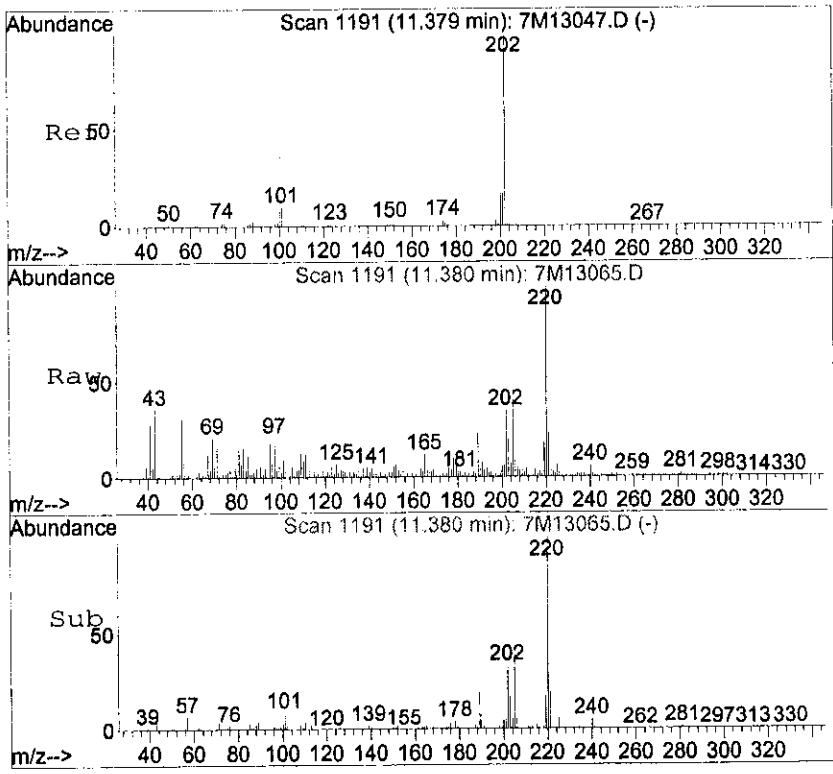




Anthracene
Concen: 27.96 ug/ml
RT: 9.95 min Scan# 923
Delta R.T. -0.01 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

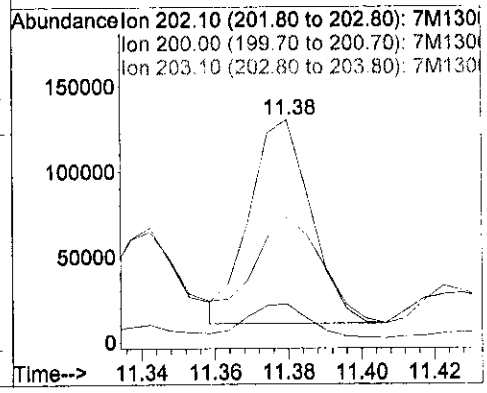
Tgt Ion:178	Resp:	366573
Ion	Ratio	Lower	Upper
178	100		
176	21.5	15.0	22.4
179	166.8	12.2	18.4#





#16
Pyrene
Concen: 10.05 ug/ml
RT: 11.38 min Scan# 1191
Delta R.T. -0.00 min
Lab File: 7M13065.D
Acq: 23 May 2001 21:12

Tgt Ion:202	Resp:	138421
Ion	Ratio	Lower	Upper
202	100		
200	17.1	16.2	24.2
203	57.7	14.6	22.0#



Data File : C:\HPCHEM\1\DATA\052501\4M8547.D Vial: 24
Acq On : 25 May 2001 10:29 Operator: mdc
Sample : L0105404-08 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 11:01 2001 Quant Results File: BNA.RES

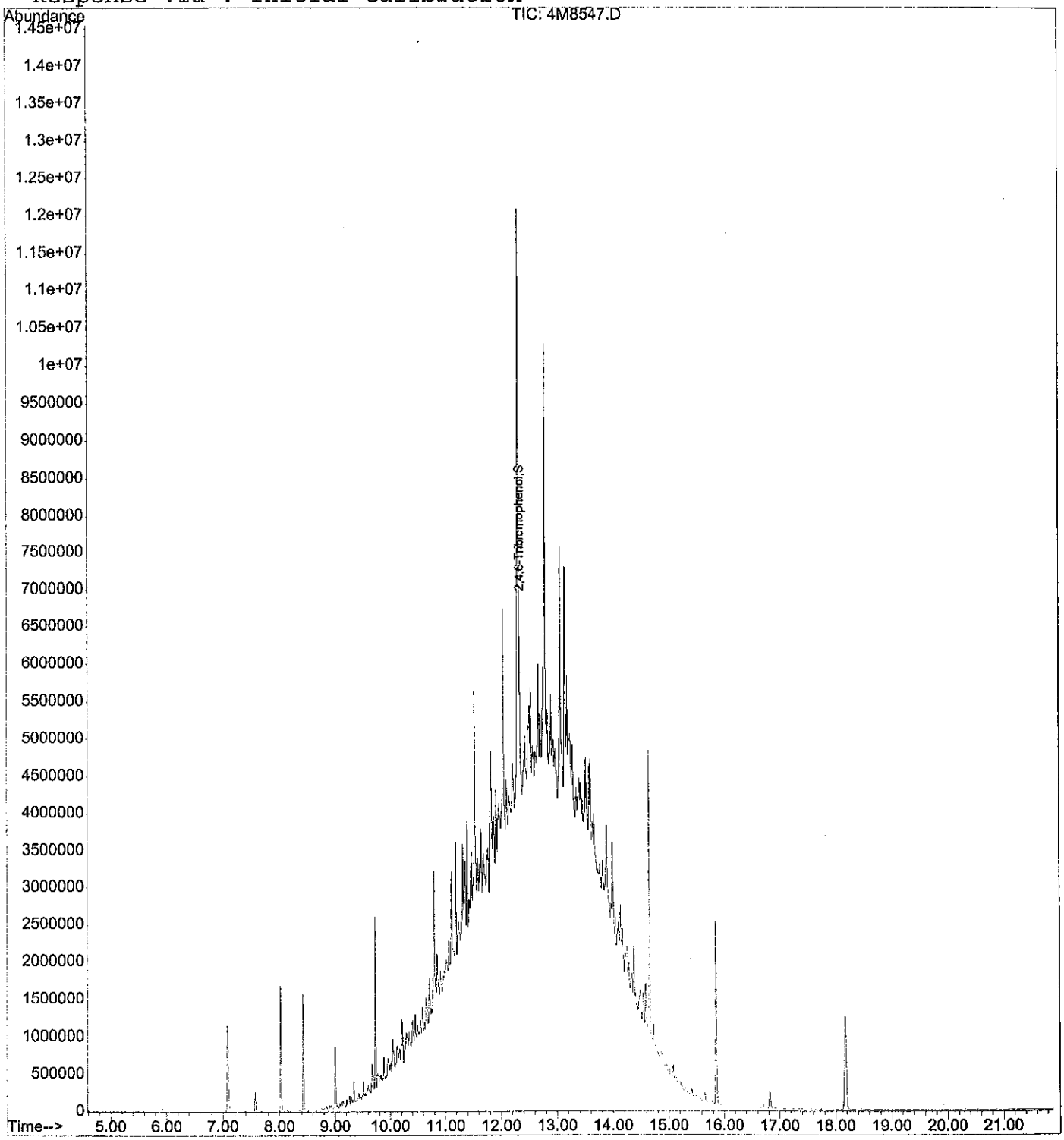
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

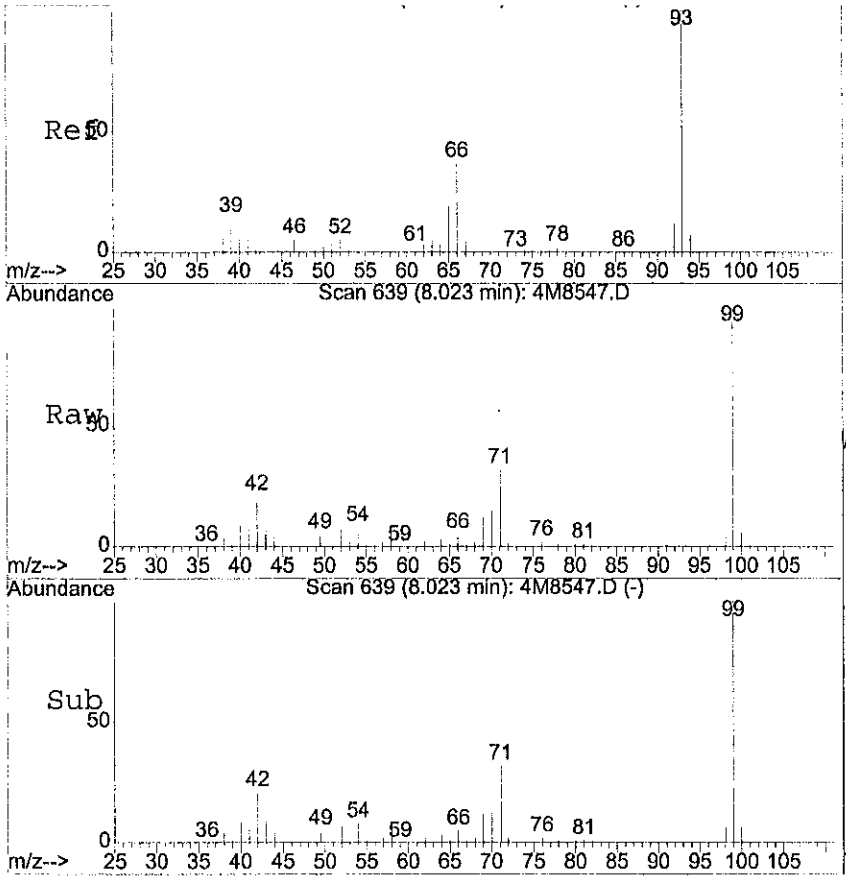
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	271257	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1012282	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	647387	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	1152249	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	973264	40.00	ug/ml	0.00
76) Perylene-d12	18.17	264	962798	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	489046	49.80	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 49.80%			
6) Phenol-d5	8.02	99	655921	55.16	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 55.16%			
20) Nitrobenzene-d5	9.01	82	281244	27.46	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 54.92%			
38) 2-Fluorobiphenyl	10.81	172	642003	26.83	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 53.66%			
55) 2,4,6-Tribromophenol	12.36	330	348403	92.90	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 92.90%			
70) p-Terphenyl-d14	14.66	244	1287651	50.44	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 100.88%			
Target Compounds						Qvalue
5) Aniline	8.02	66	30974	164.37	ug/ml#	1
46) 2,4-Dinitrophenol	11.60	184	1307	263.31	ug/ml#	1
58) n-Nitrosodiphenylamine	12.18	169	107853	199.31	ug/ml#	70
61) Pentachlorophenol	12.89	266	637	314.47	ug/ml#	1
64) Carbazole	13.29	167	22299	Below Cal	#	69

(#) = qualifier out of range (m) = manual integration
4M8547.D BNA.M Fri May 25 11:01:42 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8547.D Vial: 24
Acq On : 25 May 2001 10:29 Operator: mdc
Sample : L0105404-08 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 11:01 2001 Quant Results File: BNA.RES

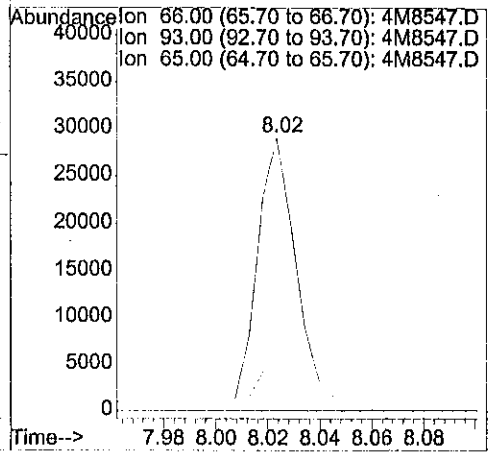
Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration

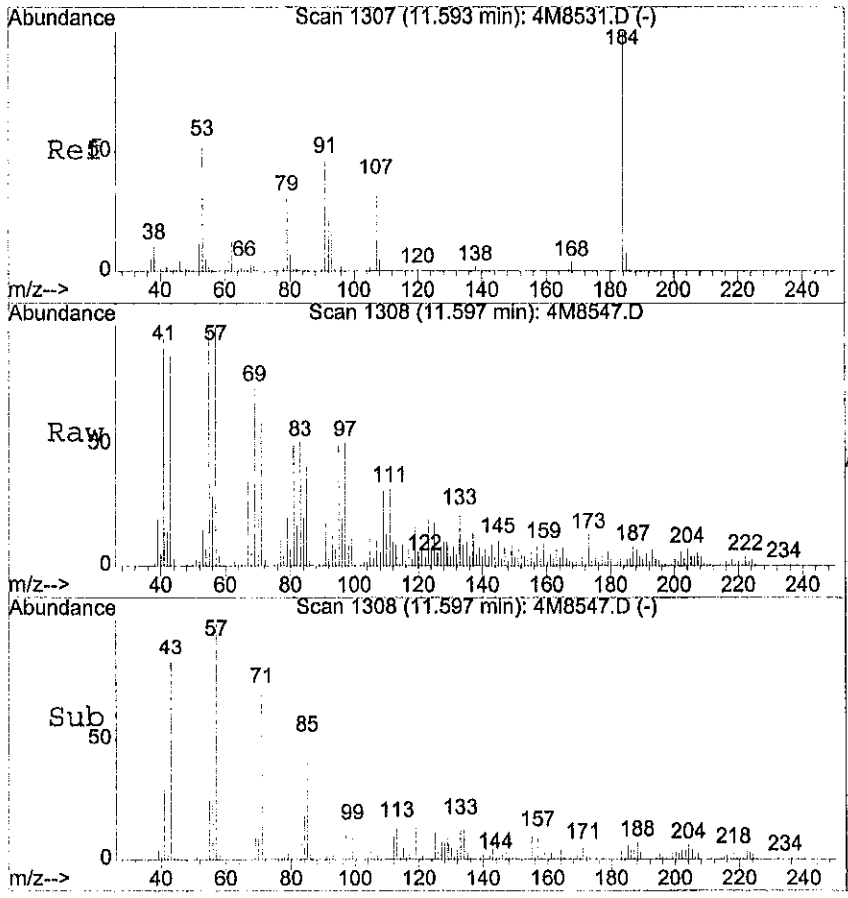




#5
Aniline
Concen: 164.37 ug/ml
RT: 8.02 min Scan# 639
Delta R.T. -0.08 min
Lab File: 4M8547.D
Acq: 25 May 2001 10:29

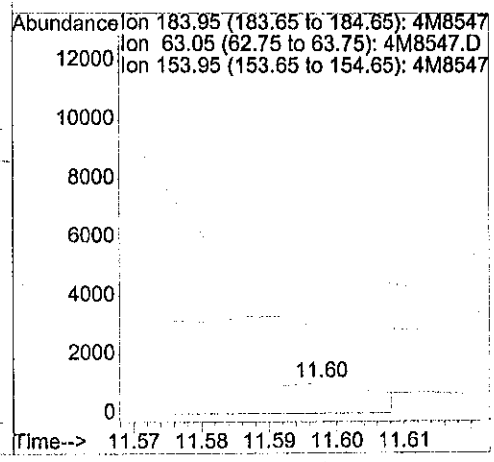
Tgt Ion: 66	Resp:	30974	
Ion	Ratio	Lower	Upper
66	100		
93	0.0	205.1	307.7#
65	18.3	40.5	60.7#

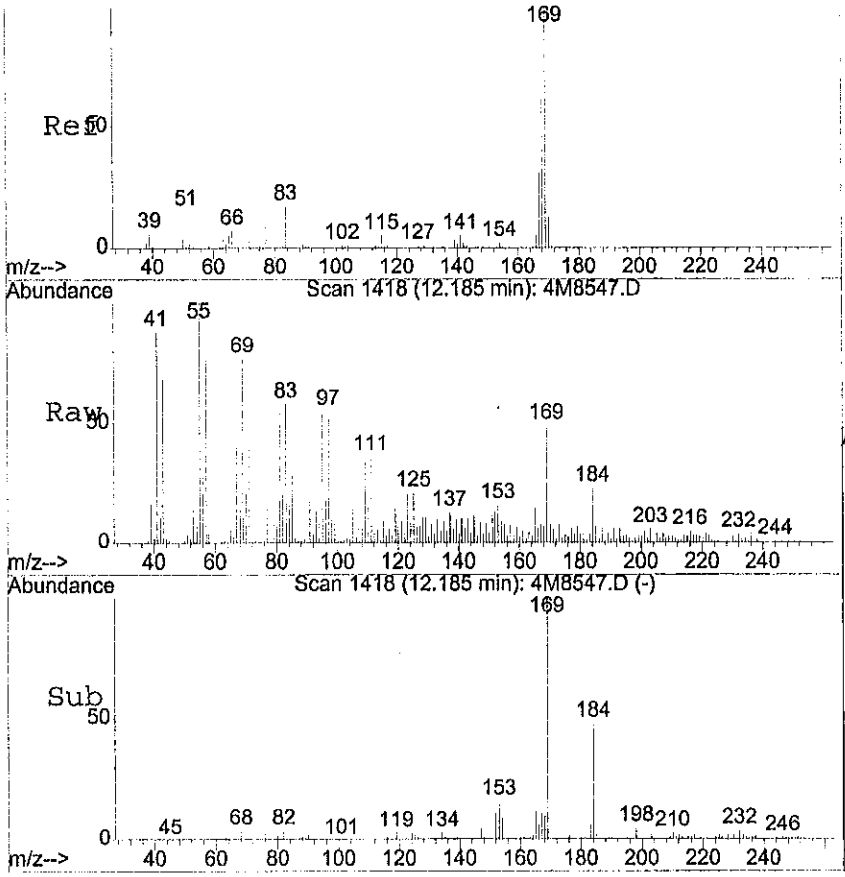




#46
2,4-Dinitrophenol
Concen: 263.31 ug/ml
RT: 11.60 min Scan# 1308
Delta R.T. 0.01 min
Lab File: 4M8547.D
Acq: 25 May 2001 10:29

Tgt Ion:184	Resp:	1307	
Ion	Ratio	Lower	Upper
184	100		
63	83.8	101.9	152.9#
154	151.0	658.6	988.0#

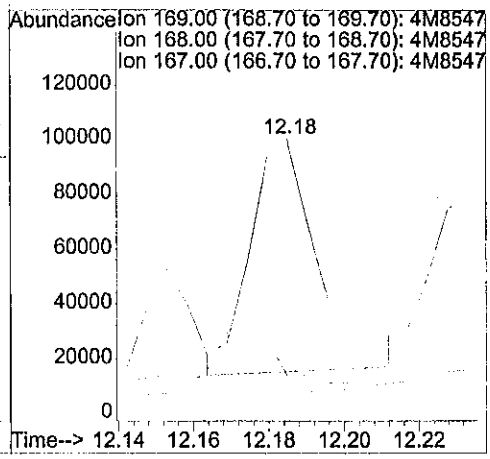


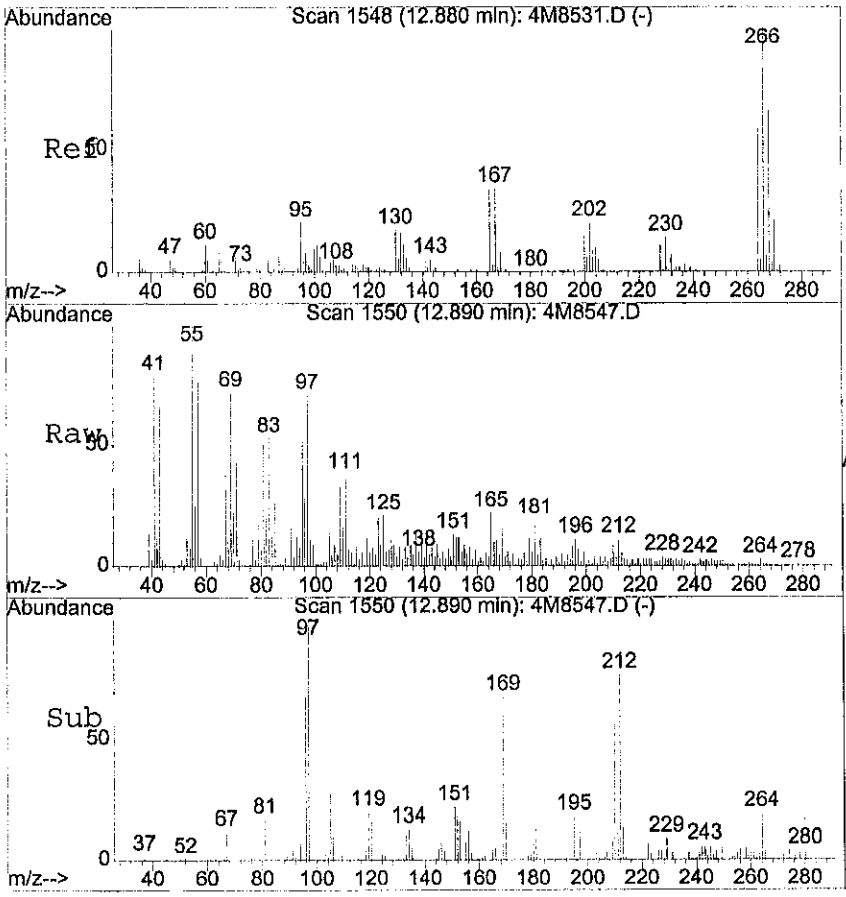


n-Nitrosodiphenylamine
Concen: 199.31 ug/ml
RT: 12.18 min Scan# 1418
Delta R.T. 0.01 min
Lab File: 4M8547.D
Acq: 25 May 2001 10:29

Tgt Ion:169 Resp: 107853

Ion	Ratio	Lower	Upper
169	100		
168	31.7	49.4	74.2#
167	25.9	27.0	40.4#

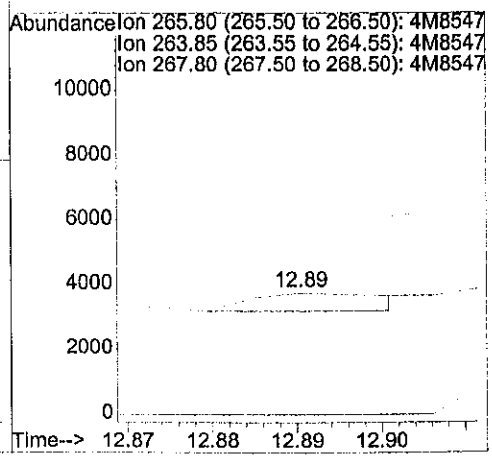


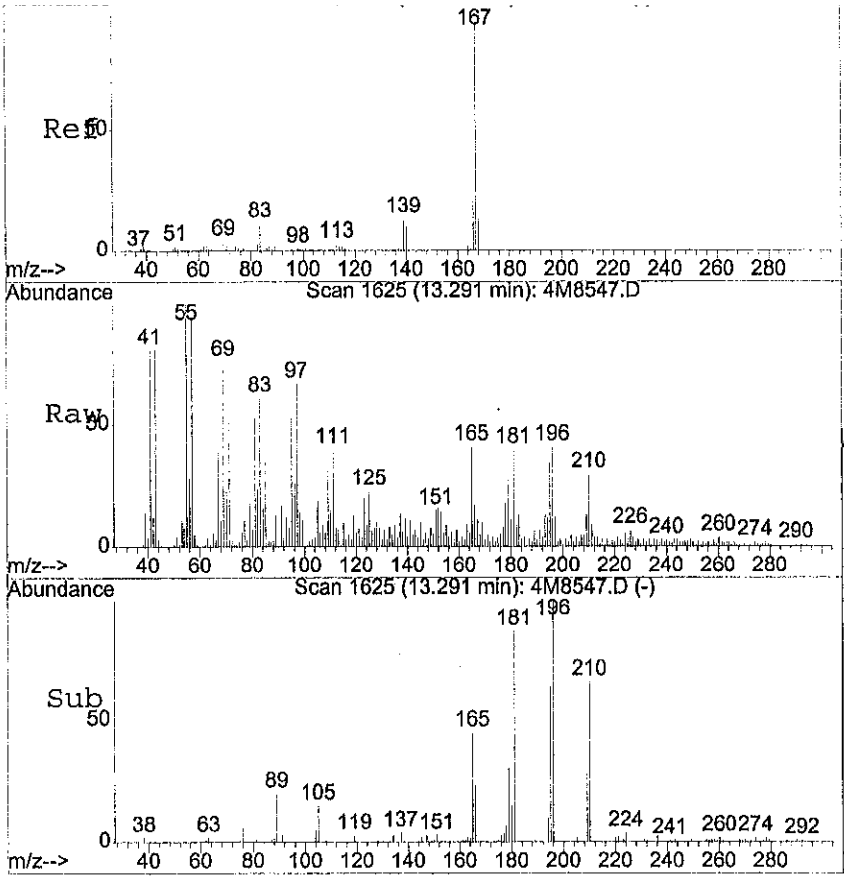


#61
Pentachlorophenol
Concen: 314.47 ug/ml
RT: 12.89 min Scan# 1550
Delta R.T. 0.02 min
Lab File: 4M8547.D
Acq: 25 May 2001 10:29

Tgt Ion:266 Resp: 637

Ion	Ratio	Lower	Upper
266	100		
264	508.2	50.1	75.1#
268	0.0	51.3	76.9#

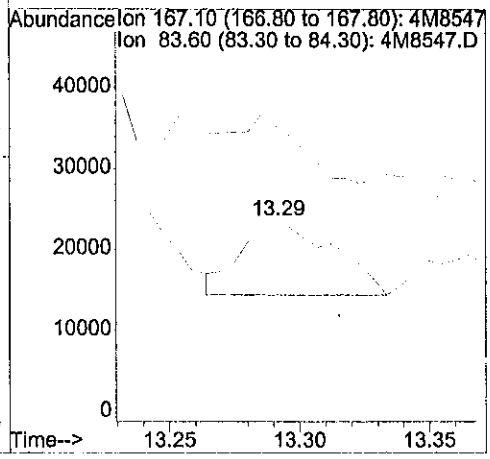




#01
Carbazole
Concen: Below Cal
RT: 13.29 min Scan# 1625
Delta R.T. -0.01 min
Lab File: 4M8547.D
Acq: 25 May 2001 10:29

Tgt Ion:167 Resp: 22299

Ion	Ratio	Lower	Upper
167	100		
84	0.0	9.5	14.3#



Data File : C:\MSDCHEM\1\DATA\052301\7M13062.D Vial: 17
Acq On : 23 May 2001 19:52 Operator: rdc
Sample : L0105404-09 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:16:08 2001 Quant Results File: PAHLOW.RES

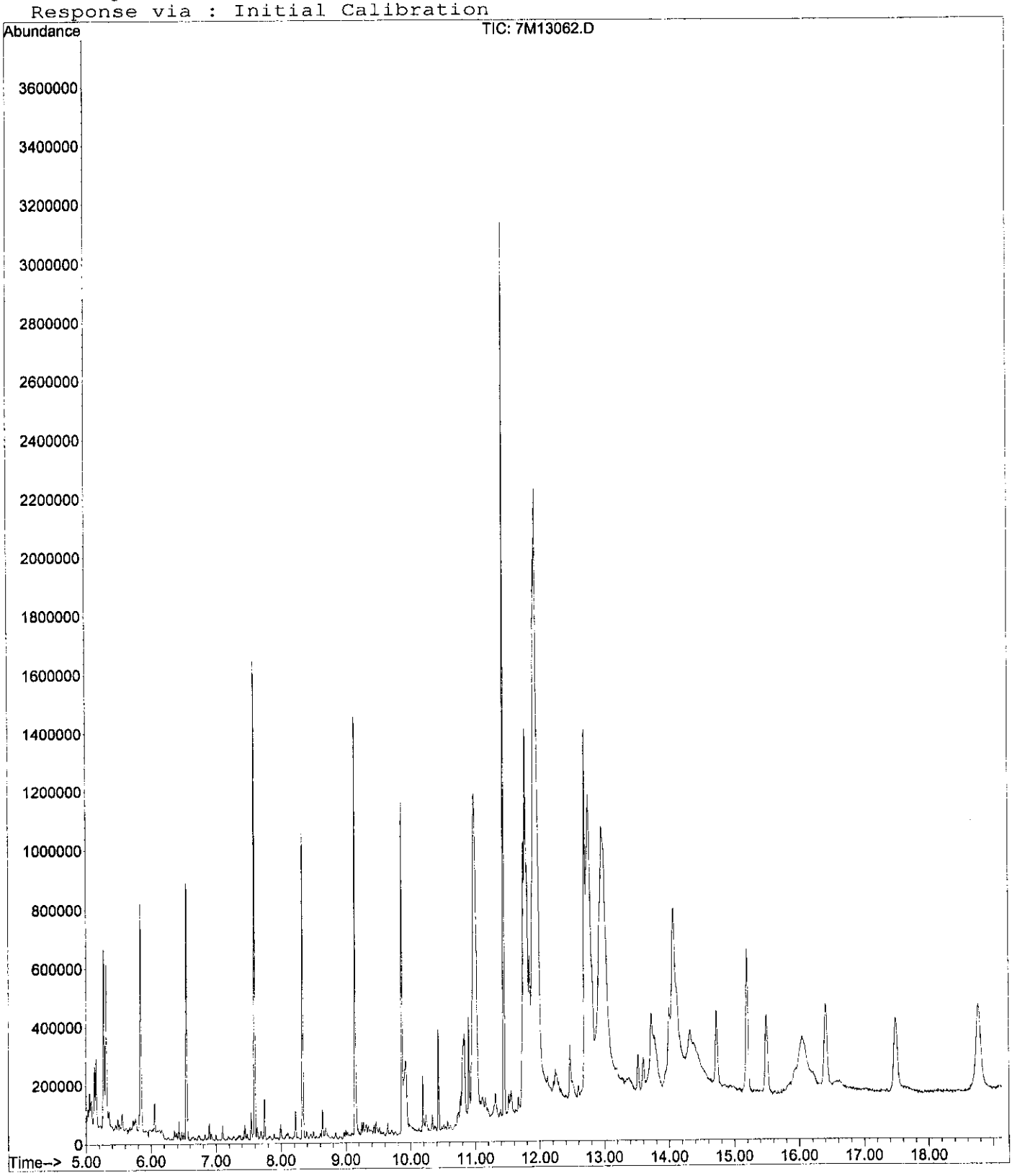
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.54	136	439421	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	247317	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	404823	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	387796	1.00	ug/ml	-0.02
20) Perylene-d12	15.19	264	389554	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	224237	1.62	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 64.80%			
7) 2-Fluorobiphenyl	7.59	172	512871	1.41	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 56.40%			
17) p-Terphenyl-d14	11.45	244	895439	2.12	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 84.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
7M13062.D PAHLOW.M Thu May 24 09:16:09 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13062.D Vial: 17
Acq On : 23 May 2001 19:52 Operator: rdc
Sample : L0105404-09 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052501\4M8548.D Vial: 25
Acq On : 25 May 2001 11:00 Operator: mdc
Sample : L0105404-09 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 11:29 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	280055	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1065110	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	571908	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	856433	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	983116	40.00	ug/ml	0.00
76) Perylene-d12	18.17	264	931611	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	509107	50.22	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 50.22%			
6) Phenol-d5	8.02	99	650231	52.96	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 52.96%			
20) Nitrobenzene-d5	9.00	82	276905	25.70	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 51.40%			
38) 2-Fluorobiphenyl	10.80	172	550662	26.05	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 52.10%			
55) 2,4,6-Tribromophenol	12.35	330	140702	48.65	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 48.65%			
70) p-Terphenyl-d14	14.65	244	1102910	42.77	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 85.54%			
Target Compounds						Qvalue
5) Aniline	8.02	66	30329	155.89	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8548.D BNA.M Fri May 25 11:29:40 2001 HPMS4 Page 1

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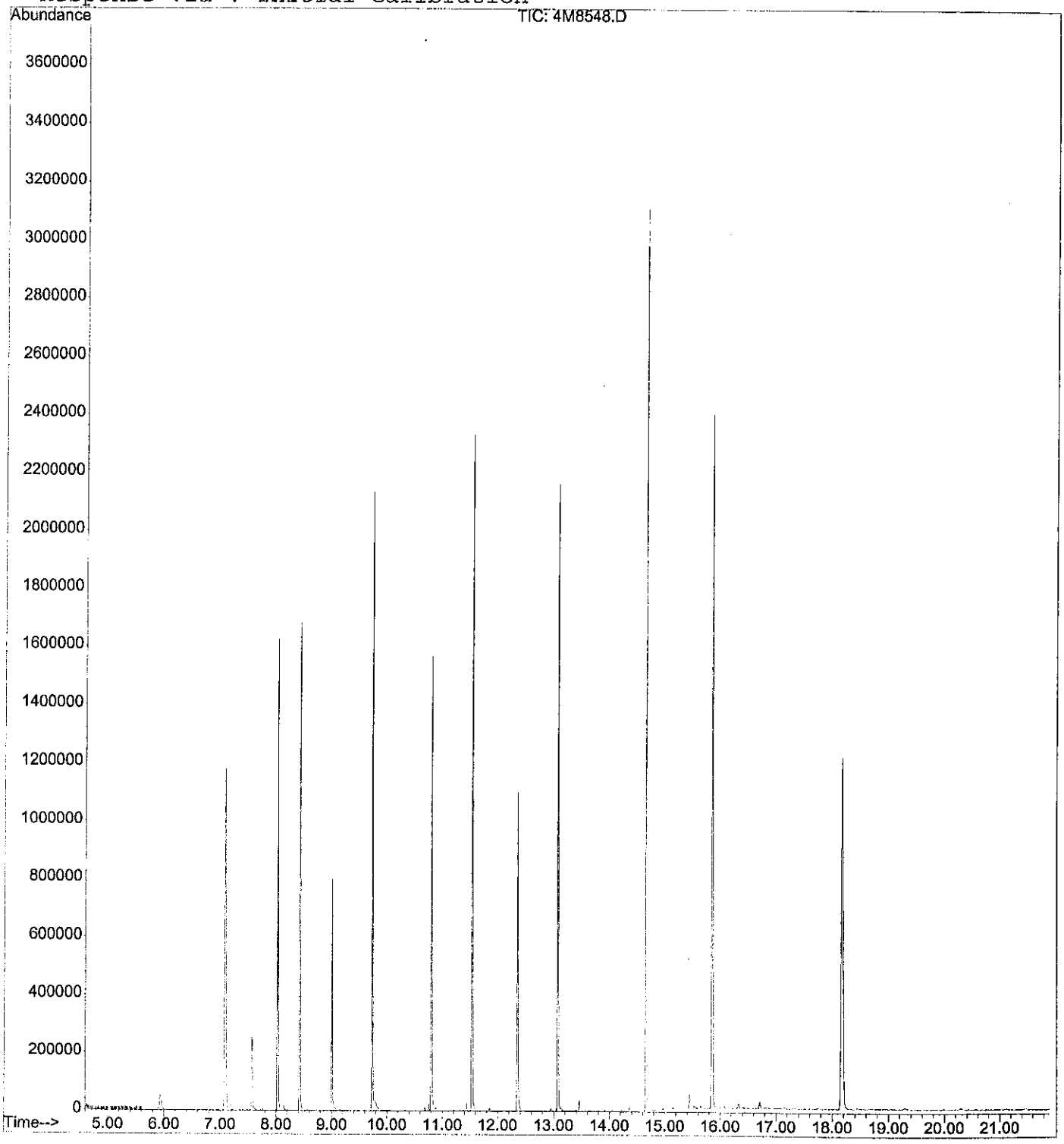
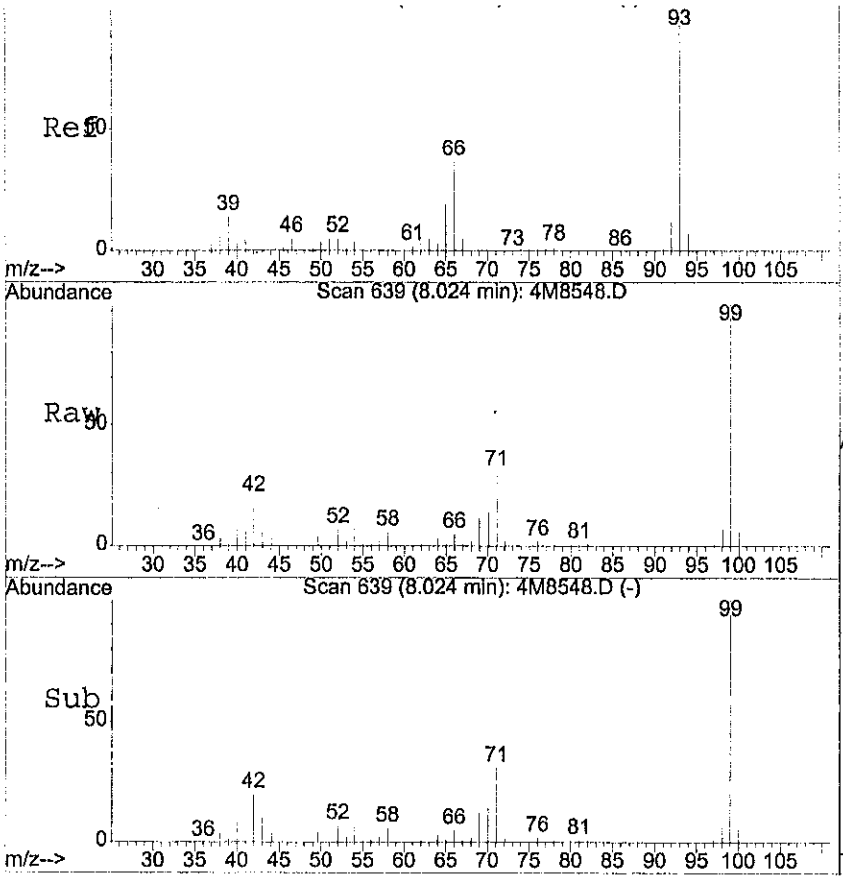
Data File : C:\HPCHEM\1\DATA\052501\4M8548.D
Acq On : 25 May 2001 11:00
Sample : L0105404-09 SOIL
Misc : SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 25 11:29 2001

Vial: 25
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

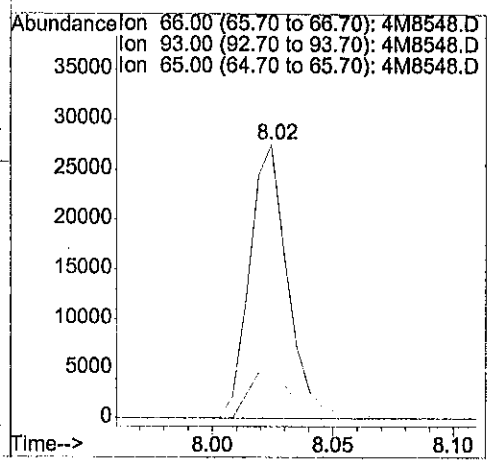
Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration





#5
Aniline
Concen: 155.89 ug/ml
RT: 8.02 min Scan# 639
Delta R.T. -0.08 min
Lab File: 4M8548.D
Acq: 25 May 2001 11:00

Tgt Ion: 66	Resp:	30329	
Ion	Ratio	Lower	Upper
66	100		
93	0.0	205.1	307.7#
65	18.6	40.5	60.7#



Data File : C:\MSDCHEM\1\DATA\052301\7M13063.D Vial: 18
Acq On : 23 May 2001 20:19 Operator: rdc
Sample : L0105404-10 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 09:16:27 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

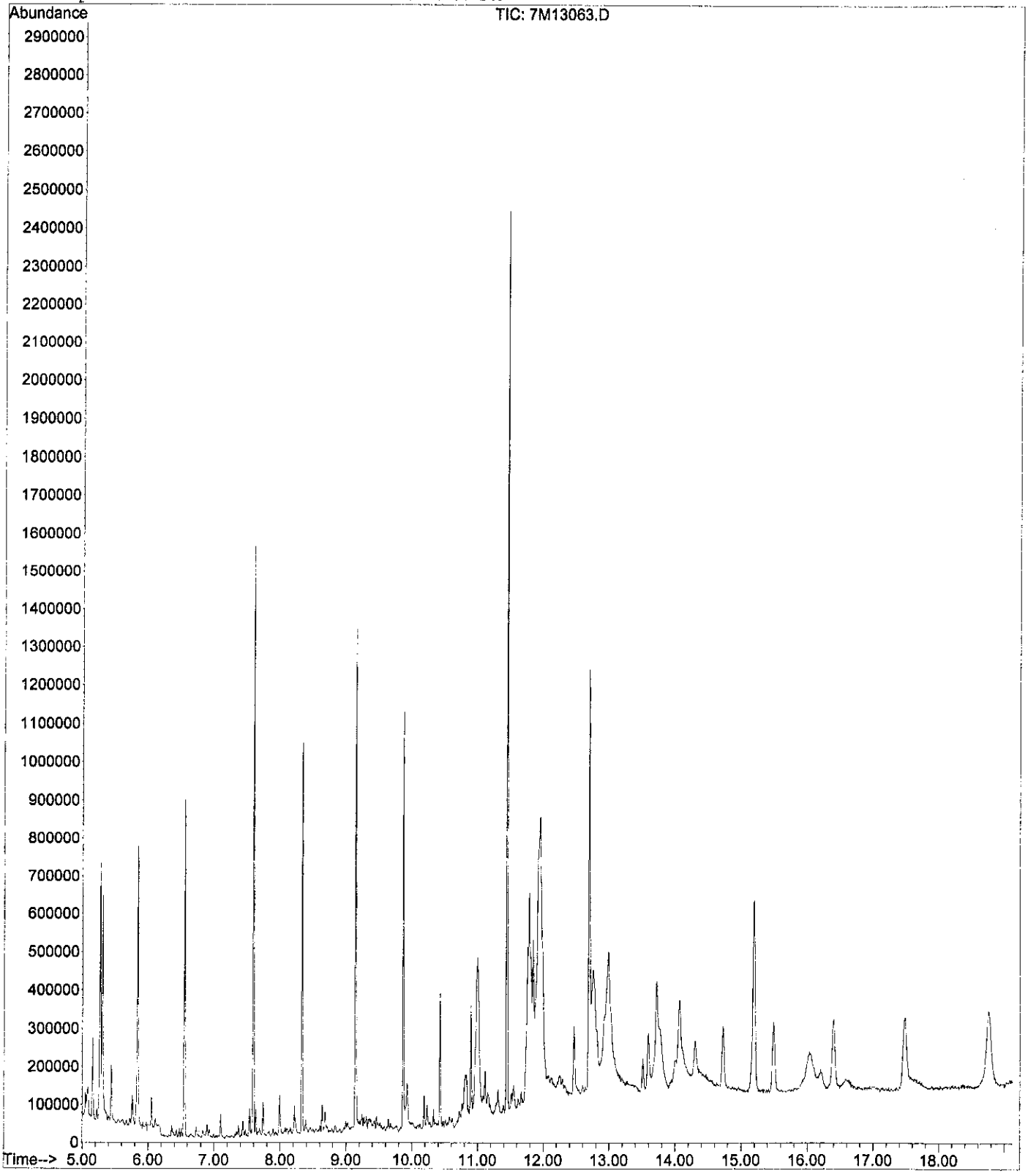
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.54	136	437571	1.00	ug/ml	-0.02
6) Acenaphthene-d10	8.33	164	243984	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	408635	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	392406	1.00	ug/ml	-0.02
20) Perylene-d12	15.19	264	391069	1.00	ug/ml	-0.03
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	224094	1.62	ug/ml	-0.01
Spiked Amount 2.500	Range 23 - 120		Recovery = 64.80%			
7) 2-Fluorobiphenyl	7.59	172	488189	1.36	ug/ml	-0.02
Spiked Amount 2.500	Range 30 - 115		Recovery = 54.40%			
17) p-Terphenyl-d14	11.45	244	761074	1.78	ug/ml	-0.01
Spiked Amount 2.500	Range 18 - 137		Recovery = 71.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13063.D PAHLOW.M Thu May 24 09:37:14 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13063.D Vial: 18
Acq On : 23 May 2001 20:19 Operator: rdc
Sample : L0105404-10 SOIL Inst : HPMS7
Misc : SOLID SOIL, 1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:37 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052501\4M8549.D Vial: 26
Acq On : 25 May 2001 11:31 Operator: mdc
Sample : L0105404-10 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 12:18 2001 Quant Results File: BNA.RES

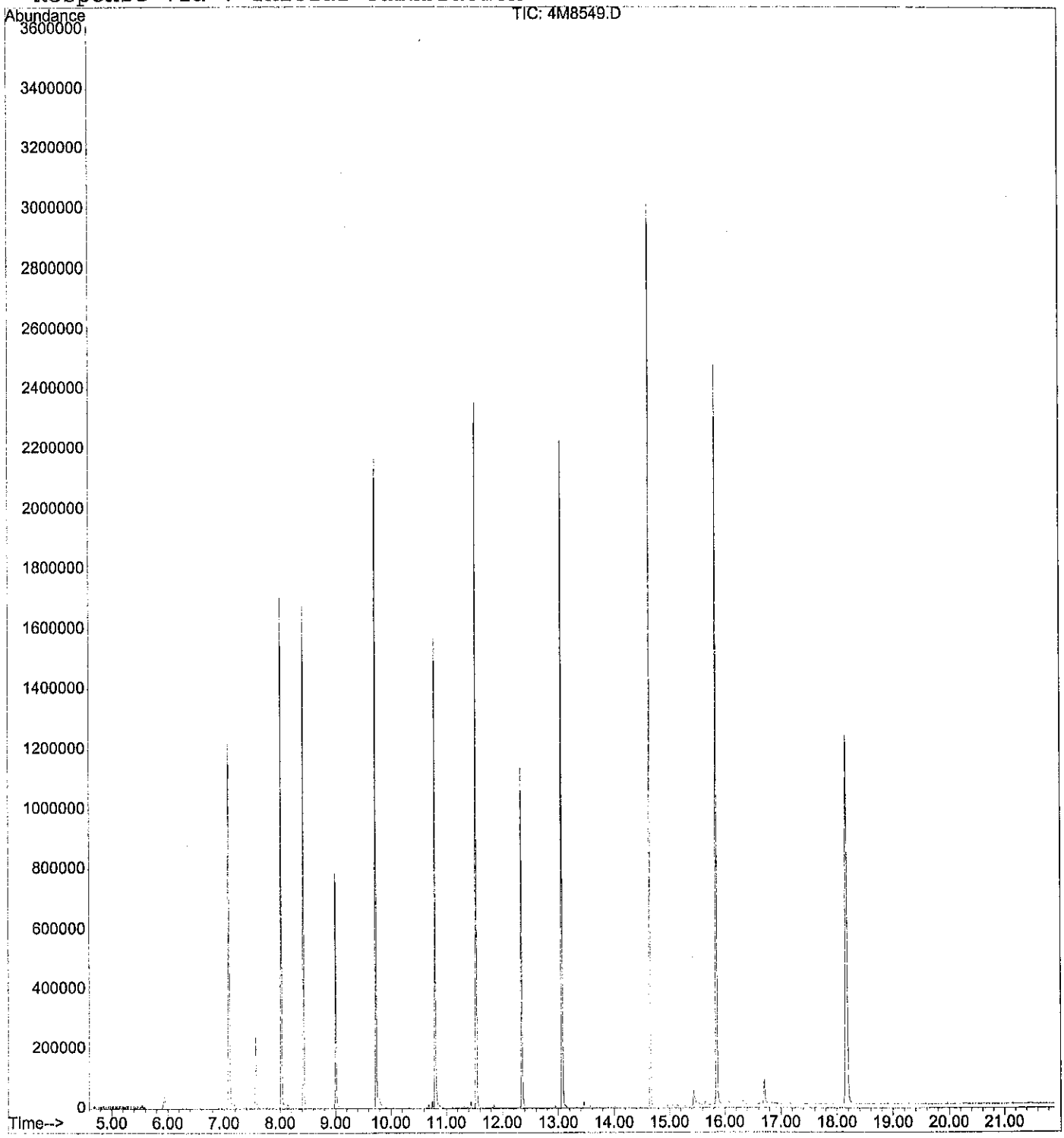
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	277508	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1062188	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	570803	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	865645	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1002424	40.00	ug/ml	0.00
76) Perylene-d12	18.17	264	959802	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.08	112	507687	50.54	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 50.54%			
6) Phenol-d5	8.02	99	654120	53.77	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 53.77%			
20) Nitrobenzene-d5	9.00	82	272909	25.39	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 50.78%			
38) 2-Fluorobiphenyl	10.80	172	556714	26.39	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 52.78%			
55) 2,4,6-Tribromophenol	12.35	330	148017	50.89	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 50.89%			
70) p-Terphenyl-d14	14.65	244	1073071	40.81	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 81.62%			
Target Compounds						Qvalue
5) Aniline	8.02	66	30456	157.98	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
4M8549.D BNA.M Fri May 25 12:18:36 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8549.D Vial: 26
Acq On : 25 May 2001 11:31 Operator: mdc
Sample : L0105404-10 SOIL Inst : HPMS4
Misc : SOIL,1 Multiplr: 33.30
MS Integration Params: RTEINT.P
Quant Time: May 25 12:18 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052201\7M13029.D Vial: 11
Acq On : 22 May 2001 17:04 Operator: rdc
Sample : L0105404-11 WATER Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 19:20:29 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	421794	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	231170	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	377781	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	360642	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	330324	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	261950	1.96	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	78.40%		
7) 2-Fluorobiphenyl	7.60	172	604031	1.78	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	71.20%		
17) p-Terphenyl-d14	11.45	244	686805	1.75	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	70.00%		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	59631	0.13	ug/ml	98
8) Acenaphthylene	8.21	152	262	~~0.08~~	~~ug/ml#~~	1

(#) = qualifier out of range (m) = manual integration
7M13029.D PAHLOW.M Tue May 22 19:20:48 2001 Page 1

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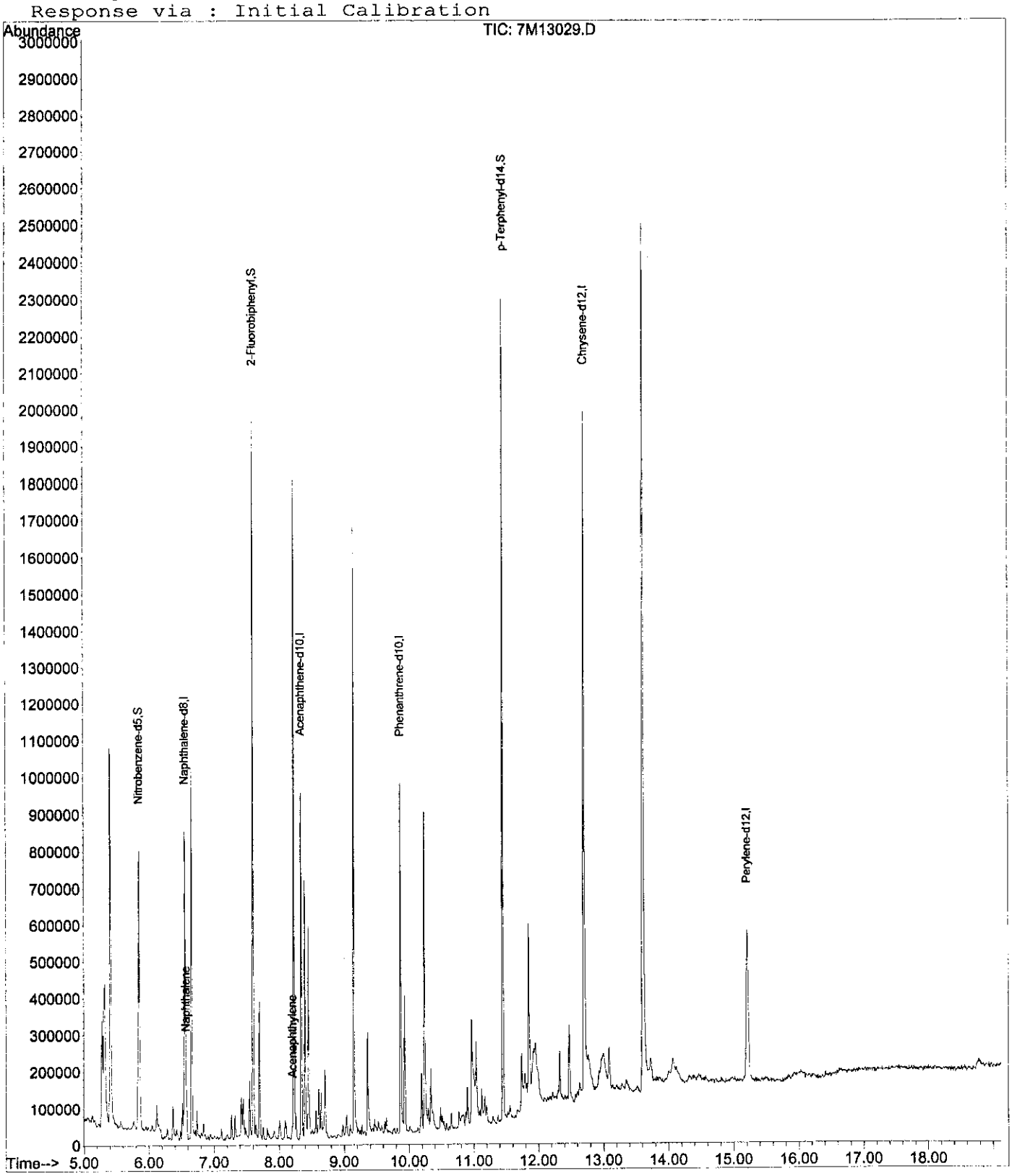
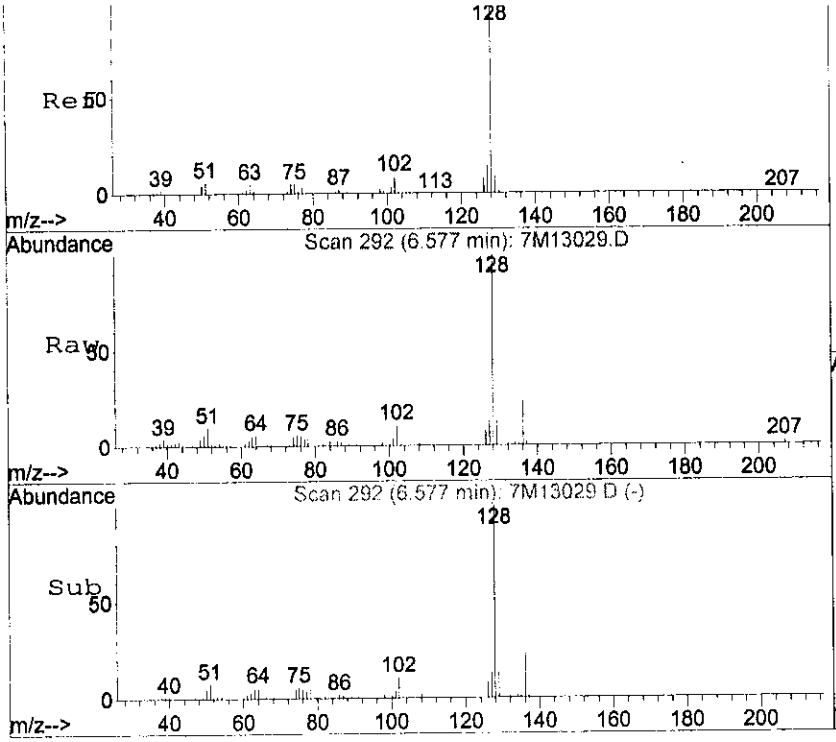
Data File : C:\MSDCHEM\1\DATA\052201\7M13029.D Vial: 11
Acq On : 22 May 2001 17:04 Operator: rdc
Sample : L0105404-11 WATER Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 19:20 2001 Quant Results File: PAHLOW.RES

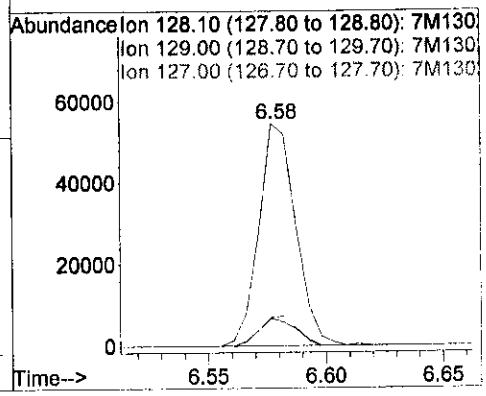
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration

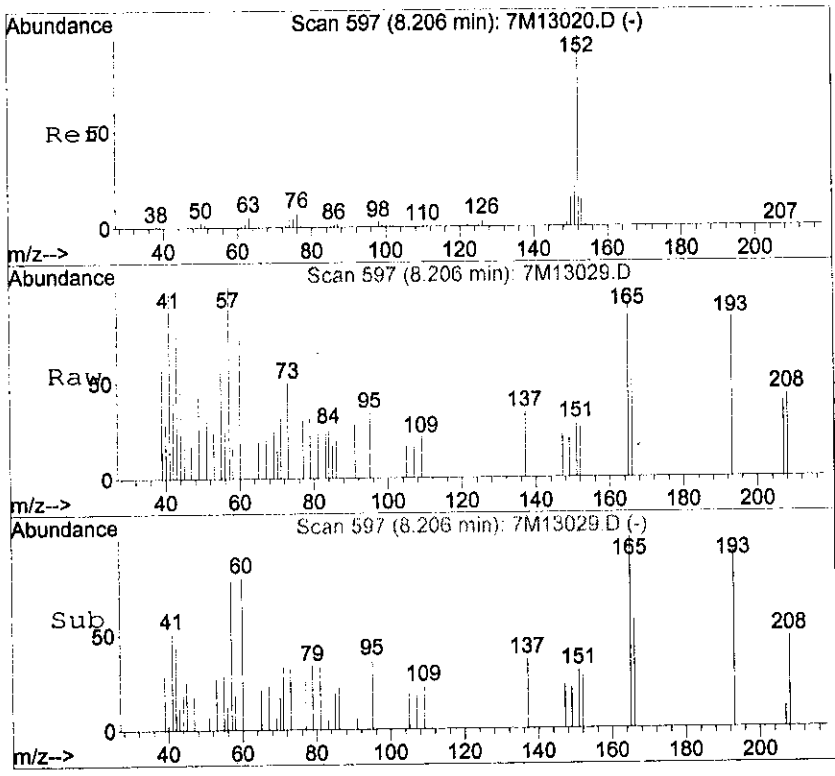




Naphthalene
Concen: 0.13 ug/ml
RT: 6.58 min Scan# 292
Delta R.T. -0.00 min
Lab File: 7M13029.D
Acq: 22 May 2001 17:04

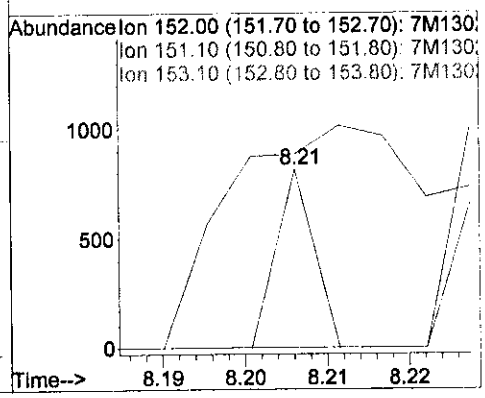
Tgt Ion:128	Resp:	59631	
Ion	Ratio	Lower	Upper
128	100		
129	12.3	8.9	13.3
127	13.5	10.9	16.3





#8
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.21 min Scan# 597
Delta R.T. 0.00 min
Lab File: 7M13029.D
Acq: 22 May 2001 17:04

Tgt Ion:152	Resp:	262	
Ion	Ratio	Lower	Upper
152	100		
151	923.7	16.2	24.2#
153	0.0	10.2	15.2#



Data File : C:\HPCHEM\1\DATA\052301\3M22936.D Vial: 5
Acq On : 23 May 2001 15:27 Operator: CLK
Sample : L0105404-11 Inst : HPMS3
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 16:08 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Wed May 23 14:09:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	234924	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	887356	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	445929	40.00	ug/L	0.00
56) Phenanthrene-d10	14.64	188	600403	40.00	ug/L	0.00
67) Chrysene-d12	17.57	240	496979	40.00	ug/L	0.00
76) Perylene-d12	20.35	264	621763	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	264760	23.53	ug/L	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery =	23.53%		
6) Phenol-d5	9.44	99	231561	17.20	ug/L	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery =	17.20%		
20) Nitrobenzene-d5	10.49	82	198126	19.29	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery =	38.58%		
38) 2-Fluorobiphenyl	12.34	172	285869	19.84	ug/L	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	39.68%#		
55) 2,4,6-Tribromophenol	13.91	330	113548	69.85	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	69.85%		
70) p-Terphenyl-d14	16.21	244	440107	37.09	ug/L	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	74.18%		
Target Compounds						Qvalue
12) Benzyl Alcohol	10.01	108	11713	1.73	ug/L F	92

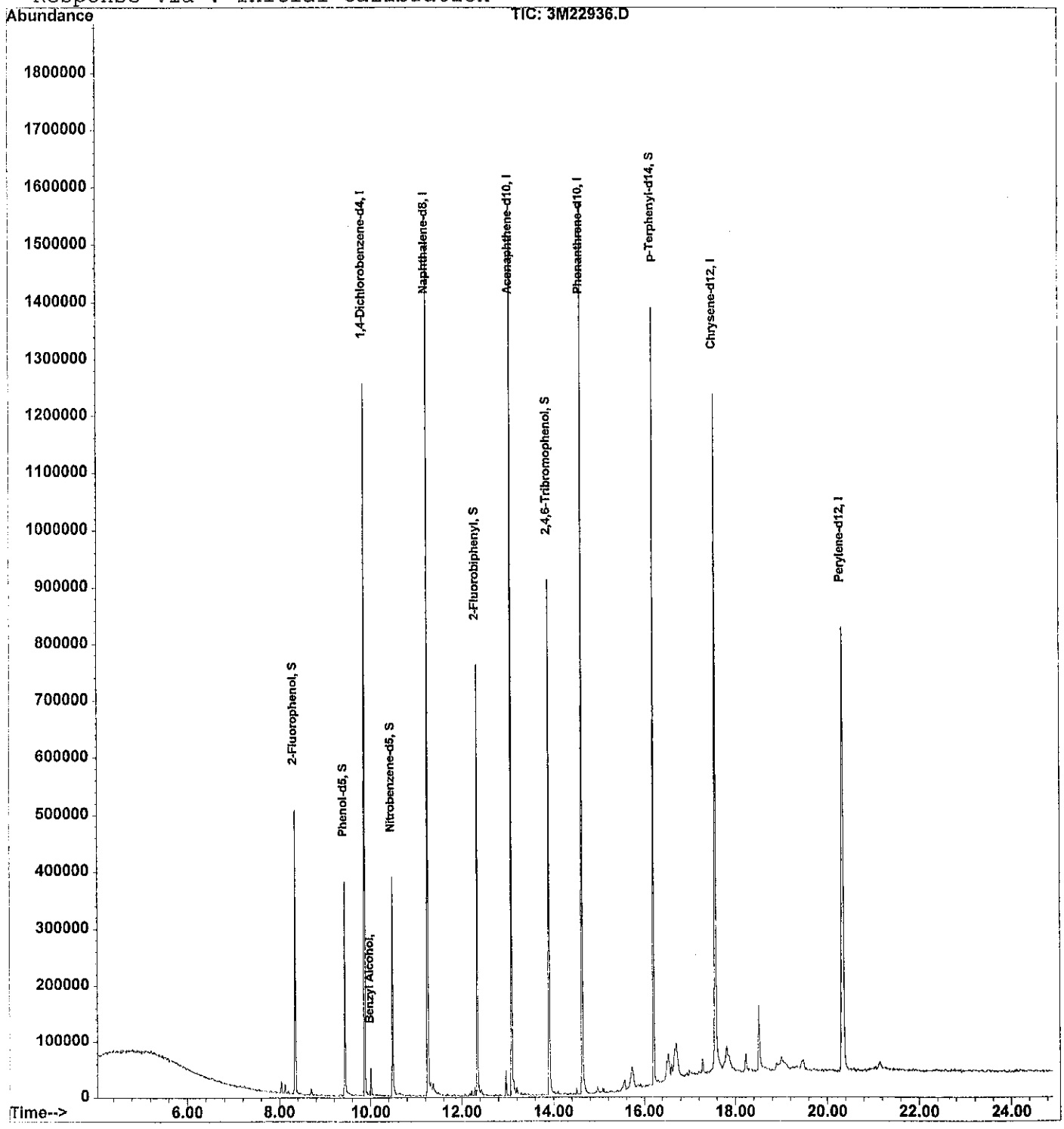
ok cal 5/25/01

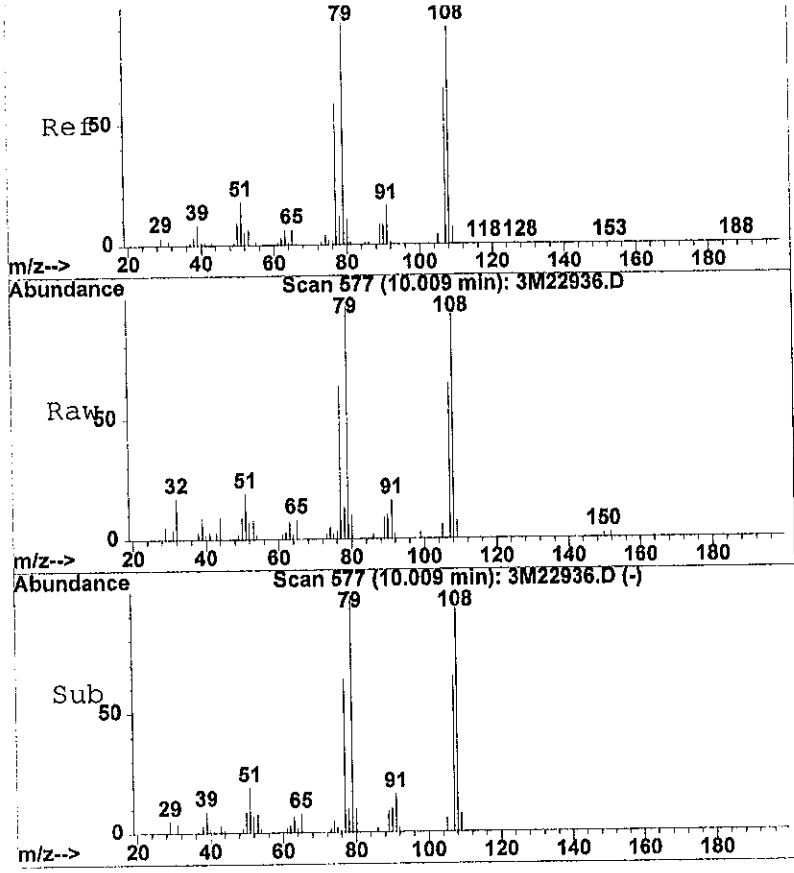
ok cal 5/25/01

(#) = qualifier out of range (m) = manual integration
3M22936.D BNA.M Wed May 23 16:08:13 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052301\3M22936.D Vial: 5
Acq On : 23 May 2001 15:27 Operator: CLK
Sample : L0105404-11 Inst : HPMS3
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 16:08 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Wed May 23 14:09:26 2001
Response via : Initial Calibration

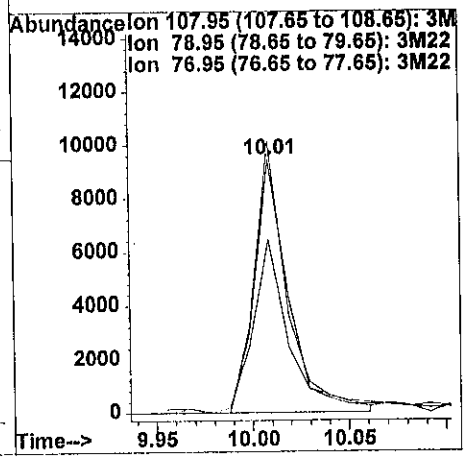




Benzyl Alcohol
Concen: 1.73 ug/L
RT: 10.01 min Scan# 577
Delta R.T. -0.01 min
Lab File: 3M22936.D
Acq: 23 May 2001 15:27

Tgt Ion:108 Resp: 11713

Ion	Ratio	Lower	Upper
108	100		
79	103.6	88.4	132.6
77	72.3	52.0	78.0



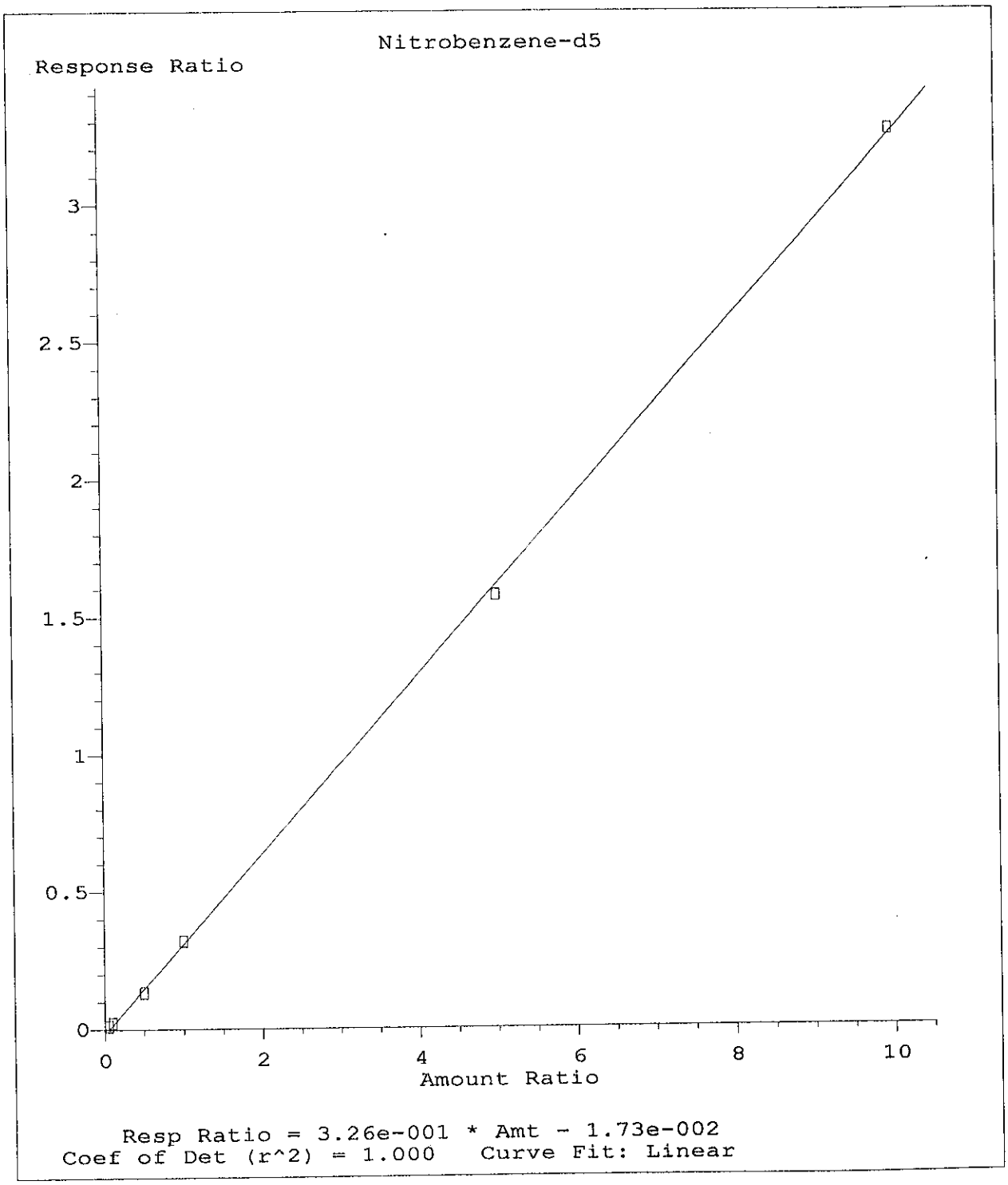
2.2.1.3 Standards Data

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration

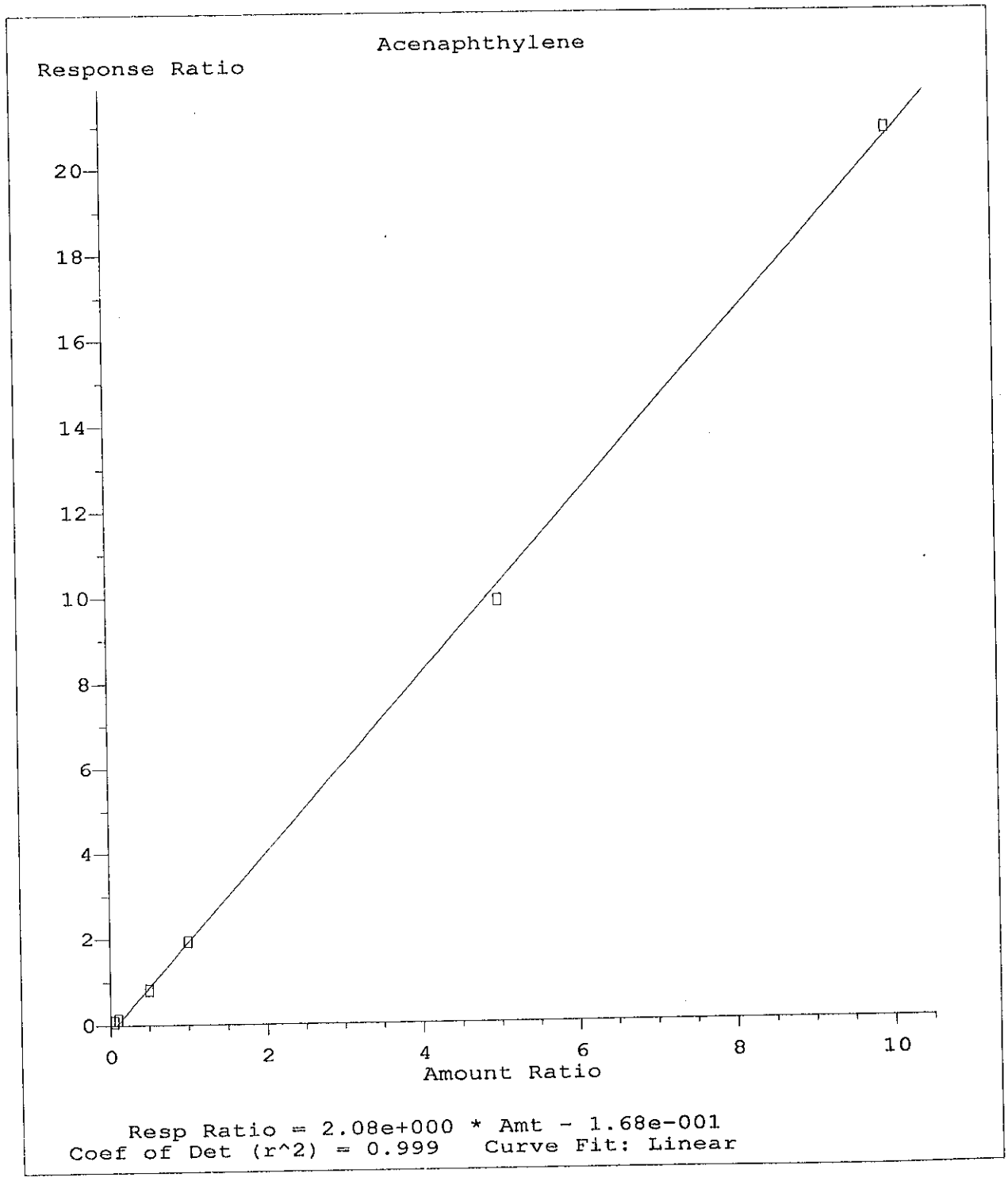
Calibration Files
.05 =7M13004.D .1 =7M13003.D .5 =7M13002.D
1 =7M12999.D 5 =7M13001.D 10 =7M13000.D

		Compound	.05	.1	.5	1	5	10	Avg	%RSD
1)	I	Naphthalene-d8	ISTD							
2)	S	Nitrobenzene-d5	0.242	0.231	0.265	0.321	0.315	0.326	0.283	15.03
3)		Naphthalene	1.259	1.100	1.104	1.116	1.057	1.081	1.119	6.39
4)		2-Methylnaphtha	0.739	0.669	0.701	0.711	0.702	0.736	0.710	3.59
5)		1-Methylnaphtha	0.781	0.650	0.668	0.674	0.657	0.690	0.687	7.02
6)	I	Acenaphthene-d10	ISTD							
7)	S	2-Fluorobipheny	1.648	1.359	1.424	1.472	1.432	1.488	1.471	6.64
8)		Acenaphthylene	1.526	1.286	1.635	1.927	1.976	2.084	1.739	17.66
9)	C	Acenaphthene	1.442	1.201	1.196	1.265	1.223	1.302	1.272	7.29
10)		Fluorene	1.446	1.180	1.296	1.407	1.421	1.518	1.378	8.75
11)	I	Phenanthrene-d10	ISTD							
12)		Phenanthrene	1.490	1.173	1.221	1.256	1.241	1.331	1.286	8.77
13)		Anthracene	0.976	0.910	1.045	1.168	1.198	1.294	1.099	13.29
14)	C	Fluoranthene	1.276	1.196	1.276	1.373	1.391	1.493	1.334	7.92
15)	I	Chrysene-d12	ISTD							
16)		Pyrene	1.735	1.378	1.490	1.561	1.490	1.560	1.536	7.70
17)	S	p-Terphenyl-d14	1.188	0.995	1.056	1.104	1.051	1.134	1.088	6.27
18)		Benzo[a]anthrac	1.241	1.061	1.198	1.320	1.321	1.418	1.260	9.79
19)		Chrysene	1.577	1.365	1.387	1.395	1.306	1.394	1.404	6.48
20)	I	Perylene-d12	ISTD							
21)		Benzo[b]fluoran	1.727	1.442	1.604	1.683	1.686	1.860	1.667	8.32
22)		Benzo[k]fluoran	1.832	1.376	1.510	1.573	1.647	1.786	1.621	10.57
23)	C	Benzo[a]pyrene	1.245	1.046	1.190	1.305	1.443	1.594	1.304	14.82
24)		Indeno[1,2,3-cd	1.139	1.121	1.422	1.617	1.734	1.927	1.493	21.80
25)		Dibenz[ah]anthr	1.015	0.922	1.156	1.293	1.374	1.543	1.217	19.03
26)		Benzo[ghi]peryl	1.253	1.233	1.352	1.436	1.420	1.513	1.368	8.01

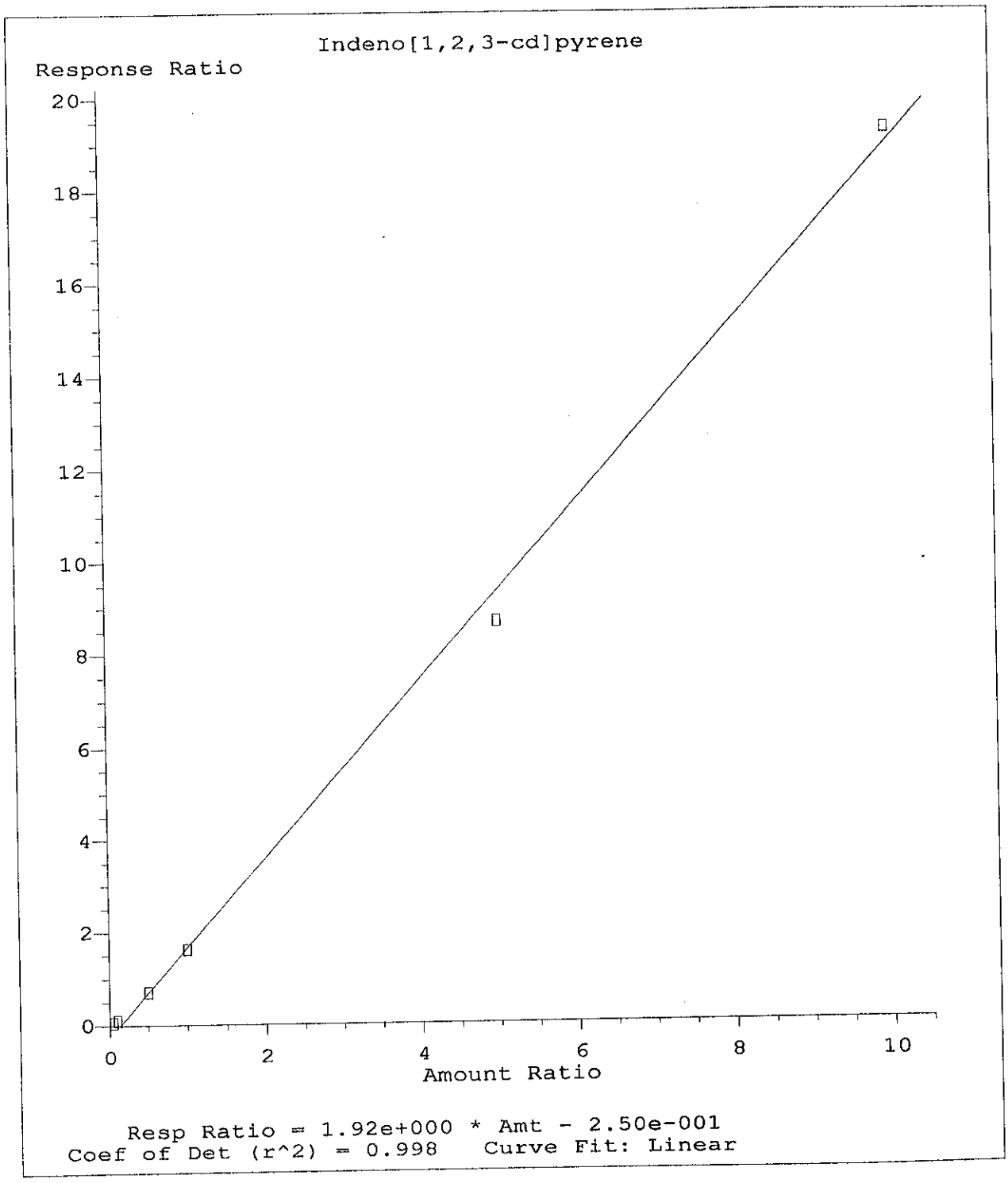
(#) = Out of Range



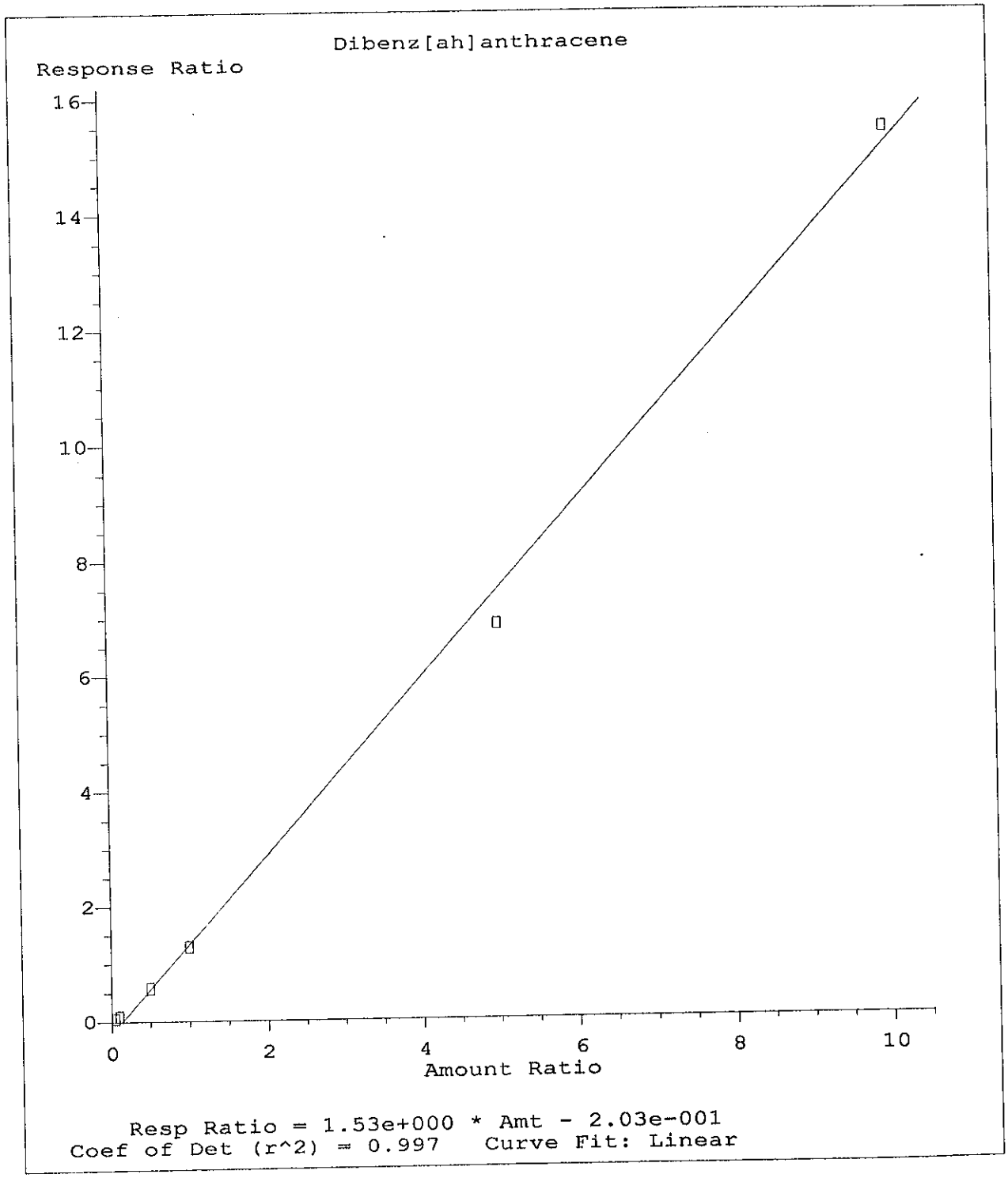
Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:51:56 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001

Data File : C:\MSDCHEM\1\DATA\052101\7M12999.D
Acq On : 21 May 2001 18:14
Sample : 1ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:26:39 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:26:27 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	449212	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	229149	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	370678	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	339209	1.00	ug/ml	0.00
20) Perylene-d12	15.23	264	274829	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	144136	1.09	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 43.60%			
7) 2-Fluorobiphenyl	7.61	172	337310	1.02	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 40.80%#			
17) p-Terphenyl-d14	11.46	244	374599	0.99	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 39.60%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	501224	0.98	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	319508	0.99	ug/ml	100
5) 1-Methylnaphthalene	7.37	142	302966	0.92	ug/ml	99
8) Acenaphthylene	8.21	152	441540	1.09	ug/ml	100
9) Acenaphthene	8.38	154	289972	1.00	ug/ml	100
10) Fluorene	8.90	166	322453	1.01	ug/ml	100
12) Phenanthrene	9.90	178	465739	0.96	ug/ml	100
13) Anthracene	9.96	178	433084	1.03	ug/ml	100
14) Fluoranthene	11.14	202	509035	1.01	ug/ml	100
16) Pyrene	11.38	202	529606	0.99	ug/ml	100
18) Benzo[a]anthracene	12.69	228	447716	1.02	ug/ml	100
19) Chrysene	12.75	228	473364	0.99	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	462672	0.99	ug/ml	100
22) Benzo[k]fluoranthene	14.46	252	432198	0.95	ug/ml	100
23) Benzo[a]pyrene	15.10	252	358558	0.98	ug/ml	100
24) Indeno[1,2,3-cd]pyrene	18.05	276	444352	1.10	ug/ml#	100
25) Dibenz[ah]anthracene	18.05	278	355301	1.09	ug/ml	100
26) Benzo[ghi]perylene	18.95	276	394588	1.11	ug/ml	100

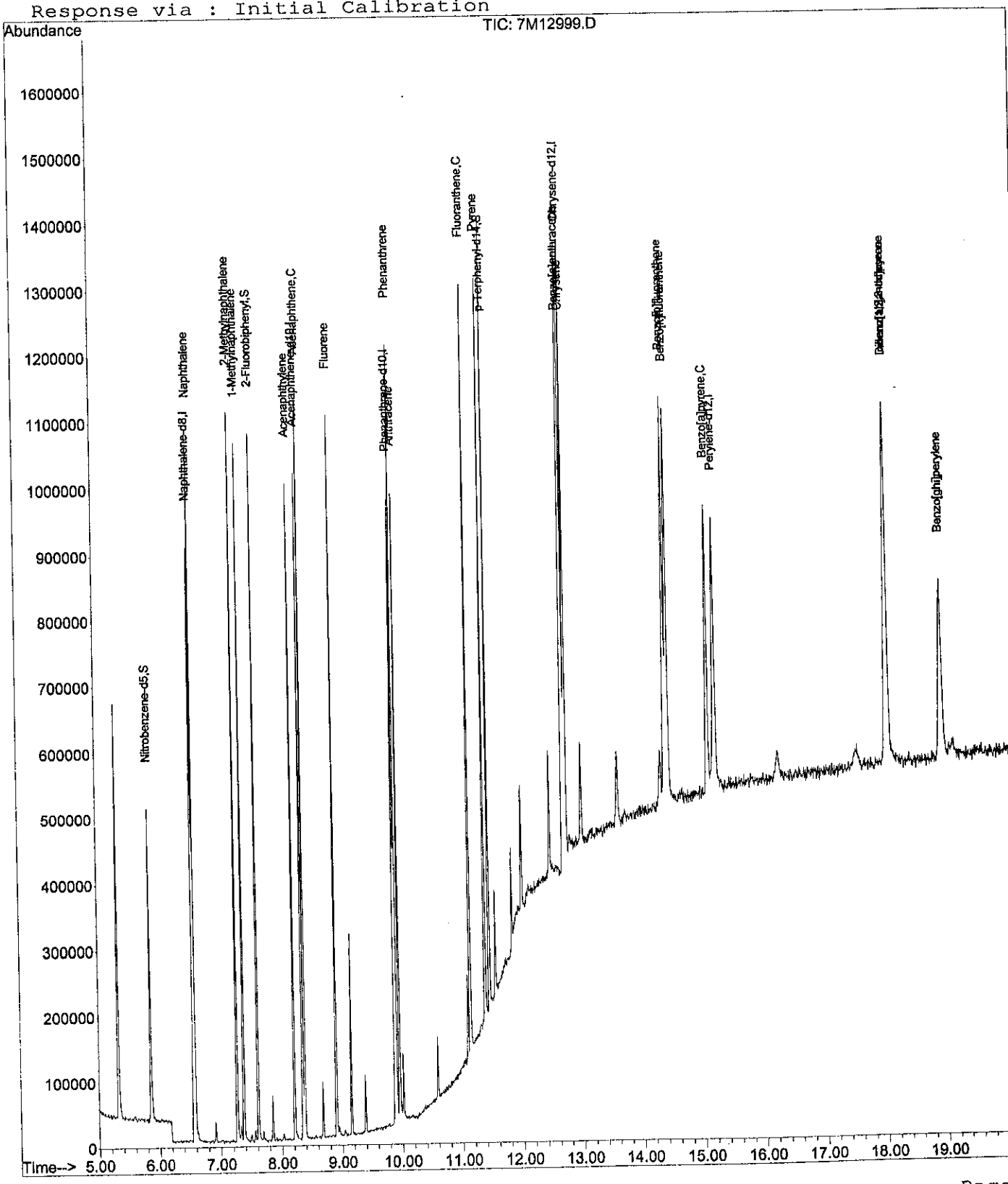
(#) = qualifier out of range (m) = manual integration
7M12999.D PAHLOW.M Tue May 22 07:51:12 2001

Data File : C:\MSDCHEM\1\[illegible]
Acq On : 21 May 2001 18:14
Sample : 1ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:26 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M12999.D PAHLOW.M Tue May 22 07:51:13 2001 Page 2

Data File : C:\MSDCHEM\1\DATA\052101\7M13000.D
Acq On : 21 May 2001 18:41
Sample : 10ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:26:59 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:26:52 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	423163	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	222922	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	362737	1.00	ug/ml	0.00
15) Chrysene-d12	12.72	240	369478	1.00	ug/ml	0.00
20) Perylene-d12	15.23	264	279263	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	1380907	11.11	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 444.40%#			
7) 2-Fluorobiphenyl	7.61	172	3316778	10.27	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 410.80%#			
17) p-Terphenyl-d14	11.46	244	4188340	10.18	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 407.20%#			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	4573437	9.46	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	3112923	10.19	ug/ml	100
5) 1-Methylnaphthalene	7.37	142	2918700	9.38	ug/ml	97
8) Acenaphthylene	8.21	152	4646445	11.77	ug/ml	98
9) Acenaphthene	8.38	154	2902393	10.28	ug/ml	98
10) Fluorene	8.90	166	3383379	10.93	ug/ml	99
12) Phenanthrene	9.90	178	4828120	10.21	ug/ml	99
13) Anthracene	9.96	178	4695071	11.45	ug/ml	99
14) Fluoranthene	11.14	202	5416367	10.99	ug/ml	98
16) Pyrene	11.39	202	5763429	9.91	ug/ml	99
18) Benzo[a]anthracene	12.70	228	5240821	10.94	ug/ml	99
19) Chrysene	12.75	228	5152214	9.91	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	5194934	10.93	ug/ml	99
22) Benzo[k]fluoranthene	14.46	252	4987149	10.78	ug/ml	99
23) Benzo[a]pyrene	15.11	252	4450999	11.97	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.07	276	5380083	13.08	ug/ml#	99
25) Dibenz[ah]anthracene	18.07	278	4309029	13.04	ug/ml	100
26) Benzo[ghi]perylene	18.98	276	4224214	11.65	ug/ml	99

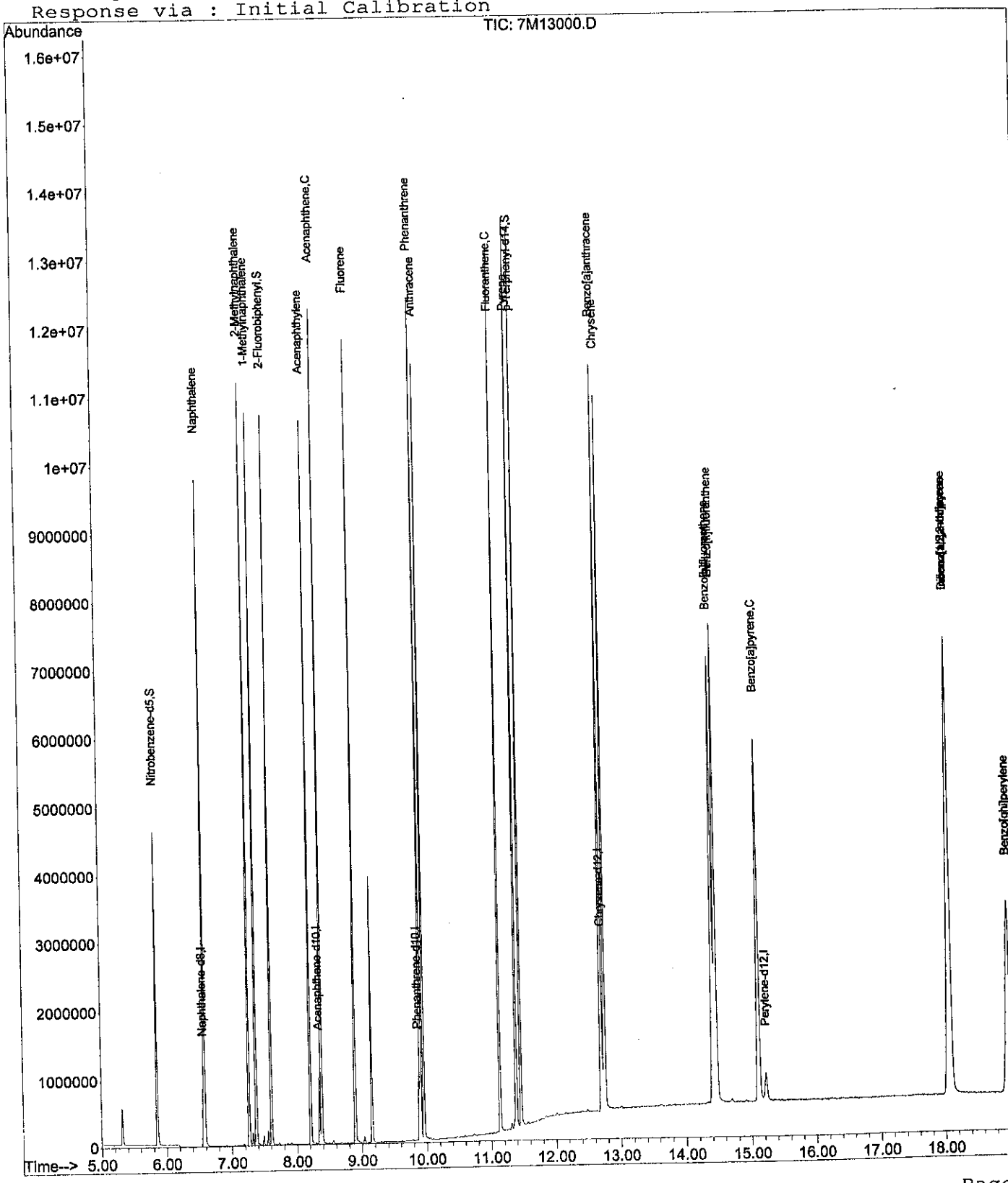
(#) = qualifier out of range (m) = manual integration
7M13000.D PAHLOW.M Tue May 22 07:51:15 2001

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 May 2001 18:41
Sample : 10ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:26 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M13000.D PAHLOW.M Tue May 22 07:51:16 2001 Page 2

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 May 2001 19:08
Sample : 5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:27:19 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:27:10 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	432768	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	227375	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	369912	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	363591	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	279817	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	682361	5.37	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery	= 214.80%#		
7) 2-Fluorobiphenyl	7.61	172	1627761	4.94	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery	= 197.60%#		
17) p-Terphenyl-d14	11.46	244	1910864	4.72	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery	= 188.80%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	2286494	4.62	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	1519988	4.87	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	1421962	4.52	ug/ml	99
8) Acenaphthylene	8.21	152	2246457	5.58	ug/ml	99
9) Acenaphthene	8.38	154	1390667	4.83	ug/ml	98
10) Fluorene	8.90	166	1615892	5.12	ug/ml	98
12) Phenanthrene	9.90	178	2296084	4.76	ug/ml	100
13) Anthracene	9.95	178	2215334	5.30	ug/ml	100
14) Fluoranthene	11.14	202	2572454	5.12	ug/ml	99
16) Pyrene	11.38	202	2708059	4.73	ug/ml	99
18) Benzo[a]anthracene	12.70	228	2400696	5.09	ug/ml	100
19) Chrysene	12.75	228	2374714	4.64	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	2359034	4.95	ug/ml	100
22) Benzo[k]fluoranthene	14.46	252	2304767	4.97	ug/ml	99
23) Benzo[a]pyrene	15.11	252	2019572	5.42	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.06	276	2426262	5.89	ug/ml#	100
25) Dibenz[ah]anthracene	18.06	278	1922256	5.81	ug/ml	100
26) Benzo[ghi]perylene	18.96	276	1987341	5.47	ug/ml	99

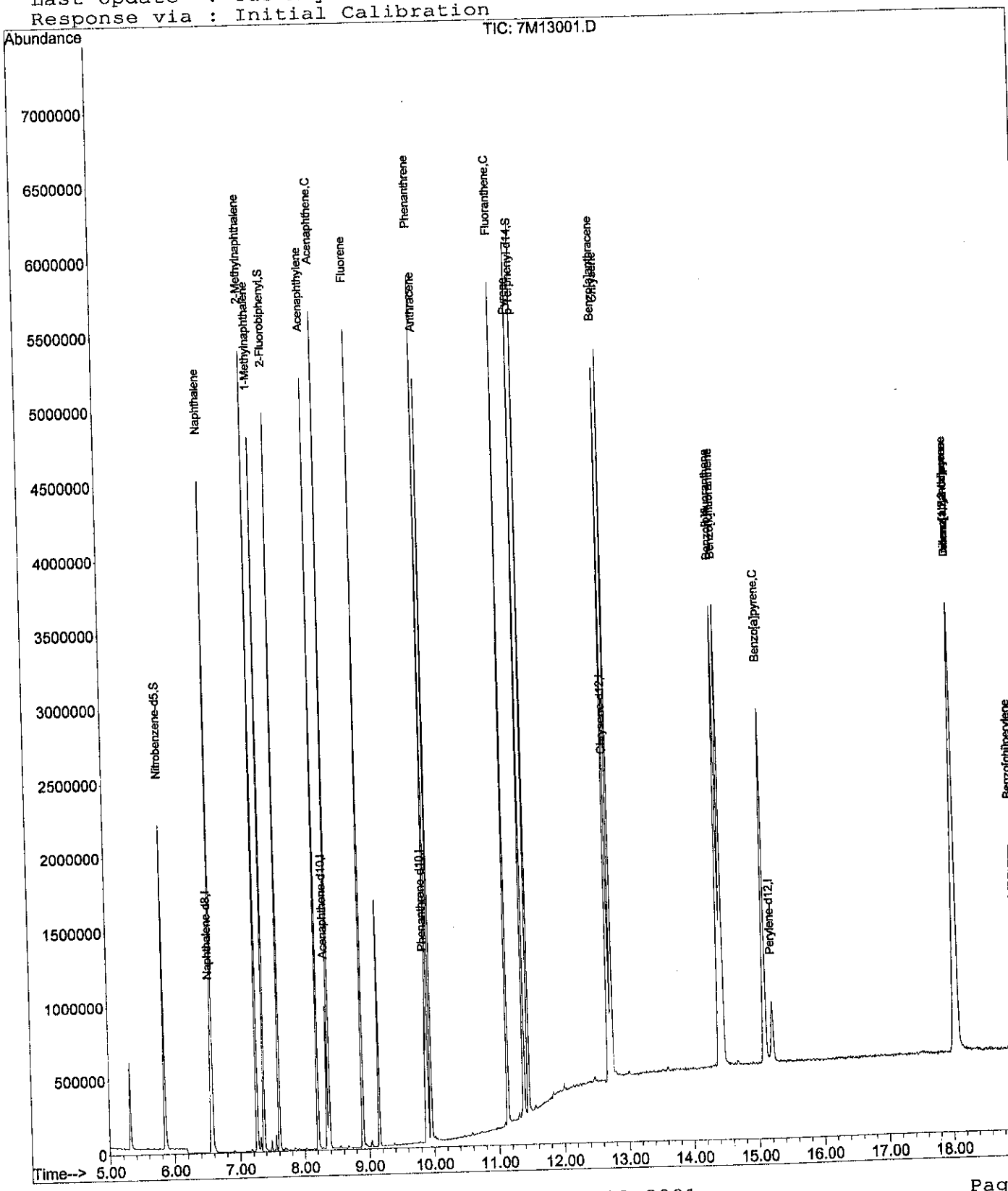
(#) = qualifier out of range (m) = manual integration
7M13001.D PAHLOW.M Tue May 22 07:51:18 2001

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 May 2001 19:08
Sample : 5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:27 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M13001.D PAHLOW.M Tue May 22 07:51:19 2001 Page 2

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 May 2001 19:34
Sample : 0.5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:04 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:27:25 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	429669	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.35	164	224970	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	360831	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	320049	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	251014	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	56897	0.45	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 18.00%#			
7) 2-Fluorobiphenyl	7.60	172	160223	0.49	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 19.60%#			
17) p-Terphenyl-d14	11.46	244	168982	0.47	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 18.80%#			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	237256	0.48	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	150682	0.49	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	143427	0.46	ug/ml	99
8) Acenaphthylene	8.21	152	183941	0.46	ug/ml	100
9) Acenaphthene	8.38	154	134536	0.47	ug/ml	98
10) Fluorene	8.90	166	145766	0.47	ug/ml	98
12) Phenanthrene	9.90	178	220303	0.47	ug/ml	99
13) Anthracene	9.95	178	188581	0.46	ug/ml	99
14) Fluoranthene	11.13	202	230229	0.47	ug/ml	99
16) Pyrene	11.39	202	238415	0.47	ug/ml	99
18) Benzo[a]anthracene	12.69	228	191687	0.46	ug/ml	99
19) Chrysene	12.75	228	221900	0.49	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	201267	0.47	ug/ml	97
22) Benzo[k]fluoranthene	14.45	252	189553	0.46	ug/ml	98
23) Benzo[a]pyrene	15.10	252	149399	0.45	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.05	276	178428	0.48	ug/ml#	97
25) Dibenz[ah]anthracene	18.04	278	145073	0.49	ug/ml	98
26) Benzo[ghi]perylene	18.94	276	169661	0.52	ug/ml	99

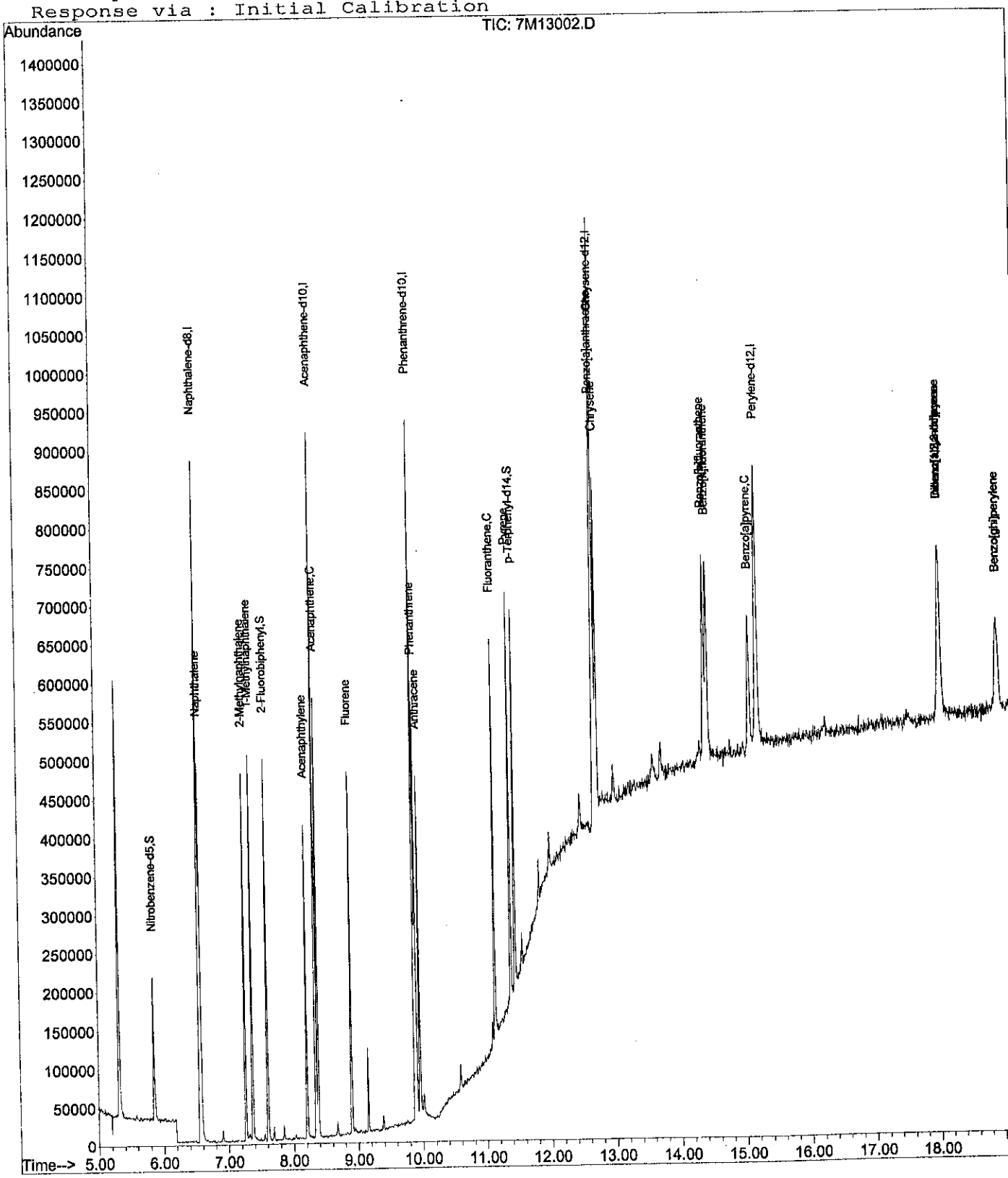
(#) = qualifier out of range (m) = manual integration
7M13002.D PAHLOW.M Tue May 22 07:51:21 2001

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 May 2001 19:34
Sample : 0.5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



Acq On : 21 May 2001 20:01
Sample : 0.1ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:33 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:28:27 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	432011	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	225984	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	355476	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	309485	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	241352	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	9971	0.08	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	3.20%#		
7) 2-Fluorobiphenyl	7.60	172	30722	0.09	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	3.60%#		
17) p-Terphenyl-d14	11.46	244	30791	0.09	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	3.60%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	47508	0.10	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	28919	0.09	ug/ml	96
5) 1-Methylnaphthalene	7.37	142	28065	0.09	ug/ml	97
8) Acenaphthylene	8.21	152	29072	0.07	ug/ml	99
9) Acenaphthene	8.38	154	27135	0.09	ug/ml	99
10) Fluorene	8.90	166	26675	0.08	ug/ml	99
12) Phenanthrene	9.90	178	41697	0.09	ug/ml	96
13) Anthracene	9.95	178	32340	0.08	ug/ml	98
14) Fluoranthene	11.13	202	42511	0.09	ug/ml#	94
16) Pyrene	11.38	202	42643	0.09	ug/ml	97
18) Benzo[a]anthracene	12.69	228	32849	0.08	ug/ml	99
19) Chrysene	12.75	228	42247	0.10	ug/ml	95
21) Benzo[b]fluoranthene	14.40	252	34808	0.08	ug/ml#	89
22) Benzo[k]fluoranthene	14.46	252	33219	0.08	ug/ml#	92
23) Benzo[a]pyrene	15.10	252	25234	0.08	ug/ml#	90
24) Indeno[1,2,3-cd]pyrene	18.04	276	27058	0.08	ug/ml#	94
25) Dibenz[ah]anthracene	18.04	278	22245	0.08	ug/ml#	93
26) Benzo[ghi]perylene	18.94	276	29763	0.09	ug/ml	96

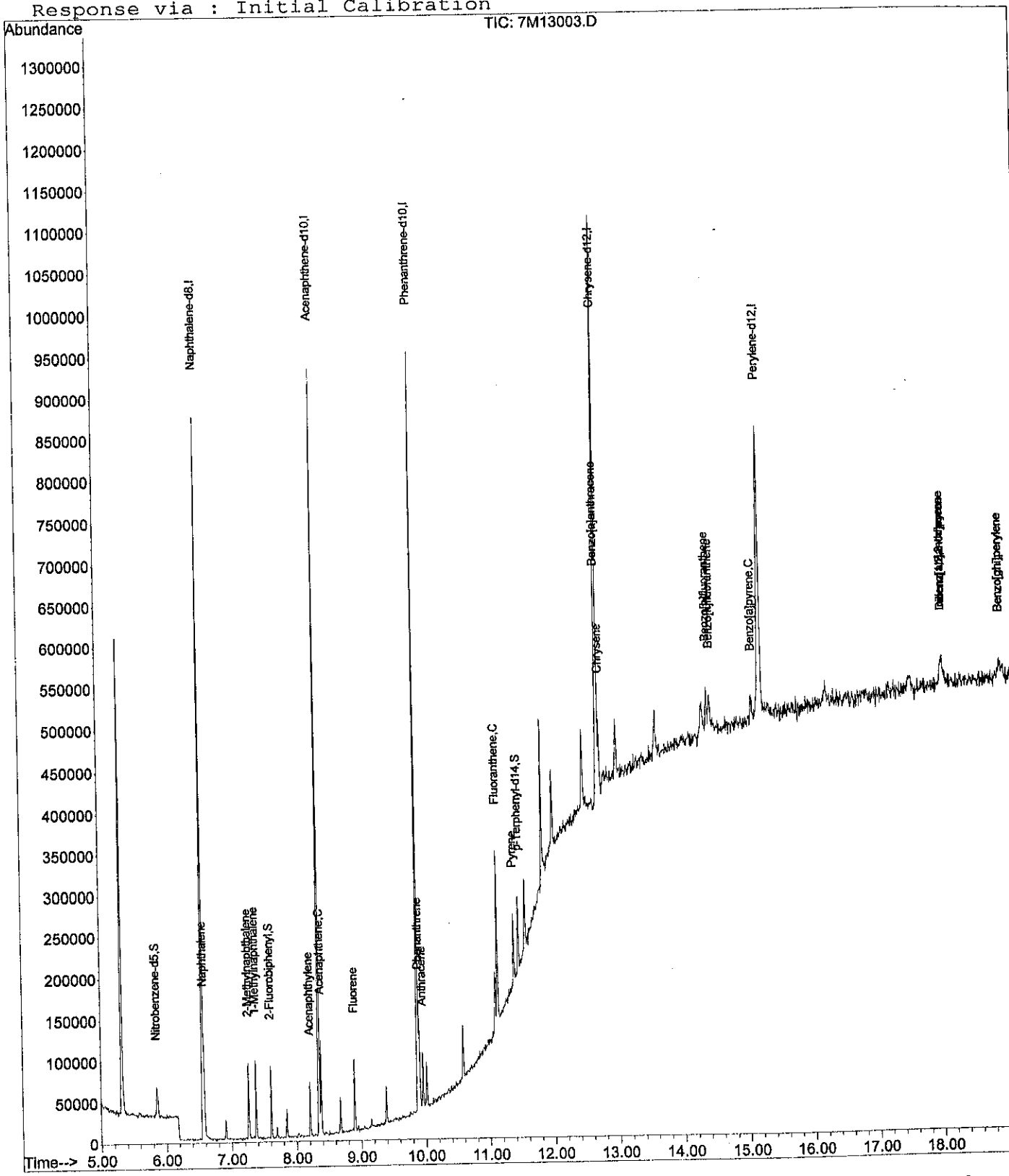
(#) = qualifier out of range (m) = manual integration
7M13003.D PAHLOW.M Tue May 22 07:51:24 2001

Data File : C:\MSDCHEM\1\DATA\7M13003.D
Acq On : 21 May 2001 20:01
Sample : 0.1ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



Acq On : 21 May 2001 20:27
Sample : 0.05ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:57 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:28:50 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	425831	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	219617	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	344796	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	272350	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	207921	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	5157	0.04	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 1.60%#			
7) 2-Fluorobiphenyl	7.60	172	18092	0.06	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 2.40%#			
17) p-Terphenyl-d14	11.45	244	16171	0.05	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 2.00%#			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	26812	0.06	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	15725	0.05	ug/ml	96
5) 1-Methylnaphthalene	7.37	142	16623	0.06	ug/ml	93
8) Acenaphthylene	8.20	152	16757	0.04	ug/ml#	93
9) Acenaphthene	8.38	154	15832	0.06	ug/ml	96
10) Fluorene	8.90	166	15877	0.05	ug/ml	92
12) Phenanthrene	9.90	178	25691	0.06	ug/ml	96
13) Anthracene	9.95	178	16820	0.04	ug/ml#	95
14) Fluoranthene	11.13	202	22001	0.05	ug/ml	99
16) Pyrene	11.39	202	23620	0.06	ug/ml	97
18) Benzo[a]anthracene	12.69	228	16893	0.05	ug/ml	98
19) Chrysene	12.75	228	21474	0.06	ug/ml	97
21) Benzo[b]fluoranthene	14.40	252	17956	0.05	ug/ml#	75
22) Benzo[k]fluoranthene	14.45	252	19045	0.06	ug/ml#	73
23) Benzo[a]pyrene	15.10	252	12945	0.05	ug/ml#	75
24) Indeno[1,2,3-cd]pyrene	18.04	276	11843	0.04	ug/ml#	100
25) Dibenz[ah]anthracene	18.05	278	10554	0.04	ug/ml#	64
26) Benzo[ghi]perylene	18.94	276	13025	0.05	ug/ml#	74

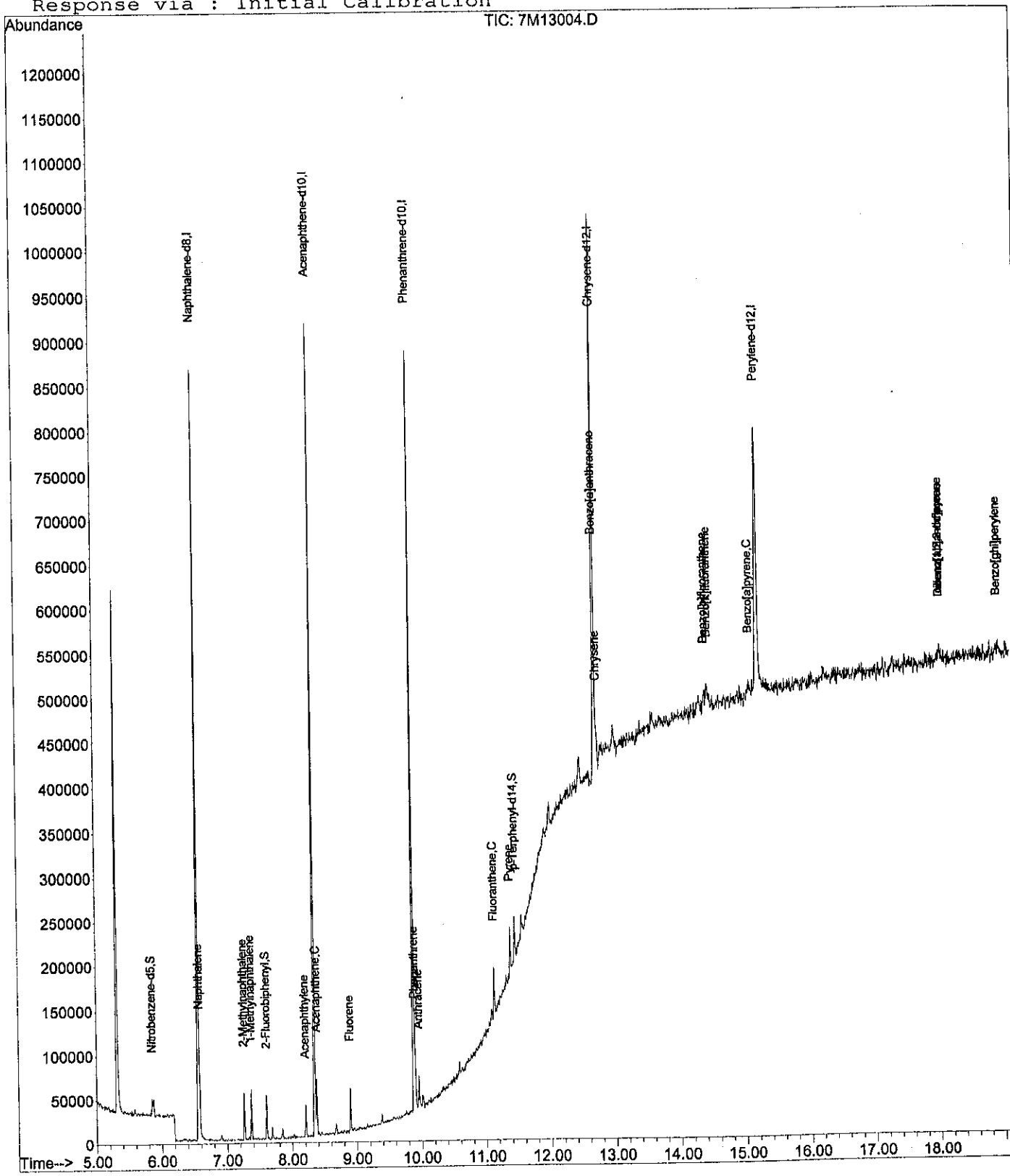
(#) = qualifier out of range (m) = manual integration
7M13004.D PAHLOW.M Tue May 22 07:51:27 2001

Acq On : 21 May 2001 20:27
Sample : 0.05ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



Acq On : 21 May 2001 20:54
Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:51:56 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
2	S	Nitrobenzene-d5	1.000	0.958	4.2	82	0.00
3		Naphthalene	1.000	0.918	8.2	89	0.00
4		2-Methylnaphthalene	1.000	0.958	4.2	92	0.00
5		1-Methylnaphthalene	1.000	0.981	1.9	97	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
7	S	2-Fluorobiphenyl	1.000	0.967	3.3	96	0.00
8		Acenaphthylene	1.000	0.858	14.2	84	0.00
9	C	Acenaphthene	1.000	0.933	6.7	93	0.00
10		Fluorene	1.000	0.939	6.1	91	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
12		Phenanthrene	1.000	0.902	9.8	90	0.00
13		Anthracene	1.000	0.968	3.2	89	0.00
14	C	Fluoranthene	1.000	0.939	6.1	89	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
16		Pyrene	1.000	0.933	6.7	90	0.00
17	S	p-Terphenyl-d14	1.000	0.937	6.3	91	0.00
18		Benzo[a]anthracene	1.000	0.913	8.7	86	0.00
19		Chrysene	1.000	0.906	9.4	90	0.00
20	I	Perylene-d12	1.000	1.000	0.0	93	-0.01
21		Benzo[b]fluoranthene	1.000	0.938	6.2	87	0.00
22		Benzo[k]fluoranthene	1.000	0.914	8.6	88	0.00
23	C	Benzo[a]pyrene	1.000	0.955	4.5	89	0.00
24		Indeno[1,2,3-cd]pyrene	1.000	0.884	11.6	83	-0.02
25		Dibenz[ah]anthracene	1.000	0.945	5.5	90	0.00
26		Benzo[ghi]perylene	1.000	0.959	4.1	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7M13005.D PAHLOW.M Tue May 22 07:52:53 2001 Page 1

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Acq On : 21 May 2001 20:57
Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:51:56 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
2	S	Nitrobenzene-d5	0.283	0.272	3.9	82	0.00
3		Naphthalene	1.119	1.028	8.1	89	0.00
4		2-Methylnaphthalene	0.710	0.680	4.2	92	0.00
5		1-Methylnaphthalene	0.687	0.674	1.9	97	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
7	S	2-Fluorobiphenyl	1.471	1.422	3.3	96	0.00
8		Acenaphthylene	1.739	1.620	6.8	84	0.00
9	C	Acenaphthene	1.272	1.187	6.7	93	0.00
10		Fluorene	1.378	1.293	6.2	91	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
12		Phenanthrene	1.286	1.160	9.8	90	0.00
13		Anthracene	1.099	1.063	3.3	89	0.00
14	C	Fluoranthene	1.334	1.253	6.1	89	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
16		Pyrene	1.536	1.432	6.8	90	0.00
17	S	p-Terphenyl-d14	1.088	1.020	6.3	91	0.00
18		Benzo[a]anthracene	1.260	1.150	8.7	86	0.00
19		Chrysene	1.404	1.272	9.4	90	0.00
20	I	Perylene-d12	1.000	1.000	0.0	93	-0.01
21		Benzo[b]fluoranthene	1.667	1.564	6.2	87	0.00
22		Benzo[k]fluoranthene	1.621	1.481	8.6	88	0.00
23	C	Benzo[a]pyrene	1.304	1.245	4.5	89	0.00
24		Indeno[1,2,3-cd]pyrene	1.493	1.446	3.1	83	-0.02
25		Dibenz[ah]anthracene	1.217	1.246	-2.4	90	0.00
26		Benzo[ghi]perylene	1.368	1.311	4.2	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7M13005.D PAHLOW.M Tue May 22 07:52:59 2001 Page 1

Acq On : 21 May 2001 20:54 Operator: mdc
Sample : 1ppm Alt source PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 07:30:50 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	434266	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	228008	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	362733	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	334355	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	256418	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	117949	0.96	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 38.40%			
7) 2-Fluorobiphenyl	7.60	172	324126	0.97	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 38.80%#			
17) p-Terphenyl-d14	11.46	244	341003	0.94	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 37.60%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	446451	0.92	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	295384	0.96	ug/ml	97
5) 1-Methylnaphthalene	7.37	142	292480	0.98	ug/ml	99
8) Acenaphthylene	8.20	152	369402	0.86	ug/ml	100
9) Acenaphthene	8.38	154	270545	0.93	ug/ml	98
10) Fluorene	8.90	166	294888	0.94	ug/ml	97
12) Phenanthrene	9.90	178	420836	0.90	ug/ml	100
13) Anthracene	9.95	178	385586	0.97	ug/ml	99
14) Fluoranthene	11.13	202	454601	0.94	ug/ml	99
16) Pyrene	11.38	202	478920	0.93	ug/ml	100
18) Benzo[a]anthracene	12.69	228	384524	0.91	ug/ml	100
19) Chrysene	12.75	228	425188	0.91	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	401040	0.94	ug/ml	98
22) Benzo[k]fluoranthene	14.45	252	379778	0.91	ug/ml	99
23) Benzo[a]pyrene	15.10	252	319321	0.96	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.03	276	370679	0.88	ug/ml#	98
25) Dibenz[ah]anthracene	18.05	278	319436	0.94	ug/ml	100
26) Benzo[ghi]perylene	18.95	276	336226	0.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13005.D PAHLOW.M Tue May 22 07:53:04 2001 Page 1

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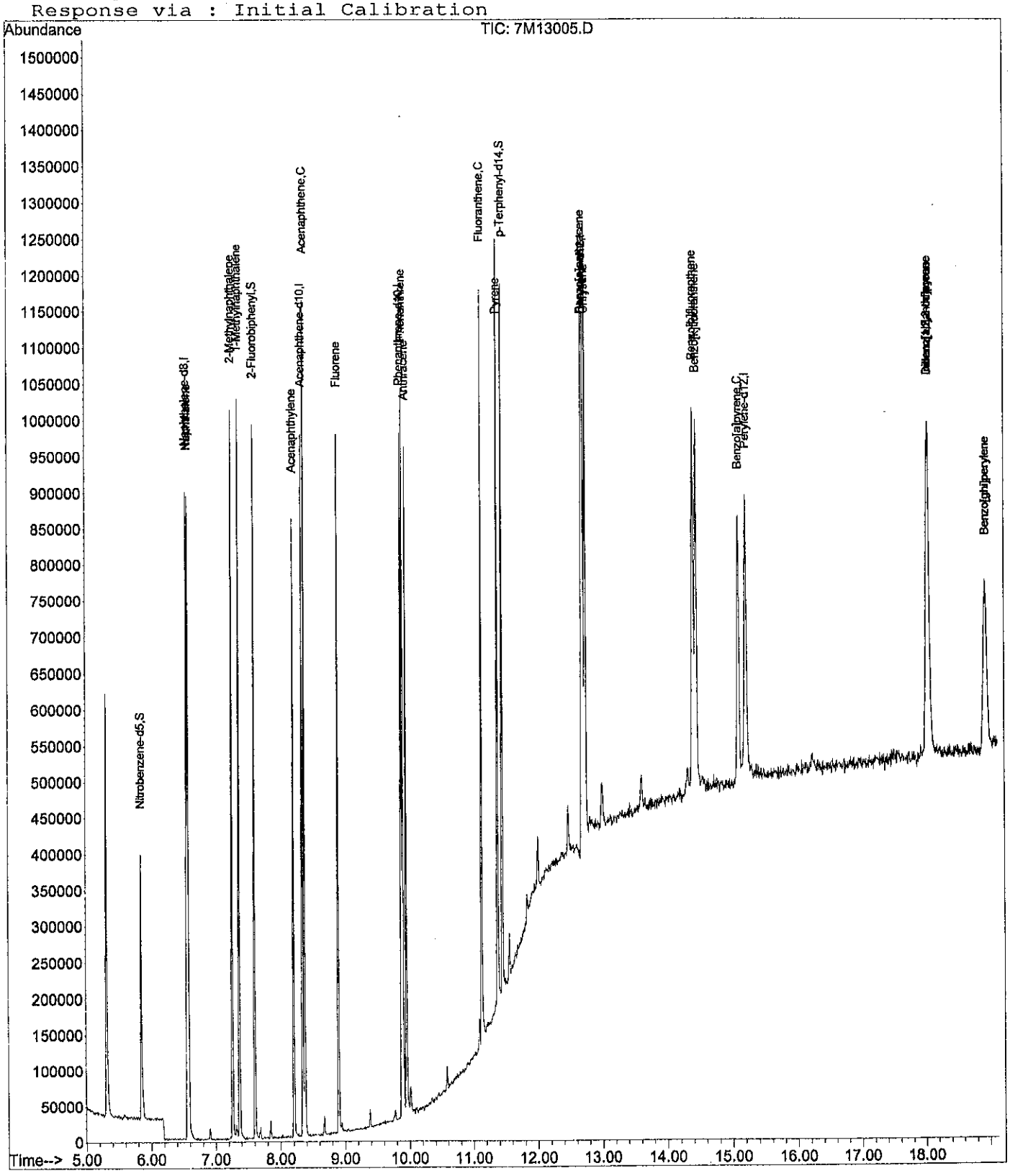
Req On : 21 May 2001 20:51
Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:30 2001

Operator: mas
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.05/22/01
Last Calibration: Tue May 22 14:27:49 2001
HPMS4
Calibration Files

	Compound	3 4M8465.D	10 4M8466.D	20 4M8467.D	50 4M8464.D	80 4M8468.D	100 4M8469.D	120 4M8470.D	Avg	%RSD	R^2 value
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	1.721	1.722	1.786	1.736	1.666	1.690	1.663	1.712	2.5	
	n-Nitrosodimethylamine	1.005	0.975	1.016	0.958	0.908	0.921	0.907	0.956	4.7	
S	2-Fluorophenol	1.531	1.447	1.523	1.433	1.371	1.398	1.369	1.439	4.6	
	Aniline	0.985	0.927	0.963	0.899	0.862	0.876	0.852	0.909	5.6	
S	Phenol-d5	1.893	1.803	1.876	1.760	1.664	1.671	1.625	1.756	6.1	
C	Phenol	2.014	1.911	1.990	1.901	1.801	1.816	1.785	1.888	4.9	
	bis(2-Chloroethyl)ether	1.151	1.101	1.147	1.064	1.021	1.031	1.005	1.074	5.6	
	2-Chlorophenol	1.602	1.513	1.571	1.510	1.450	1.478	1.452	1.511	3.8	
	1,3-Dichlorobenzene	1.850	1.693	1.758	1.642	1.562	1.592	1.566	1.666	6.5	
C	1,4-Dichlorobenzene	1.974	1.804	1.873	1.762	1.672	1.697	1.657	1.777	6.5	
	Benzyl Alcohol	0.980	0.974	1.035	1.006	0.963	0.979	0.967	0.986	2.6	
	1,2-Dichlorobenzene	1.739	1.629	1.674	1.598	1.523	1.551	1.519	1.605	5.1	
	2-Methylphenol	1.315	1.207	1.256	1.201	1.151	1.167	1.147	1.206	5.1	
	bis(2-Chloroisopropyl)ether	2.505	2.364	2.433	2.269	2.147	2.143	2.070	2.276	7.2	
	4-Methylphenol	1.905	1.738	1.846	1.758	1.664	1.674	1.635	1.746	5.7	
P	n-Nitrosodipropylamine	1.056	0.990	1.048	0.998	0.942	0.946	0.927	0.987	5.2	
	Hexachloroethane	0.688	0.655	0.678	0.642	0.621	0.639	0.627	0.650	3.9	
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.421	0.404	0.418	0.403	0.387	0.388	0.387	0.401	3.6	
	Nitrobenzene	0.444	0.413	0.431	0.414	0.394	0.396	0.391	0.412	4.9	
	Isophorone	0.750	0.696	0.721	0.663	0.589	0.574	0.569	0.652	11.4	
C	2-Nitrophenol	0.207	0.213	0.227	0.223	0.216	0.218	0.217	0.217	3.0	
	2,4-Dimethylphenol	0.370	0.341	0.358	0.344	0.325	0.320	0.318	0.339	5.8	
	bis(2-Chloroethoxy)methane	0.485	0.443	0.463	0.437	0.414	0.414	0.406	0.437	6.6	
	Benzoic Acid		0.133	0.141	0.169	0.162	0.175	0.185	0.161	12.5	
C	2,4-Dichlorophenol	0.296	0.308	0.323	0.312	0.299	0.300	0.301	0.305	3.1	
	1,2,4-Trichlorobenzene	0.372	0.341	0.354	0.344	0.328	0.333	0.332	0.344	4.5	
	Naphthalene	1.329	1.201	1.237	1.167	1.078	1.062	1.040	1.159	9.1	
	4-Chloroaniline	0.509	0.476	0.510	0.483	0.458	0.463	0.465	0.481	4.5	
C	Hexachlorobutadiene	0.210	0.188	0.196	0.190	0.188	0.190	0.192	0.193	3.9	
C	4-Chloro-3-Methylphenol	0.343	0.326	0.340	0.312	0.281	0.274	0.273	0.307	10.1	
	2-Methylnaphthalene	0.850	0.775	0.799	0.736	0.683	0.677	0.664	0.740	9.5	
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.019	0.071	0.131	0.195	0.233	0.258	0.268	0.168	57.6	0.999QR
C	2,4,6-Trichlorophenol	0.372	0.363	0.395	0.398	0.375	0.377	0.372	0.379	3.4	
	2,4,5-Trichlorophenol	0.403	0.406	0.434	0.430	0.403	0.414	0.415	0.415	3.0	
S	2-Fluorobiphenyl	1.570	1.457	1.529	1.519	1.461	1.455	1.381	1.482	4.2	
	2-Chloronaphthalene	1.392	1.296	1.350	1.325	1.263	1.266	1.203	1.299	4.8	
	2-Nitroaniline			0.397	0.407	0.399	0.411	0.399	0.402	1.5	
	Dimethylphthalate	1.412	1.298	1.328	1.408	1.389	1.426	1.397	1.380	3.5	
	Acenaphthylene	2.123	1.988	2.082	1.958	1.836	1.845	1.783	1.945	6.7	
	2,6-Dinitrotoluene	0.292	0.288	0.307	0.335	0.340	0.353	0.348	0.323	8.4	
	3-Nitroaniline	0.335	0.345	0.381	0.357	0.329	0.330	0.318	0.342	6.2	
C	Acenaphthene	1.385	1.275	1.340	1.275	1.209	1.236	1.206	1.275	5.3	
P	2,4-Dinitrophenol			0.102	0.168	0.185	0.207	0.215	0.175	25.5	0.996LR
P	4-Nitrophenol			0.238	0.282	0.285	0.302	0.297	0.281	8.9	

Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.05/22/01
Last Calibration: Tue May 22 14:27:49 2001
HPMS4
Calibration Files

	Compound	3 4M8465.D	10 4M8466.D	20 4M8467.D	50 4M8464.D	80 4M8468.D	100 4M8469.D	120 4M8470.D	Avg	%RSD	R^2 value
	Dibenzofuran	1.875	1.741	1.794	1.718	1.685	1.734	1.695	1.749	3.8	
	2,4-Dinitrotoluene	0.334	0.381	0.434	0.466	0.469	0.486	0.481	0.436	13.2	
	Diethylphthalate	1.239	1.221	1.334	1.385	1.368	1.404	1.368	1.331	5.5	
	Fluorene	1.462	1.375	1.406	1.446	1.426	1.459	1.404	1.426	2.3	
	4-Chlorophenyl Phenyl Ether	0.680	0.623	0.643	0.672	0.680	0.702	0.699	0.671	4.3	
	4-Nitroaniline	0.345	0.317	0.279	0.321	0.309	0.324	0.328	0.318	6.3	
	1,2-Diphenylhydrazine	1.420	1.355	1.450	1.495	1.463	1.493	1.437	1.445	3.3	
S	2,4,6-Tribromophenol	0.152	0.160	0.184	0.210	0.223	0.239	0.246	0.202	18.5	0.996LR
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylphenol			0.139	0.165	0.168	0.178	0.180	0.166	9.9	
C	n-Nitrosodiphenylamine	0.660	0.609	0.654	0.634	0.609	0.611	0.605	0.626	3.7	
	4-Bromophenyl Phenyl Ether	0.260	0.241	0.259	0.255	0.252	0.262	0.263	0.256	3.0	
	Hexachlorobenzene	0.282	0.276	0.290	0.295	0.296	0.308	0.313	0.294	4.5	
C	Pentachlorophenol			0.106	0.135	0.143	0.153	0.160	0.139	15.3	0.996LR
	Phenanthrene	1.486	1.362	1.417	1.329	1.241	1.233	1.188	1.322	8.2	
	Anthracene	1.468	1.353	1.413	1.342	1.269	1.262	1.208	1.331	6.8	
	Carbazole	1.426	1.153	1.030	0.949	0.859	0.850	0.841	1.015	21.1	0.998LR
	Di-n-Butyl Phthalate	1.643	1.548	1.618	1.507	1.405	1.397	1.336	1.493	7.9	
C	Fluoranthene	1.711	1.536	1.608	1.504	1.375	1.371	1.311	1.488	9.7	
I	Chrysene-d12	ISTD									
	Benzidine		0.330	0.270	0.230	0.262	0.288	0.303	0.281	12.3	
	Pyrene	1.468	1.386	1.428	1.355	1.269	1.256	1.226	1.341	6.9	
S	p-Terphenyl-d14	1.083	1.013	1.056	1.027	0.998	1.000	0.996	1.025	3.2	
	Butyl Benzyl Phthalate	0.666	0.626	0.643	0.603	0.571	0.572	0.565	0.606	6.5	
	Benzo[a]anthracene	1.446	1.316	1.355	1.265	1.210	1.212	1.210	1.288	7.0	
	3,3'-Dichlorobenzidine	0.506	0.402	0.370	0.322	0.313	0.325	0.334	0.368	18.7	0.998LR
	Chrysene	1.431	1.306	1.345	1.245	1.186	1.185	1.167	1.266	7.8	
	bis(2-Ethylhexyl)phthalate	0.894	0.848	0.863	0.813	0.774	0.779	0.771	0.820	6.0	
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.481	1.427	1.501	1.456	1.411	1.432	1.435	1.449	2.2	
	Benzo[b]fluoranthene	1.277	1.217	1.330	1.315	1.250	1.301	1.280	1.281	3.0	
	Benzo[k]fluoranthene	1.328	1.252	1.256	1.249	1.258	1.282	1.311	1.277	2.5	
C	Benzo[a]pyrene	1.197	1.130	1.193	1.164	1.127	1.158	1.155	1.161	2.4	
	Indeno[1,2,3-cd]pyrene	1.234	1.174	1.248	1.165	1.066	1.071	1.061	1.145	7.0	
	Dibenz[ah]anthracene	0.776	0.752	0.799	0.765	0.706	0.715	0.707	0.746	5.0	
	Benzo[ghi]perylene	1.054	0.996	1.055	0.933	0.814	0.814	0.800	0.924	12.4	

I=ISTD/S=SURR/C=CCC/P=SPCC
Wed May 23 08:22:10 2001

Average %RSD
7.4

Data File : C:\HPCHEM\1\DATA\052201\4M8464.D Vial: 2
Acq On : 22 May 2001 10:48 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 11:10 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	302783	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1167232	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	598100	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	998035	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1141862	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	1072793	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	542477	49.48	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 49.48%			
6) Phenol-d5	8.03	99	666290	52.90	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 52.90%			
20) Nitrobenzene-d5	9.01	82	588673	52.88	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 105.76%			
38) 2-Fluorobiphenyl	10.81	172	1135982	52.64	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 105.28%			
55) 2,4,6-Tribromophenol	12.36	330	156980	48.35	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 48.35%			
70) p-Terphenyl-d14	14.66	244	1465618	51.74	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 103.48%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	657032	51.51	ug/ml	99
3) n-Nitrosodimethylamine	5.40	74	362752	50.53	ug/ml	93
5) Aniline	8.11	66	340184	79.25	ug/ml	98
7) Phenol	8.05	94	719522	51.59	ug/ml	96
8) bis(2-Chloroethyl)ether	8.14	63	402559	51.19	ug/ml	98
9) 2-Chlorophenol	8.23	128	571418	50.10	ug/ml	98
10) 1,3-Dichlorobenzene	8.38	146	621625	50.74	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	666803	51.40	ug/ml	99
12) Benzyl Alcohol	8.56	108	380680	55.61	ug/ml	96
13) 1,2-Dichlorobenzene	8.62	146	604786	51.19	ug/ml	99
14) 2-Methylphenol	8.65	107	454426	52.80	ug/ml	98
15) bis(2-Chloroisopropyl)ethe	8.67	45	858918	51.18	ug/ml	98
16) 4-Methylphenol	8.80	107	665420	55.58	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	377608	55.54	ug/ml	98
18) Hexachloroethane	8.95	117	243028	51.00	ug/ml	99
21) Nitrobenzene	9.03	77	603537	53.63	ug/ml	97
22) Isophorone	9.24	82	967749	54.87	ug/ml	98
23) 2-Nitrophenol	9.35	139	325444	52.36	ug/ml	96
24) 2,4-Dimethylphenol	9.34	122	501656	54.79	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	637529	53.27	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8464.D BNA.M Tue May 22 11:10:50 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\4M8464.D
Acq On : 22 May 2001 10:48
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 11:10 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.41	122	246379	59.61	ug/ml	96
27) 2,4-Dichlorophenol	9.58	162	455254	53.85	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.67	180	501453	52.18	ug/ml	98
29) Naphthalene	9.76	128	1703273	52.21	ug/ml	100
30) 4-Chloroaniline	9.80	127	704353	59.18	ug/ml	98
31) Hexachlorobutadiene	9.86	225	277879	50.93	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.26	107	455423	50.81	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	1073443	50.49	ug/ml	99
35) Hexachlorocyclopentadiene	10.61	237	145599	38.02	ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	297347	55.01	ug/ml	99
37) 2,4,5-Trichlorophenol	10.79	196	321259	51.10	ug/ml	99
39) 2-Chloronaphthalene	10.97	162	990658	53.31	ug/ml	99
40) 2-Nitroaniline	11.07	65	304064	53.60	ug/ml	95
41) Dimethylphthalate	11.21	163	1052975	51.91	ug/ml	100
42) Acenaphthylene	11.41	152	1463870	49.65	ug/ml	100
43) 2,6-Dinitrotoluene	11.31	165	250766	53.36	ug/ml	94
44) 3-Nitroaniline	11.50	138	266927	52.50	ug/ml	95
45) Acenaphthene	11.58	154	953110	51.60	ug/ml	100
46) 2,4-Dinitrophenol	11.60	184	125452	54.13	ug/ml#	80
47) 4-Nitrophenol	11.62	65	210568	57.98	ug/ml	88
48) Dibenzofuran	11.75	168	1284292	48.49	ug/ml	98
49) 2,4-Dinitrotoluene	11.73	165	348114	55.69	ug/ml	97
50) Diethylphthalate	11.91	149	1035651	52.71	ug/ml	99
51) Fluorene	12.10	166	1081344	51.35	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	502195	50.69	ug/ml	98
53) 4-Nitroaniline	12.13	138	240206	45.07	ug/ml	90
54) 1,2-Diphenylhydrazine	12.23	77	1117821	52.93	ug/ml	98
57) 4,6-Dinitro-2-Methylphenol	12.14	198	206377	53.27	ug/ml	98
58) n-Nitrosodiphenylamine	12.19	169	790354	52.53	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.57	248	318351	52.00	ug/ml	99
60) Hexachlorobenzene	12.69	284	368454	51.92	ug/ml	99
61) Pentachlorophenol	12.88	266	168216	46.58	ug/ml	97
62) Phenanthrene	13.10	178	1657856	52.24	ug/ml	100
63) Anthracene	13.16	178	1674355	53.33	ug/ml	100
64) Carbazole	13.31	167	1183317	39.58	ug/ml	98
65) Di-n-Butyl Phthalate	13.56	149	1879910	53.21	ug/ml	100
66) Fluoranthene	14.33	202	1876892	53.59	ug/ml	98
68) Benzidine	14.43	184	328854	1342.03	ug/ml	100
69) Pyrene	14.58	202	1934187	53.15	ug/ml	99
71) Butyl Benzyl Phthalate	15.11	149	861382	51.26	ug/ml	98
72) Benzo[a]anthracene	15.84	228	1804965	50.56	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8464.D
Acq On : 22 May 2001 10:48
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 11:10 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.78	252	460223	47.68	ug/ml	100
74)	Chrysene	15.90	228	1776714	49.94	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.66	149	1160280	50.70	ug/ml	100
77)	Di-n-Octyl Phthalate	16.48	149	1952198	49.27	ug/ml	99
78)	Benzo[b]fluoranthene	17.44	252	1763979	47.93	ug/ml	99
79)	Benzo[k]fluoranthene	17.48	252	1675536	44.61	ug/ml	99
80)	Benzo[a]pyrene	18.08	252	1561401	47.12	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.81	276	1562086	42.51	ug/ml#	95
82)	Dibenz[ah]anthracene	20.81	278	1025725	34.27	ug/ml	99
83)	Benzo[ghi]perylene	21.65	276	1251601	44.64	ug/ml	98

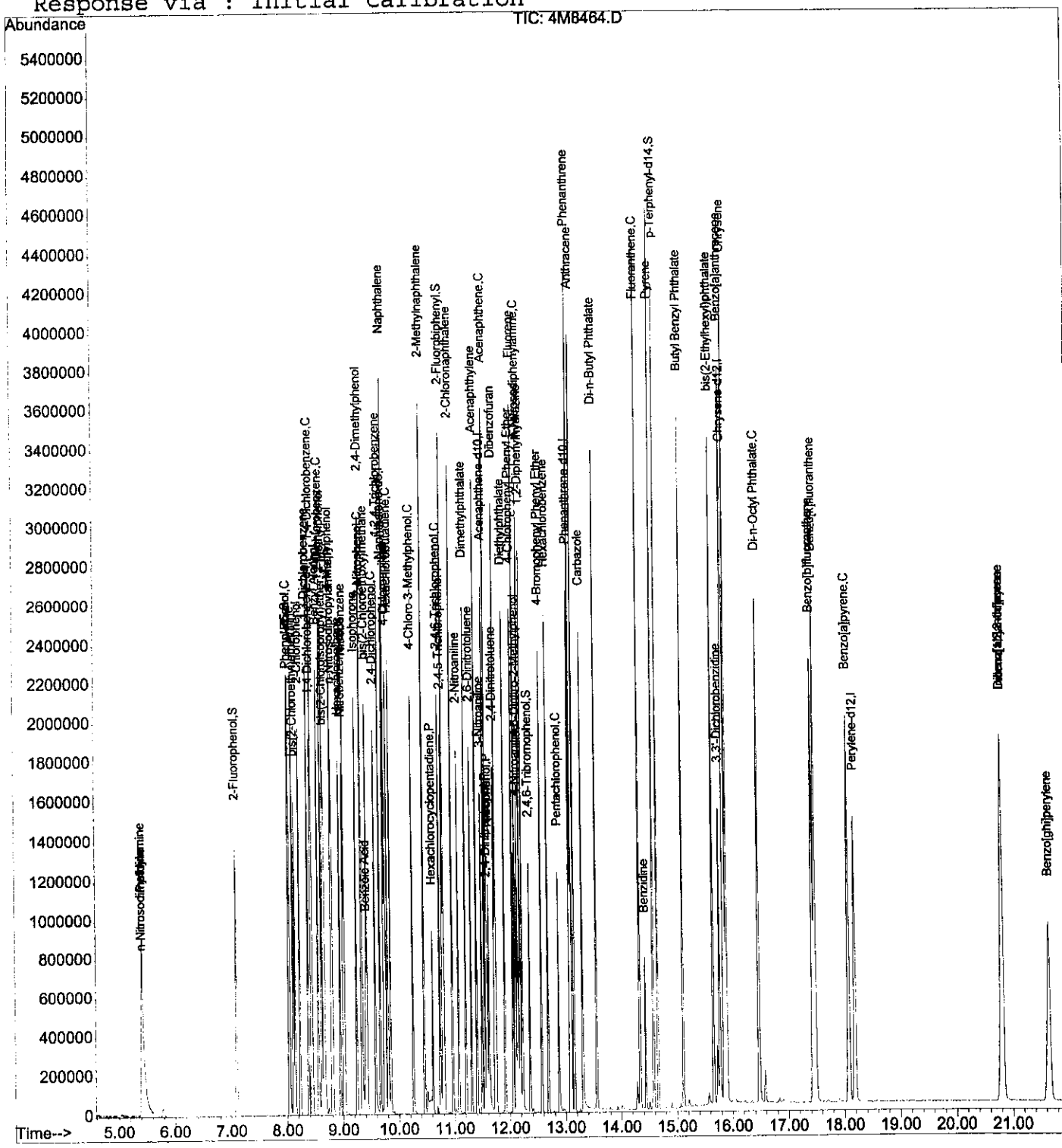
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8464.D
Acq On : 22 May 2001 10:48
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 11:10 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8465.D Vial: 3
Acq On : 22 May 2001 11:20 Operator: mdc
Sample : 3PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 11:42 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	285181	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1072490	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	594157	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	876245	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1047536	40.00	ug/ml	-0.02
76) Perylene-d12	18.18	264	1051066	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	32740	3.17	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 3.17%#			
6) Phenol-d5	8.03	99	40495	3.41	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 3.41%#			
20) Nitrobenzene-d5	9.01	82	33897	3.31	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 6.62%#			
38) 2-Fluorobiphenyl	10.81	172	69970	3.26	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 6.52%#			
55) 2,4,6-Tribromophenol	12.36	330	6775	5.25	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 5.25%#			
70) p-Terphenyl-d14	14.66	244	85052	3.27	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 6.54%#			
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	5.41	74	21492	3.18	ug/ml#	87
5) Aniline	8.11	66	21060	5.21	ug/ml	95
7) Phenol	8.04	94	43078	3.28	ug/ml	95
8) bis(2-Chloroethyl)ether	8.14	63	24619	3.32	ug/ml	99
9) 2-Chlorophenol	8.23	128	34258	3.19	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	39567	3.43	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	42220	3.46	ug/ml#	94
12) Benzyl Alcohol	8.56	108	20959	3.25	ug/ml	95
13) 1,2-Dichlorobenzene	8.62	146	37189	3.34	ug/ml	99
14) 2-Methylphenol	8.65	107	28124	3.47	ug/ml	96
15) bis(2-Chloroisopropyl)ethe	8.67	45	53587	3.39	ug/ml	97
16) 4-Methylphenol	8.79	107	40755	3.61	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	22588	3.53	ug/ml	98
18) Hexachloroethane	8.95	117	14705	3.28	ug/ml	99
21) Nitrobenzene	9.03	77	35742	3.46	ug/ml	93
22) Isophorone	9.24	82	60311	3.72	ug/ml	98
23) 2-Nitrophenol	9.35	139	16644	2.91	ug/ml	91
24) 2,4-Dimethylphenol	9.33	122	29751	3.54	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	38999	3.55	ug/ml#	95
27) 2,4-Dichlorophenol	9.58	162	23780	3.06	ug/ml	97

(#) = qualifier out of range (m) = manual integration
4M8465.D BNA.M Tue May 22 11:42:43 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052201\4M8465.D Vial: 3
Acq On : 22 May 2001 11:20 Operator: mdc
Sample : 3PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 11:42 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28)	1,2,4-Trichlorobenzene	9.66	180	29956	3.39 ug/ml	99
29)	Naphthalene	9.76	128	106937	3.57 ug/ml	99
30)	4-Chloroaniline	9.80	127	40973	3.75 ug/ml	98
31)	Hexachlorobutadiene	9.86	225	16872	3.37 ug/ml	98
32)	4-Chloro-3-Methylphenol	10.26	107	27617	3.35 ug/ml	96
33)	2-Methylnaphthalene	10.45	142	68362	3.50 ug/ml	99
35)	Hexachlorocyclopentadiene	10.61	237	861	6.89 ug/ml#	82
36)	2,4,6-Trichlorophenol	10.74	196	16555	3.08 ug/ml	99
37)	2,4,5-Trichlorophenol	10.79	196	17948	2.87 ug/ml	99
39)	2-Chloronaphthalene	10.96	162	62039	3.36 ug/ml	99
40)	2-Nitroaniline	11.07	65	16838	2.99 ug/ml	91
41)	Dimethylphthalate	11.20	163	62900	3.12 ug/ml	99
42)	Acenaphthylene	11.40	152	94609	3.23 ug/ml	99
43)	2,6-Dinitrotoluene	11.30	165	13015	2.79 ug/ml	91
44)	3-Nitroaniline	11.49	138	14914	2.95 ug/ml	92
45)	Acenaphthene	11.58	154	61710	3.36 ug/ml	96
46)	2,4-Dinitrophenol	11.60	184	166	16.41 ug/ml#	1
47)	4-Nitrophenol	11.63	65	8622	2.39 ug/ml#	79
48)	Dibenzofuran	11.74	168	83543	3.18 ug/ml	100
49)	2,4-Dinitrotoluene	11.72	165	14885	2.40 ug/ml#	87
50)	Diethylphthalate	11.91	149	55192	2.83 ug/ml	99
51)	Fluorene	12.10	166	65164	3.11 ug/ml	98
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	30281	3.08 ug/ml	98
53)	4-Nitroaniline	12.13	138	15359	2.90 ug/ml#	88
54)	1,2-Diphenylhydrazine	12.22	77	63274	3.02 ug/ml	95
57)	4,6-Dinitro-2-Methylphenol	12.14	198	4060	10.34 ug/ml#	68
58)	n-Nitrosodiphenylamine	12.18	169	43383	3.28 ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.56	248	17094	3.18 ug/ml	97
60)	Hexachlorobenzene	12.69	284	18506	2.97 ug/ml	95
61)	Pentachlorophenol	12.88	266	2867	11.11 ug/ml#	85
62)	Phenanthrene	13.10	178	97671	3.51 ug/ml	99
63)	Anthracene	13.15	178	96486	3.50 ug/ml	99
64)	Carbazole	13.31	167	93703	3.57 ug/ml	97
65)	Di-n-Butyl Phthalate	13.55	149	107975	3.48 ug/ml	99
66)	Fluoranthene	14.33	202	112412	3.66 ug/ml	97
68)	Benzidine	14.43	184	43160	191.99 ug/ml	100
69)	Pyrene	14.58	202	115362	3.46 ug/ml	98
71)	Butyl Benzyl Phthalate	15.11	149	52298	3.39 ug/ml	96
72)	Benzo[a]anthracene	15.84	228	113592	3.47 ug/ml	99
74)	Chrysene	15.89	228	112451	3.45 ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.65	149	70227	3.34 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8465.D
Acq On : 22 May 2001 11:20
Sample : 3PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 11:42 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	Di-n-Octyl Phthalate	16.46	149	116726	3.01	ug/ml	96
78)	Benzo[b]fluoranthene	17.43	252	100643	2.79	ug/ml	97
79)	Benzo[k]fluoranthene	17.47	252	104661	2.84	ug/ml	97
80)	Benzo[a]pyrene	18.07	252	94359	2.91	ug/ml	96
81)	Indeno[1,2,3-cd]pyrene	20.79	276	97261	2.70	ug/ml#	94
82)	Dibenz[ah]anthracene	20.79	278	61210	2.09	ug/ml	99

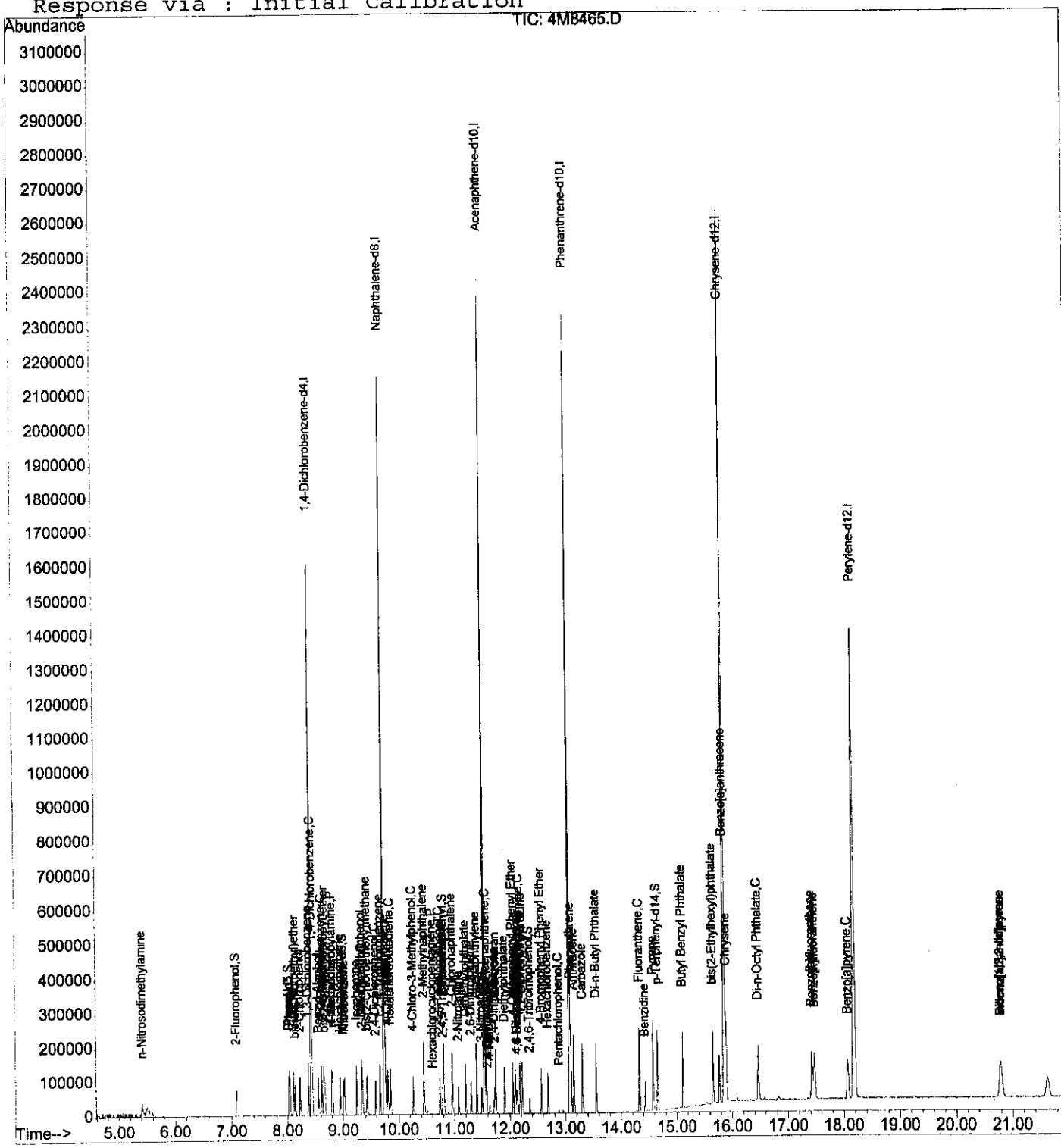
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8465.D
Acq On : 22 May 2001 11:20
Sample : 3PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 11:42 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8466.D
Acq On : 22 May 2001 11:52
Sample : 10PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:14 2001

Vial: 4
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	283693	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1093477	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	595074	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	903604	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1044639	40.00	ug/ml	-0.01
76) Perylene-d12	18.18	264	1027832	40.00	ug/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	102642	9.99	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 9.99%#			
6) Phenol-d5	8.03	99	127852	10.83	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 10.83%			
20) Nitrobenzene-d5	9.01	82	110380	10.58	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 21.16%#			
38) 2-Fluorobiphenyl	10.81	172	216801	10.10	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 20.20%#			
55) 2,4,6-Tribromophenol	12.36	330	23763	10.15	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 10.15%			
70) p-Terphenyl-d14	14.66	244	264580	10.21	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 20.42%#			
Target Compounds						Qvalue
2) Pyridine	5.44	79	122135	10.22	ug/ml	99
3) n-Nitrosodimethylamine	5.40	74	69121	10.28	ug/ml	90
5) Aniline	8.10	66	65774	16.35	ug/ml	96
7) Phenol	8.04	94	135565	10.37	ug/ml	94
8) bis(2-Chloroethyl)ether	8.14	63	78112	10.60	ug/ml	95
9) 2-Chlorophenol	8.23	128	107323	10.04	ug/ml	98
10) 1,3-Dichlorobenzene	8.38	146	120049	10.46	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	127966	10.53	ug/ml	98
12) Benzyl Alcohol	8.55	108	69048	10.76	ug/ml	95
13) 1,2-Dichlorobenzene	8.62	146	115556	10.44	ug/ml	99
14) 2-Methylphenol	8.65	107	85596	10.61	ug/ml	97
15) bis(2-Chloroisopropyl)ethe	8.67	45	167653	10.66	ug/ml	98
16) 4-Methylphenol	8.79	107	123259	10.99	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	70237	11.03	ug/ml	97
18) Hexachloroethane	8.95	117	46457	10.41	ug/ml	97
21) Nitrobenzene	9.03	77	112921	10.71	ug/ml	96
22) Isophorone	9.24	82	190263	11.52	ug/ml	98
23) 2-Nitrophenol	9.34	139	58202	10.00	ug/ml	94
24) 2,4-Dimethylphenol	9.33	122	93340	10.88	ug/ml	100
25) bis(2-Chloroethoxy)methane	9.43	93	121071	10.80	ug/ml#	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8466.D
Acq On : 22 May 2001 11:52
Sample : 10PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:14 2001

Vial: 4
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.39	122	36240	17.44	ug/ml	90
27) 2,4-Dichlorophenol	9.58	162	84168	10.63	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.66	180	93271	10.36	ug/ml	97
29) Naphthalene	9.76	128	328348	10.74	ug/ml	100
30) 4-Chloroaniline	9.80	127	130164	11.67	ug/ml	96
31) Hexachlorobutadiene	9.85	225	51521	10.08	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.25	107	89144	10.62	ug/ml	96
33) 2-Methylnaphthalene	10.45	142	211821	10.64	ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	10527	8.98	ug/ml	98
36) 2,4,6-Trichlorophenol	10.74	196	54055	10.05	ug/ml	99
37) 2,4,5-Trichlorophenol	10.79	196	60356	9.65	ug/ml	98
39) 2-Chloronaphthalene	10.96	162	192860	10.43	ug/ml	99
40) 2-Nitroaniline	11.07	65	57959	10.27	ug/ml	92
41) Dimethylphthalate	11.20	163	193031	9.56	ug/ml	99
42) Acenaphthylene	11.40	152	295717	10.08	ug/ml	99
43) 2,6-Dinitrotoluene	11.30	165	42823	9.16	ug/ml	90
44) 3-Nitroaniline	11.49	138	51351	10.15	ug/ml	94
45) Acenaphthene	11.58	154	189681	10.32	ug/ml	98
46) 2,4-Dinitrophenol	11.60	184	8201	18.84	ug/ml#	1
47) 4-Nitrophenol	11.62	65	32520	9.00	ug/ml	84
48) Dibenzofuran	11.74	168	259063	9.83	ug/ml	98
49) 2,4-Dinitrotoluene	11.72	165	56646	9.11	ug/ml	92
50) Diethylphthalate	11.90	149	181673	9.29	ug/ml	99
51) Fluorene	12.10	166	204614	9.77	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	92719	9.41	ug/ml	98
53) 4-Nitroaniline	12.13	138	47221	8.90	ug/ml#	91
54) 1,2-Diphenylhydrazine	12.22	77	201544	9.59	ug/ml	96
57) 4,6-Dinitro-2-Methylphenol	12.14	198	23094	14.79	ug/ml#	86
58) n-Nitrosodiphenylamine	12.18	169	137521	10.10	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.56	248	54337	9.80	ug/ml	97
60) Hexachlorobenzene	12.68	284	62420	9.72	ug/ml	98
61) Pentachlorophenol	12.88	266	16174	14.25	ug/ml	99
62) Phenanthrene	13.10	178	307770	10.71	ug/ml	100
63) Anthracene	13.15	178	305591	10.75	ug/ml	99
64) Carbazole	13.30	167	260390	9.62	ug/ml	97
65) Di-n-Butyl Phthalate	13.55	149	349805	10.94	ug/ml	100
66) Fluoranthene	14.33	202	346885	10.94	ug/ml	98
68) Benzidine	14.43	184	86260	384.78	ug/ml	100
69) Pyrene	14.58	202	361849	10.87	ug/ml	98
71) Butyl Benzyl Phthalate	15.11	149	163364	10.63	ug/ml	96
72) Benzo[a]anthracene	15.84	228	343790	10.53	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8466.D
Acq On : 22 May 2001 11:52
Sample : 10PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:14 2001

Vial: 4
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.76	252	105068	8.40	ug/ml	99
74)	Chrysene	15.89	228	341049	10.48	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.65	149	221492	10.58	ug/ml	99
77)	Di-n-Octyl Phthalate	16.46	149	366797	9.66	ug/ml	97
78)	Benzo[b]fluoranthene	17.43	252	312725	8.87	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	321766	8.94	ug/ml	98
80)	Benzo[a]pyrene	18.07	252	290378	9.15	ug/ml	98
81)	Indeno[1,2,3-cd]pyrene	20.79	276	301560	8.56	ug/ml#	95
82)	Dibenz[ah]anthracene	20.79	278	193339	6.74	ug/ml	99
83)	Benzo[ghi]perylene	21.62	276	255957	8.24	ug/ml	98

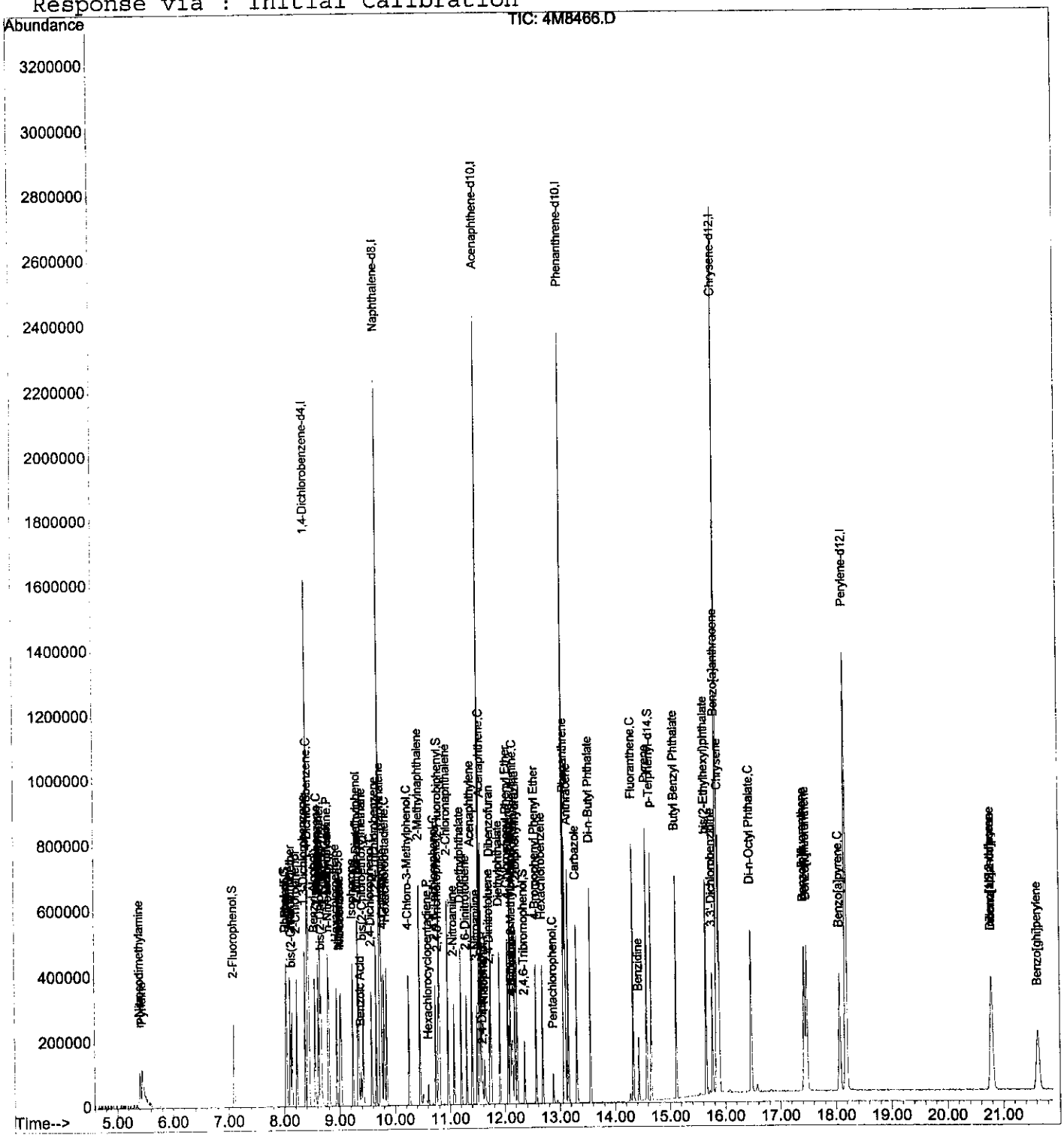
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8466.D
Acq On : 22 May 2001 11:52
Sample : 10PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:14 2001

Vial: 4
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8467.D
Acq On : 22 May 2001 12:24
Sample : 20PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:46 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	289426	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1117869	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	599932	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	931753	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1079861	40.00	ug/ml	-0.01
76) Perylene-d12	18.18	264	1036827	40.00	ug/ml	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	220334	21.02	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 21.02%			
6) Phenol-d5	8.03	99	271514	22.55	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 22.55%			
20) Nitrobenzene-d5	9.01	82	233624	21.91	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 43.82%			
38) 2-Fluorobiphenyl	10.81	172	458771	21.19	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 42.38%#			
55) 2,4,6-Tribromophenol	12.36	330	55071	19.05	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 19.05%			
70) p-Terphenyl-d14	14.66	244	570154	21.28	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 42.56%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	258435	21.19	ug/ml	97
3) n-Nitrosodimethylamine	5.40	74	147044	21.43	ug/ml	91
5) Aniline	8.10	66	139417	33.98	ug/ml	98
7) Phenol	8.04	94	288014	21.61	ug/ml	95
8) bis(2-Chloroethyl)ether	8.14	63	165959	22.08	ug/ml	94
9) 2-Chlorophenol	8.23	128	227400	20.86	ug/ml	97
10) 1,3-Dichlorobenzene	8.38	146	254350	21.72	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	271070	21.86	ug/ml	99
12) Benzyl Alcohol	8.55	108	149778	22.89	ug/ml	95
13) 1,2-Dichlorobenzene	8.62	146	242225	21.45	ug/ml	99
14) 2-Methylphenol	8.65	107	181759	22.09	ug/ml	98
15) bis(2-Chloroisopropyl)ethe	8.67	45	352120	21.95	ug/ml	98
16) 4-Methylphenol	8.79	107	267129	23.34	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	151725	23.35	ug/ml	97
18) Hexachloroethane	8.95	117	98132	21.54	ug/ml	100
21) Nitrobenzene	9.02	77	240651	22.33	ug/ml	96
22) Isophorone	9.24	82	403187	23.87	ug/ml	98
23) 2-Nitrophenol	9.34	139	126840	21.31	ug/ml	93
24) 2,4-Dimethylphenol	9.33	122	200130	22.82	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	258946	22.59	ug/ml	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8467.D
Acq On : 22 May 2001 12:24
Sample : 20PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:46 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.40	122	79013	27.10	ug/ml	91
27) 2,4-Dichlorophenol	9.58	162	180562	22.30	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.66	180	198083	21.52	ug/ml	97
29) Naphthalene	9.76	128	691518	22.13	ug/ml	100
30) 4-Chloroaniline	9.80	127	285125	25.02	ug/ml	98
31) Hexachlorobutadiene	9.85	225	109382	20.93	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.25	107	190266	22.16	ug/ml	97
33) 2-Methylnaphthalene	10.45	142	446664	21.94	ug/ml	99
35) Hexachlorocyclopentadiene	10.61	237	39338	15.14	ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	118578	21.87	ug/ml	99
37) 2,4,5-Trichlorophenol	10.79	196	130228	20.65	ug/ml	99
39) 2-Chloronaphthalene	10.96	162	405054	21.73	ug/ml	99
40) 2-Nitroaniline	11.07	65	119204	20.95	ug/ml	94
41) Dimethylphthalate	11.20	163	398262	19.57	ug/ml	100
42) Acenaphthylene	11.40	152	624627	21.12	ug/ml	99
43) 2,6-Dinitrotoluene	11.30	165	92062	19.53	ug/ml	91
44) 3-Nitroaniline	11.49	138	114250	22.40	ug/ml	96
45) Acenaphthene	11.58	154	402097	21.70	ug/ml	99
46) 2,4-Dinitrophenol	11.59	184	30735	25.59	ug/ml#	1
47) 4-Nitrophenol	11.62	65	71528	19.64	ug/ml	91
48) Dibenzofuran	11.74	168	538134	20.26	ug/ml	98
49) 2,4-Dinitrotoluene	11.72	165	130045	20.74	ug/ml	93
50) Diethylphthalate	11.90	149	400224	20.31	ug/ml	99
51) Fluorene	12.10	166	421654	19.96	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	192729	19.39	ug/ml	97
53) 4-Nitroaniline	12.13	138	83813	15.68	ug/ml#	86
54) 1,2-Diphenylhydrazine	12.22	77	434920	20.53	ug/ml	97
57) 4,6-Dinitro-2-Methylphenol	12.14	198	64892	24.15	ug/ml	92
58) n-Nitrosodiphenylamine	12.18	169	304729	21.69	ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.56	248	120456	21.07	ug/ml	98
60) Hexachlorobenzene	12.68	284	135293	20.42	ug/ml	97
61) Pentachlorophenol	12.88	266	49178	21.74	ug/ml	99
62) Phenanthrene	13.10	178	660371	22.29	ug/ml	100
63) Anthracene	13.15	178	658053	22.45	ug/ml	99
64) Carbazole	13.30	167	479819	17.19	ug/ml	97
65) Di-n-Butyl Phthalate	13.55	149	753597	22.85	ug/ml	100
66) Fluoranthene	14.33	202	749181	22.91	ug/ml	98
68) Benzidine	14.43	184	145951	629.81	ug/ml	100
69) Pyrene	14.58	202	770989	22.40	ug/ml	99
71) Butyl Benzyl Phthalate	15.11	149	347216	21.85	ug/ml	97
72) Benzo[a]anthracene	15.84	228	731711	21.67	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8467.D
Acq On : 22 May 2001 12:24
Sample : 20PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:46 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.76	252	199910	19.33	ug/ml	100
74)	Chrysene	15.89	228	725945	21.58	ug/ml	98
75)	bis(2-Ethylhexyl)phthalate	15.65	149	465911	21.53	ug/ml	99
77)	Di-n-Octyl Phthalate	16.46	149	778044	20.32	ug/ml	98
78)	Benzo[b]fluoranthene	17.43	252	689708	19.39	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	651361	17.94	ug/ml	100
80)	Benzo[a]pyrene	18.07	252	618420	19.31	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.79	276	646770	18.21	ug/ml#	95
82)	Dibenz[ah]anthracene	20.79	278	414451	14.33	ug/ml	99
83)	Benzo[ghi]perylene	21.62	276	546771	18.79	ug/ml	98

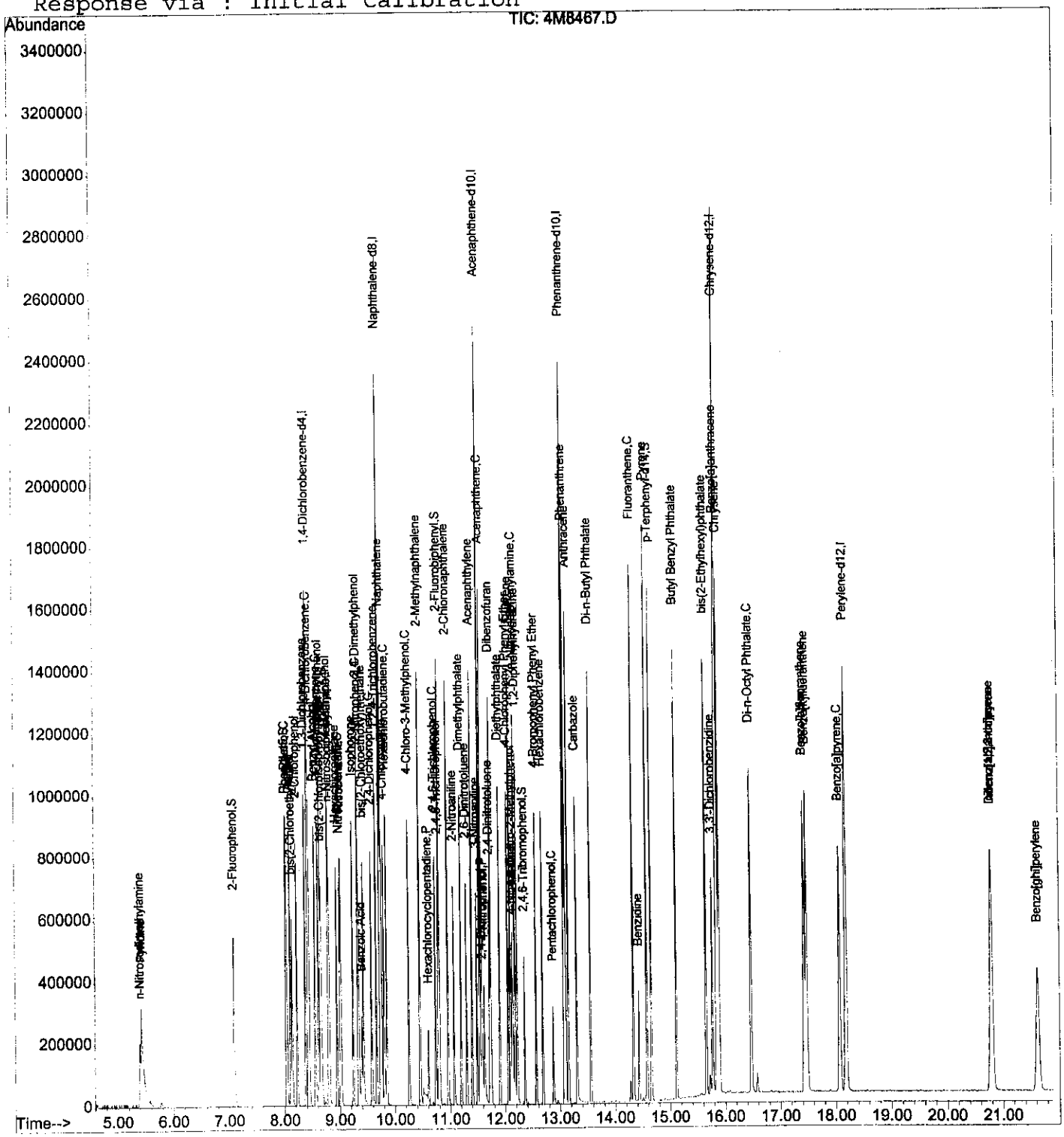
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8467.D
Acq On : 22 May 2001 12:24
Sample : 20PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:46 2001

Vial: 5
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8468.D Vial: 6
Acq On : 22 May 2001 12:55 Operator: mdc
Sample : 80PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:17 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	297300	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1148580	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	575017	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	991081	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1111561	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	1024621	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	815340	75.74	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 75.74%			
6) Phenol-d5	8.03	99	989660	80.03	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 80.03%			
20) Nitrobenzene-d5	9.01	82	887967	81.06	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 162.12%#			
38) 2-Fluorobiphenyl	10.81	172	1680028	80.97	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 161.94%#			
55) 2,4,6-Tribromophenol	12.36	330	256541	79.88	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 79.88%			
70) p-Terphenyl-d14	14.66	244	2219174	80.47	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 160.94%#			
Target Compounds						Qvalue
2) Pyridine	5.41	79	990603	79.09	ug/ml	99
3) n-Nitrosodimethylamine	5.40	74	540147	76.62	ug/ml	93
5) Aniline	8.11	66	512387	121.56	ug/ml	99
7) Phenol	8.04	94	1070918	78.21	ug/ml	96
8) bis(2-Chloroethyl)ether	8.14	63	607093	78.63	ug/ml	97
9) 2-Chlorophenol	8.23	128	862084	76.97	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	929027	77.23	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	994091	78.04	ug/ml	99
12) Benzyl Alcohol	8.56	108	572801	85.22	ug/ml	96
13) 1,2-Dichlorobenzene	8.62	146	905634	78.07	ug/ml	99
14) 2-Methylphenol	8.65	107	684124	80.95	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	1276348	77.45	ug/ml	97
16) 4-Methylphenol	8.80	107	989575	84.18	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	560327	83.94	ug/ml	99
18) Hexachloroethane	8.95	117	369101	78.89	ug/ml	98
21) Nitrobenzene	9.03	77	904196	81.65	ug/ml	98
22) Isophorone	9.25	82	1353856	78.01	ug/ml	99
23) 2-Nitrophenol	9.35	139	497134	81.29	ug/ml	97
24) 2,4-Dimethylphenol	9.34	122	746407	82.84	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	950678	80.73	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8468.D Vial: 6
Acq On : 22 May 2001 12:55 Operator: mdc
Sample : 80PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:17 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.42	122	372723	82.83	ug/ml	96
27) 2,4-Dichlorophenol	9.58	162	687327	82.62	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.67	180	754481	79.78	ug/ml	98
29) Naphthalene	9.76	128	2477063	77.16	ug/ml	100
30) 4-Chloroaniline	9.80	127	1051904	89.82	ug/ml	98
31) Hexachlorobutadiene	9.86	225	432314	80.52	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.25	107	645516	73.19	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	1568886	74.99	ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	267451	66.53	ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	431773	83.08	ug/ml	98
37) 2,4,5-Trichlorophenol	10.79	196	463694	76.71	ug/ml	100
39) 2-Chloronaphthalene	10.97	162	1452565	81.31	ug/ml	98
40) 2-Nitroaniline	11.07	65	458398	84.05	ug/ml	98
41) Dimethylphthalate	11.21	163	1597866	81.93	ug/ml	100
42) Acenaphthylene	11.41	152	2111211	74.48	ug/ml	100
43) 2,6-Dinitrotoluene	11.31	165	390620	86.46	ug/ml	95
44) 3-Nitroaniline	11.50	138	378391	77.41	ug/ml	96
45) Acenaphthene	11.58	154	1390767	78.32	ug/ml	99
46) 2,4-Dinitrophenol	11.60	184	212865	83.03	ug/ml#	58
47) 4-Nitrophenol	11.62	65	327455	93.78	ug/ml	88
48) Dibenzofuran	11.75	168	1938235	76.12	ug/ml	97
49) 2,4-Dinitrotoluene	11.73	165	539806	89.82	ug/ml	98
50) Diethylphthalate	11.91	149	1573209	83.29	ug/ml	99
51) Fluorene	12.10	166	1640321	81.02	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	781622	82.05	ug/ml	99
53) 4-Nitroaniline	12.13	138	355336	69.35	ug/ml#	92
54) 1,2-Diphenylhydrazine	12.23	77	1683044	82.90	ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.14	198	332514	80.61	ug/ml	99
58) n-Nitrosodiphenylamine	12.18	169	1206783	80.77	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.57	248	499951	82.23	ug/ml	100
60) Hexachlorobenzene	12.69	284	586680	83.26	ug/ml	100
61) Pentachlorophenol	12.88	266	283099	71.71	ug/ml	99
62) Phenanthrene	13.10	178	2459894	78.06	ug/ml	99
63) Anthracene	13.16	178	2515937	80.69	ug/ml	99
64) Carbazole	13.31	167	1702672	57.36	ug/ml	99
65) Di-n-Butyl Phthalate	13.56	149	2784344	79.37	ug/ml	99
66) Fluoranthene	14.33	202	2726379	78.39	ug/ml	99
68) Benzidine	14.43	184	583203	2444.88	ug/ml	100
69) Pyrene	14.58	202	2820783	79.63	ug/ml	99
71) Butyl Benzyl Phthalate	15.11	149	1269893	77.63	ug/ml	99
72) Benzo[a]anthracene	15.84	228	2688914	77.37	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8468.D
Acq On : 22 May 2001 12:55
Sample : 80PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 13:17 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration
DataAcq Meth : BNA

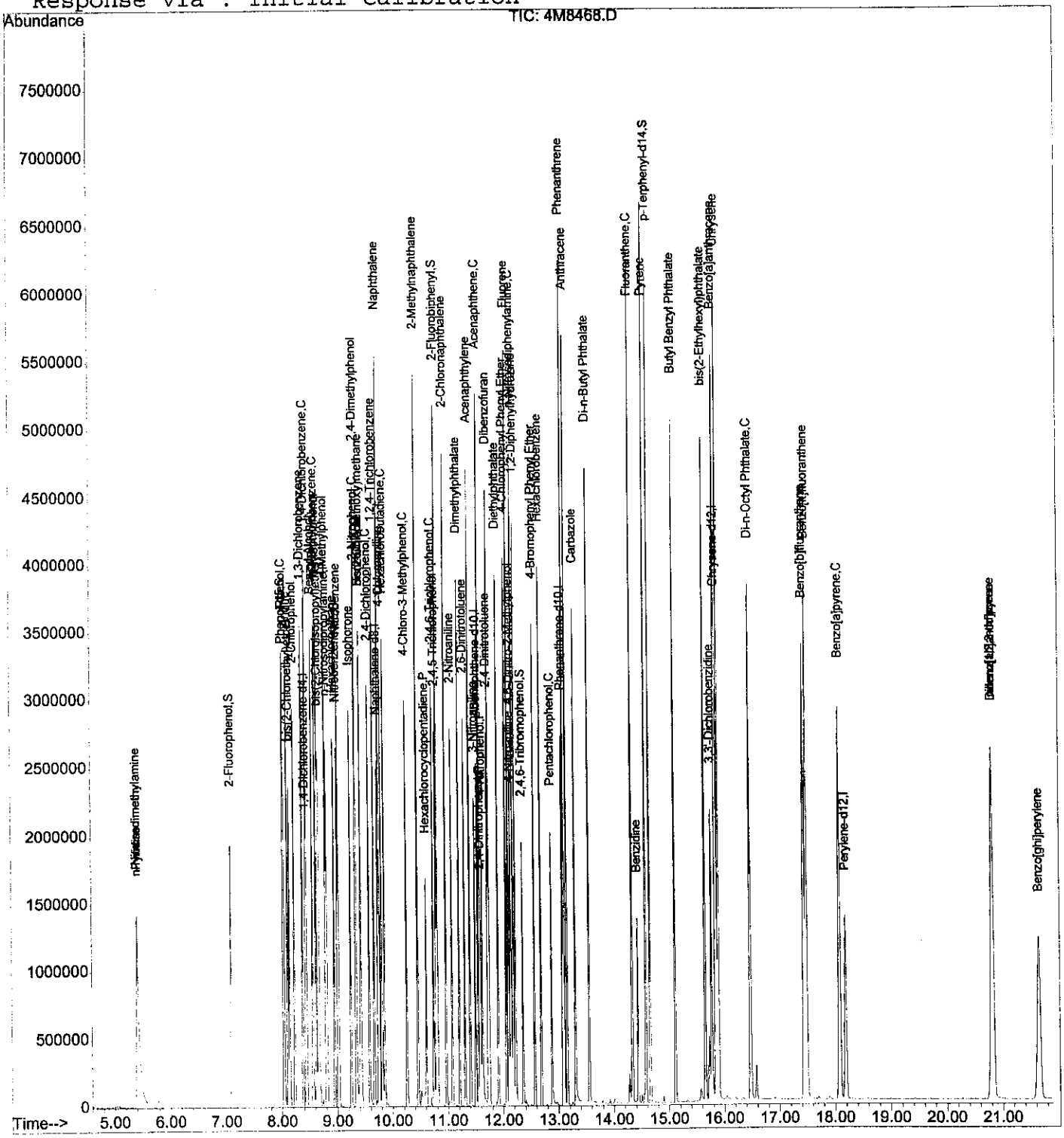
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.77	252	695047	76.86	ug/ml	99
74) Chrysene	15.90	228	2635949	76.12	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.66	149	1721519	77.27	ug/ml	99
77) Di-n-Octyl Phthalate	16.47	149	2891423	76.41	ug/ml	100
78) Benzo[b]fluoranthene	17.44	252	2561841	72.88	ug/ml	99
79) Benzo[k]fluoranthene	17.49	252	2578220	71.87	ug/ml	99
80) Benzo[a]pyrene	18.08	252	2309324	72.97	ug/ml	99
81) Indeno[1,2,3-cd]pyrene	20.82	276	2184357	62.23	ug/ml#	95
82) Dibenz[ah]anthracene	20.82	278	1447650	50.64	ug/ml	99
83) Benzo[ghi]perylene	21.65	276	1667082	64.98	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8468.D
Acq On : 22 May 2001 12:55
Sample : 80PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 13:17 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/10/01
Last Update : Tue May 22 08:03:01 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8469.D Vial: 7
Acq On : 22 May 2001 13:27 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:49 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:35:20 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	297319	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1160216	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	572842	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	1002808	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1124324	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	1017064	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	1039000	97.33	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 97.33%			
6) Phenol-d5	8.03	99	1242337	96.67	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 96.67%#			
20) Nitrobenzene-d5	9.01	82	1126323	98.54	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 197.08%#			
38) 2-Fluorobiphenyl	10.81	172	2084225	100.18	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 200.36%#			
55) 2,4,6-Tribromophenol	12.36	330	342008	120.76	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 120.76%			
70) p-Terphenyl-d14	14.66	244	2811199	99.22	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 198.44%#			
Target Compounds						Qvalue
2) Pyridine	5.41	79	1256075	99.31	ug/ml	100
3) n-Nitrosodimethylamine	5.40	74	684858	96.84	ug/ml	99
5) Aniline	8.11	66	651169	106.92	ug/ml	93
7) Phenol	8.04	94	1349461	97.16	ug/ml	100
8) bis(2-Chloroethyl)ether	8.14	63	766576	97.77	ug/ml	95
9) 2-Chlorophenol	8.23	128	1098830	98.41	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	1182959	97.03	ug/ml	100
11) 1,4-Dichlorobenzene	8.44	146	1261092	97.07	ug/ml	100
12) Benzyl Alcohol	8.56	108	727853	101.13	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	1152717	98.20	ug/ml	100
14) 2-Methylphenol	8.65	107	867517	98.35	ug/ml	100
15) bis(2-Chloroisopropyl)ethe	8.67	45	1592668	95.82	ug/ml	98
16) 4-Methylphenol	8.80	107	1244172	97.62	ug/ml	99
17) n-Nitrosodipropylamine	8.82	70	703299	98.62	ug/ml	99
18) Hexachloroethane	8.95	117	475272	100.27	ug/ml	99
21) Nitrobenzene	9.03	77	1148768	98.58	ug/ml	99
22) Isophorone	9.25	82	1664203	89.89	ug/ml	99
23) 2-Nitrophenol	9.35	139	633740	102.26	ug/ml	97
24) 2,4-Dimethylphenol	9.34	122	928698	96.52	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	1200060	96.51	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8469.D Vial: 7
Acq On : 22 May 2001 13:27 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:49 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:35:20 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) Benzoic Acid	9.43	122	506280	110.26 ug/ml	99
27) 2,4-Dichlorophenol	9.58	162	869288	99.69 ug/ml	99
28) 1,2,4-Trichlorobenzene	9.67	180	966201	98.64 ug/ml	99
29) Naphthalene	9.76	128	3079240	93.31 ug/ml	99
30) 4-Chloroaniline	9.80	127	1342211	100.00 ug/ml	100
31) Hexachlorobutadiene	9.85	225	551944	100.44 ug/ml	100
32) 4-Chloro-3-Methylphenol	10.26	107	795893	88.64 ug/ml	100
33) 2-Methylnaphthalene	10.46	142	1963305	92.85 ug/ml	99
35) Hexachlorocyclopentadiene	10.61	237	369898	145.81 ug/ml	100
36) 2,4,6-Trichlorophenol	10.74	196	539545	99.93 ug/ml	100
37) 2,4,5-Trichlorophenol	10.78	196	593437	98.96 ug/ml	100
39) 2-Chloronaphthalene	10.97	162	1812556	99.54 ug/ml	99
40) 2-Nitroaniline	11.08	65	588293	105.27 ug/ml	96
41) Dimethylphthalate	11.21	163	2041888	105.62 ug/ml	100
42) Acenaphthylene	11.40	152	2642711	95.76 ug/ml	99
43) 2,6-Dinitrotoluene	11.31	165	505041	110.75 ug/ml	98
44) 3-Nitroaniline	11.50	138	472286	96.05 ug/ml	99
45) Acenaphthene	11.58	154	1770149	98.76 ug/ml	99
46) 2,4-Dinitrophenol	11.60	184	296132	123.64 ug/ml#	53
47) 4-Nitrophenol	11.63	65	431940	115.37 ug/ml	99
48) Dibenzofuran	11.75	168	2483606	100.11 ug/ml	100
49) 2,4-Dinitrotoluene	11.72	165	696510	114.23 ug/ml#	91
50) Diethylphthalate	11.91	149	2011292	108.48 ug/ml	99
51) Fluorene	12.10	166	2090128	104.25 ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	1005780	106.59 ug/ml	99
53) 4-Nitroaniline	12.14	138	464275	100.22 ug/ml	96
54) 1,2-Diphenylhydrazine	12.23	77	2137566	105.88 ug/ml	98
57) 4,6-Dinitro-2-Methylphenol	12.15	198	447186	108.86 ug/ml	96
58) n-Nitrosodiphenylamine	12.19	169	1531961	100.71 ug/ml	99
59) 4-Bromophenyl Phenyl Ether	12.57	248	655858	104.19 ug/ml	98
60) Hexachlorobenzene	12.69	284	771270	106.43 ug/ml	98
61) Pentachlorophenol	12.88	266	383883	105.94 ug/ml	98
62) Phenanthrene	13.11	178	3091367	95.14 ug/ml	99
63) Anthracene	13.16	178	3164748	96.94 ug/ml	99
64) Carbazole	13.31	167	2131519	78.78 ug/ml	98
65) Di-n-Butyl Phthalate	13.56	149	3502219	95.08 ug/ml	99
66) Fluoranthene	14.34	202	3436580	93.74 ug/ml	99
68) Benzidine	14.43	184	809281	121.50 ug/ml	100
69) Pyrene	14.58	202	3531264	95.45 ug/ml	98
71) Butyl Benzyl Phthalate	15.11	149	1607266	95.40 ug/ml	98
72) Benzo[a]anthracene	15.85	228	3406115	95.15 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8469.D Vial: 7
Acq On : 22 May 2001 13:27 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:49 2001 Quant Results File: BNA.RES

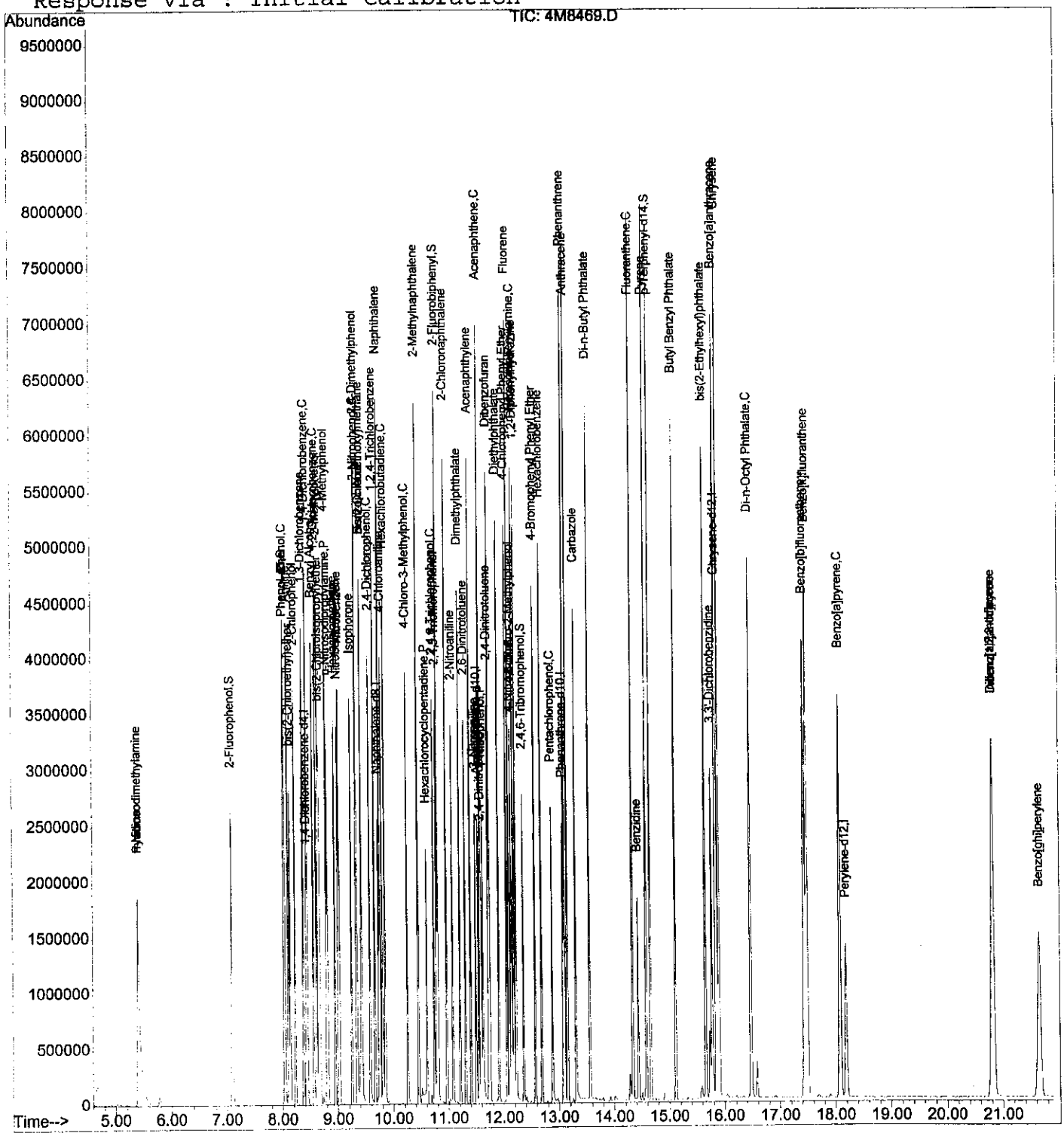
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:35:20 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	913303	89.20	ug/ml	100
74)	Chrysene	15.90	228	3331800	94.73	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.66	149	2188465	96.35	ug/ml	99
77)	Di-n-Octyl Phthalate	16.47	149	3640032	98.65	ug/ml	99
78)	Benzo[b]fluoranthene	17.45	252	3307134	99.74	ug/ml	99
79)	Benzo[k]fluoranthene	17.49	252	3259932	98.26	ug/ml	98
80)	Benzo[a]pyrene	18.09	252	2945047	97.87	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.83	276	2723382	89.23	ug/ml#	100
82)	Dibenz[ah]anthracene	20.82	278	1817698	84.81	ug/ml	100
83)	Benzo[ghi]perylene	21.66	276	2070474	85.39	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8469.D Vial: 7
Acq On : 22 May 2001 13:27 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:49 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\4M8470.D Vial: 8
Acq On : 22 May 2001 13:59 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:21 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:52:45 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	299548	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1153988	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	586778	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	1013645	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1109223	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	1007484	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	1230595	114.40	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 114.40%#			
6) Phenol-d5	8.03	99	1460214	111.98	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 111.98%#			
20) Nitrobenzene-d5	9.01	82	1340336	117.21	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 234.42%#			
38) 2-Fluorobiphenyl	10.81	172	2431118	113.16	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 226.32%#			
55) 2,4,6-Tribromophenol	12.36	330	432697	148.07	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 148.07%#			
70) p-Terphenyl-d14	14.66	244	3315082	117.99	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 235.98%#			
Target Compounds						Qvalue
2) Pyridine	5.41	79	1494217	116.90	ug/ml	100
3) n-Nitrosodimethylamine	5.40	74	814655	114.17	ug/ml	99
5) Aniline	8.11	66	765808	118.24	ug/ml	97
7) Phenol	8.05	94	1604402	114.25	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	903514	113.52	ug/ml	100
9) 2-Chlorophenol	8.23	128	1304596	115.77	ug/ml	98
10) 1,3-Dichlorobenzene	8.38	146	1407241	113.80	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	1489439	113.02	ug/ml	99
12) Benzyl Alcohol	8.56	108	868849	118.91	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	1365209	114.66	ug/ml	100
14) 2-Methylphenol	8.65	107	1030834	115.19	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	1859836	110.20	ug/ml	97
16) 4-Methylphenol	8.80	107	1468873	113.50	ug/ml	99
17) n-Nitrosodipropylamine	8.82	70	832642	114.37	ug/ml	97
18) Hexachloroethane	8.95	117	563276	116.96	ug/ml	98
21) Nitrobenzene	9.03	77	1353674	115.61	ug/ml	98
22) Isophorone	9.25	82	1970347	106.14	ug/ml	99
23) 2-Nitrophenol	9.35	139	752661	121.35	ug/ml	96
24) 2,4-Dimethylphenol	9.34	122	1100624	114.06	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	1405066	112.72	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8470.D
Acq On : 22 May 2001 13:59
Sample : 120PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 14:21 2001

Vial: 8
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:52:45 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.44	122	641869	139.56	ug/ml	99
27)	2,4-Dichlorophenol	9.58	162	1041113	119.43	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.67	180	1149431	117.26	ug/ml	100
29)	Naphthalene	9.76	128	3601508	109.03	ug/ml	98
30)	4-Chloroaniline	9.80	127	1609162	118.57	ug/ml	99
31)	Hexachlorobutadiene	9.86	225	663034	120.40	ug/ml	100
32)	4-Chloro-3-Methylphenol	10.26	107	944151	106.39	ug/ml	99
33)	2-Methylnaphthalene	10.45	142	2298682	108.78	ug/ml	99
35)	Hexachlorocyclopentadiene	10.61	237	472230	187.43	ug/ml	99
36)	2,4,6-Trichlorophenol	10.74	196	655037	118.36	ug/ml	100
37)	2,4,5-Trichlorophenol	10.79	196	730820	119.73	ug/ml	100
39)	2-Chloronaphthalene	10.97	162	2116996	112.48	ug/ml	99
40)	2-Nitroaniline	11.08	65	702338	121.02	ug/ml	94
41)	Dimethylphthalate	11.21	163	2459548	123.18	ug/ml	99
42)	Acenaphthylene	11.41	152	3138036	110.78	ug/ml	99
43)	2,6-Dinitrotoluene	11.31	165	612672	130.50	ug/ml	97
44)	3-Nitroaniline	11.50	138	560355	111.05	ug/ml	98
45)	Acenaphthene	11.58	154	2122523	114.70	ug/ml	98
46)	2,4-Dinitrophenol	11.60	184	377801	150.13	ug/ml#	1
47)	4-Nitrophenol	11.63	65	523523	131.88	ug/ml	99
48)	Dibenzofuran	11.75	168	2983534	117.13	ug/ml	100
49)	2,4-Dinitrotoluene	11.73	165	846232	134.24	ug/ml#	91
50)	Diethylphthalate	11.91	149	2407586	125.24	ug/ml	99
51)	Fluorene	12.11	166	2470911	119.44	ug/ml	99
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	1229889	126.50	ug/ml	98
53)	4-Nitroaniline	12.14	138	577812	122.84	ug/ml	96
54)	1,2-Diphenylhydrazine	12.23	77	2529638	121.10	ug/ml	96
57)	4,6-Dinitro-2-Methylphenol	12.15	198	548476	131.18	ug/ml	96
58)	n-Nitrosodiphenylamine	12.19	169	1838576	118.02	ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.57	248	799806	124.87	ug/ml	98
60)	Hexachlorobenzene	12.69	284	953095	129.28	ug/ml	97
61)	Pentachlorophenol	12.88	266	487737	135.91	ug/ml	98
62)	Phenanthrene	13.10	178	3612089	109.07	ug/ml	99
63)	Anthracene	13.16	178	3673180	110.18	ug/ml	98
64)	Carbazole	13.31	167	2557749	96.50	ug/ml	98
65)	Di-n-Butyl Phthalate	13.56	149	4061246	108.34	ug/ml	99
66)	Fluoranthene	14.34	202	3985195	106.74	ug/ml	98
68)	Benzidine	14.43	184	1007791	131.07	ug/ml	100
69)	Pyrene	14.58	202	4081147	111.01	ug/ml	98
71)	Butyl Benzyl Phthalate	15.11	149	1878646	112.61	ug/ml	98
72)	Benzo[a]anthracene	15.85	228	4026136	113.70	ug/ml	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8470.D
Acq On : 22 May 2001 13:59
Sample : 120PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 14:21 2001

Vial: 8
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

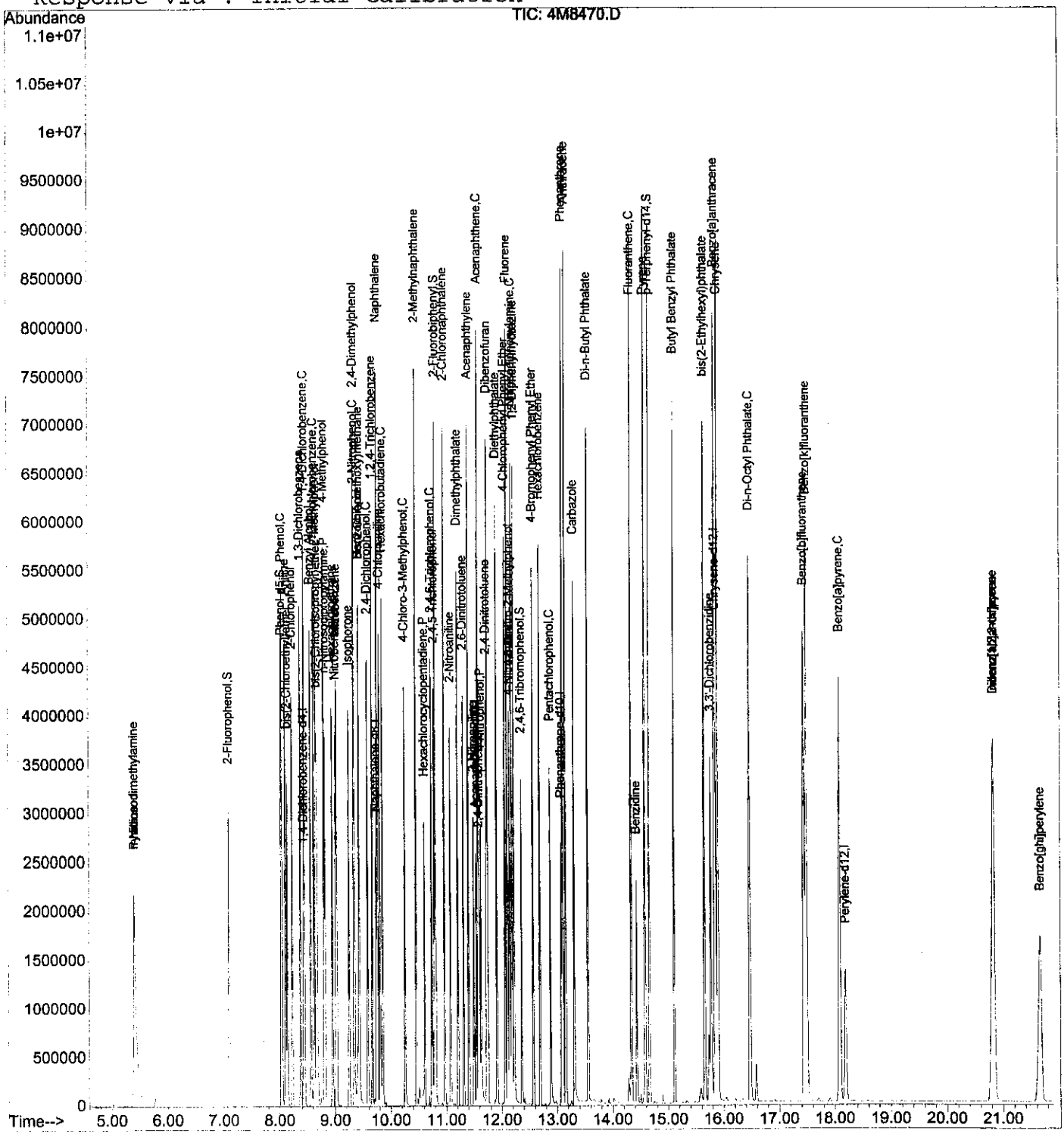
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 13:52:45 2001
Response via : Initial Calibration
DataAcq Meth : BNA

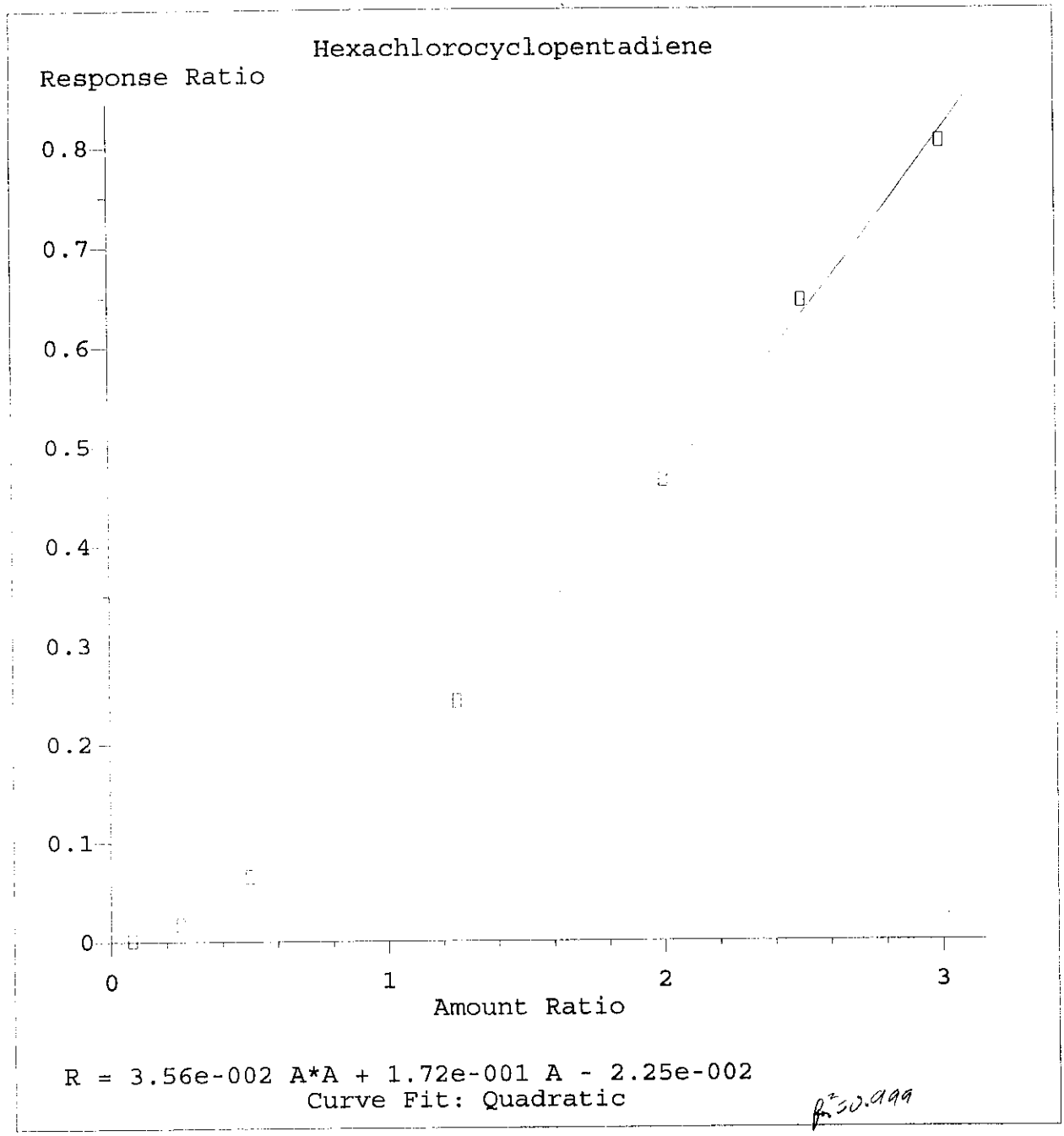
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.78	252	1111901	109.48	ug/ml	100
74)	Chrysene	15.90	228	3884881	111.50	ug/ml	98
75)	bis(2-Ethylhexyl)phthalate	15.66	149	2565182	113.91	ug/ml	99
77)	Di-n-Octyl Phthalate	16.48	149	4338280	119.21	ug/ml	98
78)	Benzo[b]fluoranthene	17.45	252	3867523	119.21	ug/ml	99
79)	Benzo[k]fluoranthene	17.50	252	3963258	122.17	ug/ml	98
80)	Benzo[a]pyrene	18.09	252	3489725	118.45	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.83	276	3205948	109.02	ug/ml#	99
82)	Dibenz[ah]anthracene	20.83	278	2137252	107.42	ug/ml	99
83)	Benzo[ghi]perylene	21.66	276	2419215	102.62	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8470.D Vial: 8
Acq On : 22 May 2001 13:59 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:21 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001

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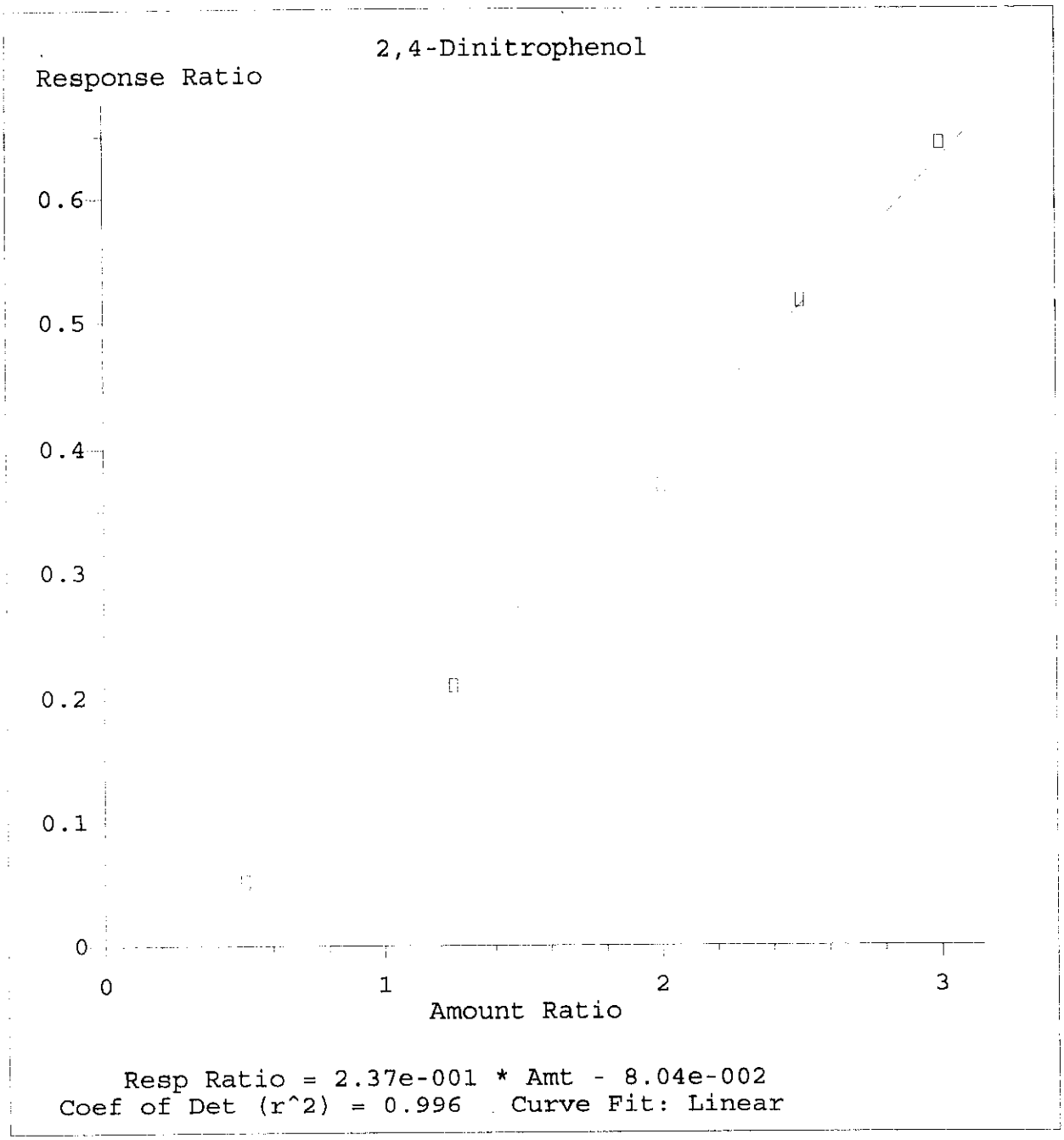
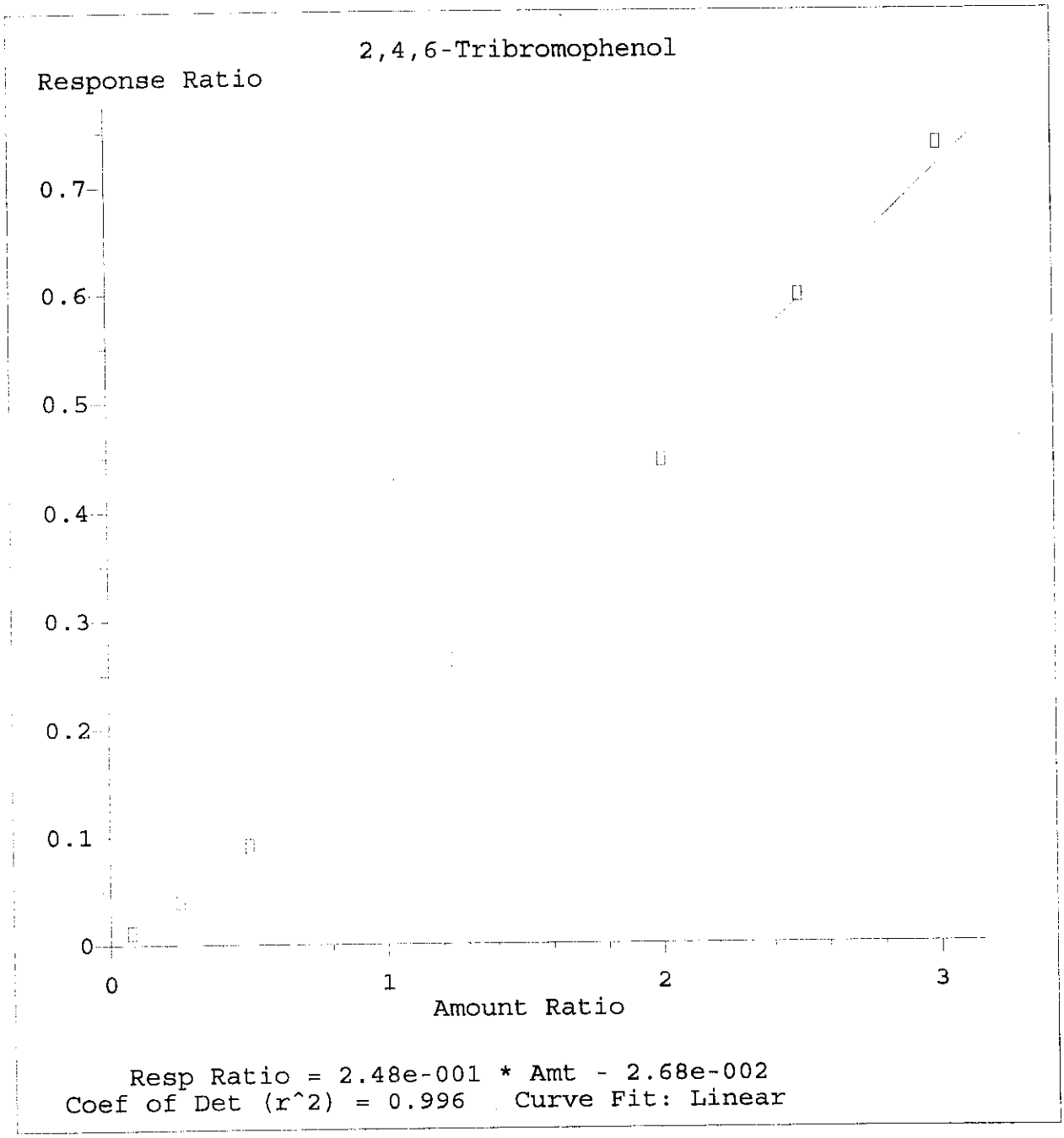
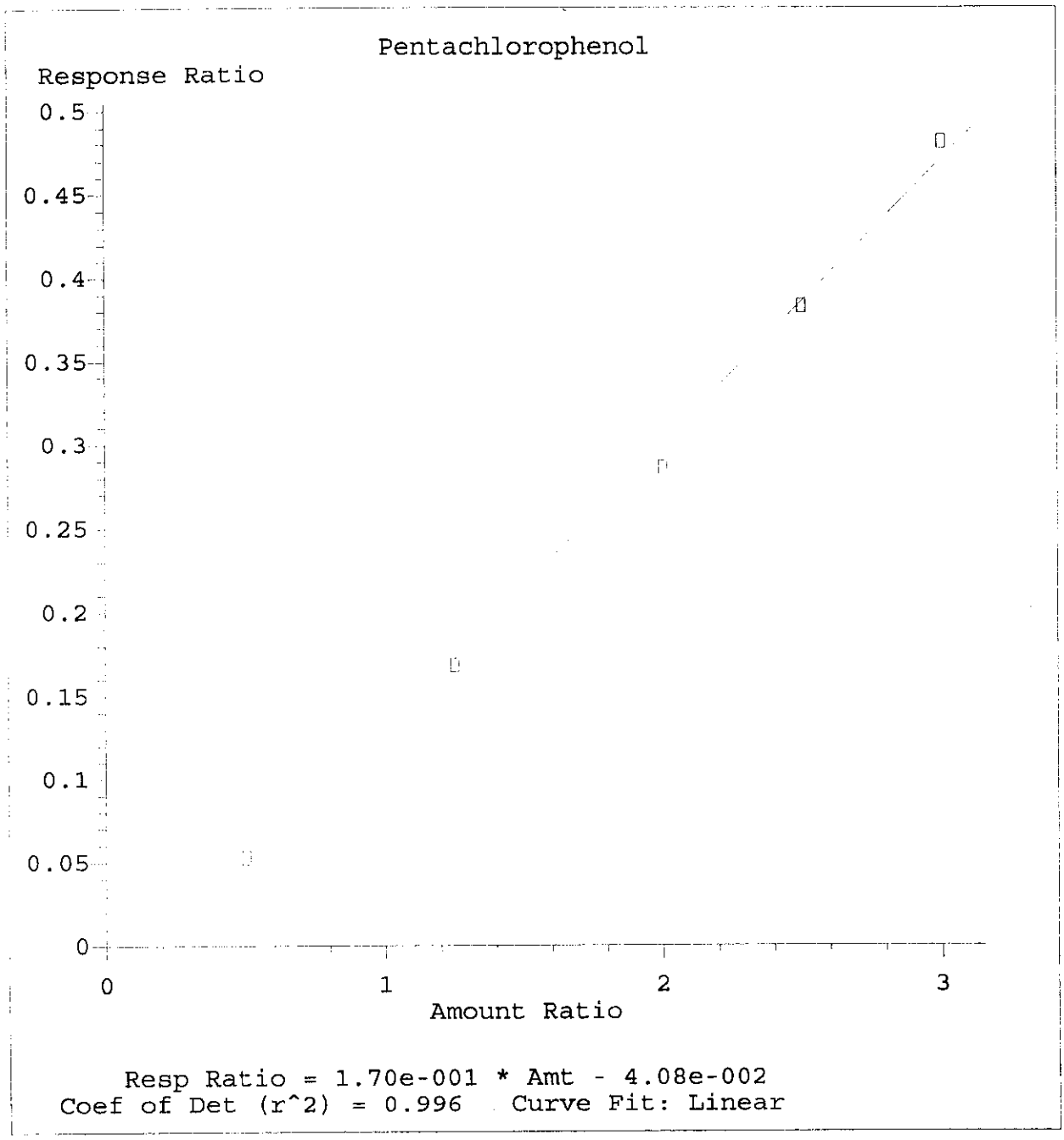


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001



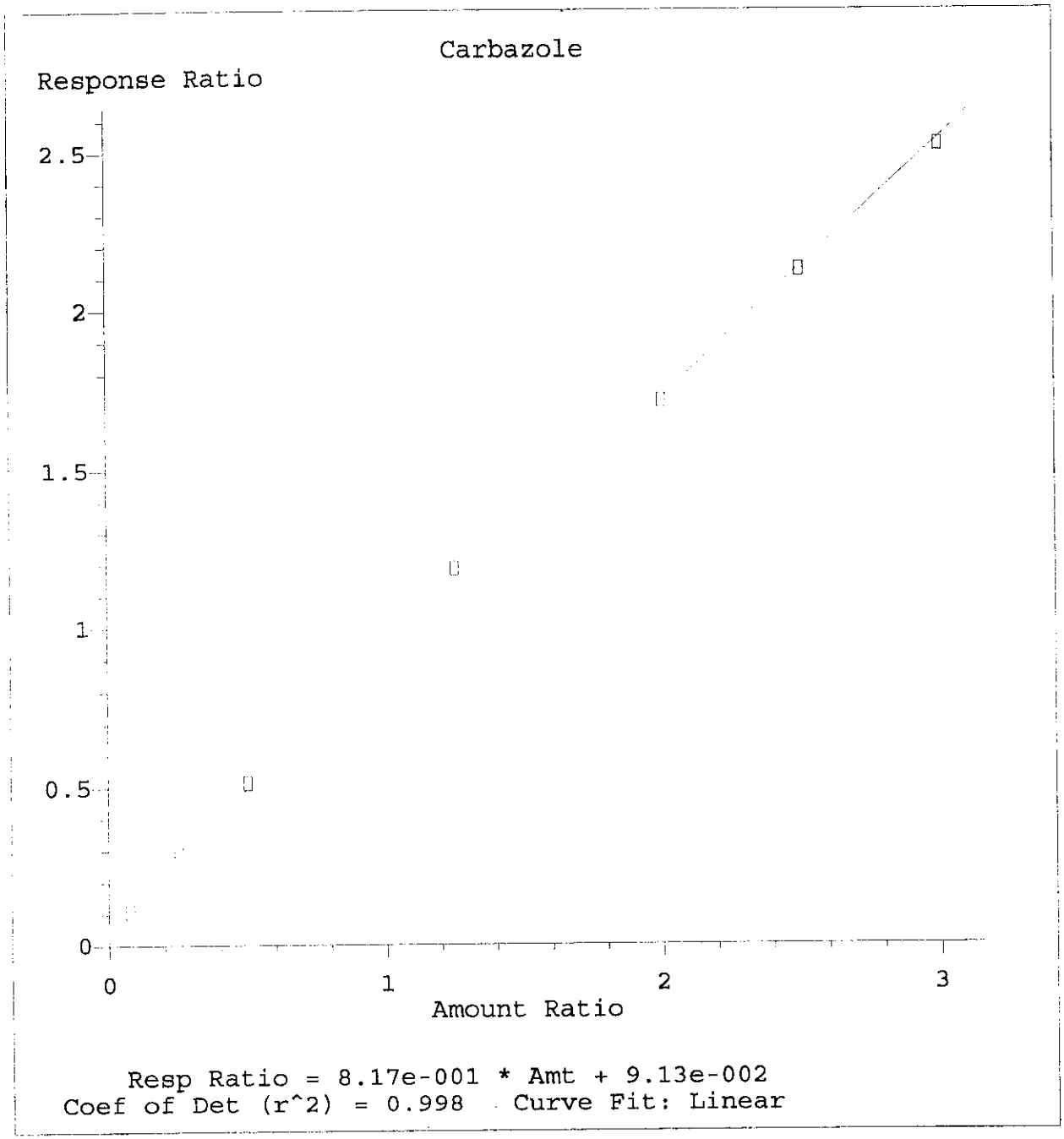
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001

642



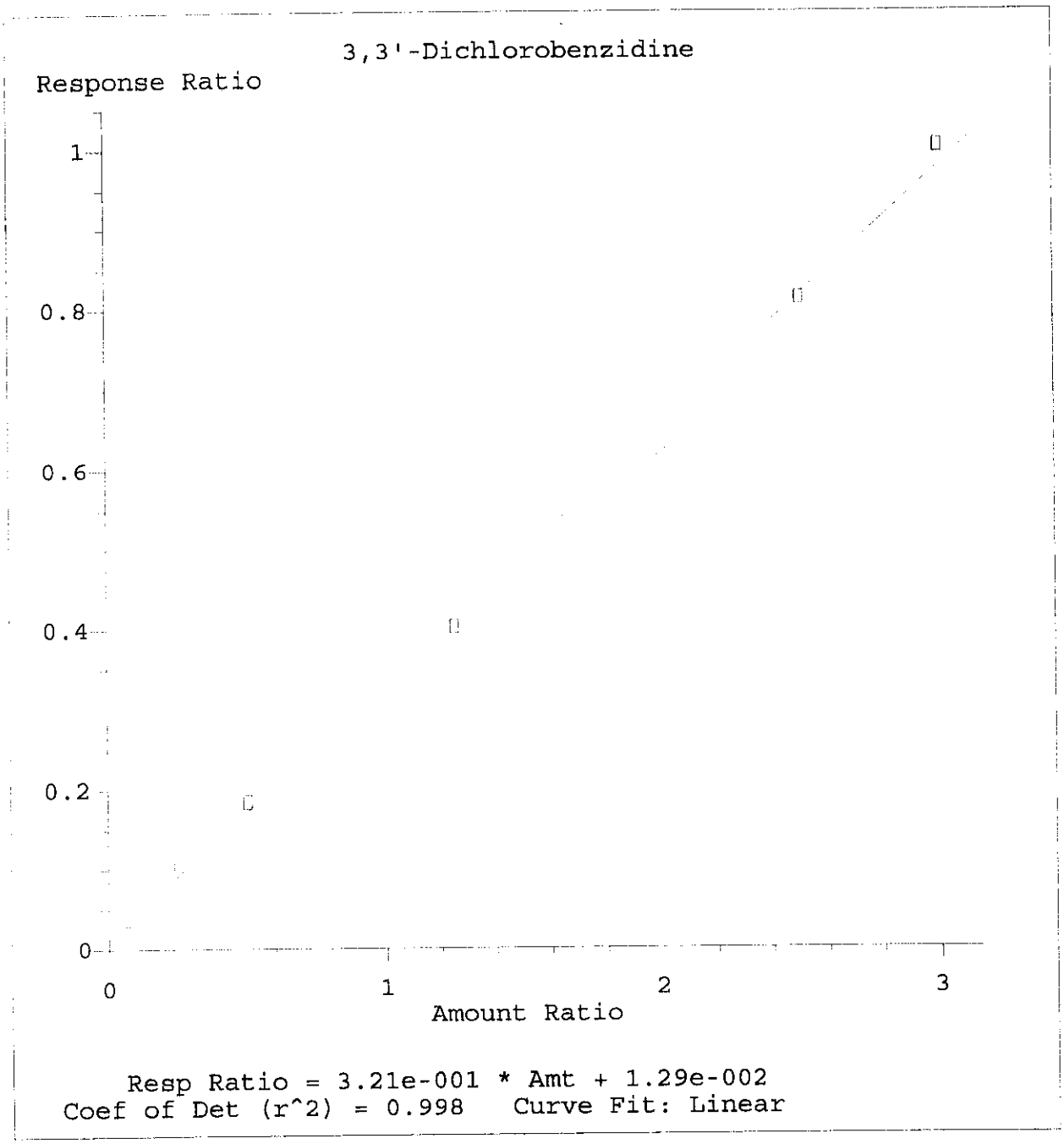
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001

643



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001

644



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 14:27:49 2001

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	87	0.00
2		Pyridine	50.000	58.873	-17.7	101	0.00
3		n-Nitrosodimethylamine	50.000	55.852	-11.7	97	0.00
4	S	2-Fluorophenol	50.000	56.097	-12.2	98	0.00
5		Aniline	50.000	53.674	-7.3	94	0.00
6	S	Phenol-d5	50.000	56.387	-12.8	98	0.00
7	C	Phenol	50.000	55.179	-10.4	95	0.00
8		bis(2-Chloroethyl)ether	50.000	57.144	-14.3	100	0.00
9		2-Chlorophenol	50.000	54.541	-9.1	95	0.00
10		1,3-Dichlorobenzene	50.000	54.022	-8.0	95	0.00
11	C	1,4-Dichlorobenzene	50.000	54.097	-8.2	95	0.00
12		Benzyl Alcohol	50.000	55.042	-10.1	94	0.00
13	C	1,2-Dichlorobenzene	50.000	55.192	-10.4	96	0.00
14		2-Methylphenol	50.000	56.685	-13.4	99	0.00
15		bis(2-Chloroisopropyl)ether	50.000	50.757	-1.5	88	0.00
16		4-Methylphenol	50.000	55.372	-10.7	95	0.00
17	P	n-Nitrosodipropylamine	50.000	59.554	-19.1	102	0.00
18		Hexachloroethane	50.000	51.717	-3.4	91	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	87	0.00
20	S	Nitrobenzene-d5	50.000	57.178	-14.4	98	0.00
21		Nitrobenzene	50.000	55.548	-11.1	96	0.00
22		Isophorone	50.000	63.017	-26.0	107	0.00
23	C	2-Nitrophenol	50.000	57.127	-14.3	96	0.00
24		2,4-Dimethylphenol	50.000	58.473	-16.9	100	0.00
25		bis(2-Chloroethoxy)methane	50.000	57.300	-14.6	99	0.00
26		Benzoic Acid	50.000	57.029	-14.1	94	0.00
27	C	2,4-Dichlorophenol	50.000	56.283	-12.6	95	0.00
28		1,2,4-Trichlorobenzene	50.000	53.470	-6.9	93	0.00
29		Naphthalene	50.000	54.780	-9.6	94	0.00
30		4-Chloroaniline	50.000	54.191	-8.4	93	0.00
31	C	Hexachlorobutadiene	50.000	59.339	-18.7	104	0.00
32	C	4-Chloro-3-Methylphenol	50.000	55.918	-11.8	95	0.00
33		2-Methylnaphthalene	50.000	54.903	-9.8	96	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	87	0.00
35	P	Hexachlorocyclopentadiene	50.000	63.796	-27.6	123	0.00
36	C	2,4,6-Trichlorophenol	50.000	57.236	-14.5	95	0.00
37		2,4,5-Trichlorophenol	50.000	56.285	-12.6	95	0.00
38	S	2-Fluorobiphenyl	50.000	60.928	-21.9	103	0.00
39		2-Chloronaphthalene	50.000	55.876	-11.8	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	56.130	-12.3	97	0.00
41		Dimethylphthalate	50.000	54.752	-9.5	93	0.00
42		Acenaphthylene	50.000	58.972	-17.9	102	0.00
43		2,6-Dinitrotoluene	50.000	56.667	-13.3	95	0.00
44		3-Nitroaniline	50.000	55.529	-11.1	93	0.00
45	C	Acenaphthene	50.000	56.359	-12.7	98	0.00
46	P	2,4-Dinitrophenol	50.000	51.646	-3.3	94	0.00
47	P	4-Nitrophenol	50.000	55.008	-10.0	95	0.00
48		Dibenzofuran	50.000	54.459	-8.9	97	0.00
49		2,4-Dinitrotoluene	50.000	59.866	-19.7	98	0.00
50		Diethylphthalate	50.000	58.363	-16.7	98	0.00
51		Fluorene	50.000	55.125	-10.3	95	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	54.784	-9.6	95	0.00
53		4-Nitroaniline	50.000	55.054	-10.1	95	0.00
54		1,2-Diphenylhydrazine	50.000	56.603	-13.2	95	0.00
55	S	2,4,6-Tribromophenol	50.000	50.877	-1.8	96	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	87	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	57.957	-15.9	101	0.00
58	C	n-Nitrosodiphenylamine	50.000	55.952	-11.9	96	0.00
59		4-Bromophenyl Phenyl Ether	50.000	48.780	2.4	85	0.00
60		Hexachlorobenzene	50.000	54.889	-9.8	95	0.00
61	C	Pentachlorophenol	50.000	52.769	-5.5	94	0.00
62		Phenanthrene	50.000	54.388	-8.8	94	0.00
63		Anthracene	50.000	56.177	-12.4	96	0.00
64		Carbazole	50.000	54.576	-9.2	88	0.00
65		Di-n-Butyl Phthalate	50.000	55.433	-10.9	95	0.00
66	C	Fluoranthene	50.000	54.340	-8.7	93	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	87	0.00
68		Benzidine	50.000	51.414	-2.8	109	0.00
69		Pyrene	50.000	54.041	-8.1	93	0.00
70	S	p-Terphenyl-d14	50.000	56.495	-13.0	98	0.00
71		Butyl Benzyl Phthalate	50.000	55.558	-11.1	97	0.00
72		Benzo[a]anthracene	50.000	53.329	-6.7	94	0.00
73		3,3'-Dichlorobenzidine	50.000	49.268	1.5	88	0.00
74		Chrysene	50.000	48.441	3.1	86	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	54.351	-8.7	95	0.00
76	I	Perylene-d12	40.000	40.000	0.0	87	0.00
77	C	Di-n-Octyl Phthalate	50.000	54.857	-9.7	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	54.028	-8.1	91	0.00
79		Benzo[k]fluoranthene	50.000	54.858	-9.7	97	0.00
80	C	Benzo[a]pyrene	50.000	53.350	-6.7	92	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	57.817	-15.6	99	0.00
82		Dibenz[ah]anthracene	50.000	76.990	-54.0#	130	0.00
83		Benzo[ghi]perylene	50.000	53.822	-7.6	92	-0.01

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
2		Pyridine	1.712	2.016	-17.8	101	0.00
3		n-Nitrosodimethylamine	0.956	1.068	-11.7	97	0.00
4	S	2-Fluorophenol	1.439	1.614	-12.2	98	0.00
5		Aniline	0.909	0.976	-7.4	94	0.00
6	S	Phenol-d5	1.756	1.981	-12.8	98	0.00
7	C	Phenol	1.888	2.084	-10.4	95	0.00
8		bis(2-Chloroethyl)ether	1.074	1.228	-14.3	100	0.00
9		2-Chlorophenol	1.511	1.648	-9.1	95	0.00
10		1,3-Dichlorobenzene	1.666	1.800	-8.0	95	0.00
11	C	1,4-Dichlorobenzene	1.777	1.923	-8.2	95	0.00
12		Benzyl Alcohol	0.986	1.086	-10.1	94	0.00
13	C	1,2-Dichlorobenzene	1.605	1.771	-10.3	96	0.00
14		2-Methylphenol	1.206	1.367	-13.3	99	0.00
15		bis(2-Chloroisopropyl)ether	2.276	2.310	-1.5	88	0.00
16		4-Methylphenol	1.746	1.933	-10.7	95	0.00
17	P	n-Nitrosodipropylamine	0.987	1.175	-19.0	102	0.00
18		Hexachloroethane	0.650	0.672	-3.4	91	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00
20	S	Nitrobenzene-d5	0.401	0.459	-14.5	98	0.00
21		Nitrobenzene	0.412	0.457	-10.9	96	0.00
22		Isophorone	0.652	0.822	-26.1	107	0.00
23	C	2-Nitrophenol	0.217	0.248	-14.3	96	0.00
24		2,4-Dimethylphenol	0.339	0.397	-17.1	100	0.00
25		bis(2-Chloroethoxy)methane	0.437	0.501	-14.6	99	0.00
26		Benzoic Acid	0.161	0.183	-13.7	94	0.00
27	C	2,4-Dichlorophenol	0.305	0.344	-12.8	95	0.00
28		1,2,4-Trichlorobenzene	0.344	0.367	-6.7	93	0.00
29		Naphthalene	1.159	1.270	-9.6	94	0.00
30		4-Chloroaniline	0.481	0.521	-8.3	93	0.00
31	C	Hexachlorobutadiene	0.193	0.230	-19.2	104	0.00
32	C	4-Chloro-3-Methylphenol	0.307	0.344	-12.1	95	0.00
33		2-Methylnaphthalene	0.740	0.813	-9.9	96	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
35	P	Hexachlorocyclopentadiene	0.168	0.274	-63.1#	123	0.00
36	C	2,4,6-Trichlorophenol	0.379	0.434	-14.5	95	0.00
37		2,4,5-Trichlorophenol	0.415	0.467	-12.5	95	0.00
38	S	2-Fluorobiphenyl	1.482	1.806	-21.9	103	0.00
39		2-Chloronaphthalene	1.299	1.452	-11.8	95	0.00

(#)=Out of Range
4M8471.D BNA.M Wed May 23 08:28:27 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.402	0.452	-12.4	97	0.00
41		Dimethylphthalate	1.380	1.511	-9.5	93	0.00
42		Acenaphthylene	1.945	2.294	-17.9	102	0.00
43		2,6-Dinitrotoluene	0.323	0.366	-13.3	95	0.00
44		3-Nitroaniline	0.342	0.380	-11.1	93	0.00
45	C	Acenaphthene	1.275	1.437	-12.7	98	0.00
46	P	2,4-Dinitrophenol	0.175	0.181	-3.4	94	0.00
47	P	4-Nitrophenol	0.281	0.309	-10.0	95	0.00
48		Dibenzofuran	1.749	1.905	-8.9	97	0.00
49		2,4-Dinitrotoluene	0.436	0.522	-19.7	98	0.00
50		Diethylphthalate	1.331	1.554	-16.8	98	0.00
51		Fluorene	1.426	1.572	-10.2	95	0.00
52		4-Chlorophenyl Phenyl Ether	0.671	0.735	-9.5	95	0.00
53		4-Nitroaniline	0.318	0.350	-10.1	95	0.00
54		1,2-Diphenylhydrazine	1.445	1.635	-13.1	95	0.00
55	S	2,4,6-Tribromophenol	0.202	0.231	-14.4	96	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
57		4,6-Dinitro-2-Methylphenol	0.166	0.193	-16.3	101	0.00
58	C	n-Nitrosodiphenylamine	0.626	0.700	-11.8	96	0.00
59		4-Bromophenyl Phenyl Ether	0.256	0.250	2.3	85	0.00
60		Hexachlorobenzene	0.294	0.323	-9.9	95	0.00
61	C	Pentachlorophenol	0.139	0.147	-5.8	94	0.00
62		Phenanthrene	1.322	1.438	-8.8	94	0.00
63		Anthracene	1.331	1.495	-12.3	96	0.00
64		Carbazole	1.015	0.965	4.9	88	0.00
65		Di-n-Butyl Phthalate	1.493	1.656	-10.9	95	0.00
66	C	Fluoranthene	1.488	1.617	-8.7	93	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	87	0.00
68		Benzidine	0.281	0.289	-2.8	109	0.00
69		Pyrene	1.341	1.450	-8.1	93	0.00
70	S	p-Terphenyl-d14	1.025	1.158	-13.0	98	0.00
71		Butyl Benzyl Phthalate	0.606	0.674	-11.2	97	0.00
72		Benzo[a]anthracene	1.288	1.373	-6.6	94	0.00
73		3,3'-Dichlorobenzidine	0.368	0.327	11.1	88	0.00
74		Chrysene	1.266	1.227	3.1	86	0.00
75		bis(2-Ethylhexyl)phthalate	0.820	0.892	-8.8	95	0.00
76	I	Perylene-d12	1.000	1.000	0.0	87	0.00
77	C	Di-n-Octyl Phthalate	1.449	1.590	-9.7	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.281	1.385	-8.1	91	0.00
79		Benzo[k]fluoranthene	1.277	1.401	-9.7	97	0.00
80	C	Benzo[a]pyrene	1.161	1.238	-6.6	92	0.00
81		Indeno[1,2,3-cd]pyrene	1.145	1.324	-15.6	99	0.00
82		Dibenz[ah]anthracene	0.746	1.149	-54.0#	130	0.00
83		Benzo[ghi]perylene	0.924	0.994	-7.6	92	-0.01

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:53 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	262420	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1010923	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	520738	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	863584	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	991828	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	930435	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	529550	56.10	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 56.10%			
6) Phenol-d5	8.03	99	649668	56.39	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 56.39%			
20) Nitrobenzene-d5	9.01	82	579817	57.18	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 114.36%#			
38) 2-Fluorobiphenyl	10.81	172	1175456	60.93	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 121.86%#			
55) 2,4,6-Tribromophenol	12.36	330	150250	50.88	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 50.88%			
70) p-Terphenyl-d14	14.66	244	1435456	56.49	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 112.98%			
Target Compounds						Qvalue
2) Pyridine	5.41	79	661187	58.87	ug/ml	100
3) n-Nitrosodimethylamine	5.40	74	350204	55.85	ug/ml	100
5) Aniline	8.11	66	320146	53.67	ug/ml	99
7) Phenol	8.04	94	683601	55.18	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	402773	57.14	ug/ml	100
9) 2-Chlorophenol	8.23	128	540606	54.54	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	590481	54.02	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	630668	54.10	ug/ml	99
12) Benzyl Alcohol	8.56	108	356136	55.04	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	581047	55.19	ug/ml	99
14) 2-Methylphenol	8.65	107	448554	56.68	ug/ml	94
15) bis(2-Chloroisopropyl)ethe	8.67	45	757824	50.76	ug/ml#	72
16) 4-Methylphenol	8.79	107	634163	55.37	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	385551	59.55	ug/ml	99
18) Hexachloroethane	8.95	117	220524	51.72	ug/ml	99
21) Nitrobenzene	9.03	77	578052	55.55	ug/ml	100
22) Isophorone	9.24	82	1038094	63.02	ug/ml	100
23) 2-Nitrophenol	9.35	139	313944	57.13	ug/ml	99
24) 2,4-Dimethylphenol	9.33	122	501652	58.47	ug/ml	100
25) bis(2-Chloroethoxy)methane	9.43	93	633335	57.30	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8471.D BNA.M Wed May 23 08:28:37 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:53 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) Benzoic Acid	9.41	122	231808	57.03 ug/ml	100
27) 2,4-Dichlorophenol	9.58	162	434506	56.28 ug/ml	100
28) 1,2,4-Trichlorobenzene	9.67	180	464331	53.47 ug/ml	99
29) Naphthalene	9.76	128	1605076	54.78 ug/ml	100
30) 4-Chloroaniline	9.80	127	658150	54.19 ug/ml	99
31) Hexachlorobutadiene	9.86	225	290162	59.34 ug/ml	99
32) 4-Chloro-3-Methylphenol	10.25	107	434083	55.92 ug/ml	100
33) 2-Methylnaphthalene	10.45	142	1027486	54.90 ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	178454	63.80 ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	282313	57.24 ug/ml	99
37) 2,4,5-Trichlorophenol	10.79	196	304095	56.29 ug/ml	100
39) 2-Chloronaphthalene	10.97	162	945163	55.88 ug/ml	100
40) 2-Nitroaniline	11.07	65	294114	56.13 ug/ml	100
41) Dimethylphthalate	11.21	163	983390	54.75 ug/ml	100
42) Acenaphthylene	11.41	152	1493219	58.97 ug/ml	100
43) 2,6-Dinitrotoluene	11.31	165	238451	56.67 ug/ml	99
44) 3-Nitroaniline	11.50	138	247327	55.53 ug/ml	99
45) Acenaphthene	11.58	154	935610	56.36 ug/ml	100
46) 2,4-Dinitrophenol	11.60	184	117598	51.65 ug/ml	92
47) 4-Nitrophenol	11.62	65	201064	55.01 ug/ml	100
48) Dibenzofuran	11.75	168	1239929	54.46 ug/ml	100
49) 2,4-Dinitrotoluene	11.72	165	339628	59.87 ug/ml	98
50) Diethylphthalate	11.91	149	1011532	58.36 ug/ml	100
51) Fluorene	12.10	166	1023067	55.12 ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	478624	54.78 ug/ml	99
53) 4-Nitroaniline	12.14	138	227729	55.05 ug/ml	99
54) 1,2-Diphenylhydrazine	12.22	77	1064567	56.60 ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.14	198	208012	57.96 ug/ml	99
58) n-Nitrosodiphenylamine	12.19	169	756035	55.95 ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.57	248	269488	48.78 ug/ml	100
60) Hexachlorobenzene	12.69	284	348857	54.89 ug/ml	99
61) Pentachlorophenol	12.88	266	158732	52.77 ug/ml	98
62) Phenanthrene	13.10	178	1552789	54.39 ug/ml	100
63) Anthracene	13.15	178	1613971	56.18 ug/ml	100
64) Carbazole	13.31	167	1041588	54.58 ug/ml	100
65) Di-n-Butyl Phthalate	13.55	149	1787152	55.43 ug/ml	100
66) Fluoranthene	14.33	202	1745576	54.34 ug/ml	100
68) Benzidine	14.43	184	357828	51.41 ug/ml	100
69) Pyrene	14.58	202	1797230	54.04 ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	835479	55.56 ug/ml	100
72) Benzo[a]anthracene	15.84	228	1702620	53.33 ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8471.D BNA.M Wed May 23 08:28:37 2001 HPMS4 Page 2

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:53 2001 Quant Results File: BNA.RES

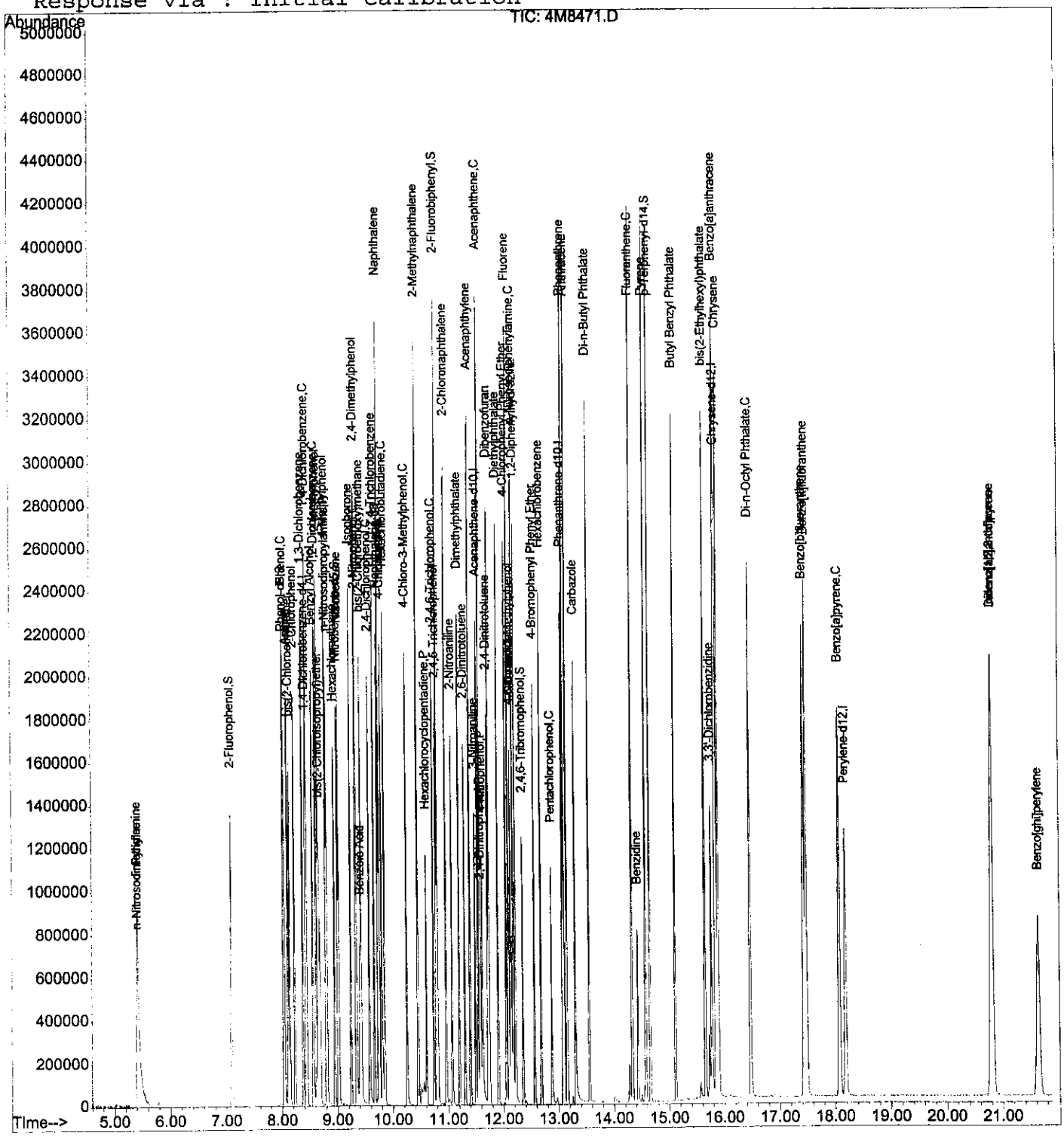
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	405295	49.27	ug/ml	100
74)	Chrysene	15.90	228	1521146	48.44	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.66	149	1105401	54.35	ug/ml	100
77)	Di-n-Octyl Phthalate	16.47	149	1848891	54.86	ug/ml	100
78)	Benzo[b]fluoranthene	17.44	252	1610410	54.03	ug/ml	99
79)	Benzo[k]fluoranthene	17.48	252	1629218	54.86	ug/ml	99
80)	Benzo[a]pyrene	18.08	252	1440249	53.35	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.81	276	1540375	57.82	ug/ml#	97
82)	Dibenz[ah]anthracene	20.81	278	1335901	76.99	ug/ml	99
83)	Benzo[ghi]perylene	21.64	276	1156498	53.82	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8471.D Vial: 9
Acq On : 22 May 2001 14:31 Operator: mdc
Sample : 50PPM alt source BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 14:53 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration



Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.05/24/01
Last Calibration: Thu May 24 12:29:36 2001
HPMS4
Calibration Files

	Compound	3 4M8523.D	10 4M8524.D	20 4M8525.D	50 4M8522.D	80 4M8526.D	100 4M8527.D	120 4M8528.D	Avg	%RSD	R^2 value
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	1.461	1.710	1.790	1.842	1.664	1.687	1.678	1.690	7.1	
	n-Nitrosodimethylamine	1.031	0.983	1.013	1.003	0.909	0.923	0.922	0.969	5.2	
S	2-Fluorophenol	1.531	1.457	1.505	1.510	1.364	1.382	1.386	1.448	4.8	
	Aniline	1.001	0.946	0.976	0.948	0.872	0.869	0.865	0.925	6.1	
S	Phenol-d5	1.822	1.807	1.851	1.840	1.661	1.648	1.645	1.753	5.5	
C	Phenol	1.971	1.921	1.985	1.984	1.799	1.803	1.802	1.895	4.7	
	bis(2-Chloroethyl)ether	1.189	1.120	1.159	1.138	1.031	1.038	1.022	1.100	6.2	
	2-Chlorophenol	1.595	1.515	1.575	1.572	1.453	1.473	1.467	1.522	3.9	
	1,3-Dichlorobenzene	1.812	1.700	1.740	1.722	1.577	1.591	1.588	1.676	5.4	
C	1,4-Dichlorobenzene	1.968	1.822	1.865	1.843	1.681	1.699	1.690	1.795	6.1	
	Benzyl Alcohol	0.942	0.965	1.020	1.039	0.964	0.980	0.975	0.983	3.5	
	1,2-Dichlorobenzene	1.755	1.636	1.687	1.667	1.529	1.546	1.542	1.623	5.3	
	2-Methylphenol	1.270	1.181	1.238	1.242	1.153	1.169	1.159	1.202	3.9	
	bis(2-Chloroisopropyl)ether	2.607	2.434	2.472	2.451	2.191	2.174	2.140	2.353	7.7	
	4-Methylphenol	1.856	1.721	1.839	1.809	1.655	1.664	1.648	1.742	5.2	
P	n-Nitrosodipropylamine	1.065	0.995	1.059	1.052	0.950	0.953	0.939	1.002	5.6	
	Hexachloroethane	0.706	0.670	0.695	0.702	0.635	0.641	0.643	0.670	4.6	
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.418	0.397	0.424	0.423	0.386	0.396	0.389	0.405	4.0	
	Nitrobenzene	0.457	0.408	0.438	0.436	0.398	0.406	0.394	0.420	5.7	
	Isophorone	0.784	0.703	0.742	0.706	0.604	0.594	0.574	0.672	12.1	
C	2-Nitrophenol	0.210	0.206	0.223	0.229	0.215	0.221	0.219	0.218	3.5	
	2,4-Dimethylphenol	0.365	0.327	0.353	0.353	0.318	0.327	0.315	0.337	5.8	
	bis(2-Chloroethoxy)methane	0.492	0.436	0.466	0.457	0.416	0.421	0.411	0.443	6.7	
	Benzoic Acid			0.123	0.163	0.148	0.167	0.174	0.155	13.1	
C	2,4-Dichlorophenol	0.316	0.299	0.325	0.321	0.295	0.303	0.296	0.308	4.0	
	1,2,4-Trichlorobenzene	0.364	0.329	0.350	0.352	0.329	0.339	0.335	0.343	3.9	
	Naphthalene	1.339	1.180	1.238	1.198	1.077	1.089	1.045	1.166	8.9	
	4-Chloroaniline	0.510	0.463	0.503	0.503	0.462	0.474	0.467	0.483	4.4	
C	Hexachlorobutadiene	0.216	0.187	0.199	0.200	0.189	0.196	0.194	0.197	4.8	
C	4-Chloro-3-Methylphenol	0.338	0.318	0.340	0.328	0.283	0.282	0.274	0.309	9.2	
	2-Methylnaphthalene	0.867	0.755	0.796	0.762	0.682	0.690	0.661	0.745	9.8	
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.018	0.064	0.120	0.187	0.219	0.253	0.262	0.160	59.2	0.999QR
C	2,4,6-Trichlorophenol	0.337	0.350	0.372	0.399	0.366	0.376	0.370	0.367	5.4	
	2,4,5-Trichlorophenol	0.402	0.390	0.426	0.439	0.398	0.413	0.415	0.412	4.1	
S	2-Fluorobiphenyl	1.553	1.447	1.504	1.562	1.441	1.458	1.384	1.479	4.4	
	2-Chloronaphthalene	1.387	1.271	1.336	1.363	1.255	1.270	1.210	1.299	4.9	
	2-Nitroaniline			0.410	0.429	0.406	0.419	0.413	0.415	2.2	
	Dimethylphthalate	1.385	1.301	1.351	1.444	1.394	1.452	1.432	1.394	3.9	
	Acenaphthylene	2.077	1.991	2.069	2.029	1.832	1.855	1.799	1.950	6.1	
	2,6-Dinitrotoluene	0.273	0.288	0.312	0.344	0.337	0.357	0.360	0.324	10.5	
	3-Nitroaniline	0.317	0.342	0.378	0.370	0.328	0.331	0.323	0.341	6.9	
C	Acenaphthene	1.355	1.267	1.328	1.317	1.218	1.246	1.218	1.278	4.3	
P	2,4-Dinitrophenol		0.047	0.090	0.160	0.174	0.198	0.210	0.147	43.8	0.999QR
P	4-Nitrophenol			0.226	0.284	0.279	0.299	0.298	0.277	10.7	

Calibration Table Report
Method: BNA.M
Title: M8270/Initial cal.05/24/01
Last Calibration: Thu May 24 12:29:36 2001
HPMS4
Calibration Files

	Compound	3 4M8523.D	10 4M8524.D	20 4M8525.D	50 4M8522.D	80 4M8526.D	100 4M8527.D	120 4M8528.D	Avg	%RSD	R^2 value
	Dibenzofuran	1.850	1.733	1.789	1.785	1.695	1.755	1.731	1.763	2.9	
	2,4-Dinitrotoluene	0.334	0.380	0.435	0.477	0.470	0.498	0.494	0.441	14.1	
	Diethylphthalate	1.248	1.251	1.363	1.450	1.392	1.448	1.420	1.367	6.3	
	Fluorene	1.469	1.367	1.412	1.486	1.425	1.471	1.439	1.438	2.9	
	4-Chlorophenyl Phenyl Ether	0.666	0.618	0.642	0.696	0.682	0.714	0.712	0.676	5.3	
	4-Nitroaniline	0.322	0.333	0.326	0.344	0.301	0.319	0.323	0.324	4.0	
	1,2-Diphenylhydrazine	1.474	1.408	1.494	1.580	1.498	1.529	1.482	1.495	3.5	
S	2,4,6-Tribromophenol	0.142	0.154	0.175	0.210	0.217	0.240	0.248	0.198	21.0	0.999QR
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylphenol			0.131	0.166	0.164	0.174	0.181	0.163	11.8	
C	n-Nitrosodiphenylamine	0.644	0.602	0.652	0.654	0.604	0.616	0.606	0.626	3.8	
	4-Bromophenyl Phenyl Ether	0.253	0.236	0.253	0.261	0.252	0.265	0.268	0.255	4.2	
	Hexachlorobenzene	0.280	0.272	0.286	0.304	0.298	0.317	0.324	0.297	6.4	
C	Pentachlorophenol			0.096	0.135	0.135	0.147	0.154	0.133	16.6	0.996LR
	Phenanthrene	1.474	1.353	1.412	1.388	1.246	1.250	1.213	1.334	7.4	
	Anthracene	1.430	1.332	1.403	1.390	1.273	1.269	1.239	1.334	5.7	
	Carbazole	1.391	1.146	1.069	1.014	0.863	0.861	0.842	1.026	19.4	0.995LR
	Di-n-Butyl Phthalate	1.595	1.516	1.626	1.587	1.417	1.407	1.366	1.502	7.0	
C	Fluoranthene	1.643	1.528	1.610	1.556	1.396	1.376	1.336	1.492	8.2	
I	Chrysene-d12	ISTD									
	Benzidine		0.305	0.251	0.222	0.239	0.248	0.260	0.254	11.0	
	Pyrene	1.455	1.390	1.468	1.450	1.301	1.289	1.258	1.373	6.5	
S	p-Terphenyl-d14	1.062	1.024	1.079	1.099	1.022	1.038	1.020	1.049	3.0	
	Butyl Benzyl Phthalate	0.651	0.629	0.658	0.656	0.586	0.589	0.585	0.622	5.5	
	Benzo[a]anthracene	1.421	1.292	1.349	1.322	1.207	1.224	1.220	1.291	6.2	
	3,3'-Dichlorobenzidine	0.470	0.397	0.373	0.332	0.316	0.330	0.339	0.365	14.8	
	Chrysene	1.412	1.313	1.348	1.303	1.191	1.197	1.188	1.279	6.9	
	bis(2-Ethylhexyl)phthalate	0.869	0.838	0.881	0.881	0.792	0.793	0.789	0.835	5.1	
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.395	1.425	1.539	1.627	1.491	1.525	1.536	1.505	5.1	
	Benzo[b]fluoranthene	1.321	1.251	1.289	1.365	1.262	1.317	1.341	1.307	3.2	
	Benzo[k]fluoranthene	1.281	1.231	1.313	1.366	1.312	1.358	1.349	1.316	3.7	
C	Benzo[a]pyrene	1.153	1.106	1.171	1.218	1.136	1.175	1.186	1.164	3.1	
	Indeno[1,2,3-cd]pyrene	1.157	1.099	1.206	1.223	1.075	1.082	1.085	1.132	5.5	
	Dibenz[ah]anthracene	0.736	0.701	0.772	0.792	0.710	0.724	0.727	0.737	4.5	
	Benzo[ghi]perylene	0.993	0.927	1.006	1.002	0.835	0.831	0.829	0.917	9.2	

I=ISTD/S=SURR/C=CCC/P=SPCC
Thu May 24 12:30:15 2001

Average %RSD
7.8

Data File : C:\HPCHEM\1\DATA\052401\4M8522.D Vial: 2
Acq On : 24 May 2001 8:53 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 14:29:27 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	263117	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1016583	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	525555	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	865770	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	950521	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	842376	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	496530	52.46	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 52.46%			
6) Phenol-d5	8.02	99	605126	52.38	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 52.38%			
20) Nitrobenzene-d5	9.01	82	537065	52.67	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 105.34%			
38) 2-Fluorobiphenyl	10.81	172	1026056	52.70	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 105.40%			
55) 2,4,6-Tribromophenol	12.36	330	137787	46.62	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 46.62%			
70) p-Terphenyl-d14	14.66	244	1305720	53.62	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 107.24%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	605838	53.80	ug/ml	98
3) n-Nitrosodimethylamine	5.41	74	329793	52.46	ug/ml	95
5) Aniline	8.10	66	311915	52.16	ug/ml	97
7) Phenol	8.04	94	652408	52.52	ug/ml	98
8) bis(2-Chloroethyl)ether	8.14	63	374134	52.94	ug/ml	94
9) 2-Chlorophenol	8.23	128	517162	52.04	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	566299	51.67	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	606122	51.85	ug/ml	99
12) Benzyl Alcohol	8.55	108	341559	52.65	ug/ml	97
13) 1,2-Dichlorobenzene	8.62	146	548413	51.95	ug/ml	100
14) 2-Methylphenol	8.65	107	408523	51.49	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	806268	53.86	ug/ml	99
16) 4-Methylphenol	8.79	107	595127	51.83	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	346053	53.31	ug/ml	98
18) Hexachloroethane	8.95	117	230874	54.00	ug/ml	96
21) Nitrobenzene	9.02	77	554201	52.96	ug/ml	99
22) Isophorone	9.24	82	897237	54.16	ug/ml	99
23) 2-Nitrophenol	9.34	139	290664	52.60	ug/ml	97
24) 2,4-Dimethylphenol	9.33	122	448472	51.98	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	580672	52.24	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8522.D BNA.M Thu May 24 12:04:09 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8522.D
Acq On : 24 May 2001 8:53
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 14:29:27 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.41	122	207401	50.74	ug/ml	96
27) 2,4-Dichlorophenol	9.58	162	407658	52.51	ug/ml	99
28) 1,2,4-Trichlorobenzene	9.66	180	447450	51.24	ug/ml	100
29) Naphthalene	9.76	128	1522162	51.66	ug/ml	100
30) 4-Chloroaniline	9.80	127	639573	52.37	ug/ml	99
31) Hexachlorobutadiene	9.85	225	254397	51.74	ug/ml	99
32) 4-Chloro-3-Methylphenol	10.25	107	417339	53.46	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	968638	51.47	ug/ml	99
35) Hexachlorocyclopentadiene	10.61	237	123094	47.82	ug/ml	99
36) 2,4,6-Trichlorophenol	10.73	196	262277	52.69	ug/ml	99
37) 2,4,5-Trichlorophenol	10.78	196	288398	52.89	ug/ml	100
39) 2-Chloronaphthalene	10.96	162	895658	52.46	ug/ml	100
40) 2-Nitroaniline	11.07	65	282093	53.34	ug/ml	98
41) Dimethylphthalate	11.20	163	948429	52.32	ug/ml	100
42) Acenaphthylene	11.40	152	1332962	52.16	ug/ml	100
43) 2,6-Dinitrotoluene	11.30	165	225803	53.17	ug/ml	97
44) 3-Nitroaniline	11.49	138	242761	54.00	ug/ml	100
45) Acenaphthene	11.58	154	864940	51.62	ug/ml	99
46) 2,4-Dinitrophenol	11.59	184	105056	47.27	ug/ml	84
47) 4-Nitrophenol	11.62	65	186401	50.53	ug/ml	98
48) Dibenzofuran	11.74	168	1172701	51.03	ug/ml	100
49) 2,4-Dinitrotoluene	11.72	165	313436	54.74	ug/ml	97
50) Diethylphthalate	11.91	149	952868	54.47	ug/ml	100
51) Fluorene	12.09	166	976043	52.11	ug/ml	99
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	457032	51.83	ug/ml	99
53) 4-Nitroaniline	12.13	138	225907	54.11	ug/ml	95
54) 1,2-Diphenylhydrazine	12.22	77	1038000	54.68	ug/ml	98
57) 4,6-Dinitro-2-Methylphenol	12.14	198	179794	49.97	ug/ml	96
58) n-Nitrosodiphenylamine	12.18	169	708161	52.28	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.56	248	282126	50.94	ug/ml	98
60) Hexachlorobenzene	12.68	284	328861	51.61	ug/ml	98
61) Pentachlorophenol	12.87	266	146543	49.35	ug/ml	99
62) Phenanthrene	13.10	178	1501884	52.47	ug/ml	100
63) Anthracene	13.15	178	1504768	52.24	ug/ml	100
64) Carbazole	13.30	167	1097145	57.57	ug/ml	99
65) Di-n-Butyl Phthalate	13.55	149	1717096	53.13	ug/ml	100
66) Fluoranthene	14.33	202	1684084	52.29	ug/ml	100
68) Benzidine	14.43	184	263513	39.51	ug/ml	100
69) Pyrene	14.58	202	1722935	54.06	ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	779928	54.12	ug/ml	99
72) Benzo[a]anthracene	15.84	228	1570740	51.34	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8522.D Vial: 2
Acq On : 24 May 2001 8:53 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001 Quant Results File: BNA.RES

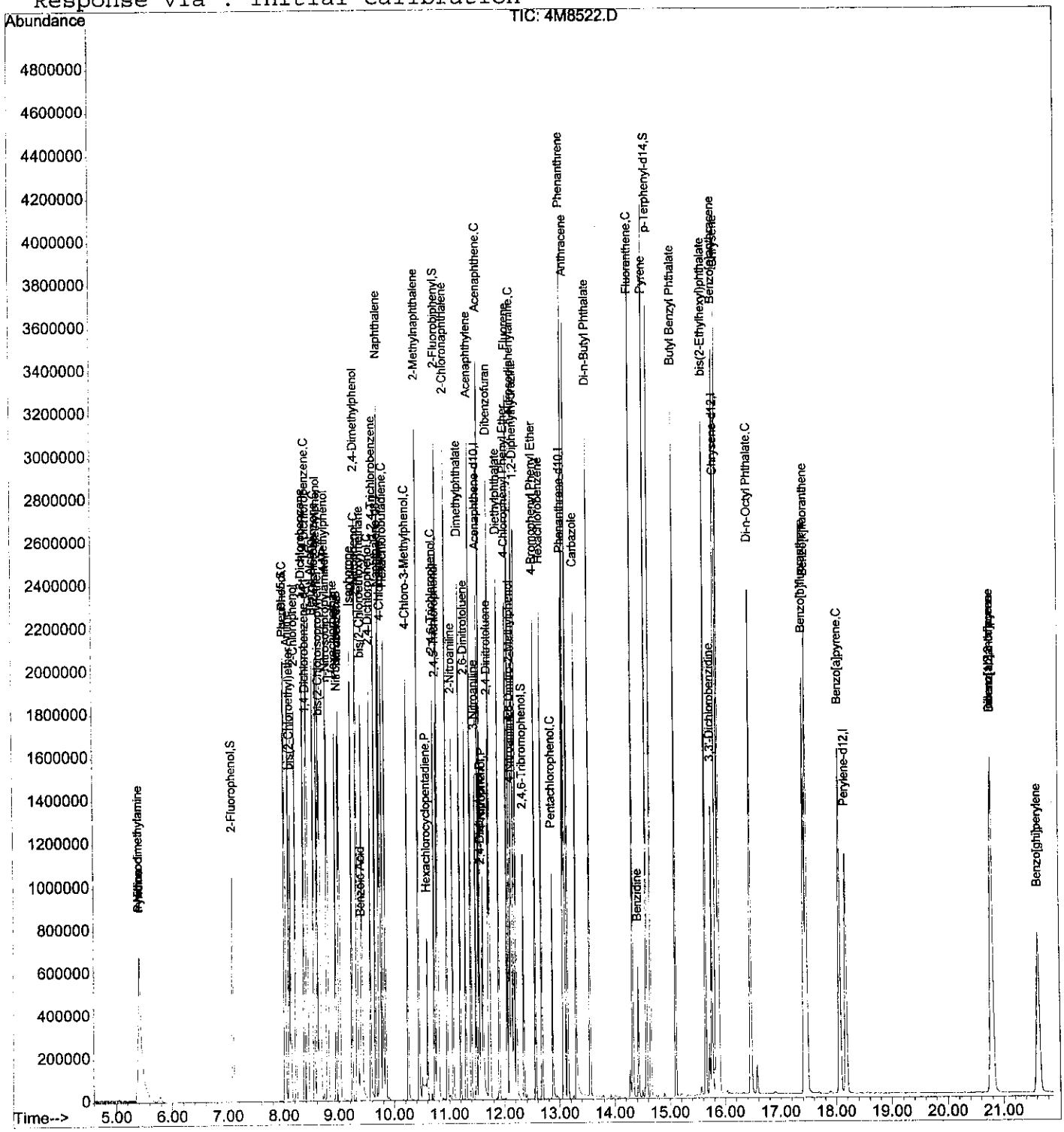
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 14:29:27 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.76	252	393942	49.99	ug/ml	99
74)	Chrysene	15.89	228	1548343	51.45	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.65	149	1046737	53.70	ug/ml	99
77)	Di-n-Octyl Phthalate	16.46	149	1712828	56.13	ug/ml	99
78)	Benzo[b]fluoranthene	17.43	252	1437402	53.26	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	1438610	53.50	ug/ml	98
80)	Benzo[a]pyrene	18.07	252	1282677	52.48	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.80	276	1287456	53.38	ug/ml#	100
82)	Dibenz[ah]anthracene	20.80	278	834152	53.10	ug/ml	100
83)	Benzo[ghi]perylene	21.63	276	1054769	54.22	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8522.D Vial: 2
Acq On : 24 May 2001 8:53 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 9:16 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:03:51 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\4M8523.D Vial: 5
Acq On : 24 May 2001 9:25 Operator: mdc
Sample : 3PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:05 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	266926	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	980531	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	548983	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	824550	40.00	ug/ml	0.00
67) Chrysene-d12	15.85	240	971394	40.00	ug/ml	-0.01
76) Perylene-d12	18.18	264	934318	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	30647	3.19	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 3.19%#			
6) Phenol-d5	8.03	99	36483	3.11	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 3.11%#			
20) Nitrobenzene-d5	9.01	82	30710	3.12	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 6.24%#			
38) 2-Fluorobiphenyl	10.81	172	63954	3.14	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 6.28%#			
55) 2,4,6-Tribromophenol	12.35	330	5850	2.11	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 2.11%#			
70) p-Terphenyl-d14	14.66	244	77352	3.11	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 6.22%#			
Target Compounds						Qvalue
2) Pyridine	5.49	79	29247	2.56	ug/ml	88
3) n-Nitrosodimethylamine	5.42	74	20648	3.24	ug/ml#	95
5) Aniline	8.11	66	20044	3.30	ug/ml	97
7) Phenol	8.04	94	39450	3.13	ug/ml	97
8) bis(2-Chloroethyl)ether	8.14	63	23795	3.32	ug/ml	98
9) 2-Chlorophenol	8.23	128	31932	3.17	ug/ml	100
10) 1,3-Dichlorobenzene	8.38	146	36269	3.26	ug/ml	99
11) 1,4-Dichlorobenzene	8.44	146	39400	3.32	ug/ml	95
12) Benzyl Alcohol	8.56	108	18863	2.87	ug/ml	94
13) 1,2-Dichlorobenzene	8.62	146	35131	3.28	ug/ml	99
14) 2-Methylphenol	8.65	107	25432	3.16	ug/ml	95
15) bis(2-Chloroisopropyl)ethe	8.67	45	52188	3.44	ug/ml	98
16) 4-Methylphenol	8.79	107	37151	3.19	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	21318	3.24	ug/ml	97
18) Hexachloroethane	8.95	117	14138	3.26	ug/ml	95
21) Nitrobenzene	9.03	77	33602	3.33	ug/ml	94
22) Isophorone	9.24	82	57653	3.61	ug/ml	99
23) 2-Nitrophenol	9.35	139	15467	2.90	ug/ml	95
24) 2,4-Dimethylphenol	9.33	122	26815	3.22	ug/ml	94
25) bis(2-Chloroethoxy)methane	9.43	93	36146	3.37	ug/ml#	93

(#) = qualifier out of range (m) = manual integration
4M8523.D BNA.M Thu May 24 12:05:37 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8523.D Vial: 3
Acq On : 24 May 2001 9:25 Operator: mdc
Sample : 3PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:05 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.40	122	6129	1.55	ug/ml#	69
27)	2,4-Dichlorophenol	9.58	162	23254	3.11	ug/ml	97
28)	1,2,4-Trichlorobenzene	9.66	180	26778	3.18	ug/ml	100
29)	Naphthalene	9.75	128	98459	3.46	ug/ml	100
30)	4-Chloroaniline	9.80	127	37499	3.18	ug/ml	98
31)	Hexachlorobutadiene	9.85	225	15899	3.35	ug/ml	98
32)	4-Chloro-3-Methylphenol	10.25	107	24860	3.30	ug/ml	97
33)	2-Methylnaphthalene	10.45	142	63738	3.51	ug/ml	99
35)	Hexachlorocyclopentadiene	10.61	237	741	0.32	ug/ml#	83
36)	2,4,6-Trichlorophenol	10.74	196	13859	2.67	ug/ml	97
37)	2,4,5-Trichlorophenol	10.78	196	16557	2.91	ug/ml	99
39)	2-Chloronaphthalene	10.96	162	57127	3.20	ug/ml	98
40)	2-Nitroaniline	11.07	65	15541	2.81	ug/ml	91
41)	Dimethylphthalate	11.20	163	57011	3.01	ug/ml	99
42)	Acenaphthylene	11.40	152	85518	3.20	ug/ml	99
43)	2,6-Dinitrotoluene	11.30	165	11236	2.53	ug/ml	91
44)	3-Nitroaniline	11.49	138	13045	2.78	ug/ml	99
45)	Acenaphthene	11.57	154	55795	3.19	ug/ml	95
47)	4-Nitrophenol	11.63	65	7182	1.86	ug/ml	86
48)	Dibenzofuran	11.74	168	76152	3.17	ug/ml	99
49)	2,4-Dinitrotoluene	11.72	165	13760	2.30	ug/ml	85
50)	Diethylphthalate	11.90	149	51374	2.81	ug/ml	98
51)	Fluorene	12.09	166	60481	3.09	ug/ml	98
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	27424	2.98	ug/ml	96
53)	4-Nitroaniline	12.13	138	13276	3.04	ug/ml#	87
54)	1,2-Diphenylhydrazine	12.22	77	60680	3.06	ug/ml	95
57)	4,6-Dinitro-2-Methylphenol	12.14	198	3618	1.06	ug/ml#	69
58)	n-Nitrosodiphenylamine	12.18	169	39840	3.09	ug/ml	98
59)	4-Bromophenyl Phenyl Ether	12.56	248	15661	2.97	ug/ml	94
60)	Hexachlorobenzene	12.68	284	17341	2.86	ug/ml	96
61)	Pentachlorophenol	12.88	266	2229	0.78	ug/ml	88
62)	Phenanthrene	13.10	178	91158	3.34	ug/ml	99
63)	Anthracene	13.15	178	88448	3.22	ug/ml	98
64)	Carbazole	13.30	167	86029	4.11	ug/ml	98
65)	Di-n-Butyl Phthalate	13.55	149	98616	3.20	ug/ml	99
66)	Fluoranthene	14.33	202	101587	3.31	ug/ml	99
68)	Benzidine	14.43	184	36071	5.29	ug/ml	100
69)	Pyrene	14.58	202	106008	3.25	ug/ml	98
71)	Butyl Benzyl Phthalate	15.11	149	47422	3.22	ug/ml	97
72)	Benzo[a]anthracene	15.84	228	103557	3.31	ug/ml	99
73)	3,3'-Dichlorobenzidine	15.76	252	34252	3.84	ug/ml	98

(#) = qualifier out of range (m) = manual integration
4M8523.D BNA.M Thu May 24 12:05:38 2001 HPMS4 Page 2

Data File : C:\HPCHEM\1\DATA\052401\4M8523.D
Acq On : 24 May 2001 9:25
Sample : 3PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:05 2001

Vial: 3
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	Chrysene	15.89	228	102878	3.35	ug/ml	98
75)	bis(2-Ethylhexyl)phthalate	15.65	149	63280	3.18	ug/ml	97
77)	Di-n-Octyl Phthalate	16.46	149	97737	2.89	ug/ml	96
78)	Benzo[b]fluoranthene	17.42	252	92558	3.09	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	89738	3.01	ug/ml	99
80)	Benzo[a]pyrene	18.06	252	80804	2.98	ug/ml	98
81)	Indeno[1,2,3-cd]pyrene	20.78	276	81072	3.03	ug/ml#	97
82)	Dibenz[ah]anthracene	20.78	278	51553	2.96	ug/ml	99
83)	Benzo[ghi]perylene	21.62	276	69564	3.22	ug/ml	98

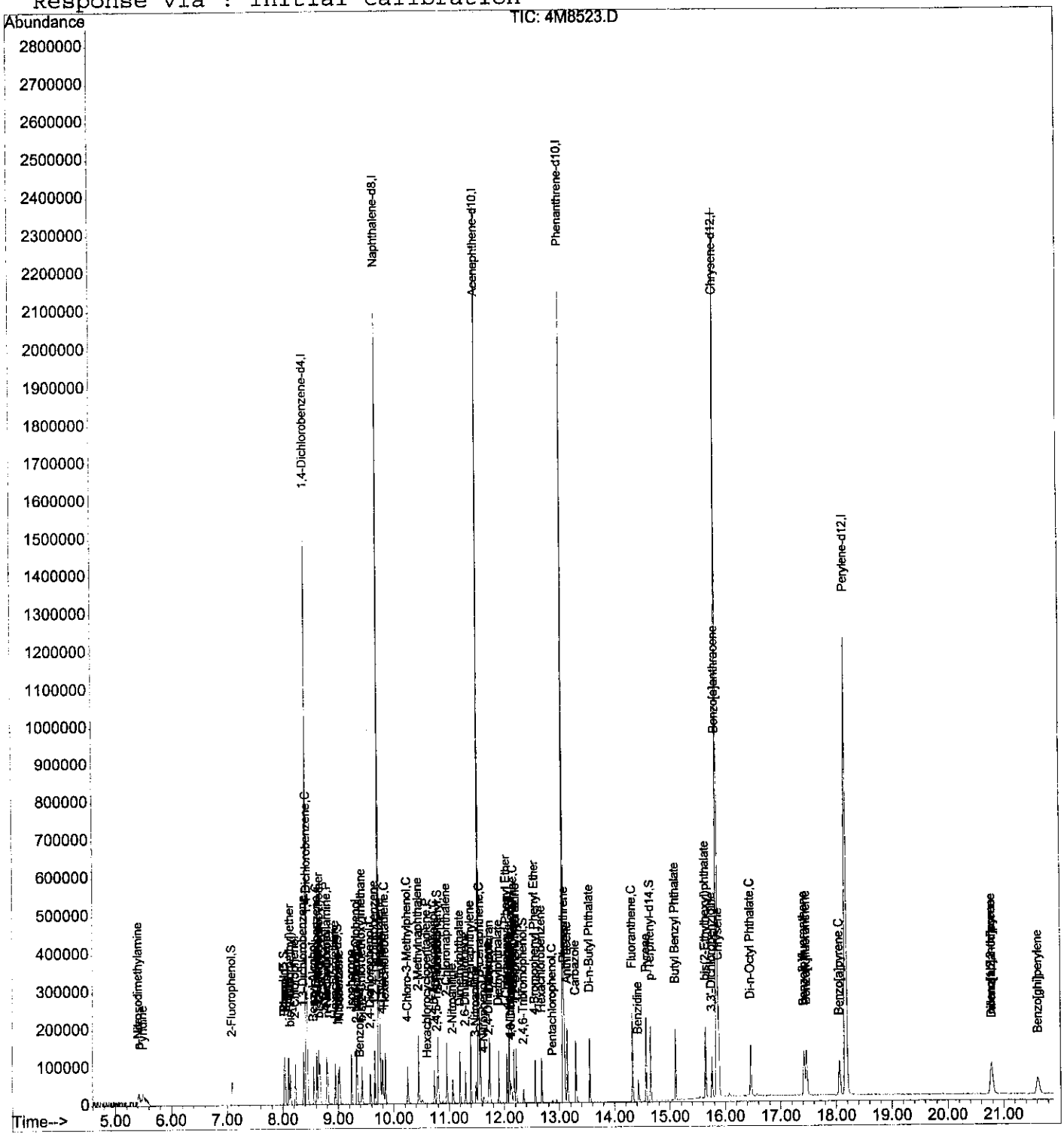
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8523.D
Acq On : 24 May 2001 9:25
Sample : 3PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:05 2001

Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:03:51 2001
Response via : Initial Calibration



4M8523.D BNA.M Thu May 24 12:05:41 2001 HPMS4 Page 4

Data File : C:\HPCHEM\1\DATA\052401\4M8524.D Vial: 4
Acq On : 24 May 2001 9:56 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	261173	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1022086	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	543914	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	832762	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	938653	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	874177	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	95146	10.05	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 10.05%#			
6) Phenol-d5	8.02	99	117955	10.28	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 10.28%			
20) Nitrobenzene-d5	9.01	82	101544	9.85	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 19.70%#			
38) 2-Fluorobiphenyl	10.81	172	196821	9.74	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 19.48%#			
55) 2,4,6-Tribromophenol	12.36	330	20995	7.70	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 7.70%#			
70) p-Terphenyl-d14	14.66	244	240379	9.93	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 19.86%#			
Target Compounds						Qvalue
2) Pyridine	5.45	79	111662	10.12	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	64206	10.18	ug/ml	98
5) Aniline	8.10	66	61779	10.30	ug/ml	95
7) Phenol	8.04	94	125423	10.14	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	73128	10.27	ug/ml	98
9) 2-Chlorophenol	8.23	128	98902	9.97	ug/ml	100
10) 1,3-Dichlorobenzene	8.38	146	110970	10.17	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	118959	10.19	ug/ml	98
12) Benzyl Alcohol	8.55	108	62983	9.79	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	106795	10.12	ug/ml	100
14) 2-Methylphenol	8.65	107	77083	9.79	ug/ml	97
15) bis(2-Chloroisopropyl)ethe	8.67	45	158924	10.51	ug/ml	99
16) 4-Methylphenol	8.79	107	112381	9.86	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	64941	9.99	ug/ml	97
18) Hexachloroethane	8.95	117	43739	10.13	ug/ml	99
21) Nitrobenzene	9.02	77	104257	9.79	ug/ml	98
22) Isophorone	9.24	82	179523	10.60	ug/ml	99
23) 2-Nitrophenol	9.34	139	52682	9.43	ug/ml	97
24) 2,4-Dimethylphenol	9.33	122	83606	9.62	ug/ml	96
25) bis(2-Chloroethoxy)methane	9.43	93	111503	9.89	ug/ml	97

(#) = qualifier out of range (m) = manual integration
4M8524.D BNA.M Thu May 24 12:06:20 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8524.D Vial: 4
Acq On : 24 May 2001 9:56 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.39	122	24434	5.98	ug/ml	94
27)	2,4-Dichlorophenol	9.58	162	76500	9.67	ug/ml	98
28)	1,2,4-Trichlorobenzene	9.66	180	84138	9.58	ug/ml	100
29)	Naphthalene	9.75	128	301427	10.13	ug/ml	99
30)	4-Chloroaniline	9.80	127	118200	9.57	ug/ml	98
31)	Hexachlorobutadiene	9.85	225	47905	9.58	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	81199	10.29	ug/ml	98
33)	2-Methylnaphthalene	10.45	142	192935	10.11	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	8769	3.87	ug/ml	98
36)	2,4,6-Trichlorophenol	10.74	196	47595	9.36	ug/ml	99
37)	2,4,5-Trichlorophenol	10.79	196	53019	9.37	ug/ml	98
39)	2-Chloronaphthalene	10.96	162	172808	9.74	ug/ml	100
40)	2-Nitroaniline	11.07	65	52996	9.58	ug/ml	97
41)	Dimethylphthalate	11.20	163	176886	9.42	ug/ml	99
42)	Acenaphthylene	11.40	152	270796	10.22	ug/ml	99
43)	2,6-Dinitrotoluene	11.30	165	39147	8.95	ug/ml	97
44)	3-Nitroaniline	11.49	138	46441	10.00	ug/ml	99
45)	Acenaphthene	11.57	154	172312	9.92	ug/ml	97
46)	2,4-Dinitrophenol	11.60	184	6457	2.73	ug/ml#	1
47)	4-Nitrophenol	11.62	65	29147	7.62	ug/ml	96
48)	Dibenzofuran	11.74	168	235663	9.88	ug/ml	98
49)	2,4-Dinitrotoluene	11.71	165	51738	8.70	ug/ml	94
50)	Diethylphthalate	11.90	149	170139	9.32	ug/ml	99
51)	Fluorene	12.09	166	185922	9.55	ug/ml	99
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	84065	9.19	ug/ml	99
53)	4-Nitroaniline	12.12	138	45301	10.48	ug/ml	96
54)	1,2-Diphenylhydrazine	12.22	77	191458	9.61	ug/ml	98
57)	4,6-Dinitro-2-Methylphenol	12.14	198	20427	5.90	ug/ml	92
58)	n-Nitrosodiphenylamine	12.18	169	125229	9.60	ug/ml	100
59)	4-Bromophenyl Phenyl Ether	12.56	248	49118	9.23	ug/ml	98
60)	Hexachlorobenzene	12.68	284	56678	9.21	ug/ml	98
61)	Pentachlorophenol	12.88	266	13545	4.67	ug/ml	99
62)	Phenanthrene	13.10	178	281748	10.18	ug/ml	99
63)	Anthracene	13.15	178	277310	10.00	ug/ml	99
64)	Carbazole	13.30	167	238652	11.24	ug/ml	99
65)	Di-n-Butyl Phthalate	13.55	149	315705	10.12	ug/ml	100
66)	Fluoranthene	14.33	202	318174	10.29	ug/ml	99
68)	Benzidine	14.43	184	71476	10.91	ug/ml	100
69)	Pyrene	14.58	202	326188	10.27	ug/ml	99
71)	Butyl Benzyl Phthalate	15.11	149	147641	10.28	ug/ml	97
72)	Benzo[a]anthracene	15.84	228	303284	10.00	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8524.D Vial: 4
Acq On : 24 May 2001 9:56 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

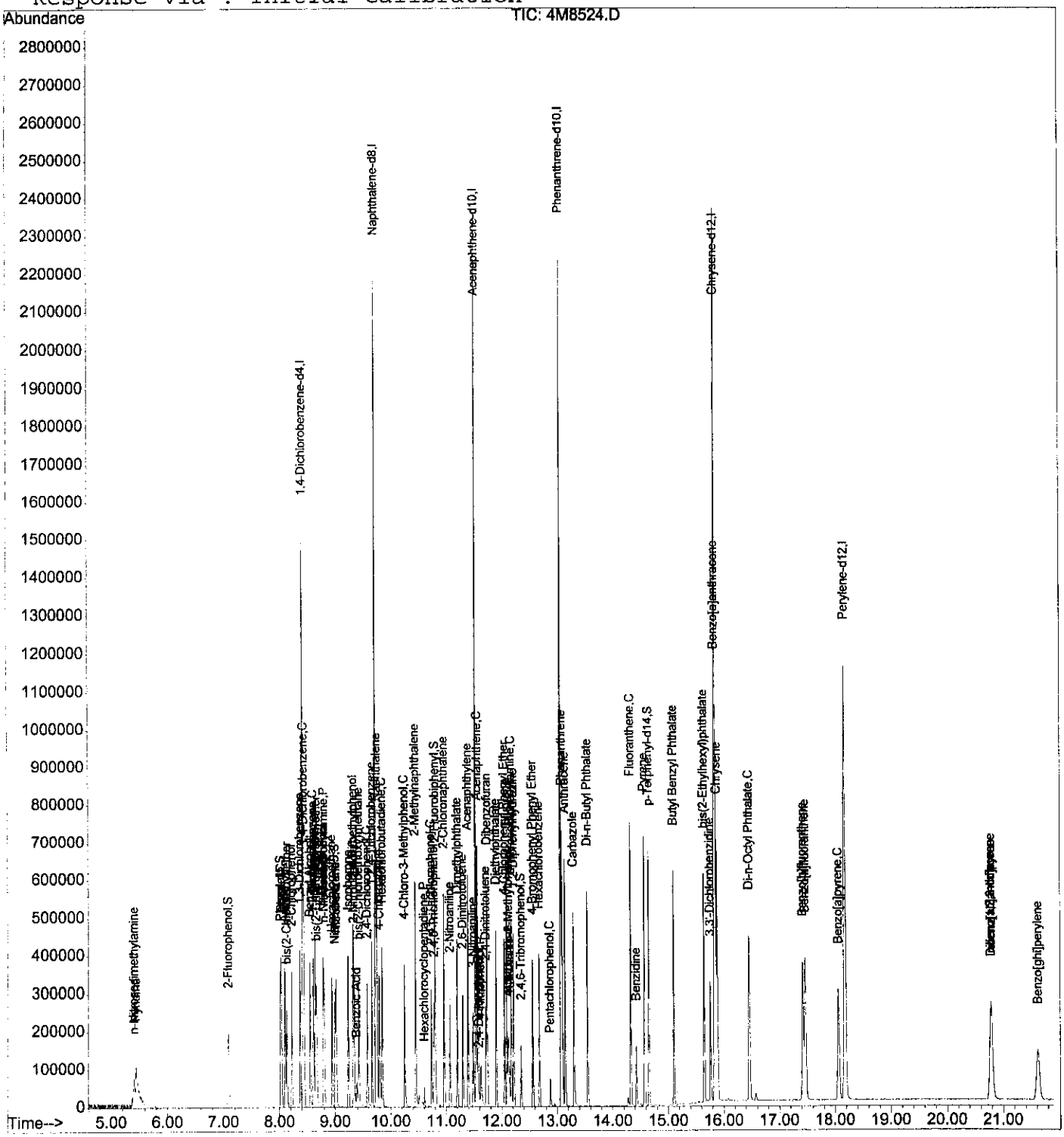
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.76	252	93085	10.91	ug/ml	99
74)	Chrysene	15.89	228	307998	10.32	ug/ml	98
75)	bis(2-Ethylhexyl)phthalate	15.65	149	196697	10.14	ug/ml	98
77)	Di-n-Octyl Phthalate	16.46	149	311490	9.76	ug/ml	97
78)	Benzo[b]fluoranthene	17.43	252	273389	9.66	ug/ml	99
79)	Benzo[k]fluoranthene	17.47	252	268983	9.57	ug/ml	99
80)	Benzo[a]pyrene	18.07	252	241629	9.51	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.78	276	240080	9.61	ug/ml#	99
82)	Dibenz[ah]anthracene	20.79	278	153162	9.42	ug/ml	99
83)	Benzo[ghi]perylene	21.62	276	202526	10.02	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8524.D Vial: 4
Acq On : 24 May 2001 9:56 Operator: mdc
Sample : 10PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:09 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\4M8525.D Vial: 5
Acq On : 24 May 2001 10:28 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:29 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	269671	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1032743	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	556153	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	866759	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	974940	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	904203	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	202939	20.74	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 20.74%#			
6) Phenol-d5	8.02	99	249578	21.06	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 21.06%			
20) Nitrobenzene-d5	9.01	82	218706	21.04	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 42.08%			
38) 2-Fluorobiphenyl	10.81	172	418273	20.27	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 40.54%#			
55) 2,4,6-Tribromophenol	12.36	330	48799	17.58	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 17.58%			
70) p-Terphenyl-d14	14.66	244	526096	20.88	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 41.76%			
Target Compounds						Qvalue
2) Pyridine	5.43	79	241400	21.21	ug/ml	100
3) n-Nitrosodimethylamine	5.41	74	136622	20.95	ug/ml	100
5) Aniline	8.10	66	131605	21.19	ug/ml	95
7) Phenol	8.04	94	267629	20.94	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	156341	21.22	ug/ml	98
9) 2-Chlorophenol	8.23	128	212413	20.74	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	234647	20.80	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	251461	20.83	ug/ml	99
12) Benzyl Alcohol	8.55	108	137595	20.74	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	227524	20.86	ug/ml	99
14) 2-Methylphenol	8.65	107	166924	20.60	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	333370	21.26	ug/ml	100
16) 4-Methylphenol	8.79	107	247970	21.10	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	142843	21.26	ug/ml	99
18) Hexachloroethane	8.95	117	93683	20.95	ug/ml	99
21) Nitrobenzene	9.02	77	226069	21.05	ug/ml	99
22) Isophorone	9.24	82	383132	22.36	ug/ml	100
23) 2-Nitrophenol	9.34	139	114983	20.45	ug/ml	98
24) 2,4-Dimethylphenol	9.33	122	182516	20.92	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	240522	21.16	ug/ml	98

(#) = qualifier out of range (m) = manual integration
4M8525.D BNA.M Thu May 24 12:06:38 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\4M8525.D Vial: 5
Acq On : 24 May 2001 10:28 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:29 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.40	122	63612	16.03	ug/ml	97
27)	2,4-Dichlorophenol	9.58	162	167605	21.05	ug/ml	99
28)	1,2,4-Trichlorobenzene	9.66	180	180707	20.47	ug/ml	99
29)	Naphthalene	9.75	128	639102	21.30	ug/ml	99
30)	4-Chloroaniline	9.80	127	259788	20.89	ug/ml	98
31)	Hexachlorobutadiene	9.85	225	102623	20.32	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	175354	22.08	ug/ml	98
33)	2-Methylnaphthalene	10.45	142	410989	21.40	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	33269	14.44	ug/ml	100
36)	2,4,6-Trichlorophenol	10.74	196	103459	19.99	ug/ml	100
37)	2,4,5-Trichlorophenol	10.79	196	118390	20.57	ug/ml	100
39)	2-Chloronaphthalene	10.96	162	371406	20.54	ug/ml	100
40)	2-Nitroaniline	11.07	65	113973	20.14	ug/ml	98
41)	Dimethylphthalate	11.20	163	375620	19.56	ug/ml	99
42)	Acenaphthylene	11.40	152	575468	21.24	ug/ml	100
43)	2,6-Dinitrotoluene	11.30	165	86720	19.39	ug/ml	98
44)	3-Nitroaniline	11.49	138	105014	22.16	ug/ml	100
45)	Acenaphthene	11.58	154	369380	20.82	ug/ml	98
46)	2,4-Dinitrophenol	11.60	184	25091	10.38	ug/ml#	1
47)	4-Nitrophenol	11.62	65	62885	16.08	ug/ml	92
48)	Dibenzofuran	11.74	168	497579	20.41	ug/ml	99
49)	2,4-Dinitrotoluene	11.72	165	121002	19.90	ug/ml	98
50)	Diethylphthalate	11.90	149	379069	20.25	ug/ml	99
51)	Fluorene	12.09	166	392773	19.74	ug/ml	100
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	178623	19.12	ug/ml	99
53)	4-Nitroaniline	12.13	138	90610	20.36	ug/ml	91
54)	1,2-Diphenylhydrazine	12.22	77	415413	20.30	ug/ml	98
57)	4,6-Dinitro-2-Methylphenol	12.14	198	56726	15.73	ug/ml	96
58)	n-Nitrosodiphenylamine	12.18	169	282718	20.86	ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.56	248	109554	19.82	ug/ml	99
60)	Hexachlorobenzene	12.68	284	123829	19.38	ug/ml	98
61)	Pentachlorophenol	12.87	266	41785	13.83	ug/ml	98
62)	Phenanthrene	13.10	178	612131	21.28	ug/ml	100
63)	Anthracene	13.15	178	607835	21.10	ug/ml	99
64)	Carbazole	13.30	167	463093	20.98	ug/ml	98
65)	Di-n-Butyl Phthalate	13.55	149	704742	21.78	ug/ml	100
66)	Fluoranthene	14.33	202	697739	21.69	ug/ml	99
68)	Benzidine	14.43	184	122149	18.23	ug/ml	100
69)	Pyrene	14.58	202	715635	21.69	ug/ml	99
71)	Butyl Benzyl Phthalate	15.11	149	320816	21.49	ug/ml	98
72)	Benzo[a]anthracene	15.84	228	657471	20.93	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8525.D Vial: 5
Acq On : 24 May 2001 10:28 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:29 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.76	252	181606	20.53	ug/ml	99
74)	Chrysene	15.89	228	657185	21.18	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.65	149	429431	21.36	ug/ml	99
77)	Di-n-Octyl Phthalate	16.46	149	695796	21.07	ug/ml	99
78)	Benzo[b]fluoranthene	17.43	252	582824	19.84	ug/ml	100
79)	Benzo[k]fluoranthene	17.47	252	593715	20.46	ug/ml	99
80)	Benzo[a]pyrene	18.07	252	529387	20.21	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.79	276	545224	21.31	ug/ml#	100
82)	Dibenz[ah]anthracene	20.79	278	348814	20.95	ug/ml	100
83)	Benzo[ghi]perylene	21.62	276	454923	22.00	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8525.D BNA.M Thu May 24 12:06:39 2001 HPMS4 Page 3

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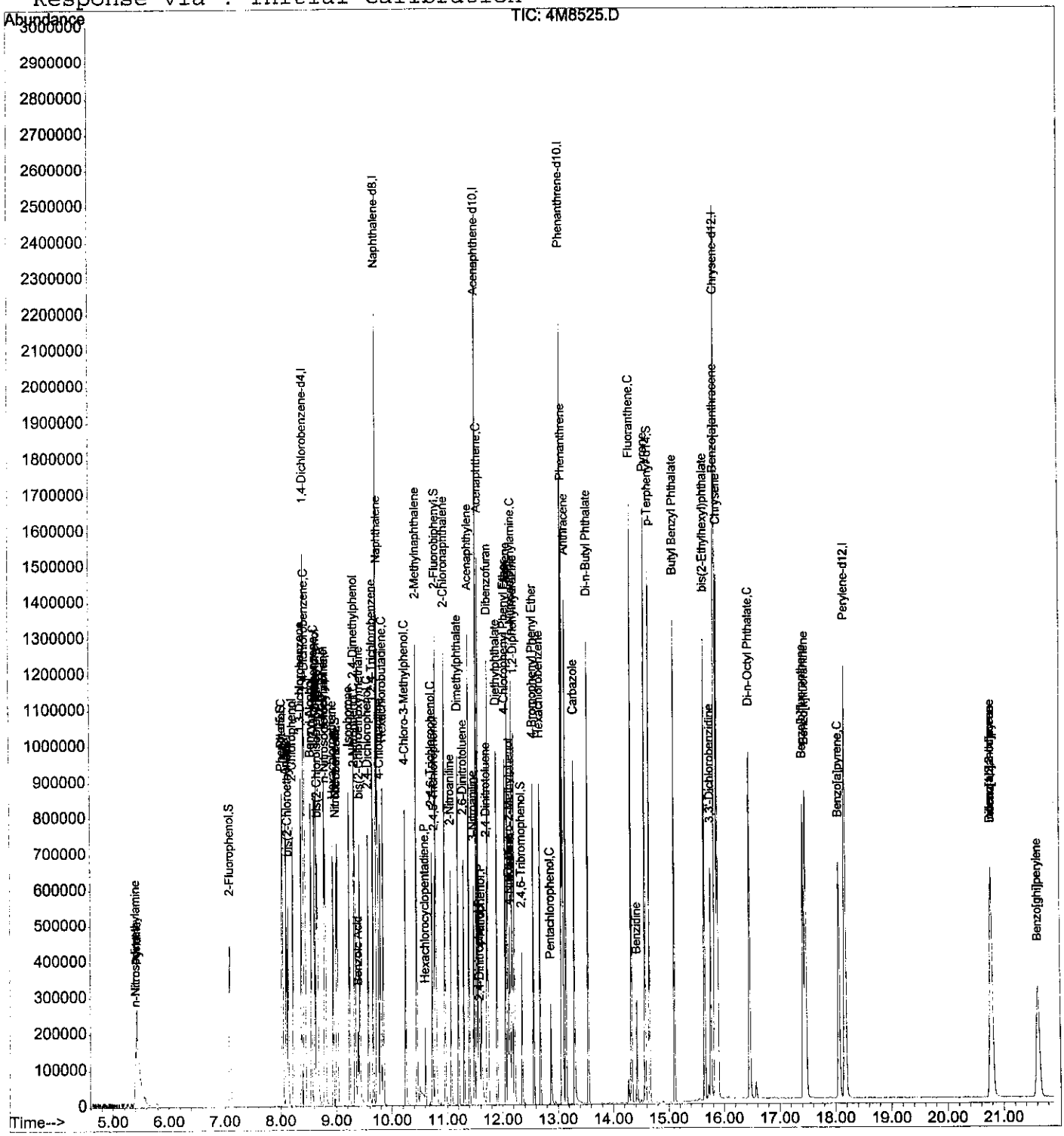
Data File : C:\HPCHEM\1\DATA\052401\4M8525.D Vial: 5
Acq On : 24 May 2001 10:28 Operator: mdc
Sample : 20PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:29 2001
Response via : Initial Calibration



4M8525.D BNA.M Thu May 24 12:06:41 2001 HPMS4 Page 4

Data File : C:\HPCHEM\1\DATA\052401\4M8526.D Vial: 6
Acq On : 24 May 2001 10:59 Operator: mdc
Sample : 80PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:46 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	278731	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1079317	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	544771	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	936984	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1031933	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	903561	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	760529	75.33	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 75.33%			
6) Phenol-d5	8.03	99	925942	75.74	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 75.74%			
20) Nitrobenzene-d5	9.01	82	833543	76.59	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 153.18%#			
38) 2-Fluorobiphenyl	10.81	172	1570527	77.89	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 155.78%#			
55) 2,4,6-Tribromophenol	12.36	330	236138	87.35	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 87.35%			
70) p-Terphenyl-d14	14.66	244	2109809	78.86	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 157.72%#			
Target Compounds						Qvalue
2) Pyridine	5.42	79	927560	78.82	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	506747	75.23	ug/ml	98
5) Aniline	8.11	66	486107	75.57	ug/ml	98
7) Phenol	8.04	94	1002724	75.95	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	574931	75.36	ug/ml	96
9) 2-Chlorophenol	8.23	128	810204	76.51	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	879294	75.54	ug/ml	100
11) 1,4-Dichlorobenzene	8.44	146	937365	75.19	ug/ml	100
12) Benzyl Alcohol	8.56	108	537354	78.51	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	852287	75.51	ug/ml	99
14) 2-Methylphenol	8.65	107	642490	76.87	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	1221369	75.16	ug/ml	98
16) 4-Methylphenol	8.79	107	922448	75.97	ug/ml	100
17) n-Nitrosodipropylamine	8.81	70	529612	76.15	ug/ml	99
18) Hexachloroethane	8.95	117	353950	76.30	ug/ml	96
21) Nitrobenzene	9.03	77	859044	76.33	ug/ml	99
22) Isophorone	9.24	82	1303047	72.43	ug/ml	99
23) 2-Nitrophenol	9.35	139	465110	79.37	ug/ml	97
24) 2,4-Dimethylphenol	9.33	122	687417	75.52	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	898130	75.55	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8526.D BNA.M Thu May 24 12:06:56 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8526.D Vial: 6
Acq On : 24 May 2001 10:59 Operator: mdc
Sample : 80PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:46 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.42	122	318659	78.36	ug/ml	99
27)	2,4-Dichlorophenol	9.58	162	637569	76.55	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.67	180	709143	77.00	ug/ml	99
29)	Naphthalene	9.76	128	2325552	74.17	ug/ml	100
30)	4-Chloroaniline	9.80	127	996228	76.82	ug/ml	100
31)	Hexachlorobutadiene	9.86	225	407973	77.11	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	611175	73.68	ug/ml	100
33)	2-Methylnaphthalene	10.45	142	1471673	73.37	ug/ml	99
35)	Hexachlorocyclopentadiene	10.61	237	238095	106.54	ug/ml	100
36)	2,4,6-Trichlorophenol	10.74	196	398435	79.31	ug/ml	99
37)	2,4,5-Trichlorophenol	10.78	196	433584	77.12	ug/ml	99
39)	2-Chloronaphthalene	10.97	162	1367790	77.35	ug/ml	100
40)	2-Nitroaniline	11.07	65	442594	79.35	ug/ml	96
41)	Dimethylphthalate	11.21	163	1518935	80.55	ug/ml	100
42)	Acenaphthylene	11.40	152	1996185	75.27	ug/ml	99
43)	2,6-Dinitrotoluene	11.31	165	367017	83.59	ug/ml	99
44)	3-Nitroaniline	11.50	138	357221	77.06	ug/ml	99
45)	Acenaphthene	11.58	154	1326962	76.47	ug/ml	98
46)	2,4-Dinitrophenol	11.60	184	189856	81.37	ug/ml#	65
47)	4-Nitrophenol	11.62	65	304195	80.13	ug/ml	99
48)	Dibenzofuran	11.75	168	1846634	77.34	ug/ml	100
49)	2,4-Dinitrotoluene	11.72	165	512111	85.92	ug/ml	98
50)	Diethylphthalate	11.91	149	1516755	82.47	ug/ml	99
51)	Fluorene	12.10	166	1552217	79.59	ug/ml	100
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	743310	81.24	ug/ml	99
53)	4-Nitroaniline	12.13	138	328208	73.77	ug/ml	94
54)	1,2-Diphenylhydrazine	12.22	77	1632488	81.08	ug/ml	98
57)	4,6-Dinitro-2-Methylphenol	12.14	198	307795	79.78	ug/ml	96
58)	n-Nitrosodiphenylamine	12.18	169	1131859	77.28	ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.57	248	471520	79.18	ug/ml	98
60)	Hexachlorobenzene	12.69	284	558194	81.00	ug/ml	98
61)	Pentachlorophenol	12.88	266	252982	78.47	ug/ml	100
62)	Phenanthrene	13.10	178	2335867	75.14	ug/ml	99
63)	Anthracene	13.15	178	2385046	76.68	ug/ml	99
64)	Carbazole	13.31	167	1616430	67.37	ug/ml	99
65)	Di-n-Butyl Phthalate	13.55	149	2655677	75.86	ug/ml	99
66)	Fluoranthene	14.33	202	2616963	75.24	ug/ml	100
68)	Benzidine	14.43	184	494042	70.49	ug/ml	100
69)	Pyrene	14.58	202	2685680	76.59	ug/ml	99
71)	Butyl Benzyl Phthalate	15.11	149	1209177	76.26	ug/ml	99
72)	Benzo[a]anthracene	15.84	228	2491487	74.98	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8526.D
Acq On : 24 May 2001 10:59
Sample : 80PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:46 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	653014	69.69	ug/ml	99
74)	Chrysene	15.90	228	2458723	74.84	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.66	149	1633819	76.53	ug/ml	99
77)	Di-n-Octyl Phthalate	16.47	149	2694392	81.35	ug/ml	99
78)	Benzo[b]fluoranthene	17.44	252	2280063	78.02	ug/ml	100
79)	Benzo[k]fluoranthene	17.48	252	2371134	81.26	ug/ml	99
80)	Benzo[a]pyrene	18.08	252	2052946	78.66	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.81	276	1942187	76.36	ug/ml#	100
82)	Dibenz[ah]anthracene	20.81	278	1283073	77.53	ug/ml	100
83)	Benzo[ghi]perylene	21.64	276	1509428	73.60	ug/ml	100

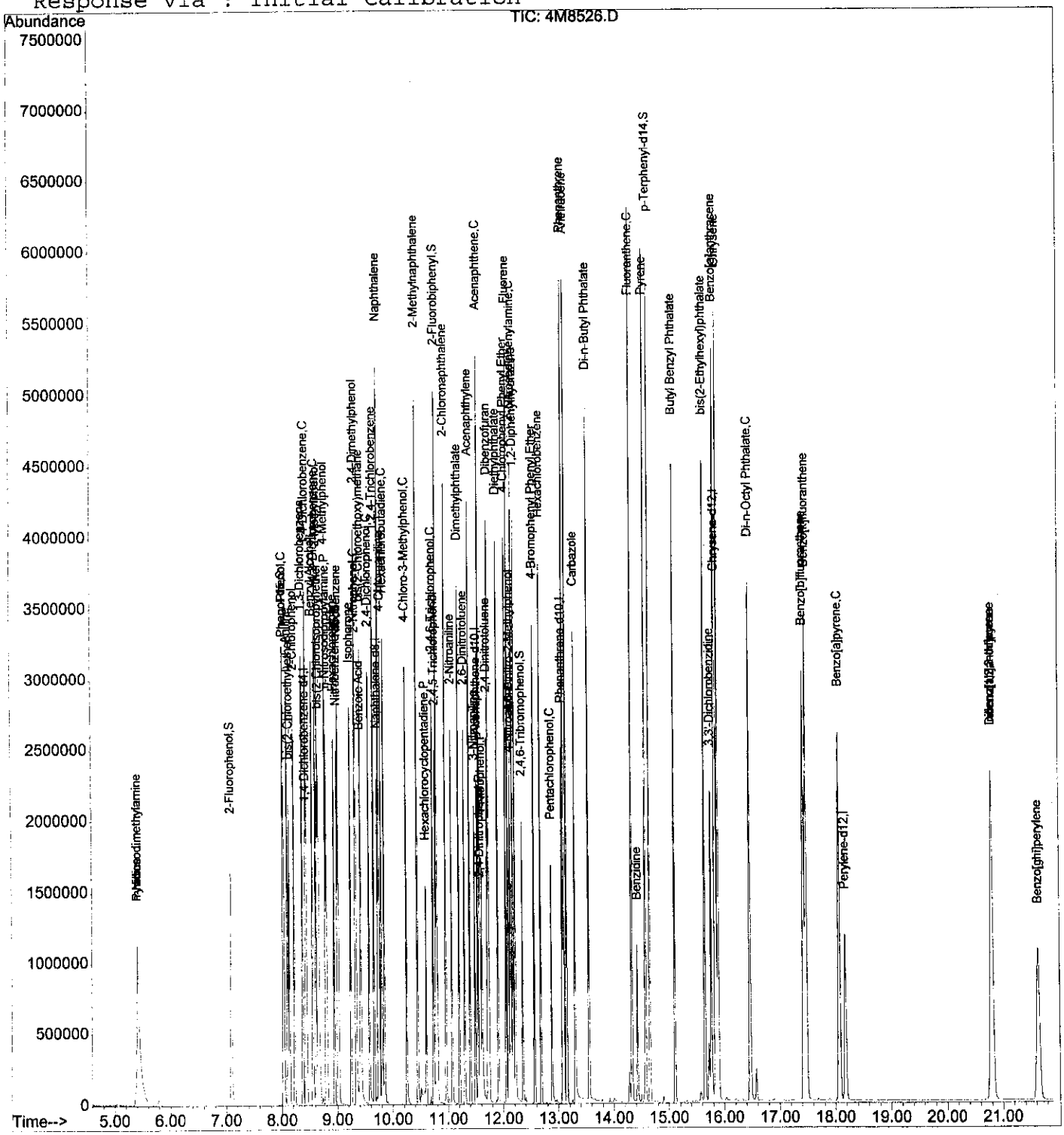
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8526.D
Acq On : 24 May 2001 10:59
Sample : 80PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:06 2001

Vial: 6
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:06:46 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\4M8527.D Vial: 7
Acq On : 24 May 2001 11:31 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:07 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:07:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	283127	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1080748	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	544865	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	957248	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1053700	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	906828	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	978460	98.39	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 98.39%			
6) Phenol-d5	8.03	99	1166596	96.64	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 96.64%#			
20) Nitrobenzene-d5	9.01	82	1071066	101.13	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 202.26%#			
38) 2-Fluorobiphenyl	10.81	172	1985631	101.41	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 202.82%#			
55) 2,4,6-Tribromophenol	12.36	330	327175	126.99	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 126.99%#			
70) p-Terphenyl-d14	14.66	244	2733094	102.63	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 205.26%#			
Target Compounds						Qvalue
2) Pyridine	5.42	79	1194086	103.02	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	653101	98.27	ug/ml	98
5) Aniline	8.11	66	614777	96.76	ug/ml	99
7) Phenol	8.04	94	1276332	97.96	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	734623	97.42	ug/ml	96
9) 2-Chlorophenol	8.23	128	1042761	99.91	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	1126154	98.01	ug/ml	99
11) 1,4-Dichlorobenzene	8.44	146	1202533	97.70	ug/ml	100
12) Benzyl Alcohol	8.56	108	693781	102.91	ug/ml	97
13) 1,2-Dichlorobenzene	8.62	146	1093963	98.26	ug/ml	99
14) 2-Methylphenol	8.65	107	827306	100.38	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	1538724	95.50	ug/ml	97
16) 4-Methylphenol	8.79	107	1178081	98.33	ug/ml	99
17) n-Nitrosodipropylamine	8.82	70	674562	98.11	ug/ml	97
18) Hexachloroethane	8.95	117	453450	99.03	ug/ml	95
21) Nitrobenzene	9.03	77	1097750	100.08	ug/ml	98
22) Isophorone	9.25	82	1605288	90.89	ug/ml	99
23) 2-Nitrophenol	9.35	139	596045	104.76	ug/ml	96
24) 2,4-Dimethylphenol	9.33	122	882945	99.64	ug/ml	98
25) bis(2-Chloroethoxy)methane	9.43	93	1138597	98.22	ug/ml	99

(#) = qualifier out of range (m) = manual integration
4M8527.D BNA.M Thu May 24 12:07:18 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8527.D Vial: 7
Acq On : 24 May 2001 11:31 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:07 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:07:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.43	122	451043	118.15	ug/ml	98
27)	2,4-Dichlorophenol	9.58	162	818480	101.11	ug/ml	99
28)	1,2,4-Trichlorobenzene	9.67	180	915969	102.34	ug/ml	99
29)	Naphthalene	9.76	128	2942596	96.08	ug/ml	99
30)	4-Chloroaniline	9.80	127	1281879	101.54	ug/ml	99
31)	Hexachlorobutadiene	9.86	225	529391	102.85	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	761709	93.79	ug/ml	99
33)	2-Methylnaphthalene	10.45	142	1864422	95.23	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	344202	166.06	ug/ml	100
36)	2,4,6-Trichlorophenol	10.74	196	511667	105.26	ug/ml	99
37)	2,4,5-Trichlorophenol	10.78	196	563086	103.58	ug/ml	100
39)	2-Chloronaphthalene	10.97	162	1730404	100.74	ug/ml	100
40)	2-Nitroaniline	11.07	65	570453	106.73	ug/ml	95
41)	Dimethylphthalate	11.21	163	1978098	108.35	ug/ml	99
42)	Acenaphthylene	11.40	152	2527453	98.02	ug/ml	99
43)	2,6-Dinitrotoluene	11.31	165	486585	115.04	ug/ml	97
44)	3-Nitroaniline	11.50	138	451260	100.16	ug/ml	99
45)	Acenaphthene	11.58	154	1697044	100.74	ug/ml	98
46)	2,4-Dinitrophenol	11.60	184	269490	125.33	ug/ml#	1
47)	4-Nitrophenol	11.62	65	407117	113.61	ug/ml	100
48)	Dibenzofuran	11.75	168	2390417	103.29	ug/ml	99
49)	2,4-Dinitrotoluene	11.72	165	678116	118.01	ug/ml#	90
50)	Diethylphthalate	11.91	149	1972283	110.62	ug/ml	99
51)	Fluorene	12.10	166	2003739	106.11	ug/ml	100
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	973093	109.99	ug/ml	99
53)	4-Nitroaniline	12.13	138	434184	101.26	ug/ml	96
54)	1,2-Diphenylhydrazine	12.23	77	2083286	106.47	ug/ml	97
57)	4,6-Dinitro-2-Methylphenol	12.15	198	415693	111.84	ug/ml	95
58)	n-Nitrosodiphenylamine	12.18	169	1474684	101.52	ug/ml	100
59)	4-Bromophenyl Phenyl Ether	12.57	248	634647	107.98	ug/ml	97
60)	Hexachlorobenzene	12.69	284	758127	111.44	ug/ml	96
61)	Pentachlorophenol	12.88	266	351084	114.07	ug/ml	100
62)	Phenanthrene	13.10	178	2991248	96.64	ug/ml	99
63)	Anthracene	13.16	178	3037546	98.17	ug/ml	99
64)	Carbazole	13.31	167	2059628	85.94	ug/ml	99
65)	Di-n-Butyl Phthalate	13.56	149	3366914	96.57	ug/ml	100
66)	Fluoranthene	14.33	202	3292108	94.96	ug/ml	99
68)	Benzidine	14.43	184	653854	97.11	ug/ml	100
69)	Pyrene	14.58	202	3396031	97.04	ug/ml	98
71)	Butyl Benzyl Phthalate	15.11	149	1552109	98.22	ug/ml	97
72)	Benzo[a]anthracene	15.84	228	3224545	97.71	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8527.D Vial: 7
Acq On : 24 May 2001 11:31 Operator: mdc
Sample : 100PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:07 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:07:09 2001
Response via : Initial Calibration
DataAcq Meth : BNA

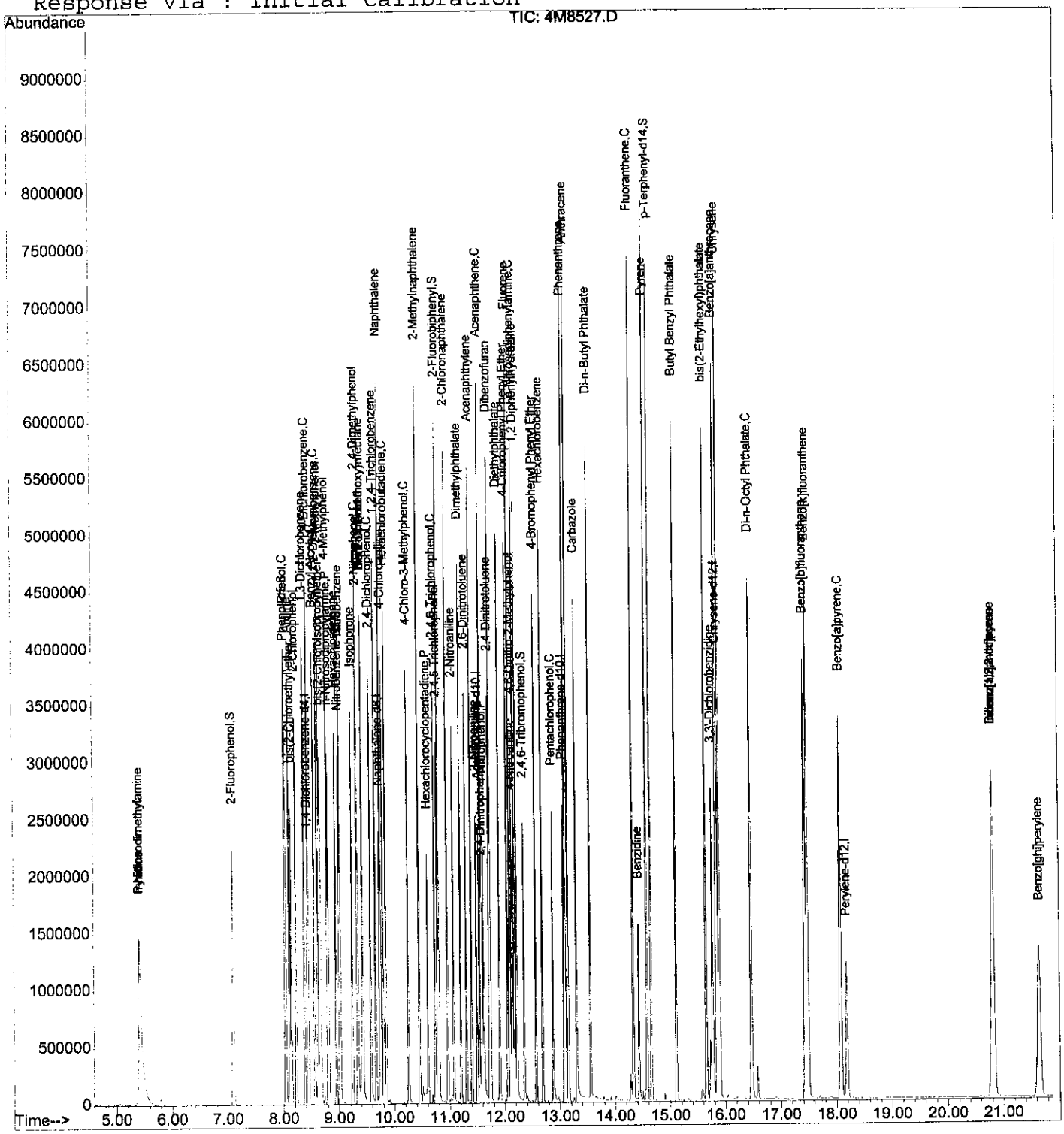
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	870424	93.61	ug/ml	100
74)	Chrysene	15.90	228	3152317	96.48	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.66	149	2090021	98.35	ug/ml	99
77)	Di-n-Octyl Phthalate	16.47	149	3456550	106.46	ug/ml	98
78)	Benzo[b]fluoranthene	17.44	252	2985626	105.17	ug/ml	100
79)	Benzo[k]fluoranthene	17.49	252	3078061	107.88	ug/ml	99
80)	Benzo[a]pyrene	18.08	252	2664785	104.97	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.82	276	2453458	98.76	ug/ml#	100
82)	Dibenz[ah]anthracene	20.82	278	1640678	101.69	ug/ml	100
83)	Benzo[ghi]perylene	21.65	276	1883538	93.66	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8527.D
Acq On : 24 May 2001 11:31
Sample : 100PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:07 2001

Vial: 7
Operator: mdc
Inst : HPMS4
Multiplr: 1.00
Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:07:09 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\4M8528.D Vial: 8
Acq On : 24 May 2001 12:04 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:27 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:09:16 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	279457	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1089863	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	548629	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	958370	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1042935	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	892744	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	1162392	115.10	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 115.10%#			
6) Phenol-d5	8.03	99	1379536	112.80	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 112.80%#			
20) Nitrobenzene-d5	9.01	82	1272426	115.48	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 230.96%#			
38) 2-Fluorobiphenyl	10.81	172	2277662	112.35	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 224.70%#			
55) 2,4,6-Tribromophenol	12.36	330	408838	150.72	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 150.72%#			
70) p-Terphenyl-d14	14.66	244	3190768	117.02	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 234.04%#			
Target Compounds						Qvalue
2) Pyridine	5.42	79	1406487	119.25	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	772991	114.42	ug/ml	97
5) Aniline	8.11	66	725117	112.39	ug/ml	97
7) Phenol	8.04	94	1511012	114.28	ug/ml	98
8) bis(2-Chloroethyl)ether	8.15	63	856732	111.77	ug/ml	98
9) 2-Chlorophenol	8.23	128	1229938	115.87	ug/ml	98
10) 1,3-Dichlorobenzene	8.38	146	1331306	113.93	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	1416656	113.23	ug/ml	100
12) Benzyl Alcohol	8.56	108	817052	119.04	ug/ml	97
13) 1,2-Dichlorobenzene	8.62	146	1292570	114.22	ug/ml	100
14) 2-Methylphenol	8.65	107	972071	115.96	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	1794506	109.64	ug/ml	97
16) 4-Methylphenol	8.80	107	1381820	113.68	ug/ml	99
17) n-Nitrosodipropylamine	8.82	70	787269	112.68	ug/ml	97
18) Hexachloroethane	8.95	117	539135	115.54	ug/ml	94
21) Nitrobenzene	9.03	77	1287270	112.71	ug/ml	97
22) Isophorone	9.25	82	1876280	102.53	ug/ml	99
23) 2-Nitrophenol	9.35	139	715175	120.77	ug/ml	95
24) 2,4-Dimethylphenol	9.34	122	1030962	112.17	ug/ml	97
25) bis(2-Chloroethoxy)methane	9.43	93	1344818	111.67	ug/ml	99

(#) = qualifier out of range (m) = manual integration
4M8528.D BNA.M Thu May 24 12:27:49 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8528.D Vial: 8
Acq On : 24 May 2001 12:04 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:27 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:09:16 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.44	122	569171	142.11	ug/ml	97
27)	2,4-Dichlorophenol	9.58	162	968566	115.20	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.67	180	1093683	117.32	ug/ml	99
29)	Naphthalene	9.76	128	3415150	107.51	ug/ml	99
30)	4-Chloroaniline	9.80	127	1527207	116.09	ug/ml	99
31)	Hexachlorobutadiene	9.86	225	635685	118.43	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	895726	106.46	ug/ml	98
33)	2-Methylnaphthalene	10.45	142	2162644	106.53	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	431055	194.86	ug/ml	99
36)	2,4,6-Trichlorophenol	10.74	196	608166	120.71	ug/ml	99
37)	2,4,5-Trichlorophenol	10.78	196	683099	120.91	ug/ml	100
39)	2-Chloronaphthalene	10.97	162	1991797	111.88	ug/ml	99
40)	2-Nitroaniline	11.07	65	678982	119.97	ug/ml	94
41)	Dimethylphthalate	11.21	163	2356919	123.71	ug/ml	99
42)	Acenaphthylene	11.40	152	2960786	110.81	ug/ml	99
43)	2,6-Dinitrotoluene	11.31	165	592417	133.87	ug/ml	95
44)	3-Nitroaniline	11.50	138	532349	114.01	ug/ml	100
45)	Acenaphthene	11.58	154	2005402	114.52	ug/ml	98
46)	2,4-Dinitrophenol	11.60	184	345606	170.96	ug/ml#	1
47)	4-Nitrophenol	11.62	65	490015	128.94	ug/ml	99
48)	Dibenzofuran	11.75	168	2848596	118.18	ug/ml	99
49)	2,4-Dinitrotoluene	11.73	165	812567	134.84	ug/ml#	90
50)	Diethylphthalate	11.91	149	2336505	125.26	ug/ml	99
51)	Fluorene	12.10	166	2368970	120.50	ug/ml	99
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	1171993	126.79	ug/ml	99
53)	4-Nitroaniline	12.14	138	531663	119.35	ug/ml	92
54)	1,2-Diphenylhydrazine	12.23	77	2439529	119.48	ug/ml	95
57)	4,6-Dinitro-2-Methylphenol	12.15	198	521273	133.42	ug/ml	92
58)	n-Nitrosodiphenylamine	12.19	169	1742595	116.31	ug/ml	99
59)	4-Bromophenyl Phenyl Ether	12.57	248	770651	126.32	ug/ml	97
60)	Hexachlorobenzene	12.69	284	932593	131.61	ug/ml	95
61)	Pentachlorophenol	12.88	266	441864	149.74	ug/ml	99
62)	Phenanthrene	13.10	178	3488338	109.45	ug/ml	99
63)	Anthracene	13.16	178	3561467	111.82	ug/ml	99
64)	Carbazole	13.31	167	2419762	98.41	ug/ml	100
65)	Di-n-Butyl Phthalate	13.56	149	3928040	109.47	ug/ml	99
66)	Fluoranthene	14.34	202	3839972	107.67	ug/ml	99
68)	Benzidine	14.43	184	812928	119.35	ug/ml	100
69)	Pyrene	14.58	202	3936007	110.30	ug/ml	98
71)	Butyl Benzyl Phthalate	15.11	149	1831249	113.43	ug/ml	97
72)	Benzo[a]anthracene	15.85	228	3817234	113.54	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8528.D Vial: 8
Acq On : 24 May 2001 12:04 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:27 2001 Quant Results File: BNA.RES

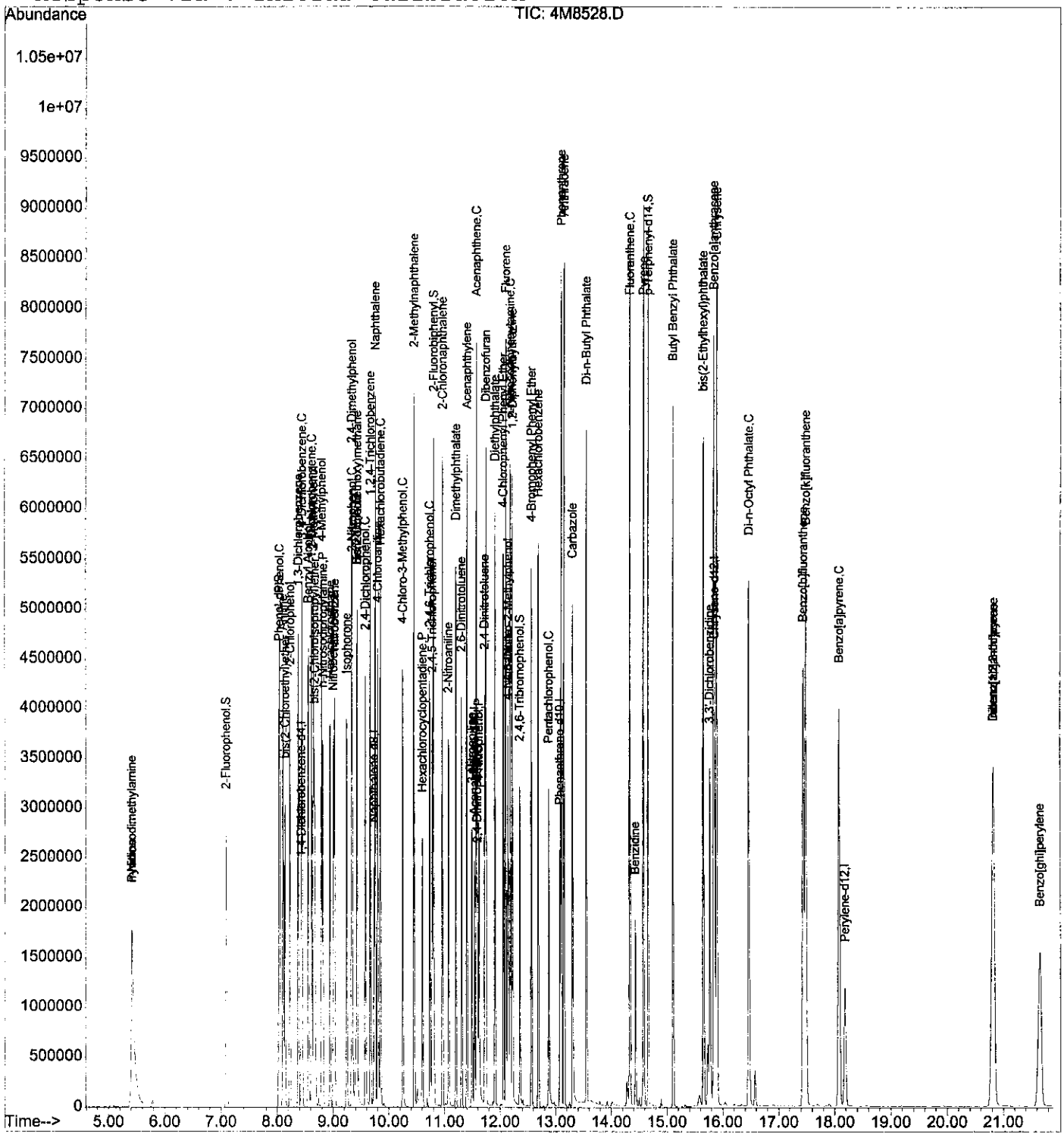
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:09:16 2001
Response via : Initial Calibration
DataAcq Meth : BNA

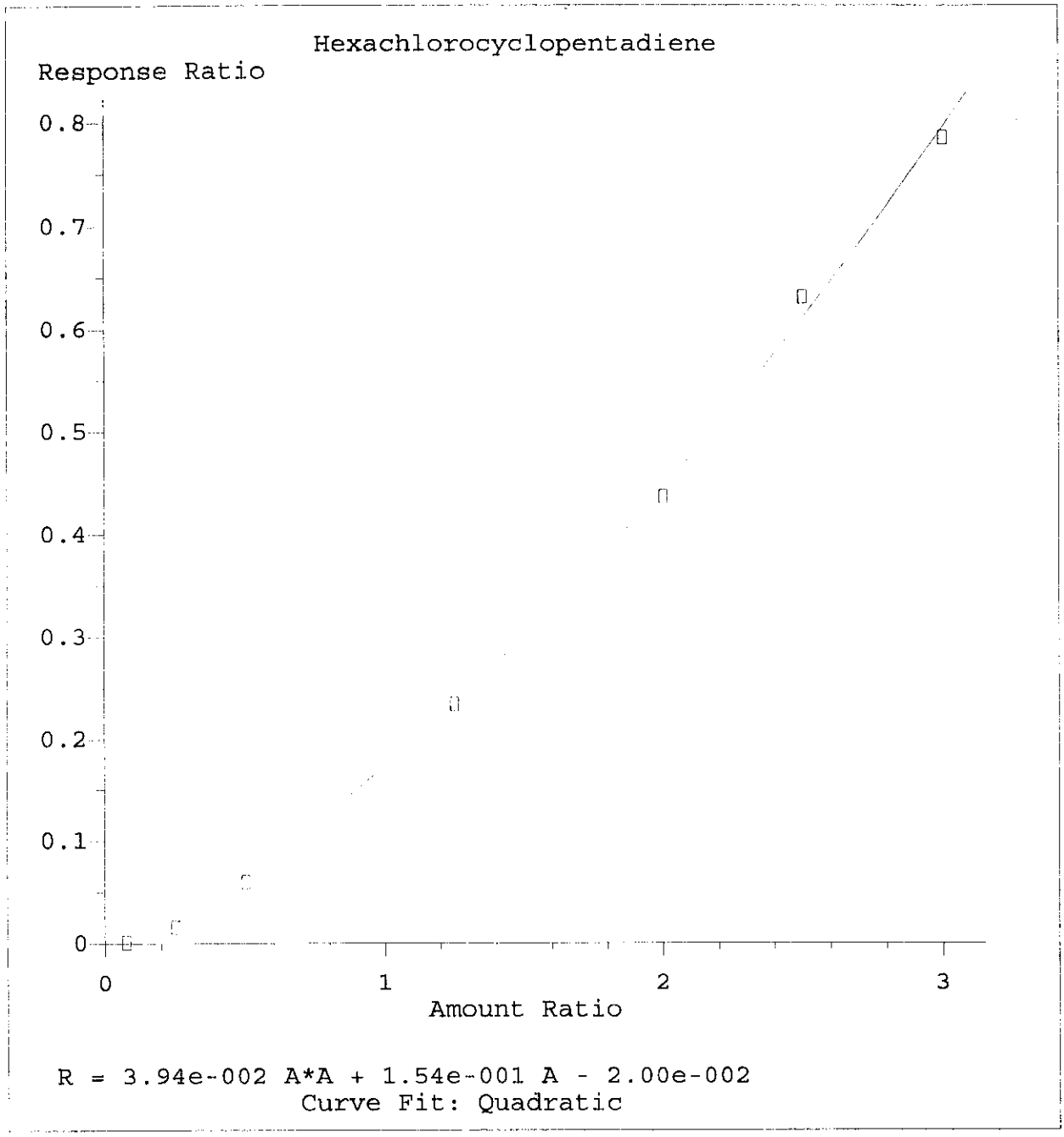
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	1060387	111.56	ug/ml	100
74)	Chrysene	15.90	228	3717380	111.74	ug/ml	98
75)	bis(2-Ethylhexyl)phthalate	15.66	149	2469987	113.85	ug/ml	98
77)	Di-n-Octyl Phthalate	16.47	149	4112455	123.59	ug/ml	97
78)	Benzo[b]fluoranthene	17.45	252	3592671	124.04	ug/ml	100
79)	Benzo[k]fluoranthene	17.49	252	3612147	123.52	ug/ml	99
80)	Benzo[a]pyrene	18.09	252	3177523	122.83	ug/ml	99
81)	Indeno[1,2,3-cd]pyrene	20.83	276	2906115	115.35	ug/ml#	100
82)	Dibenz[ah]anthracene	20.83	278	1946416	118.74	ug/ml	100
83)	Benzo[ghi]perylene	21.66	276	2219049	108.85	ug/ml	99

(#) = qualifier out of range (m) = manual integration

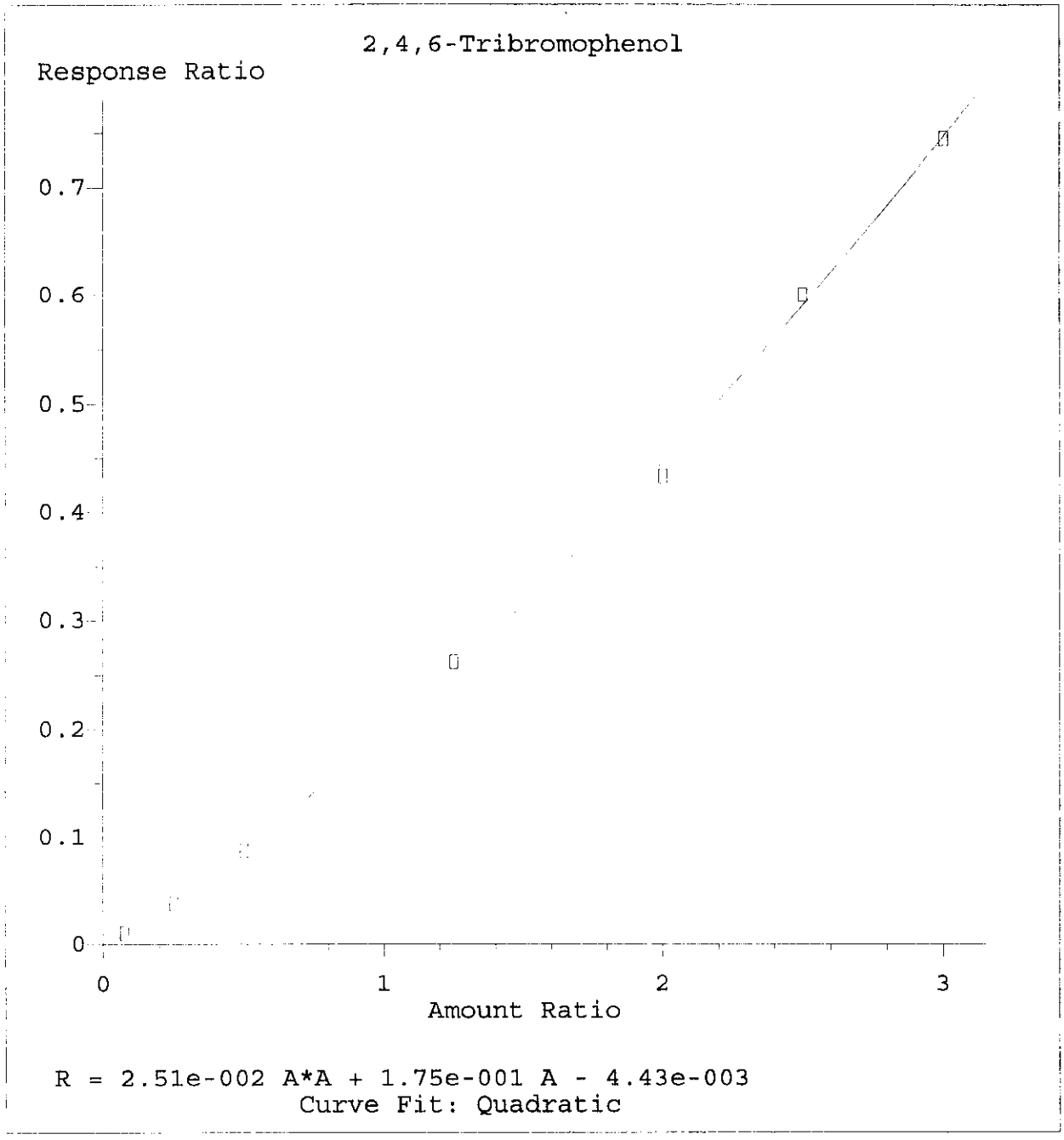
Data File : C:\HPCHEM\1\DATA\052401\4M8528.D Vial: 8
Acq On : 24 May 2001 12:04 Operator: mdc
Sample : 120PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:27 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:09:16 2001
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 12:28:13 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 12:28:56 2001

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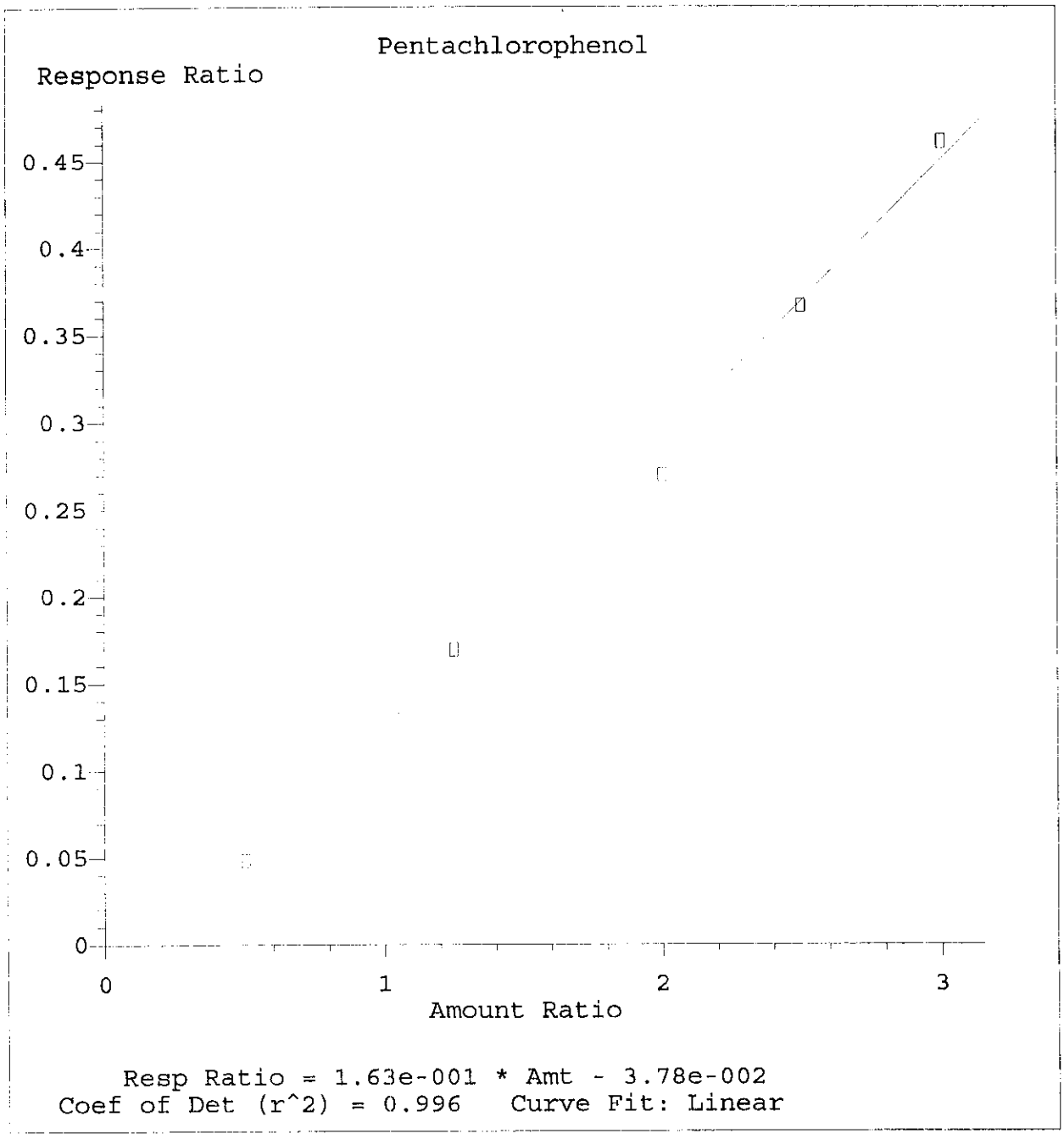
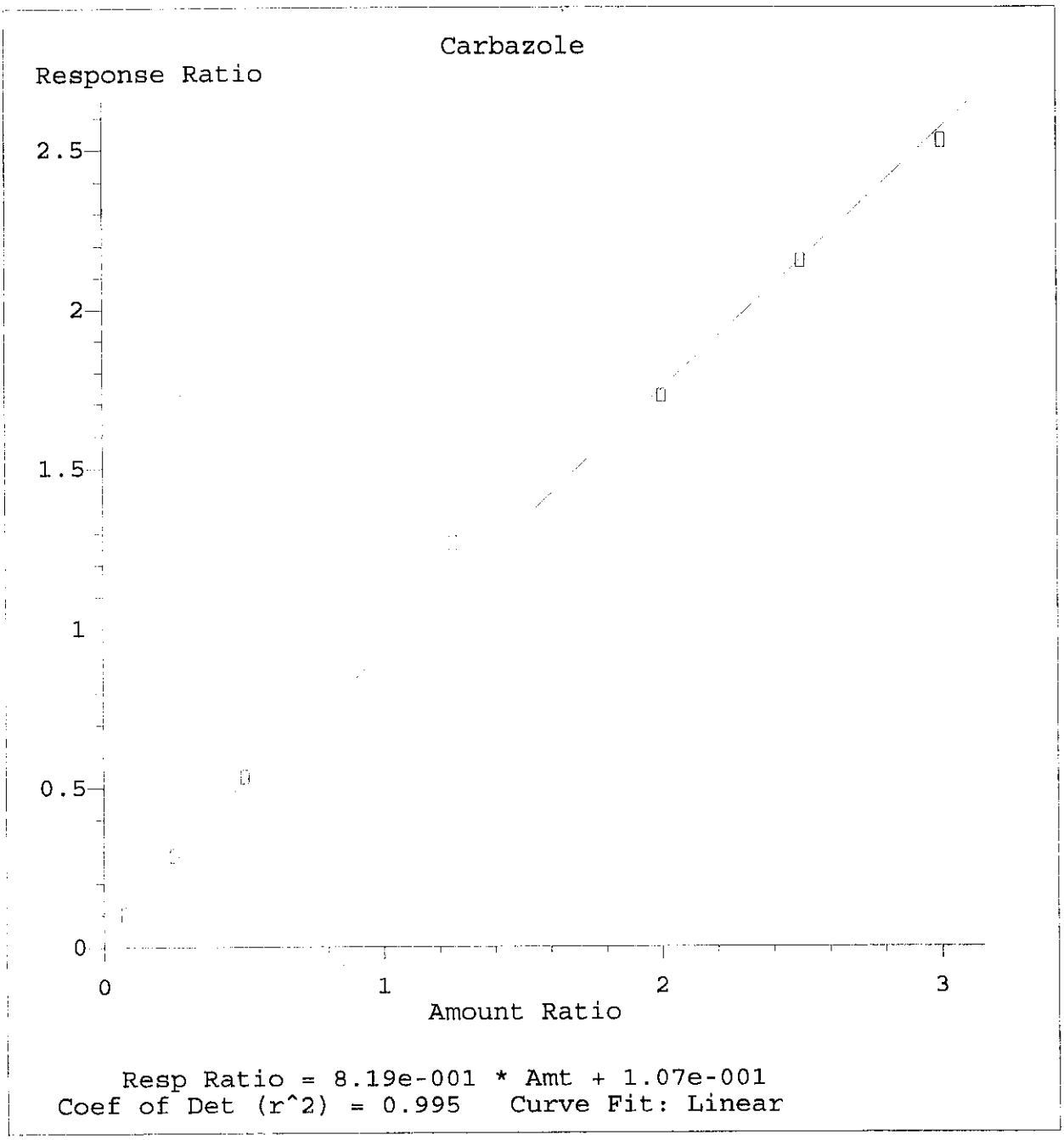


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 12:29:08 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 12:29:28 2001

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	288389	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1107817	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	570787	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	944761	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1021584	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	915863	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	486544	46.61	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 46.61%			
6) Phenol-d5	8.03	99	594896	47.06	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 47.06%			
20) Nitrobenzene-d5	9.01	82	536367	47.85	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 95.70%			
38) 2-Fluorobiphenyl	10.81	172	1039600	49.27	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 98.54%			
55) 2,4,6-Tribromophenol	12.36	330	131572	46.01	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 46.01%			
70) p-Terphenyl-d14	14.66	244	1341353	50.06	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 100.12%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	588213	48.27	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	320982	45.94	ug/ml	99
5) Aniline	8.11	66	291973	43.77	ug/ml	96
7) Phenol	8.04	94	611575	44.77	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	367064	46.30	ug/ml	96
9) 2-Chlorophenol	8.23	128	493251	44.96	ug/ml	100
10) 1,3-Dichlorobenzene	8.38	146	549157	45.46	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	591508	45.70	ug/ml	100
12) Benzyl Alcohol	8.56	108	326653	46.07	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	540376	46.18	ug/ml	99
14) 2-Methylphenol	8.65	107	401505	46.34	ug/ml	94
15) bis(2-Chloroisopropyl)ethe	8.67	45	689575	40.65	ug/ml#	72
16) 4-Methylphenol	8.79	107	568207	45.25	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	347721	48.14	ug/ml	100
18) Hexachloroethane	8.95	117	209435	43.34	ug/ml	98
21) Nitrobenzene	9.03	77	534205	45.97	ug/ml	99
22) Isophorone	9.24	82	961465	51.64	ug/ml	99
23) 2-Nitrophenol	9.35	139	281984	46.81	ug/ml	99
24) 2,4-Dimethylphenol	9.33	122	447176	47.92	ug/ml	100
25) bis(2-Chloroethoxy)methane	9.43	93	574358	46.84	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8529.D BNA.M Thu May 24 13:02:09 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\[illegible] Vial: 5
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:02 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.41	122	187894	43.77	ug/ml	98
27)	2,4-Dichlorophenol	9.58	162	384858	45.13	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.67	180	428014	45.12	ug/ml	98
29)	Naphthalene	9.76	128	1443973	44.70	ug/ml	100
30)	4-Chloroaniline	9.80	127	597007	44.62	ug/ml	100
31)	Hexachlorobutadiene	9.86	225	269167	49.23	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	394834	46.14	ug/ml	99
33)	2-Methylnaphthalene	10.45	142	943239	45.73	ug/ml	99
35)	Hexachlorocyclopentadiene	10.61	237	152579	55.19	ug/ml	99
36)	2,4,6-Trichlorophenol	10.74	196	247641	47.29	ug/ml	99
37)	2,4,5-Trichlorophenol	10.79	196	267004	45.43	ug/ml	100
39)	2-Chloronaphthalene	10.97	162	865604	46.70	ug/ml	100
40)	2-Nitroaniline	11.07	65	267507	45.13	ug/ml	99
41)	Dimethylphthalate	11.21	163	894218	44.95	ug/ml	100
42)	Acenaphthylene	11.40	152	1339102	48.11	ug/ml	100
43)	2,6-Dinitrotoluene	11.30	165	222246	48.02	ug/ml	99
44)	3-Nitroaniline	11.49	138	221647	45.53	ug/ml	100
45)	Acenaphthene	11.58	154	848687	46.52	ug/ml	100
46)	2,4-Dinitrophenol	11.60	184	96742	45.86	ug/ml#	1
47)	4-Nitrophenol	11.62	65	167076	42.25	ug/ml	93
48)	Dibenzofuran	11.74	168	1151457	45.78	ug/ml	99
49)	2,4-Dinitrotoluene	11.72	165	315748	50.15	ug/ml	98
50)	Diethylphthalate	11.91	149	933253	47.83	ug/ml	100
51)	Fluorene	12.10	166	927021	45.16	ug/ml	99
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	426958	44.27	ug/ml	100
53)	4-Nitroaniline	12.13	138	191316	41.37	ug/ml	95
54)	1,2-Diphenylhydrazine	12.22	77	978739	45.88	ug/ml	100
57)	4,6-Dinitro-2-Methylphenol	12.14	198	180136	46.72	ug/ml	99
58)	n-Nitrosodiphenylamine	12.18	169	667818	45.20	ug/ml	100
59)	4-Bromophenyl Phenyl Ether	12.56	248	241873	40.10	ug/ml	99
60)	Hexachlorobenzene	12.69	284	320762	45.68	ug/ml	99
61)	Pentachlorophenol	12.88	266	133354	44.02	ug/ml	100
62)	Phenanthrene	13.10	178	1417487	44.99	ug/ml	100
63)	Anthracene	13.15	178	1470618	46.68	ug/ml	99
64)	Carbazole	13.31	167	936814	43.18	ug/ml	99
65)	Di-n-Butyl Phthalate	13.55	149	1638770	46.19	ug/ml	100
66)	Fluoranthene	14.33	202	1567145	44.47	ug/ml	99
68)	Benzidine	14.43	184	295035	45.47	ug/ml	100
69)	Pyrene	14.58	202	1624411	46.32	ug/ml	100
71)	Butyl Benzyl Phthalate	15.11	149	753029	47.39	ug/ml	100
72)	Benzo[a]anthracene	15.84	228	1483323	44.99	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8529.D BNA.M Thu May 24 13:02:10 2001 HPMS4 Page 2

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:02 2001 Quant Results File: BNA.RES

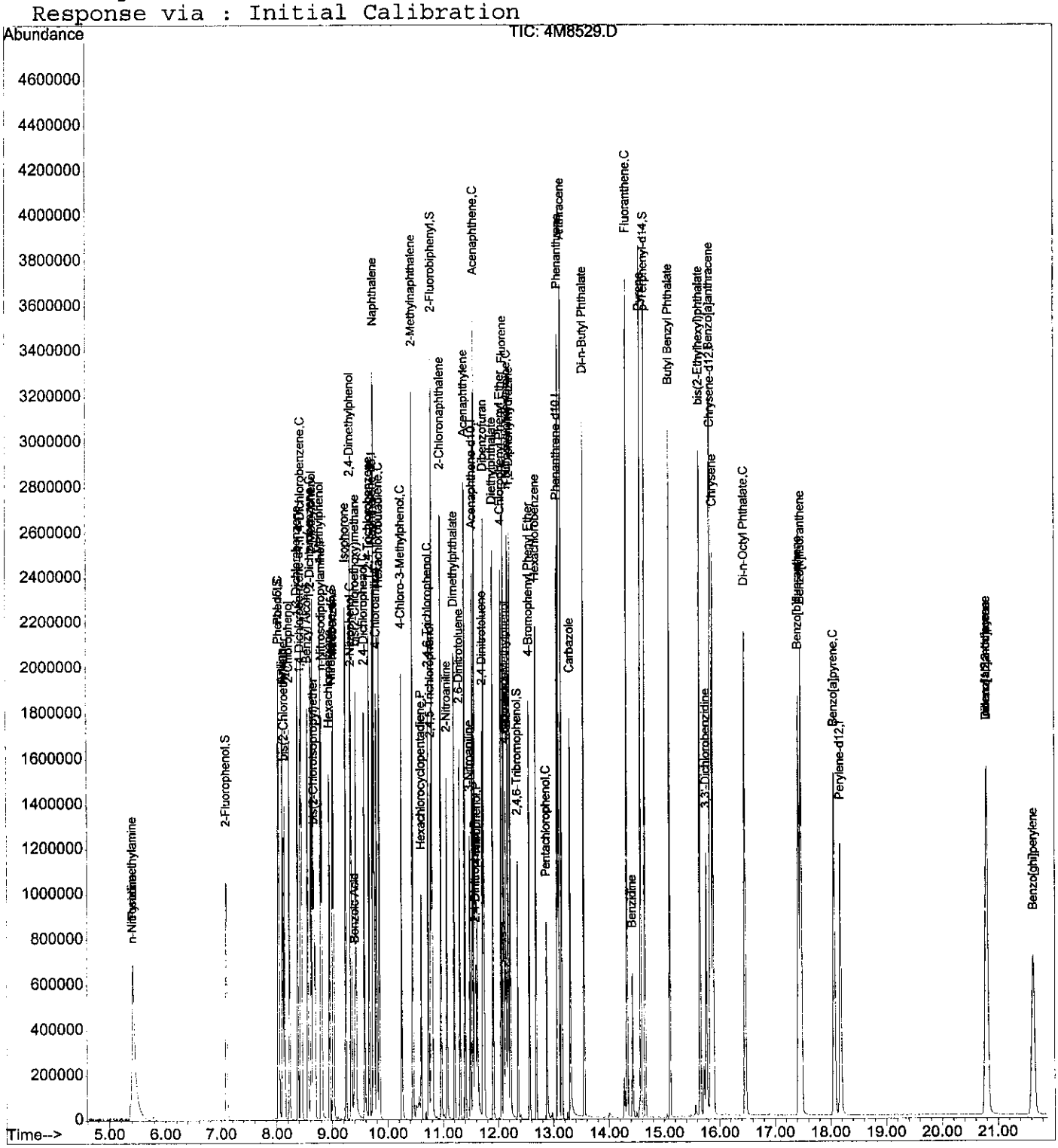
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	358035	38.38	ug/ml	99
74)	Chrysene	15.89	228	1080774	33.09	ug/ml	99
75)	bis(2-Ethylhexyl)phthalate	15.65	149	996947	46.76	ug/ml	100
77)	Di-n-Octyl Phthalate	16.47	149	1619719	47.00	ug/ml	100
78)	Benzo[b]fluoranthene	17.43	252	1333913	44.59	ug/ml	100
79)	Benzo[k]fluoranthene	17.48	252	1415091	46.98	ug/ml	100
80)	Benzo[a]pyrene	18.07	252	1191637	44.72	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.80	276	1240404	47.84	ug/ml#	99
82)	Dibenz[ah]anthracene	20.80	278	908765	53.84	ug/ml	100
83)	Benzo[ghi]perylene	21.64	276	1005287	47.86	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:02 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	110	0.00
2		Pyridine	50.000	48.268	3.5	97	0.00
3		n-Nitrosodimethylamine	50.000	45.935	8.1	97	0.00
4	S	2-Fluorophenol	50.000	46.605	6.8	98	0.00
5		Aniline	50.000	43.765	12.5	94	0.00
6	S	Phenol-d5	50.000	47.056	5.9	98	0.00
7	C	Phenol	50.000	44.766	10.5	94	0.00
8		bis(2-Chloroethyl)ether	50.000	46.304	7.4	98	0.00
9		2-Chlorophenol	50.000	44.962	10.1	95	0.00
10		1,3-Dichlorobenzene	50.000	45.456	9.1	97	0.00
11	C	1,4-Dichlorobenzene	50.000	45.695	8.6	98	0.00
12		Benzyl Alcohol	50.000	46.067	7.9	96	0.00
13	C	1,2-Dichlorobenzene	50.000	46.179	7.6	99	0.00
14		2-Methylphenol	50.000	46.343	7.3	98	0.00
15		bis(2-Chloroisopropyl)ether	50.000	40.651	18.7	86	0.00
16		4-Methylphenol	50.000	45.246	9.5	95	0.00
17	P	n-Nitrosodipropylamine	50.000	48.139	3.7	100	0.00
18		Hexachloroethane	50.000	43.343	13.3	91	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	109	0.00
20	S	Nitrobenzene-d5	50.000	47.854	4.3	100	0.00
21		Nitrobenzene	50.000	45.975	8.0	96	0.00
22		Isophorone	50.000	51.636	-3.3	107	0.00
23	C	2-Nitrophenol	50.000	46.805	6.4	97	0.00
24		2,4-Dimethylphenol	50.000	47.916	4.2	100	0.00
25		bis(2-Chloroethoxy)methane	50.000	46.837	6.3	99	0.00
26		Benzoic Acid	50.000	43.767	12.5	91	0.00
27	C	2,4-Dichlorophenol	50.000	45.127	9.7	94	0.00
28		1,2,4-Trichlorobenzene	50.000	45.122	9.8	96	0.00
29		Naphthalene	50.000	44.699	10.6	95	0.00
30		4-Chloroaniline	50.000	44.617	10.8	93	0.00
31	C	Hexachlorobutadiene	50.000	49.228	1.5	106	0.00
32	C	4-Chloro-3-Methylphenol	50.000	46.140	7.7	95	0.00
33		2-Methylnaphthalene	50.000	45.731	8.5	97	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	109	0.00
35	P	Hexachlorocyclopentadiene	50.000	55.185	-10.4	124	0.00
36	C	2,4,6-Trichlorophenol	50.000	47.292	5.4	94	0.00
37		2,4,5-Trichlorophenol	50.000	45.429	9.1	93	0.00
38	S	2-Fluorobiphenyl	50.000	49.274	1.5	101	0.00
39		2-Chloronaphthalene	50.000	46.697	6.6	97	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	45.133	9.7	95	0.00
41		Dimethylphthalate	50.000	44.953	10.1	94	0.00
42		Acenaphthylene	50.000	48.112	3.8	100	0.00
43		2,6-Dinitrotoluene	50.000	48.020	4.0	98	0.00
44		3-Nitroaniline	50.000	45.529	8.9	91	0.00
45	C	Acenaphthene	50.000	46.520	7.0	98	0.00
46	P	2,4-Dinitrophenol	50.000	45.862	8.3	92	0.00
47	P	4-Nitrophenol	50.000	42.248	15.5	90	0.00
48		Dibenzofuran	50.000	45.783	8.4	98	0.00
49		2,4-Dinitrotoluene	50.000	50.151	-0.3	101	0.00
50		Diethylphthalate	50.000	47.827	4.3	98	0.00
51		Fluorene	50.000	45.162	9.7	95	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	44.271	11.5	93	0.00
53		4-Nitroaniline	50.000	41.374	17.3	85	0.00
54		1,2-Diphenylhydrazine	50.000	45.876	8.2	94	0.00
55	S	2,4,6-Tribromophenol	50.000	46.008	8.0	95	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	109	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	46.716	6.6	100	0.00
58	C	n-Nitrosodiphenylamine	50.000	45.200	9.6	94	0.00
59		4-Bromophenyl Phenyl Ether	50.000	40.103	19.8	86	0.00
60		Hexachlorobenzene	50.000	45.676	8.6	98	0.00
61	C	Pentachlorophenol	50.000	44.020	12.0	91	0.00
62		Phenanthrene	50.000	44.992	10.0	94	0.00
63		Anthracene	50.000	46.685	6.6	98	0.00
64		Carbazole	50.000	43.181	13.6	85	0.00
65		Di-n-Butyl Phthalate	50.000	46.193	7.6	95	0.00
66	C	Fluoranthene	50.000	44.467	11.1	93	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	107	0.00
68		Benzidine	50.000	45.470	9.1	112	0.00
69		Pyrene	50.000	46.321	7.4	94	0.00
70	S	p-Terphenyl-d14	50.000	50.061	-0.1	103	0.00
71		Butyl Benzyl Phthalate	50.000	47.392	5.2	97	0.00
72		Benzo[a]anthracene	50.000	44.993	10.0	94	0.00
73		3,3'-Dichlorobenzidine	50.000	38.383	23.2	91	0.00
74		Chrysene	50.000	33.090	33.8	70	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	46.764	6.5	95	0.00
76	I	Perylene-d12	40.000	40.000	0.0	109	0.00
77	C	Di-n-Octyl Phthalate	50.000	46.995	6.0	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	44.588	10.8	93	0.00
79		Benzo[k]fluoranthene	50.000	46.976	6.0	98	0.00
80	C	Benzo[a]pyrene	50.000	44.724	10.6	93	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	47.844	4.3	96	0.00
82		Dibenz[ah]anthracene	50.000	53.836	-7.7	109	0.00
83		Benzo[ghi]perylene	50.000	47.857	4.3	95	0.00

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
2		Pyridine	1.690	1.632	3.4	97	0.00
3		n-Nitrosodimethylamine	0.969	0.890	8.2	97	0.00
4	S	2-Fluorophenol	1.448	1.350	6.8	98	0.00
5		Aniline	0.925	0.810	12.4	94	0.00
6	S	Phenol-d5	1.753	1.650	5.9	98	0.00
7	C	Phenol	1.895	1.697	10.4	94	0.00
8		bis(2-Chloroethyl)ether	1.100	1.018	7.5	98	0.00
9		2-Chlorophenol	1.522	1.368	10.1	95	0.00
10		1,3-Dichlorobenzene	1.676	1.523	9.1	97	0.00
11	C	1,4-Dichlorobenzene	1.795	1.641	8.6	98	0.00
12		Benzyl Alcohol	0.983	0.906	7.8	96	0.00
13	C	1,2-Dichlorobenzene	1.623	1.499	7.6	99	0.00
14		2-Methylphenol	1.202	1.114	7.3	98	0.00
15		bis(2-Chloroisopropyl)ether	2.353	1.913	18.7	86	0.00
16		4-Methylphenol	1.742	1.576	9.5	95	0.00
17	P	n-Nitrosodipropylamine	1.002	0.965	3.7	100	0.00
18		Hexachloroethane	0.670	0.581	13.3	91	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
20	S	Nitrobenzene-d5	0.405	0.387	4.4	100	0.00
21		Nitrobenzene	0.420	0.386	8.1	96	0.00
22		Isophorone	0.672	0.694	-3.3	107	0.00
23	C	2-Nitrophenol	0.218	0.204	6.4	97	0.00
24		2,4-Dimethylphenol	0.337	0.323	4.2	100	0.00
25		bis(2-Chloroethoxy)methane	0.443	0.415	6.3	99	0.00
26		Benzoic Acid	0.155	0.136	12.3	91	0.00
27	C	2,4-Dichlorophenol	0.308	0.278	9.7	94	0.00
28		1,2,4-Trichlorobenzene	0.343	0.309	9.9	96	0.00
29		Naphthalene	1.166	1.043	10.5	95	0.00
30		4-Chloroaniline	0.483	0.431	10.8	93	0.00
31	C	Hexachlorobutadiene	0.197	0.194	1.5	106	0.00
32	C	4-Chloro-3-Methylphenol	0.309	0.285	7.8	95	0.00
33		2-Methylnaphthalene	0.745	0.681	8.6	97	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
35	P	Hexachlorocyclopentadiene	0.160	0.214	-33.8	124	0.00
36	C	2,4,6-Trichlorophenol	0.367	0.347	5.4	94	0.00
37		2,4,5-Trichlorophenol	0.412	0.374	9.2	93	0.00
38	S	2-Fluorobiphenyl	1.479	1.457	1.5	101	0.00
39		2-Chloronaphthalene	1.299	1.213	6.6	97	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.415	0.375	9.6	95	0.00
41		Dimethylphthalate	1.394	1.253	10.1	94	0.00
42		Acenaphthylene	1.950	1.877	3.7	100	0.00
43		2,6-Dinitrotoluene	0.324	0.311	4.0	98	0.00
44		3-Nitroaniline	0.341	0.311	8.8	91	0.00
45	C	Acenaphthene	1.278	1.189	7.0	98	0.00
46	P	2,4-Dinitrophenol	0.147	0.136	7.5	92	0.00
47	P	4-Nitrophenol	0.277	0.234	15.5	90	0.00
48		Dibenzofuran	1.763	1.614	8.5	98	0.00
49		2,4-Dinitrotoluene	0.441	0.443	-0.5	101	0.00
50		Diethylphthalate	1.367	1.308	4.3	98	0.00
51		Fluorene	1.438	1.299	9.7	95	0.00
52		4-Chlorophenyl Phenyl Ether	0.676	0.598	11.5	93	0.00
53		4-Nitroaniline	0.324	0.268	17.3	85	0.00
54		1,2-Diphenylhydrazine	1.495	1.372	8.2	94	0.00
55	S	2,4,6-Tribromophenol	0.198	0.184	7.1	95	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
57		4,6-Dinitro-2-Methylphenol	0.163	0.153	6.1	100	0.00
58	C	n-Nitrosodiphenylamine	0.626	0.565	9.7	94	0.00
59		4-Bromophenyl Phenyl Ether	0.255	0.205	19.6	86	0.00
60		Hexachlorobenzene	0.297	0.272	8.4	98	0.00
61	C	Pentachlorophenol	0.133	0.113	15.0	91	0.00
62		Phenanthrene	1.334	1.200	10.0	94	0.00
63		Anthracene	1.334	1.245	6.7	98	0.00
64		Carbazole	1.026	0.793	22.7	85	0.00
65		Di-n-Butyl Phthalate	1.502	1.388	7.6	95	0.00
66	C	Fluoranthene	1.492	1.327	11.1	93	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
68		Benzidine	0.254	0.231	9.1	112	0.00
69		Pyrene	1.373	1.272	7.4	94	0.00
70	S	p-Terphenyl-d14	1.049	1.050	-0.1	103	0.00
71		Butyl Benzyl Phthalate	0.622	0.590	5.1	97	0.00
72		Benzo[a]anthracene	1.291	1.162	10.0	94	0.00
73		3,3'-Dichlorobenzidine	0.365	0.280	23.3	91	0.00
74		Chrysene	1.279	0.846	33.9	70	0.00
75		bis(2-Ethylhexyl)phthalate	0.835	0.781	6.5	95	0.00
76	I	Perylene-d12	1.000	1.000	0.0	109	0.00
77	C	Di-n-Octyl Phthalate	1.505	1.415	6.0	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8529.D Vial: 9
Acq On : 24 May 2001 12:40 Operator: mdc
Sample : 50PPM Alt source BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.307	1.165	10.9	93	0.00
79		Benzo[k]fluoranthene	1.316	1.236	6.1	98	0.00
80	C	Benzo[a]pyrene	1.164	1.041	10.6	93	0.00
81		Indeno[1,2,3-cd]pyrene	1.132	1.083	4.3	96	0.00
82		Dibenz[ah]anthracene	0.737	0.794	-7.7	109	0.00
83		Benzo[ghi]perylene	0.917	0.878	4.3	95	0.00

Continuing calibration Area and RT check

Instrument: HPMS7
Initial cal date: 21 May 2001 18:14
CCV date: 22 May 2001 11:47
CCV filename: 7M13020.D

	Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT
InitCal	449212	6.56	229149	8.34
CCV	447812	6.55	236481	8.34

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	370678	9.90	339209	12.71	274829	15.23
CCV	380041	9.90	327443	12.71	258448	15.23

700

Data File : C:\MSDCHEM\1\DATA\052201\7M13020.D
Acq On : 22 May 2001 11:47
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
2	S	Nitrobenzene-d5	1.000	1.015	-1.5	97	0.00
3		Naphthalene	1.000	0.987	1.3	99	0.00
4		2-Methylnaphthalene	1.000	1.027	-2.7	102	0.00
5		1-Methylnaphthalene	1.000	1.008	-0.8	102	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
7	S	2-Fluorobiphenyl	1.000	0.997	0.3	103	0.00
8		Acenaphthylene	1.000	0.979	2.1	100	0.00
9	C	Acenaphthene	1.000	0.973	2.7	101	0.00
10		Fluorene	1.000	1.024	-2.4	104	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
12		Phenanthrene	1.000	1.004	-0.4	105	0.00
13		Anthracene	1.000	1.068	-6.8	103	0.00
14	C	Fluoranthene	1.000	1.034	-3.4	103	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	97	0.00
16		Pyrene	1.000	1.099	-9.9	104	0.00
17	S	p-Terphenyl-d14	1.000	1.091	-9.1	104	0.00
18		Benzo[a]anthracene	1.000	1.046	-4.6	96	0.00
19		Chrysene	1.000	0.985	1.5	96	0.00
20	I	Perylene-d12	1.000	1.000	0.0	94	-0.01
21		Benzo[b]fluoranthene	1.000	0.972	2.8	91	0.00
22		Benzo[k]fluoranthene	1.000	1.005	-0.5	97	0.00
23	C	Benzo[a]pyrene	1.000	1.022	-2.2	96	0.00
24		Indeno[1,2,3-cd]pyrene	1.000	0.916	8.4	88	-0.02
25		Dibenz[ah]anthracene	1.000	0.894	10.6	85	-0.01
26		Benzo[ghi]perylene	1.000	0.958	4.2	86	-0.02

Data File : C:\MSDCHEM\1\DATA\052201\7M13020.D
Acq On : 22 May 2001 11:47
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
2	S	Nitrobenzene-d5	0.283	0.314	-11.0	97	0.00
3		Naphthalene	1.119	1.105	1.3	99	0.00
4		2-Methylnaphthalene	0.710	0.729	-2.7	102	0.00
5		1-Methylnaphthalene	0.687	0.692	-0.7	102	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
7	S	2-Fluorobiphenyl	1.471	1.467	0.3	103	0.00
8		Acenaphthylene	1.739	1.871	-7.6	100	0.00
9	C	Acenaphthene	1.272	1.237	2.8	101	0.00
10		Fluorene	1.378	1.412	-2.5	104	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
12		Phenanthrene	1.286	1.291	-0.4	105	0.00
13		Anthracene	1.099	1.174	-6.8	103	0.00
14	C	Fluoranthene	1.334	1.380	-3.4	103	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	97	0.00
16		Pyrene	1.536	1.687	-9.8	104	0.00
17	S	p-Terphenyl-d14	1.088	1.187	-9.1	104	0.00
18		Benzo[a]anthracene	1.260	1.318	-4.6	96	0.00
19		Chrysene	1.404	1.383	1.5	96	0.00
20	I	Perylene-d12	1.000	1.000	0.0	94	-0.01
21		Benzo[b]fluoranthene	1.667	1.621	2.8	91	0.00
22		Benzo[k]fluoranthene	1.621	1.629	-0.5	97	0.00
23	C	Benzo[a]pyrene	1.304	1.332	-2.1	96	0.00
24		Indeno[1,2,3-cd]pyrene	1.493	1.506	-0.9	88	-0.02
25		Dibenz[ah]anthracene	1.217	1.167	4.1	85	-0.01
26		Benzo[ghi]perylene	1.368	1.310	4.2	86	-0.02

Data File : C:\MSDCHEM\1\DATA\052201\7M13020.D Vial: 2
Acq On : 22 May 2001 11:47 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 12:25:12 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	447812	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	236481	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	380041	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	327443	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	258448	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	140514	1.01	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 40.40%			
7) 2-Fluorobiphenyl	7.60	172	346819	1.00	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 40.00%#			
17) p-Terphenyl-d14	11.45	244	388551	1.09	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 43.60%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	494645	0.99	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	326308	1.03	ug/ml	98
5) 1-Methylnaphthalene	7.37	142	309839	1.01	ug/ml	99
8) Acenaphthylene	8.21	152	442395	0.98	ug/ml	99
9) Acenaphthene	8.38	154	292615	0.97	ug/ml	99
10) Fluorene	8.89	166	333806	1.02	ug/ml	100
12) Phenanthrene	9.90	178	490627	1.00	ug/ml	99
13) Anthracene	9.95	178	446063	1.07	ug/ml	99
14) Fluoranthene	11.13	202	524314	1.03	ug/ml	99
16) Pyrene	11.38	202	552361	1.10	ug/ml	98
18) Benzo[a]anthracene	12.69	228	431677	1.05	ug/ml	99
19) Chrysene	12.75	228	452694	0.98	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	418856	0.97	ug/ml	99
22) Benzo[k]fluoranthene	14.45	252	421105	1.01	ug/ml	99
23) Benzo[a]pyrene	15.10	252	344364	1.02	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.03	276	389191	0.92	ug/ml#	99
25) Dibenz[ah]anthracene	18.04	278	301734	0.89	ug/ml	99
26) Benzo[ghi]perylene	18.93	276	338687	0.96	ug/ml	99

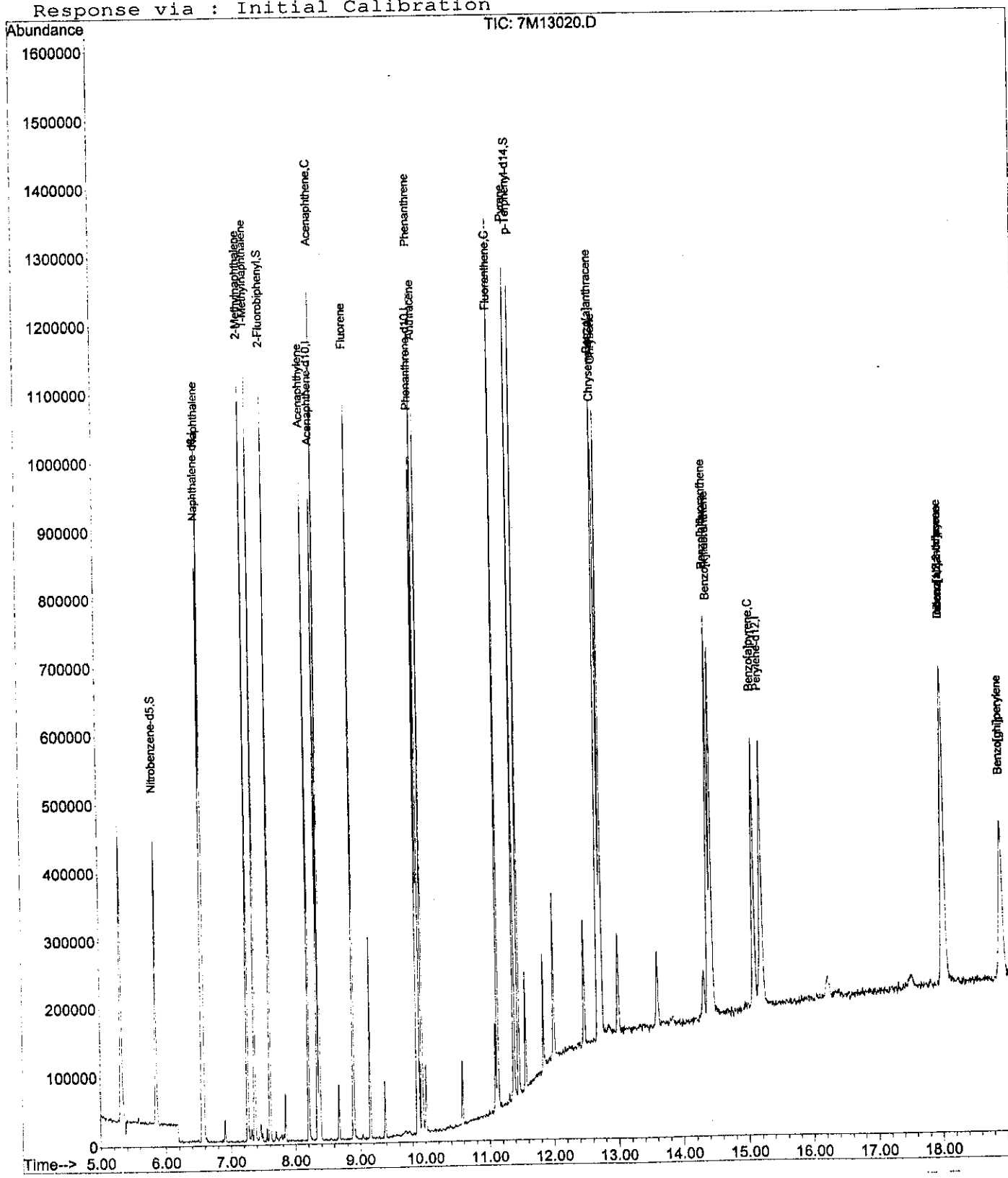
(#) = qualifier out of range (m) = manual integration
7M13020.D PAHLOW.M Tue May 22 12:25:46 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052201\7M13020.D
Acq On : 22 May 2001 11:47
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 12:25 2001

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



7M13020.D PAHLOW.M Tue May 22 12:25:47 2001 Page 2

Continuing calibration Area and RT check

Instrument: HPMS4
Initial cal date: 22 May 2001 10:48
CCV date: 22 May 2001 15:18
CCV filename: 4M8473.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	302783	8.43	1167232	9.74	598100	11.54
CCV	298056	8.43	1148236	9.74	587646	11.54

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	998035	13.08	1141862	15.87	1072793	18.19
CCV	979686	13.08	1101781	15.87	1038106	18.19

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00
2		Pyridine	50.000	50.284	-0.6	98	0.00
3		n-Nitrosodimethylamine	50.000	49.666	0.7	98	0.00
4	S	2-Fluorophenol	50.000	49.648	0.7	98	0.00
5		Aniline	50.000	48.838	2.3	97	0.00
6	S	Phenol-d5	50.000	49.841	0.3	98	0.00
7	C	Phenol	50.000	49.613	0.8	97	0.00
8		bis(2-Chloroethyl)ether	50.000	49.721	0.6	99	0.00
9		2-Chlorophenol	50.000	49.673	0.7	98	0.00
10		1,3-Dichlorobenzene	50.000	49.465	1.1	99	0.00
11	C	1,4-Dichlorobenzene	50.000	49.321	1.4	98	0.00
12		Benzyl Alcohol	50.000	50.411	-0.8	97	0.00
13	C	1,2-Dichlorobenzene	50.000	49.331	1.3	98	0.00
14		2-Methylphenol	50.000	49.494	1.0	98	0.00
15		bis(2-Chloroisopropyl)ether	50.000	50.044	-0.1	99	0.00
16		4-Methylphenol	50.000	50.277	-0.6	98	0.00
17	P	n-Nitrosodipropylamine	50.000	49.712	0.6	97	0.00
18		Hexachloroethane	50.000	49.674	0.7	99	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	98	0.00
20	S	Nitrobenzene-d5	50.000	50.117	-0.2	98	0.00
21		Nitrobenzene	50.000	50.118	-0.2	98	0.00
22		Isophorone	50.000	50.694	-1.4	98	0.00
23	C	2-Nitrophenol	50.000	51.314	-2.6	98	0.00
24		2,4-Dimethylphenol	50.000	50.405	-0.8	98	0.00
25		bis(2-Chloroethoxy)methane	50.000	49.974	0.1	98	0.00
26		Benzoic Acid	50.000	51.030	-2.1	96	0.00
27	C	2,4-Dichlorophenol	50.000	50.794	-1.6	98	0.00
28		1,2,4-Trichlorobenzene	50.000	49.540	0.9	97	0.00
29		Naphthalene	50.000	49.833	0.3	97	0.00
30		4-Chloroaniline	50.000	50.309	-0.6	99	0.00
31	C	Hexachlorobutadiene	50.000	49.353	1.3	99	0.00
32	C	4-Chloro-3-Methylphenol	50.000	50.733	-1.5	98	0.00
33		2-Methylnaphthalene	50.000	49.599	0.8	98	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	98	0.00
35	P	Hexachlorocyclopentadiene	50.000	52.585	-5.2	107	0.00
36	C	2,4,6-Trichlorophenol	50.000	51.491	-3.0	96	0.00
37		2,4,5-Trichlorophenol	50.000	51.567	-3.1	98	0.00
38	S	2-Fluorobiphenyl	50.000	51.170	-2.3	98	0.00
39		2-Chloronaphthalene	50.000	50.893	-1.8	98	0.00

(#)=Out of Range
4M8473.D BNA.M Wed May 23 08:36:05 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	50.490	-1.0	98	0.00
41		Dimethylphthalate	50.000	50.014	-0.0	96	0.00
42		Acenaphthylene	50.000	50.291	-0.6	98	0.00
43		2,6-Dinitrotoluene	50.000	51.752	-3.5	98	0.00
44		3-Nitroaniline	50.000	54.231	-8.5	102	0.00
45	C	Acenaphthene	50.000	49.779	0.4	98	0.00
46	P	2,4-Dinitrophenol	50.000	48.171	3.7	96	0.00
47	P	4-Nitrophenol	50.000	50.163	-0.3	98	0.00
48		Dibenzofuran	50.000	49.218	1.6	98	0.00
49		2,4-Dinitrotoluene	50.000	53.478	-7.0	98	0.00
50		Diethylphthalate	50.000	51.890	-3.8	98	0.00
51		Fluorene	50.000	50.442	-0.9	98	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	50.153	-0.3	98	0.00
53		4-Nitroaniline	50.000	47.843	4.3	93	0.00
54		1,2-Diphenylhydrazine	50.000	51.379	-2.8	98	0.00
55	S	2,4,6-Tribromophenol	50.000	46.444	7.1	98	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	98	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	49.748	0.5	98	0.00
58	C	n-Nitrosodiphenylamine	50.000	50.729	-1.5	98	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.128	-0.3	99	0.00
60		Hexachlorobenzene	50.000	49.577	0.8	97	0.00
61	C	Pentachlorophenol	50.000	49.605	0.8	99	0.00
62		Phenanthrene	50.000	49.937	0.1	98	0.00
63		Anthracene	50.000	50.037	-0.1	97	0.00
64		Carbazole	50.000	52.227	-4.5	96	0.00
65		Di-n-Butyl Phthalate	50.000	50.053	-0.1	97	0.00
66	C	Fluoranthene	50.000	50.119	-0.2	97	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	96	0.00
68		Benzidine	50.000	49.735	0.5	117	0.00
69		Pyrene	50.000	50.671	-1.3	97	0.00
70	S	p-Terphenyl-d14	50.000	50.586	-1.2	97	0.00
71		Butyl Benzyl Phthalate	50.000	50.271	-0.5	97	0.00
72		Benzo[a]anthracene	50.000	49.508	1.0	97	0.00
73		3,3'-Dichlorobenzidine	50.000	52.408	-4.8	104	0.00
74		Chrysene	50.000	49.389	1.2	97	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	49.709	0.6	97	0.00
76	I	Perylene-d12	40.000	40.000	0.0	97	0.00
77	C	Di-n-Octyl Phthalate	50.000	50.000	0.0	96	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	48.409	3.2	91	0.00
79		Benzo[k]fluoranthene	50.000	51.096	-2.2	101	0.00
80	C	Benzo[a]pyrene	50.000	49.949	0.1	96	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	50.964	-1.9	97	0.00
82		Dibenz[ah]anthracene	50.000	50.972	-1.9	96	0.00
83		Benzo[ghi]perylene	50.000	50.287	-0.6	96	0.00

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
2		Pyridine	1.712	1.722	-0.6	98	0.00
3		n-Nitrosodimethylamine	0.956	0.949	0.7	98	0.00
4	S	2-Fluorophenol	1.439	1.429	0.7	98	0.00
5		Aniline	0.909	0.888	2.3	97	0.00
6	S	Phenol-d5	1.756	1.751	0.3	98	0.00
7	C	Phenol	1.888	1.874	0.7	97	0.00
8		bis(2-Chloroethyl)ether	1.074	1.068	0.6	99	0.00
9		2-Chlorophenol	1.511	1.501	0.7	98	0.00
10		1,3-Dichlorobenzene	1.666	1.648	1.1	99	0.00
11	C	1,4-Dichlorobenzene	1.777	1.753	1.4	98	0.00
12		Benzyl Alcohol	0.986	0.994	-0.8	97	0.00
13	C	1,2-Dichlorobenzene	1.605	1.583	1.4	98	0.00
14		2-Methylphenol	1.206	1.194	1.0	98	0.00
15		bis(2-Chloroisopropyl)ether	2.276	2.278	-0.1	99	0.00
16		4-Methylphenol	1.746	1.755	-0.5	98	0.00
17	P	n-Nitrosodipropylamine	0.987	0.981	0.6	97	0.00
18		Hexachloroethane	0.650	0.646	0.6	99	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
20	S	Nitrobenzene-d5	0.401	0.402	-0.2	98	0.00
21		Nitrobenzene	0.412	0.413	-0.2	98	0.00
22		Isophorone	0.652	0.661	-1.4	98	0.00
23	C	2-Nitrophenol	0.217	0.223	-2.8	98	0.00
24		2,4-Dimethylphenol	0.339	0.342	-0.9	98	0.00
25		bis(2-Chloroethoxy)methane	0.437	0.437	0.0	98	0.00
26		Benzoic Acid	0.161	0.164	-1.9	96	0.00
27	C	2,4-Dichlorophenol	0.305	0.310	-1.6	98	0.00
28		1,2,4-Trichlorobenzene	0.344	0.340	1.2	97	0.00
29		Naphthalene	1.159	1.155	0.3	97	0.00
30		4-Chloroaniline	0.481	0.484	-0.6	99	0.00
31	C	Hexachlorobutadiene	0.193	0.191	1.0	99	0.00
32	C	4-Chloro-3-Methylphenol	0.307	0.312	-1.6	98	0.00
33		2-Methylnaphthalene	0.740	0.735	0.7	98	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
35	P	Hexachlorocyclopentadiene	0.168	0.212	-26.2	107	0.00
36	C	2,4,6-Trichlorophenol	0.379	0.390	-2.9	96	0.00
37		2,4,5-Trichlorophenol	0.415	0.428	-3.1	98	0.00
38	S	2-Fluorobiphenyl	1.482	1.517	-2.4	98	0.00
39		2-Chloronaphthalene	1.299	1.323	-1.8	98	0.00

(#)=Out of Range
4M8473.D BNA.M Wed May 23 08:36:12 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.402	0.406	-1.0	98	0.00
41		Dimethylphthalate	1.380	1.380	0.0	96	0.00
42		Acenaphthylene	1.945	1.956	-0.6	98	0.00
43		2,6-Dinitrotoluene	0.323	0.335	-3.7	98	0.00
44		3-Nitroaniline	0.342	0.371	-8.5	102	0.00
45	C	Acenaphthene	1.275	1.270	0.4	98	0.00
46	P	2,4-Dinitrophenol	0.175	0.164	6.3	96	0.00
47	P	4-Nitrophenol	0.281	0.282	-0.4	98	0.00
48		Dibenzofuran	1.749	1.722	1.5	98	0.00
49		2,4-Dinitrotoluene	0.436	0.466	-6.9	98	0.00
50		Diethylphthalate	1.331	1.382	-3.8	98	0.00
51		Fluorene	1.426	1.438	-0.8	98	0.00
52		4-Chlorophenyl Phenyl Ether	0.671	0.673	-0.3	98	0.00
53		4-Nitroaniline	0.318	0.304	4.4	93	0.00
54		1,2-Diphenylhydrazine	1.445	1.485	-2.8	98	0.00
55	S	2,4,6-Tribromophenol	0.202	0.209	-3.5	98	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
57		4,6-Dinitro-2-Methylphenol	0.166	0.165	0.6	98	0.00
58	C	n-Nitrosodiphenylamine	0.626	0.635	-1.4	98	0.00
59		4-Bromophenyl Phenyl Ether	0.256	0.257	-0.4	99	0.00
60		Hexachlorobenzene	0.294	0.292	0.7	97	0.00
61	C	Pentachlorophenol	0.139	0.136	2.2	99	0.00
62		Phenanthrene	1.322	1.321	0.1	98	0.00
63		Anthracene	1.331	1.332	-0.1	97	0.00
64		Carbazole	1.015	0.927	8.7	96	0.00
65		Di-n-Butyl Phthalate	1.493	1.495	-0.1	97	0.00
66	C	Fluoranthene	1.488	1.491	-0.2	97	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	96	0.00
68		Benzidine	0.281	0.279	0.7	117	0.00
69		Pyrene	1.341	1.359	-1.3	97	0.00
70	S	p-Terphenyl-d14	1.025	1.037	-1.2	97	0.00
71		Butyl Benzyl Phthalate	0.606	0.610	-0.7	97	0.00
72		Benzo[a]anthracene	1.288	1.275	1.0	97	0.00
73		3,3'-Dichlorobenzidine	0.368	0.347	5.7	104	0.00
74		Chrysene	1.266	1.251	1.2	97	0.00
75		bis(2-Ethylhexyl)phthalate	0.820	0.815	0.6	97	0.00
76	I	Perylene-d12	1.000	1.000	0.0	97	0.00
77	C	Di-n-Octyl Phthalate	1.449	1.449	0.0	96	0.00

(#)=Out of Range
4M8473.D BNA.M Wed May 23 08:36:14 2001 HPMS4 Page 2

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.281	1.241	3.1	91	0.00
79		Benzo[k]fluoranthene	1.277	1.305	-2.2	101	0.00
80	C	Benzo[a]pyrene	1.161	1.159	0.2	96	0.00
81		Indeno[1,2,3-cd]pyrene	1.145	1.167	-1.9	97	0.00
82		Dibenz[ah]anthracene	0.746	0.760	-1.9	96	0.00
83		Benzo[ghi]perylene	0.924	0.929	-0.5	96	0.00

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D Vial: 11
Acq On : 22 May 2001 15:18 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 15:42 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	298056	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1148236	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	587646	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	979686	40.00	ug/ml	0.00
67) Chrysene-d12	15.87	240	1101781	40.00	ug/ml	0.00
76) Perylene-d12	18.19	264	1038106	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	532316	49.65	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 49.65%			
6) Phenol-d5	8.03	99	652229	49.84	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 49.84%			
20) Nitrobenzene-d5	9.01	82	577236	50.12	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 100.24%			
38) 2-Fluorobiphenyl	10.81	172	1114048	51.17	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 102.34%			
55) 2,4,6-Tribromophenol	12.36	330	153408	46.44	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 46.44%			
70) p-Terphenyl-d14	14.66	244	1427804	50.59	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 101.18%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	641423	50.28	ug/ml	99
3) n-Nitrosodimethylamine	5.40	74	353711	49.67	ug/ml	99
5) Aniline	8.11	66	330859	48.84	ug/ml	99
7) Phenol	8.05	94	698112	49.61	ug/ml	99
8) bis(2-Chloroethyl)ether	8.14	63	398043	49.72	ug/ml	99
9) 2-Chlorophenol	8.23	128	559213	49.67	ug/ml	100
10) 1,3-Dichlorobenzene	8.38	146	614082	49.46	ug/ml	99
11) 1,4-Dichlorobenzene	8.45	146	653074	49.32	ug/ml	100
12) Benzyl Alcohol	8.56	108	370468	50.41	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	589860	49.33	ug/ml	99
14) 2-Methylphenol	8.65	107	444833	49.49	ug/ml	100
15) bis(2-Chloroisopropyl)ethe	8.67	45	848653	50.04	ug/ml	100
16) 4-Methylphenol	8.79	107	654007	50.28	ug/ml	98
17) n-Nitrosodipropylamine	8.81	70	365540	49.71	ug/ml	99
18) Hexachloroethane	8.95	117	240580	49.67	ug/ml	99
21) Nitrobenzene	9.03	77	592388	50.12	ug/ml	100
22) Isophorone	9.24	82	948533	50.69	ug/ml	100
23) 2-Nitrophenol	9.35	139	320304	51.31	ug/ml	100
24) 2,4-Dimethylphenol	9.33	122	491176	50.41	ug/ml	100
25) bis(2-Chloroethoxy)methane	9.43	93	627385	49.97	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8473.D BNA.M Wed May 23 08:34:46 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\4M8473.D Vial: 11
Acq On : 22 May 2001 15:18 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 15:42 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.41	122	235597	51.03	ug/ml	99
27) 2,4-Dichlorophenol	9.58	162	445391	50.79	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.67	180	488640	49.54	ug/ml	100
29) Naphthalene	9.76	128	1658434	49.83	ug/ml	100
30) 4-Chloroaniline	9.80	127	693998	50.31	ug/ml	100
31) Hexachlorobutadiene	9.86	225	274110	49.35	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.25	107	447326	50.73	ug/ml	99
33) 2-Methylnaphthalene	10.45	142	1054289	49.60	ug/ml	99
35) Hexachlorocyclopentadiene	10.61	237	155957	52.59	ug/ml	99
36) 2,4,6-Trichlorophenol	10.74	196	286610	51.49	ug/ml	98
37) 2,4,5-Trichlorophenol	10.79	196	314403	51.57	ug/ml	99
39) 2-Chloronaphthalene	10.97	162	971478	50.89	ug/ml	99
40) 2-Nitroaniline	11.07	65	298549	50.49	ug/ml	100
41) Dimethylphthalate	11.21	163	1013718	50.01	ug/ml	100
42) Acenaphthylene	11.41	152	1437014	50.29	ug/ml	100
43) 2,6-Dinitrotoluene	11.31	165	245748	51.75	ug/ml	100
44) 3-Nitroaniline	11.50	138	272580	54.23	ug/ml	99
45) Acenaphthene	11.58	154	932553	49.78	ug/ml	100
46) 2,4-Dinitrophenol	11.60	184	120601	48.17	ug/ml#	91
47) 4-Nitrophenol	11.62	65	206913	50.16	ug/ml	98
48) Dibenzofuran	11.75	168	1264583	49.22	ug/ml	99
49) 2,4-Dinitrotoluene	11.72	165	342368	53.48	ug/ml	99
50) Diethylphthalate	11.91	149	1014909	51.89	ug/ml	100
51) Fluorene	12.10	166	1056449	50.44	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	494466	50.15	ug/ml	99
53) 4-Nitroaniline	12.13	138	223332	47.84	ug/ml	97
54) 1,2-Diphenylhydrazine	12.22	77	1090472	51.38	ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.14	198	202556	49.75	ug/ml	100
58) n-Nitrosodiphenylamine	12.19	169	777612	50.73	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.57	248	314169	50.13	ug/ml	99
60) Hexachlorobenzene	12.69	284	357456	49.58	ug/ml	99
61) Pentachlorophenol	12.88	266	166876	49.60	ug/ml	98
62) Phenanthrene	13.10	178	1617393	49.94	ug/ml	100
63) Anthracene	13.15	178	1630832	50.04	ug/ml	100
64) Carbazole	13.31	167	1134610	52.23	ug/ml	100
65) Di-n-Butyl Phthalate	13.56	149	1830662	50.05	ug/ml	100
66) Fluoranthene	14.33	202	1826445	50.12	ug/ml	100
68) Benzidine	14.43	184	384520	49.74	ug/ml	100
69) Pyrene	14.58	202	1871963	50.67	ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	839790	50.27	ug/ml	100
72) Benzo[a]anthracene	15.85	228	1755872	49.51	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 15:42 2001

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.77	252	478021	52.41	ug/ml	99
74) Chrysene	15.90	228	1722854	49.39	ug/ml	100
75) bis(2-Ethylhexyl)phthalate	15.66	149	1123074	49.71	ug/ml	100
77) Di-n-Octyl Phthalate	16.47	149	1880206	50.00	ug/ml	100
78) Benzo[b]fluoranthene	17.44	252	1609894	48.41	ug/ml	99
79) Benzo[k]fluoranthene	17.49	252	1693071	51.10	ug/ml	99
80) Benzo[a]pyrene	18.08	252	1504470	49.95	ug/ml	100
81) Indeno[1,2,3-cd]pyrene	20.81	276	1514918	50.96	ug/ml	100
82) Dibenz[ah]anthracene	20.81	278	986801	50.97	ug/ml	100
83) Benzo[ghi]perylene	21.64	276	1205578	50.29	ug/ml	100

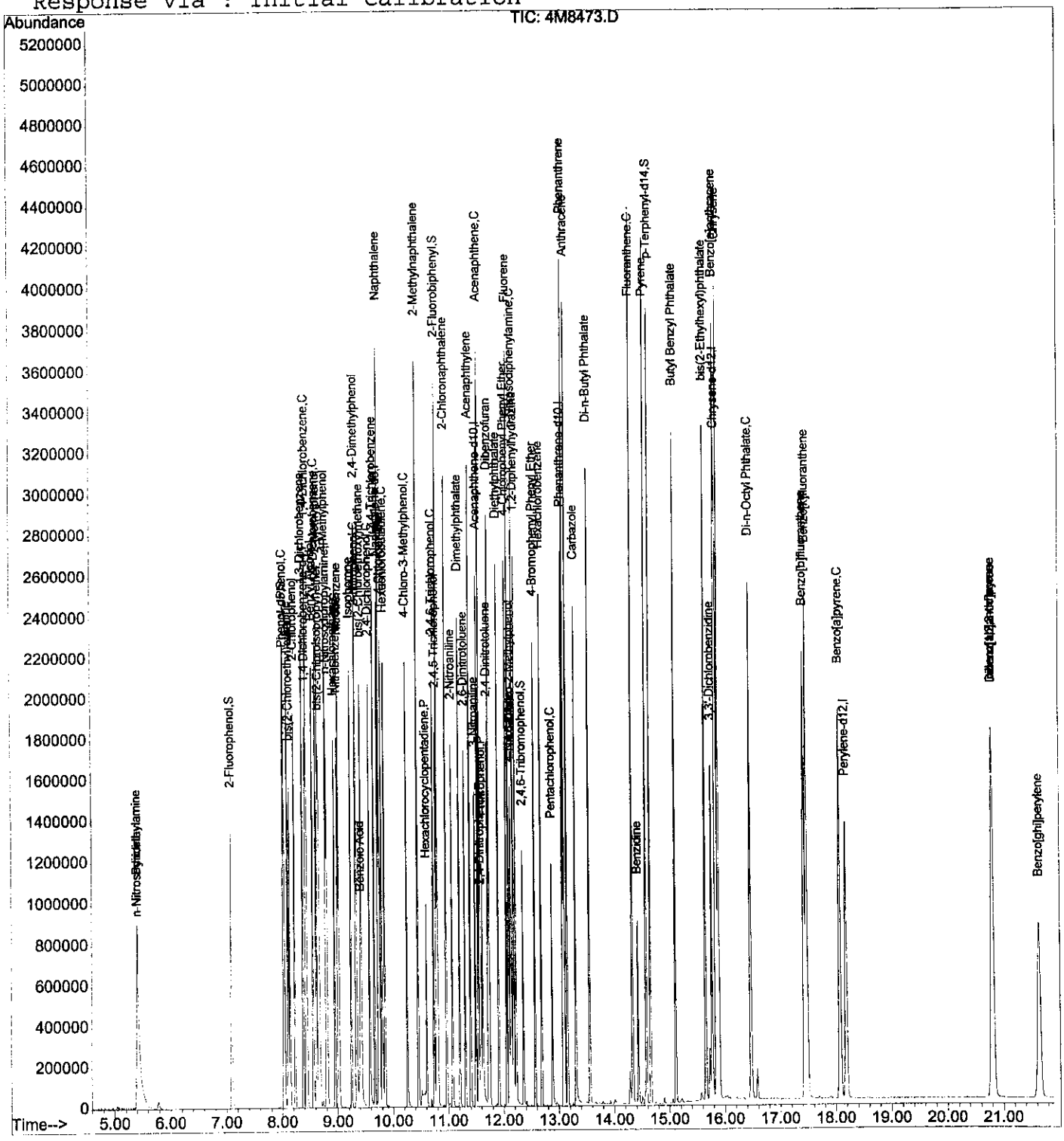
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8473.D
Acq On : 22 May 2001 15:18
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 15:42 2001

Vial: 11
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Tue May 22 14:27:49 2001
Response via : Initial Calibration



Continuing calibration Area and RT check

Instrument: HPMS7
Initial cal date: 21 May 2001 18:14
CCV date: 23 May 2001 12:56
CCV filename: 7M13047.D

	Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT
InitCal	449212	6.56	229149	8.34
CCV	470551	6.55	247773	8.34

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	370678	9.90	339209	12.71	274829	15.23
CCV	410708	9.90	398317	12.71	322047	15.23

Data File : C:\MSDCHEM\1\DATA\052301\7M13047.D Vial: 2
Acq On : 23 May 2001 12:56 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	105	-0.01
2	S	Nitrobenzene-d5	1.000	1.004	-0.4	101	0.00
3		Naphthalene	1.000	1.004	-0.4	106	-0.01
4		2-Methylnaphthalene	1.000	1.020	-2.0	107	-0.01
5		1-Methylnaphthalene	1.000	0.991	0.9	106	-0.01
6	I	Acenaphthene-d10	1.000	1.000	0.0	108	-0.01
7	S	2-Fluorobiphenyl	1.000	1.008	-0.8	109	-0.01
8		Acenaphthylene	1.000	0.967	3.3	104	-0.01
9	C	Acenaphthene	1.000	0.987	1.3	107	-0.02
10		Fluorene	1.000	1.025	-2.5	109	-0.01
11	I	Phenanthrene-d10	1.000	1.000	0.0	111	-0.01
12		Phenanthrene	1.000	1.005	-0.5	114	-0.01
13		Anthracene	1.000	1.073	-7.3	112	-0.01
14	C	Fluoranthene	1.000	1.070	-7.0	115	-0.01
15	I	Chrysene-d12	1.000	1.000	0.0	117	-0.01
16		Pyrene	1.000	1.012	-1.2	117	0.00
17	S	p-Terphenyl-d14	1.000	1.019	-1.9	118	-0.01
18		Benzo[a]anthracene	1.000	1.069	-6.9	120	-0.01
19		Chrysene	1.000	0.974	2.6	115	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	117	-0.02
21		Benzo[b]fluoranthene	1.000	0.990	1.0	115	-0.02
22		Benzo[k]fluoranthene	1.000	0.981	1.9	119	-0.02
23	C	Benzo[a]pyrene	1.000	1.006	-0.6	118	-0.02
24		Indeno[1,2,3-cd]pyrene	1.000	0.916	8.4	109	-0.03
25		Dibenz[ah]anthracene	1.000	0.909	9.1	108	-0.03
26		Benzo[ghi]perylene	1.000	0.953	4.7	106	-0.03

Data File : C:\MSDCHEM\1\DATA\052301\7M13047.D
Acq On : 23 May 2001 12:56
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	105	-0.01
2	S	Nitrobenzene-d5	0.283	0.310	-9.5	101	0.00
3		Naphthalene	1.119	1.124	-0.4	106	-0.01
4		2-Methylnaphthalene	0.710	0.724	-2.0	107	-0.01
5		1-Methylnaphthalene	0.687	0.681	0.9	106	-0.01
6	I	Acenaphthene-d10	1.000	1.000	0.0	108	-0.01
7	S	2-Fluorobiphenyl	1.471	1.483	-0.8	109	-0.01
8		Acenaphthylene	1.739	1.846	-6.2	104	-0.01
9	C	Acenaphthene	1.272	1.255	1.3	107	-0.02
10		Fluorene	1.378	1.413	-2.5	109	-0.01
11	I	Phenanthrene-d10	1.000	1.000	0.0	111	-0.01
12		Phenanthrene	1.286	1.292	-0.5	114	-0.01
13		Anthracene	1.099	1.179	-7.3	112	-0.01
14	C	Fluoranthene	1.334	1.428	-7.0	115	-0.01
15	I	Chrysene-d12	1.000	1.000	0.0	117	-0.01
16		Pyrene	1.536	1.554	-1.2	117	0.00
17	S	p-Terphenyl-d14	1.088	1.108	-1.8	118	-0.01
18		Benzo[a]anthracene	1.260	1.347	-6.9	120	-0.01
19		Chrysene	1.404	1.367	2.6	115	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	117	-0.02
21		Benzo[b]fluoranthene	1.667	1.651	1.0	115	-0.02
22		Benzo[k]fluoranthene	1.621	1.591	1.9	119	-0.02
23	C	Benzo[a]pyrene	1.304	1.312	-0.6	118	-0.02
24		Indeno[1,2,3-cd]pyrene	1.493	1.506	-0.9	109	-0.03
25		Dibenz[ah]anthracene	1.217	1.191	2.1	108	-0.03
26		Benzo[ghi]perylene	1.368	1.303	4.8	106	-0.03

Data File : C:\MSDCHEM\1\DATA\052301\7M13047.D Vial: 2
Acq On : 23 May 2001 12:56 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 13:19:57 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	470551	1.00	ug/ml	-0.01
6) Acenaphthene-d10	8.33	164	247773	1.00	ug/ml	-0.01
11) Phenanthrene-d10	9.87	188	410708	1.00	ug/ml	-0.01
15) Chrysene-d12	12.70	240	398317	1.00	ug/ml	-0.01
20) Perylene-d12	15.20	264	322047	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	146017	1.00	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 40.00%			
7) 2-Fluorobiphenyl	7.60	172	367325	1.01	ug/ml	-0.01
Spiked Amount 2.500	Range 43 - 116		Recovery = 40.40%#			
17) p-Terphenyl-d14	11.45	244	441519	1.02	ug/ml	-0.01
Spiked Amount 2.500	Range 33 - 141		Recovery = 40.80%			
Target Compounds						Qvalue
3) Naphthalene	6.57	128	528835	1.00	ug/ml	99
4) 2-Methylnaphthalene	7.25	142	340817	1.02	ug/ml	99
5) 1-Methylnaphthalene	7.36	142	320230	0.99	ug/ml	100
8) Acenaphthylene	8.19	152	457426	0.97	ug/ml	99
9) Acenaphthene	8.37	154	310867	0.99	ug/ml	98
10) Fluorene	8.89	166	350025	1.03	ug/ml	100
12) Phenanthrene	9.89	178	530778	1.01	ug/ml	99
13) Anthracene	9.95	178	484231	1.07	ug/ml	100
14) Fluoranthene	11.13	202	586467	1.07	ug/ml	99
16) Pyrene	11.38	202	618916	1.01	ug/ml	99
18) Benzo[a]anthracene	12.68	228	536475	1.07	ug/ml	99
19) Chrysene	12.74	228	544506	0.97	ug/ml	99
21) Benzo[b]fluoranthene	14.39	252	531681	0.99	ug/ml	99
22) Benzo[k]fluoranthene	14.44	252	512218	0.98	ug/ml	98
23) Benzo[a]pyrene	15.09	252	422373	1.01	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.02	276	485112	0.92	ug/ml#	99
25) Dibenz[ah]anthracene	18.02	278	383605	0.91	ug/ml	98
26) Benzo[ghi]perylene	18.93	276	419586	0.95	ug/ml	99

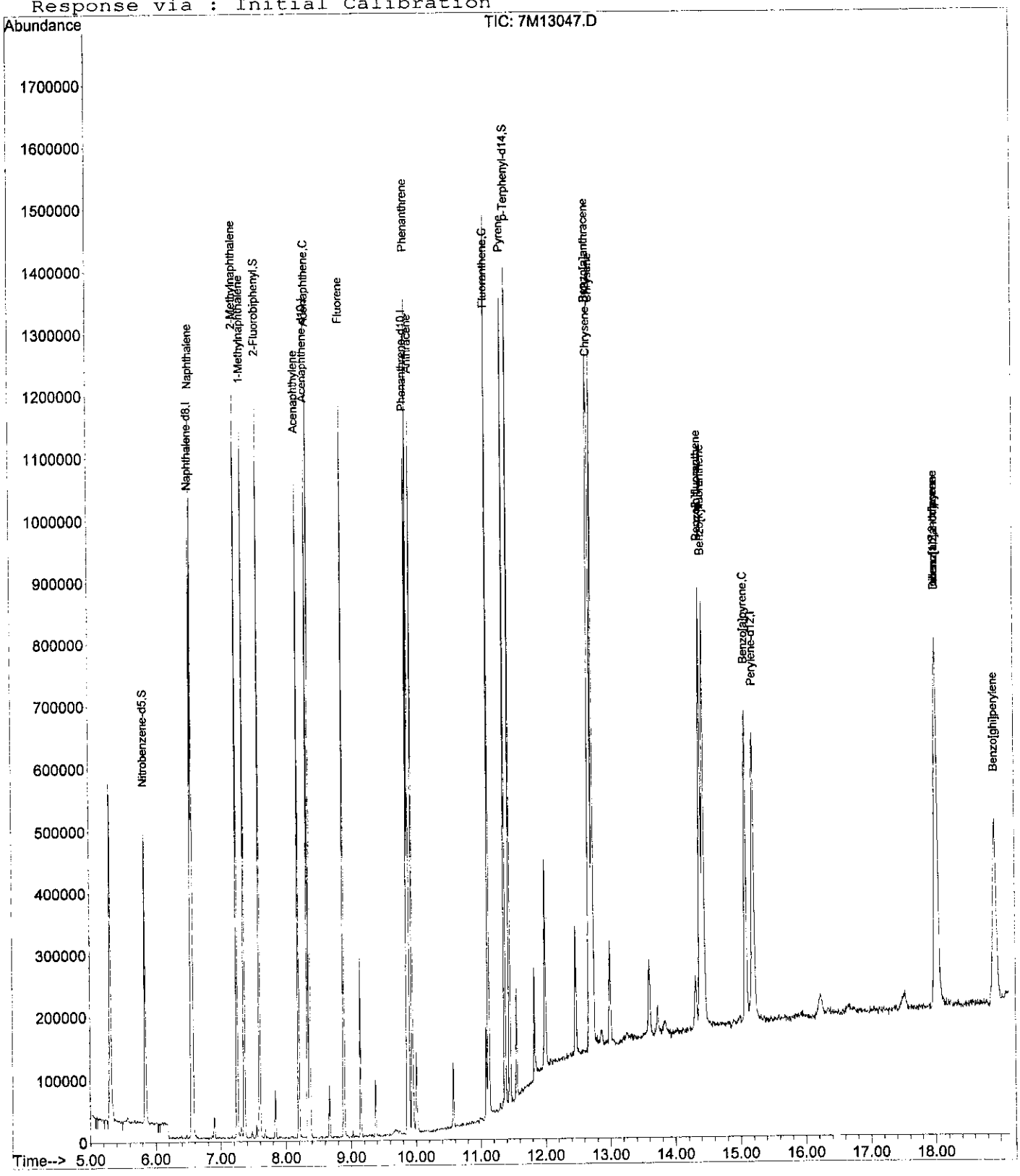
(#) = qualifier out of range (m) = manual integration
7M13047.D PAHLOW.M Wed May 23 13:20:42 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052301\7M13047.D
Acq On : 23 May 2001 12:56
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 23 13:19 2001

Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Continuing calibration Area and RT check

Instrument: HPMS4
Initial cal date: 24 May 2001 8:53
CCV date: 24 May 2001 13:26
CCV filename: 4M8531.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	263117	8.42	1016583	9.73	525555	11.54
CCV	262468	8.43	1013498	9.74	516847	11.54

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	865770	13.07	950521	15.86	842376	18.18
CCV	876621	13.08	971651	15.86	874206	18.18

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2		Pyridine	1.690	1.797	-6.3	97	0.00
3		n-Nitrosodimethylamine	0.969	0.988	-2.0	98	0.00
4	S	2-Fluorophenol	1.448	1.495	-3.2	99	0.00
5		Aniline	0.925	0.918	0.8	97	0.00
6	S	Phenol-d5	1.753	1.818	-3.7	99	0.00
7	C	Phenol	1.895	1.960	-3.4	99	0.00
8		bis(2-Chloroethyl)ether	1.100	1.137	-3.4	100	0.00
9		2-Chlorophenol	1.522	1.574	-3.4	100	0.00
10		1,3-Dichlorobenzene	1.676	1.718	-2.5	100	0.00
11	C	1,4-Dichlorobenzene	1.795	1.832	-2.1	99	0.00
12		Benzyl Alcohol	0.983	1.039	-5.7	100	0.00
13	C	1,2-Dichlorobenzene	1.623	1.655	-2.0	99	0.00
14		2-Methylphenol	1.202	1.256	-4.5	101	0.00
15		bis(2-Chloroisopropyl)ether	2.353	2.407	-2.3	98	0.00
16		4-Methylphenol	1.742	1.816	-4.2	100	0.00
17	P	n-Nitrosodipropylamine	1.002	1.040	-3.8	99	0.00
18		Hexachloroethane	0.670	0.688	-2.7	98	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
20	S	Nitrobenzene-d5	0.405	0.421	-4.0	99	0.00
21		Nitrobenzene	0.420	0.431	-2.6	99	0.00
22		Isophorone	0.672	0.689	-2.5	97	0.00
23	C	2-Nitrophenol	0.218	0.232	-6.4	101	0.00
24		2,4-Dimethylphenol	0.337	0.349	-3.6	99	0.00
25		bis(2-Chloroethoxy)methane	0.443	0.456	-2.9	100	0.00
26		Benzoic Acid	0.155	0.153	1.3	93	0.00
27	C	2,4-Dichlorophenol	0.308	0.319	-3.6	99	0.00
28		1,2,4-Trichlorobenzene	0.343	0.354	-3.2	100	0.00
29		Naphthalene	1.166	1.204	-3.3	100	0.00
30		4-Chloroaniline	0.483	0.499	-3.3	99	0.00
31	C	Hexachlorobutadiene	0.197	0.202	-2.5	101	0.00
32	C	4-Chloro-3-Methylphenol	0.309	0.322	-4.2	98	0.00
33		2-Methylnaphthalene	0.745	0.766	-2.8	100	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
35	P	Hexachlorocyclopentadiene	0.160	0.212	-32.5	111	0.00
36	C	2,4,6-Trichlorophenol	0.367	0.397	-8.2	98	0.00
37		2,4,5-Trichlorophenol	0.412	0.431	-4.6	97	0.00
38	S	2-Fluorobiphenyl	1.479	1.576	-6.6	99	0.00
39		2-Chloronaphthalene	1.299	1.375	-5.9	99	0.00

(#)=Out of Range
4M8531.D BNA.M Thu May 24 13:52:17 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.415	0.429	-3.4	98	0.00
41		Dimethylphthalate	1.394	1.473	-5.7	100	0.00
42		Acenaphthylene	1.950	2.030	-4.1	98	0.00
43		2,6-Dinitrotoluene	0.324	0.353	-9.0	101	0.00
44		3-Nitroaniline	0.341	0.387	-13.5	103	0.00
45	C	Acenaphthene	1.278	1.320	-3.3	99	0.00
46	P	2,4-Dinitrophenol	0.147	0.163	-10.9	100	0.00
47	P	4-Nitrophenol	0.277	0.271	2.2	94	0.00
48		Dibenzofuran	1.763	1.798	-2.0	99	0.00
49		2,4-Dinitrotoluene	0.441	0.491	-11.3	101	0.00
50		Diethylphthalate	1.367	1.484	-8.6	101	0.00
51		Fluorene	1.438	1.503	-4.5	99	0.00
52		4-Chlorophenyl Phenyl Ether	0.676	0.705	-4.3	100	0.00
53		4-Nitroaniline	0.324	0.348	-7.4	100	0.00
54		1,2-Diphenylhydrazine	1.495	1.595	-6.7	99	0.00
55	S	2,4,6-Tribromophenol	0.198	0.214	-8.1	100	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
57		4,6-Dinitro-2-Methylphenol	0.163	0.167	-2.5	102	0.00
58	C	n-Nitrosodiphenylamine	0.626	0.657	-5.0	102	0.00
59		4-Bromophenyl Phenyl Ether	0.255	0.260	-2.0	101	0.00
60		Hexachlorobenzene	0.297	0.305	-2.7	102	0.00
61	C	Pentachlorophenol	0.133	0.133	0.0	100	0.00
62		Phenanthrene	1.334	1.366	-2.4	100	0.00
63		Anthracene	1.334	1.385	-3.8	101	0.00
64		Carbazole	1.026	0.969	5.6	97	0.00
65		Di-n-Butyl Phthalate	1.502	1.569	-4.5	100	0.00
66	C	Fluoranthene	1.492	1.551	-4.0	101	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
68		Benzidine	0.254	0.259	-2.0	120	0.00
69		Pyrene	1.373	1.434	-4.4	101	0.00
70	S	p-Terphenyl-d14	1.049	1.098	-4.7	102	0.00
71		Butyl Benzyl Phthalate	0.622	0.647	-4.0	101	0.00
72		Benzo[a]anthracene	1.291	1.324	-2.6	102	0.00
73		3,3'-Dichlorobenzidine	0.365	0.379	-3.8	117	0.00
74		Chrysene	1.279	1.304	-2.0	102	0.00
75		bis(2-Ethylhexyl)phthalate	0.835	0.866	-3.7	101	0.00
76	I	Perylene-d12	1.000	1.000	0.0	104	0.00
77	C	Di-n-Octyl Phthalate	1.505	1.581	-5.0	101	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.307	1.361	-4.1	103	0.00
79		Benzo[k]fluoranthene	1.316	1.363	-3.6	104	0.00
80	C	Benzo[a]pyrene	1.164	1.213	-4.2	103	0.00
81		Indeno[1,2,3-cd]pyrene	1.132	1.242	-9.7	105	0.01
82		Dibenz[ah]anthracene	0.737	0.808	-9.6	106	0.01
83		Benzo[ghi]perylene	0.917	1.001	-9.2	104	0.01

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00
2		Pyridine	50.000	53.155	-6.3	97	0.00
3		n-Nitrosodimethylamine	50.000	50.991	-2.0	98	0.00
4	S	2-Fluorophenol	50.000	51.614	-3.2	99	0.00
5		Aniline	50.000	49.597	0.8	97	0.00
6	S	Phenol-d5	50.000	51.836	-3.7	99	0.00
7	C	Phenol	50.000	51.724	-3.4	99	0.00
8		bis(2-Chloroethyl)ether	50.000	51.693	-3.4	100	0.00
9		2-Chlorophenol	50.000	51.729	-3.5	100	0.00
10		1,3-Dichlorobenzene	50.000	51.261	-2.5	100	0.00
11	C	1,4-Dichlorobenzene	50.000	51.018	-2.0	99	0.00
12		Benzyl Alcohol	50.000	52.830	-5.7	100	0.00
13	C	1,2-Dichlorobenzene	50.000	50.995	-2.0	99	0.00
14		2-Methylphenol	50.000	52.254	-4.5	101	0.00
15		bis(2-Chloroisopropyl)ether	50.000	51.145	-2.3	98	0.00
16		4-Methylphenol	50.000	52.125	-4.3	100	0.00
17	P	n-Nitrosodipropylamine	50.000	51.910	-3.8	99	0.00
18		Hexachloroethane	50.000	51.320	-2.6	98	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00
20	S	Nitrobenzene-d5	50.000	52.035	-4.1	99	0.00
21		Nitrobenzene	50.000	51.369	-2.7	99	0.00
22		Isophorone	50.000	51.273	-2.5	97	0.00
23	C	2-Nitrophenol	50.000	53.342	-6.7	101	0.00
24		2,4-Dimethylphenol	50.000	51.813	-3.6	99	0.00
25		bis(2-Chloroethoxy)methane	50.000	51.520	-3.0	100	0.00
26		Benzoic Acid	50.000	49.196	1.6	93	0.00
27	C	2,4-Dichlorophenol	50.000	51.739	-3.5	99	0.00
28		1,2,4-Trichlorobenzene	50.000	51.707	-3.4	100	0.00
29		Naphthalene	50.000	51.603	-3.2	100	0.00
30		4-Chloroaniline	50.000	51.652	-3.3	99	0.00
31	C	Hexachlorobutadiene	50.000	51.225	-2.5	101	0.00
32	C	4-Chloro-3-Methylphenol	50.000	52.183	-4.4	98	0.00
33		2-Methylnaphthalene	50.000	51.432	-2.9	100	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	98	0.00
35	P	Hexachlorocyclopentadiene	50.000	54.788	-9.6	111	0.00
36	C	2,4,6-Trichlorophenol	50.000	54.087	-8.2	98	0.00
37		2,4,5-Trichlorophenol	50.000	52.371	-4.7	97	0.00
38	S	2-Fluorobiphenyl	50.000	53.286	-6.6	99	0.00
39		2-Chloronaphthalene	50.000	52.909	-5.8	99	0.00

(#)=Out of Range
4M8531.D BNA.M Thu May 24 13:52:35 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.630	-3.3	98	0.00
41		Dimethylphthalate	50.000	52.818	-5.6	100	0.00
42		Acenaphthylene	50.000	52.038	-4.1	98	0.00
43		2,6-Dinitrotoluene	50.000	54.384	-8.8	101	0.00
44		3-Nitroaniline	50.000	56.688	-13.4	103	0.00
45	C	Acenaphthene	50.000	51.614	-3.2	99	0.00
46	P	2,4-Dinitrophenol	50.000	52.515	-5.0	100	0.00
47	P	4-Nitrophenol	50.000	48.928	2.1	94	0.00
48		Dibenzofuran	50.000	51.005	-2.0	99	0.00
49		2,4-Dinitrotoluene	50.000	55.684	-11.4	101	0.00
50		Diethylphthalate	50.000	54.248	-8.5	101	0.00
51		Fluorene	50.000	52.230	-4.5	99	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	52.136	-4.3	100	0.00
53		4-Nitroaniline	50.000	53.772	-7.5	100	0.00
54		1,2-Diphenylhydrazine	50.000	53.345	-6.7	99	0.00
55	S	2,4,6-Tribromophenol	50.000	52.237	-4.5	100	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	101	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	51.281	-2.6	102	0.00
58	C	n-Nitrosodiphenylamine	50.000	52.477	-5.0	102	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.915	-1.8	101	0.00
60		Hexachlorobenzene	50.000	51.268	-2.5	102	0.00
61	C	Pentachlorophenol	50.000	50.304	-0.6	100	0.00
62		Phenanthrene	50.000	51.212	-2.4	100	0.00
63		Anthracene	50.000	51.924	-3.8	101	0.00
64		Carbazole	50.000	53.888	-7.8	97	0.00
65		Di-n-Butyl Phthalate	50.000	52.214	-4.4	100	0.00
66	C	Fluoranthene	50.000	51.980	-4.0	101	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	102	0.00
68		Benzidine	50.000	51.049	-2.1	120	0.00
69		Pyrene	50.000	52.229	-4.5	101	0.00
70	S	p-Terphenyl-d14	50.000	52.323	-4.6	102	0.00
71		Butyl Benzyl Phthalate	50.000	51.971	-3.9	101	0.00
72		Benzo[a]anthracene	50.000	51.270	-2.5	102	0.00
73		3,3'-Dichlorobenzidine	50.000	51.826	-3.7	117	0.00
74		Chrysene	50.000	50.980	-2.0	102	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	51.892	-3.8	101	0.00
76	I	Perylene-d12	40.000	40.000	0.0	104	0.00
77	C	Di-n-Octyl Phthalate	50.000	52.525	-5.0	101	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.070	-4.1	103	0.00
79		Benzo[k]fluoranthene	50.000	51.792	-3.6	104	0.00
80	C	Benzo[a]pyrene	50.000	52.109	-4.2	103	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	54.849	-9.7	105	0.01
82		Dibenz[ah]anthracene	50.000	54.811	-9.6	106	0.01
83		Benzo[ghi]perylene	50.000	54.533	-9.1	104	0.01

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:52 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	262468	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1013498	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	516847	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	876621	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	971651	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	874206	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	490400	51.61	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 51.61%			
6) Phenol-d5	8.03	99	596421	51.84	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 51.84%			
20) Nitrobenzene-d5	9.01	82	533574	52.04	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 104.08%			
38) 2-Fluorobiphenyl	10.81	172	1017995	53.29	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 106.58%			
55) 2,4,6-Tribromophenol	12.36	330	138212	52.24	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 52.24%			
70) p-Terphenyl-d14	14.66	244	1333428	52.32	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 104.64%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	589555	53.16	ug/ml	99
3) n-Nitrosodimethylamine	5.41	74	324288	50.99	ug/ml	99
5) Aniline	8.11	66	301141	49.60	ug/ml	99
7) Phenol	8.04	94	643124	51.72	ug/ml	100
8) bis(2-Chloroethyl)ether	8.14	63	372952	51.69	ug/ml	97
9) 2-Chlorophenol	8.23	128	516474	51.73	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	563620	51.26	ug/ml	100
11) 1,4-Dichlorobenzene	8.45	146	601052	51.02	ug/ml	100
12) Benzyl Alcohol	8.55	108	340932	52.83	ug/ml	98
13) 1,2-Dichlorobenzene	8.62	146	543097	50.99	ug/ml	99
14) 2-Methylphenol	8.65	107	412033	52.25	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	789613	51.14	ug/ml	99
16) 4-Methylphenol	8.79	107	595754	52.13	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	341255	51.91	ug/ml	99
18) Hexachloroethane	8.95	117	225693	51.32	ug/ml	98
21) Nitrobenzene	9.03	77	546069	51.37	ug/ml	99
22) Isophorone	9.24	82	873422	51.27	ug/ml	100
23) 2-Nitrophenol	9.34	139	294006	53.34	ug/ml	99
24) 2,4-Dimethylphenol	9.33	122	442371	51.81	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	577988	51.52	ug/ml	100

(#) = qualifier out of range (m) = manual integration
4M8531.D BNA.M Thu May 24 13:52:07 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:52 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	Benzoic Acid	9.41	122	193220	49.20	ug/ml	97
27)	2,4-Dichlorophenol	9.58	162	403678	51.74	ug/ml	100
28)	1,2,4-Trichlorobenzene	9.67	180	448721	51.71	ug/ml	100
29)	Naphthalene	9.76	128	1525099	51.60	ug/ml	100
30)	4-Chloroaniline	9.80	127	632296	51.65	ug/ml	100
31)	Hexachlorobutadiene	9.85	225	256238	51.22	ug/ml	99
32)	4-Chloro-3-Methylphenol	10.25	107	408523	52.18	ug/ml	100
33)	2-Methylnaphthalene	10.45	142	970520	51.43	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	136815	54.79	ug/ml	99
36)	2,4,6-Trichlorophenol	10.74	196	256456	54.09	ug/ml	100
37)	2,4,5-Trichlorophenol	10.78	196	278713	52.37	ug/ml	99
39)	2-Chloronaphthalene	10.96	162	888067	52.91	ug/ml	100
40)	2-Nitroaniline	11.07	65	277093	51.63	ug/ml	98
41)	Dimethylphthalate	11.20	163	951381	52.82	ug/ml	100
42)	Acenaphthylene	11.40	152	1311492	52.04	ug/ml	100
43)	2,6-Dinitrotoluene	11.30	165	227915	54.38	ug/ml	99
44)	3-Nitroaniline	11.49	138	249890	56.69	ug/ml	100
45)	Acenaphthene	11.58	154	852644	51.61	ug/ml	100
46)	2,4-Dinitrophenol	11.59	184	105243	52.51	ug/ml#	92
47)	4-Nitrophenol	11.62	65	175206	48.93	ug/ml	94
48)	Dibenzofuran	11.74	168	1161571	51.01	ug/ml	100
49)	2,4-Dinitrotoluene	11.72	165	317454	55.68	ug/ml	98
50)	Diethylphthalate	11.91	149	958515	54.25	ug/ml	100
51)	Fluorene	12.10	166	970791	52.23	ug/ml	100
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	455294	52.14	ug/ml	100
53)	4-Nitroaniline	12.13	138	225147	53.77	ug/ml	89
54)	1,2-Diphenylhydrazine	12.22	77	1030537	53.35	ug/ml	99
57)	4,6-Dinitro-2-Methylphenol	12.14	198	183475	51.28	ug/ml	98
58)	n-Nitrosodiphenylamine	12.18	169	719410	52.48	ug/ml	100
59)	4-Bromophenyl Phenyl Ether	12.56	248	284937	50.92	ug/ml	99
60)	Hexachlorobenzene	12.69	284	334068	51.27	ug/ml	99
61)	Pentachlorophenol	12.88	266	146134	50.30	ug/ml	99
62)	Phenanthrene	13.10	178	1497090	51.21	ug/ml	100
63)	Anthracene	13.15	178	1517679	51.92	ug/ml	100
64)	Carbazole	13.31	167	1061416	53.89	ug/ml	100
65)	Di-n-Butyl Phthalate	13.55	149	1718764	52.21	ug/ml	100
66)	Fluoranthene	14.33	202	1699771	51.98	ug/ml	100
68)	Benzidine	14.43	184	315044	51.05	ug/ml	100
69)	Pyrene	14.58	202	1742079	52.23	ug/ml	100
71)	Butyl Benzyl Phthalate	15.11	149	785421	51.97	ug/ml	100
72)	Benzo[a]anthracene	15.84	228	1607642	51.27	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:52 2001 Quant Results File: BNA.RES

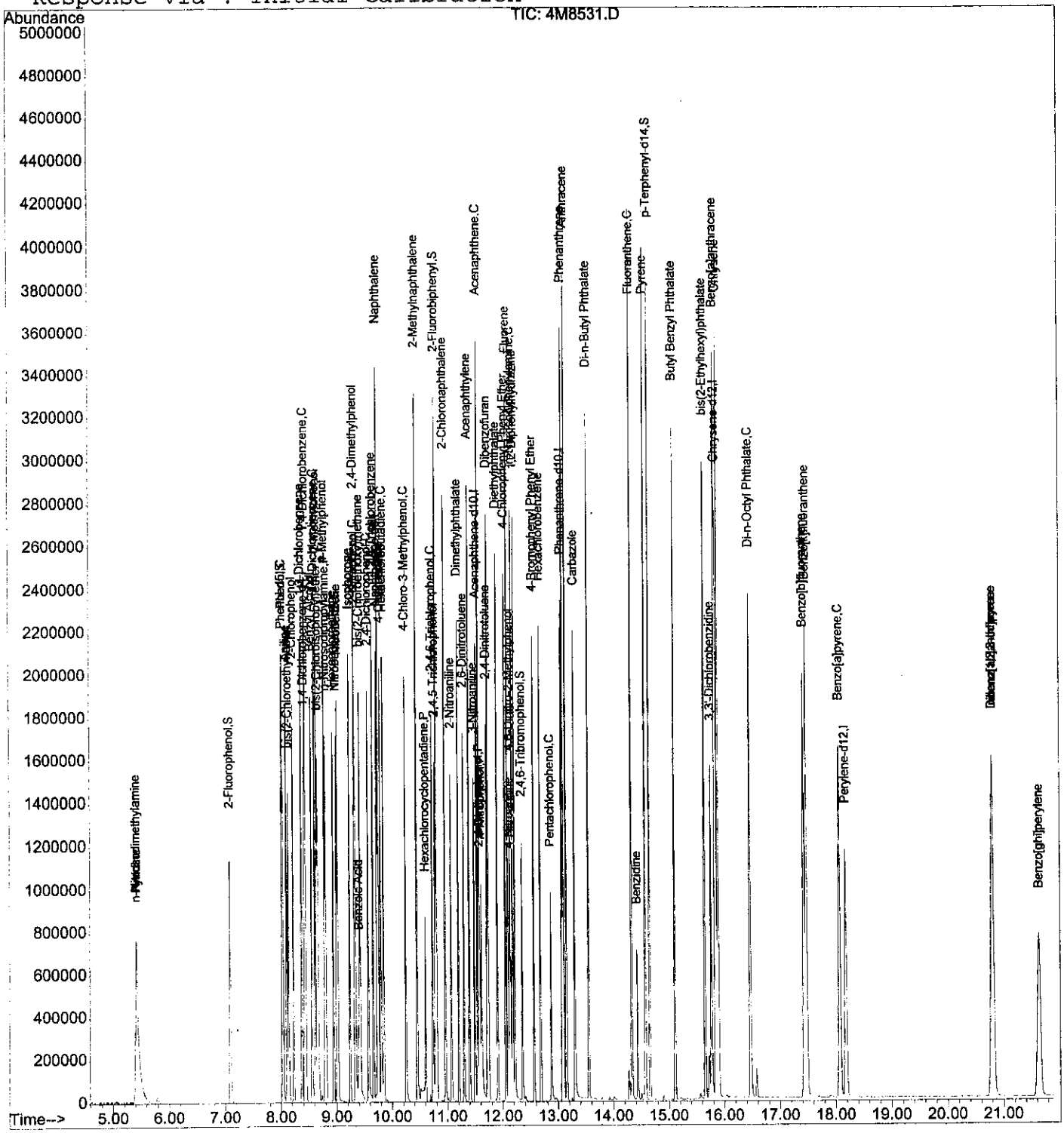
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	459801	51.83	ug/ml	99
74)	Chrysene	15.89	228	1583699	50.98	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.66	149	1052202	51.89	ug/ml	100
77)	Di-n-Octyl Phthalate	16.47	149	1727980	52.53	ug/ml	100
78)	Benzo[b]fluoranthene	17.44	252	1486909	52.07	ug/ml	100
79)	Benzo[k]fluoranthene	17.48	252	1489179	51.79	ug/ml	99
80)	Benzo[a]pyrene	18.08	252	1325246	52.11	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.81	276	1357348	54.85	ug/ml	100
82)	Dibenz[ah]anthracene	20.81	278	883153	54.81	ug/ml	100
83)	Benzo[ghi]perylene	21.64	276	1093415	54.53	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\4M8531.D Vial: 11
Acq On : 24 May 2001 13:26 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:52 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Thu May 24 12:29:36 2001
Response via : Initial Calibration



4M8531.D BNA.M Thu May 24 13:52:10 2001 HPMS4 Page 4

Continuing calibration Area and RT check

Instrument: HPMS4
Initial cal date: 24 May 2001 8:53
CCV date: 25 May 2001 8:22
CCV filename: 4M8543.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	263117	8.42	1016583	9.73	525555	11.54
CCV	263534	8.43	1013377	9.73	524681	11.54

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	865770	13.07	950521	15.86	842376	18.18
CCV	880979	13.07	976779	15.86	872446	18.18

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D Vial: 2
Acq On : 25 May 2001 8:22 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	51.815	-3.6	100	0.00
41		Dimethylphthalate	50.000	52.180	-4.4	101	0.00
42		Acenaphthylene	50.000	51.815	-3.6	99	0.00
43		2,6-Dinitrotoluene	50.000	53.422	-6.8	101	0.00
44		3-Nitroaniline	50.000	48.995	2.0	90	0.00
45	C	Acenaphthene	50.000	51.174	-2.3	99	0.00
46	P	2,4-Dinitrophenol	50.000	49.692	0.6	94	0.00
47	P	4-Nitrophenol	50.000	49.922	0.2	97	0.00
48		Dibenzofuran	50.000	50.373	-0.7	99	0.00
49		2,4-Dinitrotoluene	50.000	55.097	-10.2	102	0.00
50		Diethylphthalate	50.000	53.311	-6.6	100	0.00
51		Fluorene	50.000	51.944	-3.9	100	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	51.853	-3.7	101	0.00
53		4-Nitroaniline	50.000	56.643	-13.3	107	0.00
54		1,2-Diphenylhydrazine	50.000	53.116	-6.2	100	0.00
55	S	2,4,6-Tribromophenol	50.000	51.576	-3.2	100	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	102	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	49.831	0.3	100	0.00
58	C	n-Nitrosodiphenylamine	50.000	51.896	-3.8	101	0.00
59		4-Bromophenyl Phenyl Ether	50.000	51.490	-3.0	103	0.00
60		Hexachlorobenzene	50.000	51.590	-3.2	103	0.00
61	C	Pentachlorophenol	50.000	49.673	0.7	99	0.00
62		Phenanthrene	50.000	51.458	-2.9	101	0.00
63		Anthracene	50.000	52.119	-4.2	102	0.00
64		Carbazole	50.000	64.975	-29.9	115	0.00
65		Di-n-Butyl Phthalate	50.000	52.002	-4.0	100	0.00
66	C	Fluoranthene	50.000	51.886	-3.8	101	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	103	0.00
68		Benzidine	50.000	25.392	49.2#	60	0.00
69		Pyrene	50.000	51.815	-3.6	101	0.00
70	S	p-Terphenyl-d14	50.000	52.121	-4.2	102	0.00
71		Butyl Benzyl Phthalate	50.000	51.638	-3.3	101	0.00
72		Benzo[a]anthracene	50.000	51.073	-2.1	102	0.00
73		3,3'-Dichlorobenzidine	50.000	34.819	30.4	79	0.00
74		Chrysene	50.000	50.835	-1.7	103	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	51.501	-3.0	100	0.00
76	I	Perylene-d12	40.000	40.000	0.0	104	0.00
77	C	Di-n-Octyl Phthalate	50.000	52.297	-4.6	100	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D
Acq On : 25 May 2001 8:22
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.157	-4.3	103	0.00
79		Benzo[k]fluoranthene	50.000	51.994	-4.0	104	0.00
80	C	Benzo[a]pyrene	50.000	51.933	-3.9	103	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	54.930	-9.9	105	0.00
82		Dibenz[ah]anthracene	50.000	54.872	-9.7	106	0.00
83		Benzo[ghi]perylene	50.000	54.628	-9.3	104	0.00

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D Vial: 2
Acq On : 25 May 2001 8:22 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2		Pyridine	1.690	1.811	-7.2	98	0.00
3		n-Nitrosodimethylamine	0.969	0.991	-2.3	99	0.00
4	S	2-Fluorophenol	1.448	1.488	-2.8	99	0.00
5		Aniline	0.925	0.928	-0.3	98	0.00
6	S	Phenol-d5	1.753	1.811	-3.3	99	0.00
7	C	Phenol	1.895	1.962	-3.5	99	0.00
8		bis(2-Chloroethyl)ether	1.100	1.127	-2.5	99	0.00
9		2-Chlorophenol	1.522	1.568	-3.0	100	0.00
10		1,3-Dichlorobenzene	1.676	1.718	-2.5	100	0.00
11	C	1,4-Dichlorobenzene	1.795	1.851	-3.1	101	0.00
12		Benzyl Alcohol	0.983	1.030	-4.8	99	0.00
13	C	1,2-Dichlorobenzene	1.623	1.662	-2.4	100	0.00
14		2-Methylphenol	1.202	1.227	-2.1	99	0.00
15		bis(2-Chloroisopropyl)ether	2.353	2.412	-2.5	99	0.00
16		4-Methylphenol	1.742	1.810	-3.9	100	0.00
17	P	n-Nitrosodipropylamine	1.002	1.032	-3.0	98	0.00
18		Hexachloroethane	0.670	0.694	-3.6	99	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
20	S	Nitrobenzene-d5	0.405	0.424	-4.7	100	0.00
21		Nitrobenzene	0.420	0.434	-3.3	99	0.00
22		Isophorone	0.672	0.695	-3.4	98	0.00
23	C	2-Nitrophenol	0.218	0.231	-6.0	101	0.00
24		2,4-Dimethylphenol	0.337	0.349	-3.6	98	0.00
25		bis(2-Chloroethoxy)methane	0.443	0.458	-3.4	100	0.00
26		Benzoic Acid	0.155	0.149	3.9	91	0.00
27	C	2,4-Dichlorophenol	0.308	0.321	-4.2	100	0.00
28		1,2,4-Trichlorobenzene	0.343	0.355	-3.5	100	0.00
29		Naphthalene	1.166	1.201	-3.0	100	0.00
30		4-Chloroaniline	0.483	0.492	-1.9	97	0.00
31	C	Hexachlorobutadiene	0.197	0.204	-3.6	102	0.00
32	C	4-Chloro-3-Methylphenol	0.309	0.325	-5.2	99	0.00
33		2-Methylnaphthalene	0.745	0.769	-3.2	101	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
35	P	Hexachlorocyclopentadiene	0.160	0.201	-25.6	107	0.00
36	C	2,4,6-Trichlorophenol	0.367	0.398	-8.4	99	0.00
37		2,4,5-Trichlorophenol	0.412	0.434	-5.3	99	0.00
38	S	2-Fluorobiphenyl	1.479	1.575	-6.5	101	0.00
39		2-Chloronaphthalene	1.299	1.361	-4.8	100	0.00

(#)=Out of Range
4M8543.D BNA.M Fri May 25 09:20:03 2001 HPMS4 Page 1

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Data File : C:\HPCHEM\1\DATA\052501\4M8543.D
Acq On : 25 May 2001 8:22
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.415	0.430	-3.6	100	0.00
41		Dimethylphthalate	1.394	1.455	-4.4	101	0.00
42		Acenaphthylene	1.950	2.021	-3.6	99	0.00
43		2,6-Dinitrotoluene	0.324	0.347	-7.1	101	0.00
44		3-Nitroaniline	0.341	0.334	2.1	90	0.00
45	C	Acenaphthene	1.278	1.309	-2.4	99	0.00
46	P	2,4-Dinitrophenol	0.147	0.151	-2.7	94	0.00
47	P	4-Nitrophenol	0.277	0.277	0.0	97	0.00
48		Dibenzofuran	1.763	1.776	-0.7	99	0.00
49		2,4-Dinitrotoluene	0.441	0.486	-10.2	102	0.00
50		Diethylphthalate	1.367	1.458	-6.7	100	0.00
51		Fluorene	1.438	1.494	-3.9	100	0.00
52		4-Chlorophenyl Phenyl Ether	0.676	0.701	-3.7	101	0.00
53		4-Nitroaniline	0.324	0.367	-13.3	107	0.00
54		1,2-Diphenylhydrazine	1.495	1.588	-6.2	100	0.00
55	S	2,4,6-Tribromophenol	0.198	0.211	-6.6	100	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
57		4,6-Dinitro-2-Methylphenol	0.163	0.163	0.0	100	0.00
58	C	n-Nitrosodiphenylamine	0.626	0.649	-3.7	101	0.00
59		4-Bromophenyl Phenyl Ether	0.255	0.263	-3.1	103	0.00
60		Hexachlorobenzene	0.297	0.307	-3.4	103	0.00
61	C	Pentachlorophenol	0.133	0.131	1.5	99	0.00
62		Phenanthrene	1.334	1.373	-2.9	101	0.00
63		Anthracene	1.334	1.390	-4.2	102	0.00
64		Carbazole	1.026	1.150	-12.1	115	0.00
65		Di-n-Butyl Phthalate	1.502	1.562	-4.0	100	0.00
66	C	Fluoranthene	1.492	1.548	-3.8	101	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
68		Benzidine	0.254	0.129	49.2#	60	0.00
69		Pyrene	1.373	1.423	-3.6	101	0.00
70	S	p-Terphenyl-d14	1.049	1.094	-4.3	102	0.00
71		Butyl Benzyl Phthalate	0.622	0.643	-3.4	101	0.00
72		Benzo[a]anthracene	1.291	1.319	-2.2	102	0.00
73		3,3'-Dichlorobenzidine	0.365	0.254	30.4	79	0.00
74		Chrysene	1.279	1.300	-1.6	103	0.00
75		bis(2-Ethylhexyl)phthalate	0.835	0.860	-3.0	100	0.00
76	I	Perylene-d12	1.000	1.000	0.0	104	0.00
77	C	Di-n-Octyl Phthalate	1.505	1.574	-4.6	100	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D
Acq On : 25 May 2001 8:22
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.307	1.363	-4.3	103	0.00
79		Benzo[k]fluoranthene	1.316	1.368	-4.0	104	0.00
80	C	Benzo[a]pyrene	1.164	1.209	-3.9	103	0.00
81		Indeno[1,2,3-cd]pyrene	1.132	1.244	-9.9	105	0.00
82		Dibenz[ah]anthracene	0.737	0.809	-9.8	106	0.00
83		Benzo[ghi]perylene	0.917	1.002	-9.3	104	0.00

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D Vial: 2
Acq On : 25 May 2001 8:22 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	263534	40.00	ug/ml	0.00
19) Naphthalene-d8	9.73	136	1013377	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	524681	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.07	188	880979	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	976779	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	872446	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	490020	51.37	ug/ml	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 51.37%			
6) Phenol-d5	8.02	99	596572	51.64	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 51.64%			
20) Nitrobenzene-d5	9.01	82	536504	52.33	ug/ml	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 104.66%			
38) 2-Fluorobiphenyl	10.81	172	1032927	53.26	ug/ml	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 106.52%			
55) 2,4,6-Tribromophenol	12.36	330	138222	51.58	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 51.58%			
70) p-Terphenyl-d14	14.66	244	1335280	52.12	ug/ml	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 104.24%			
Target Compounds						Qvalue
2) Pyridine	5.42	79	596443	53.56	ug/ml	100
3) n-Nitrosodimethylamine	5.40	74	326574	51.14	ug/ml	100
5) Aniline	8.10	66	305601	50.13	ug/ml	97
7) Phenol	8.04	94	646165	51.76	ug/ml	100
8) bis(2-Chloroethyl)ether	8.14	63	371414	51.27	ug/ml	98
9) 2-Chlorophenol	8.23	128	516643	51.54	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	566102	51.28	ug/ml	99
11) 1,4-Dichlorobenzene	8.44	146	609631	51.54	ug/ml	99
12) Benzyl Alcohol	8.55	108	339192	52.35	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	547508	51.20	ug/ml	100
14) 2-Methylphenol	8.65	107	404326	51.07	ug/ml	100
15) bis(2-Chloroisopropyl)ethe	8.67	45	794704	51.27	ug/ml	99
16) 4-Methylphenol	8.79	107	596136	51.95	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	340115	51.53	ug/ml	100
18) Hexachloroethane	8.95	117	228474	51.74	ug/ml	98
21) Nitrobenzene	9.02	77	549669	51.71	ug/ml	100
22) Isophorone	9.24	82	880025	51.67	ug/ml	100
23) 2-Nitrophenol	9.34	139	292823	53.13	ug/ml	99
24) 2,4-Dimethylphenol	9.33	122	441731	51.74	ug/ml	99
25) bis(2-Chloroethoxy)methane	9.43	93	580641	51.76	ug/ml	99

(#) = qualifier out of range (m) = manual integration
4M8543.D BNA.M Fri May 25 09:19:09 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D
Acq On : 25 May 2001 8:22
Sample : 50PPM BNA STD
Misc : 1,1
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001

Vial: 2
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) Benzoic Acid	9.41	122	188454	47.99	ug/ml	100
27) 2,4-Dichlorophenol	9.58	162	406745	52.14	ug/ml	100
28) 1,2,4-Trichlorobenzene	9.66	180	449497	51.80	ug/ml	99
29) Naphthalene	9.76	128	1521773	51.50	ug/ml	100
30) 4-Chloroaniline	9.80	127	623050	50.90	ug/ml	100
31) Hexachlorobutadiene	9.85	225	258743	51.73	ug/ml	100
32) 4-Chloro-3-Methylphenol	10.25	107	412165	52.65	ug/ml	100
33) 2-Methylnaphthalene	10.45	142	974010	51.62	ug/ml	100
35) Hexachlorocyclopentadiene	10.61	237	131507	52.62	ug/ml	100
36) 2,4,6-Trichlorophenol	10.73	196	260715	54.16	ug/ml	100
37) 2,4,5-Trichlorophenol	10.78	196	284602	52.68	ug/ml	100
39) 2-Chloronaphthalene	10.96	162	892499	52.38	ug/ml	100
40) 2-Nitroaniline	11.07	65	282304	51.82	ug/ml	99
41) Dimethylphthalate	11.20	163	954149	52.18	ug/ml	100
42) Acenaphthylene	11.40	152	1325667	51.81	ug/ml	100
43) 2,6-Dinitrotoluene	11.30	165	227277	53.42	ug/ml	100
44) 3-Nitroaniline	11.49	138	219254	49.00	ug/ml	99
45) Acenaphthene	11.58	154	858196	51.17	ug/ml	100
46) 2,4-Dinitrophenol	11.59	184	99147	49.69	ug/ml	90
47) 4-Nitrophenol	11.62	65	181474	49.92	ug/ml	98
48) Dibenzofuran	11.74	168	1164567	50.37	ug/ml	99
49) 2,4-Dinitrotoluene	11.72	165	318864	55.10	ug/ml	100
50) Diethylphthalate	11.91	149	956233	53.31	ug/ml	100
51) Fluorene	12.09	166	980119	51.94	ug/ml	100
52) 4-Chlorophenyl Phenyl Ethe	12.06	204	459686	51.85	ug/ml	100
53) 4-Nitroaniline	12.13	138	240761	56.64	ug/ml#	93
54) 1,2-Diphenylhydrazine	12.22	77	1041663	53.12	ug/ml	100
57) 4,6-Dinitro-2-Methylphenol	12.14	198	179173	49.83	ug/ml	99
58) n-Nitrosodiphenylamine	12.18	169	714977	51.90	ug/ml	100
59) 4-Bromophenyl Phenyl Ether	12.56	248	289589	51.49	ug/ml	99
60) Hexachlorobenzene	12.68	284	337833	51.59	ug/ml	99
61) Pentachlorophenol	12.87	266	144603	49.67	ug/ml	99
62) Phenanthrene	13.10	178	1511775	51.46	ug/ml	100
63) Anthracene	13.15	178	1530949	52.12	ug/ml	100
64) Carbazole	13.30	167	1266678	64.98	ug/ml	99
65) Di-n-Butyl Phthalate	13.55	149	1720308	52.00	ug/ml	100
66) Fluoranthene	14.33	202	1705132	51.89	ug/ml	100
68) Benzidine	14.43	184	157530	25.39	ug/ml	100
69) Pyrene	14.58	202	1737382	51.82	ug/ml	100
71) Butyl Benzyl Phthalate	15.11	149	784506	51.64	ug/ml	100
72) Benzo[a]anthracene	15.84	228	1609922	51.07	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052501\4M8543.D Vial: 2
Acq On : 25 May 2001 8:22 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001 Quant Results File: BNA.RES

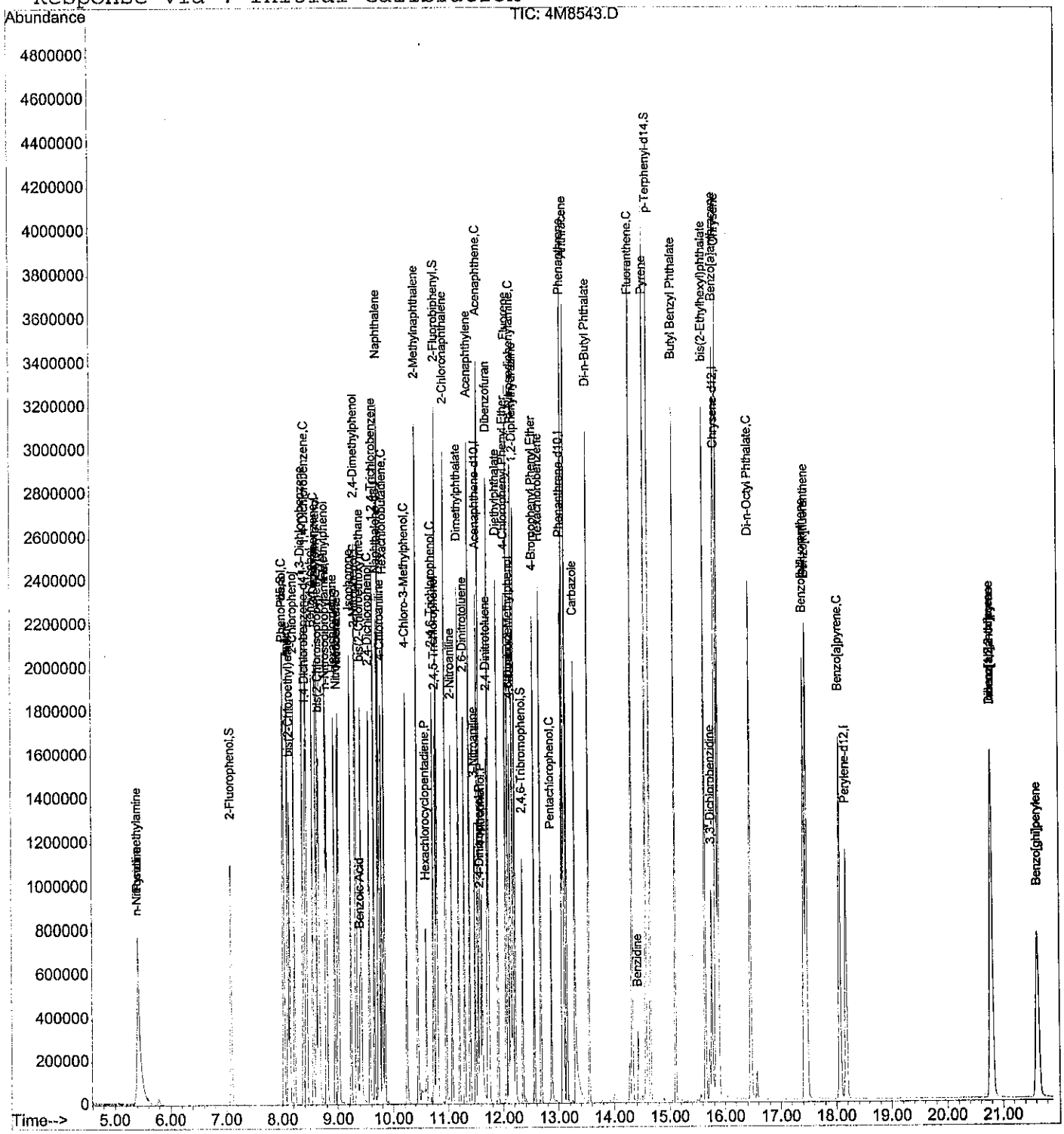
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73)	3,3'-Dichlorobenzidine	15.77	252	310548	34.82	ug/ml	99
74)	Chrysene	15.89	228	1587539	50.84	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.65	149	1049782	51.50	ug/ml	100
77)	Di-n-Octyl Phthalate	16.46	149	1717002	52.30	ug/ml	100
78)	Benzo[b]fluoranthene	17.43	252	1486382	52.16	ug/ml	100
79)	Benzo[k]fluoranthene	17.47	252	1491993	51.99	ug/ml	99
80)	Benzo[a]pyrene	18.07	252	1318128	51.93	ug/ml	100
81)	Indeno[1,2,3-cd]pyrene	20.80	276	1356620	54.93	ug/ml#	99
82)	Dibenz[ah]anthracene	20.80	278	882358	54.87	ug/ml	99
83)	Benzo[ghi]perylene	21.62	276	1093122	54.63	ug/ml	100

(#) = qualifier out of range (m) = manual integration

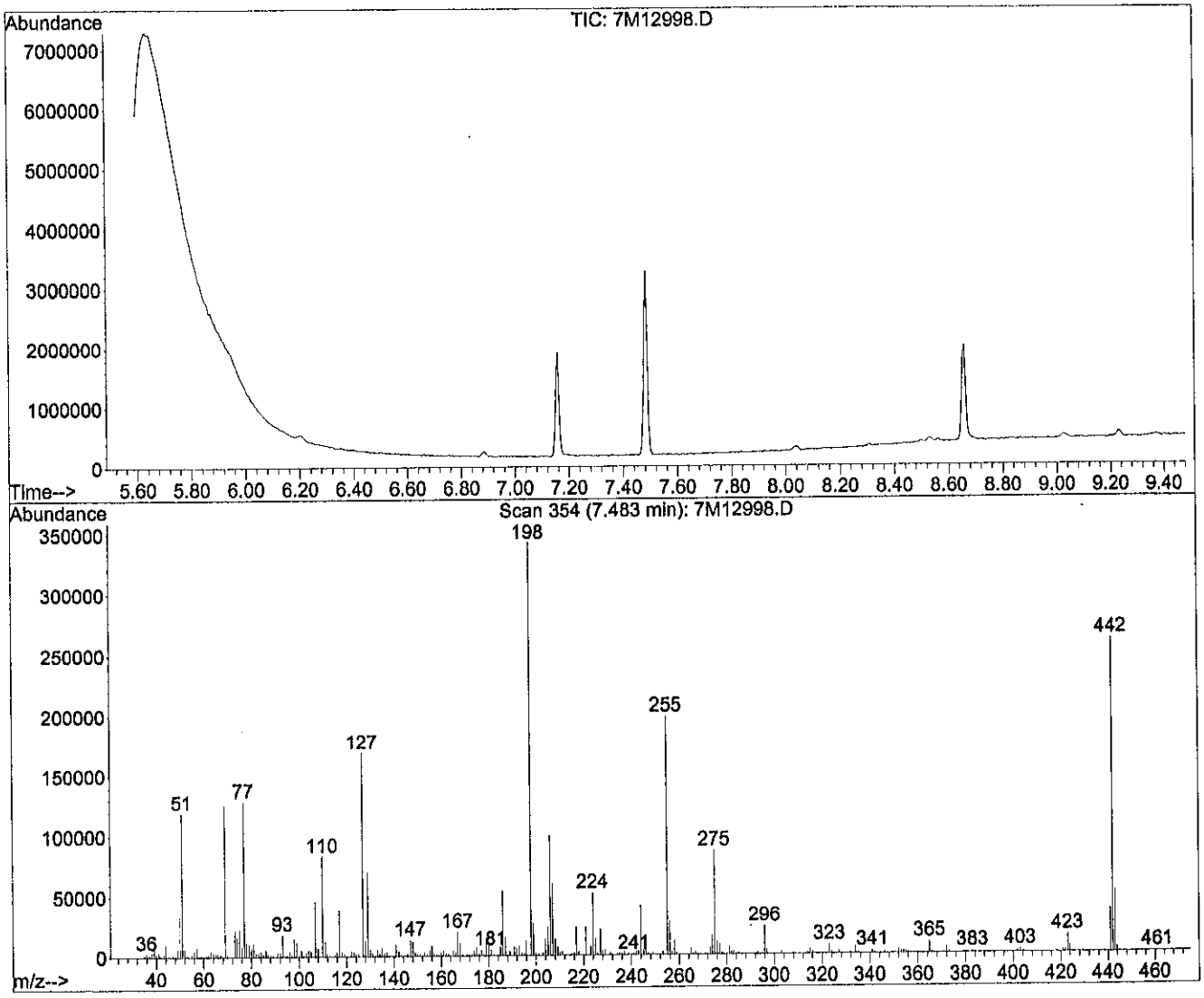
Data File : C:\HPCHEM\1\DATA\052501\4M8543.D Vial: 2
Acq On : 25 May 2001 8:22 Operator: mdc
Sample : 50PPM BNA STD Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:19 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/24/01
Last Update : Fri May 25 08:16:49 2001
Response via : Initial Calibration



2.2.1.4 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\052101\7M12998.D Vial: 1
Acq On : 21 May 2001 17:54 Operator: mdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP



Spectrum Information: Scan 354

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	119176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.8	126072	PASS
70	69	0.00	2	1.3	1649	PASS
127	198	40	60	49.3	168960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	342528	PASS
199	198	5	9	7.6	26176	PASS
275	198	10	30	25.2	86400	PASS
365	198	1	100	2.9	9883	PASS
441	443	0.01	100	73.2	37424	PASS
442	198	40	100	76.1	260672	PASS
443	442	17	23	19.6	51144	PASS

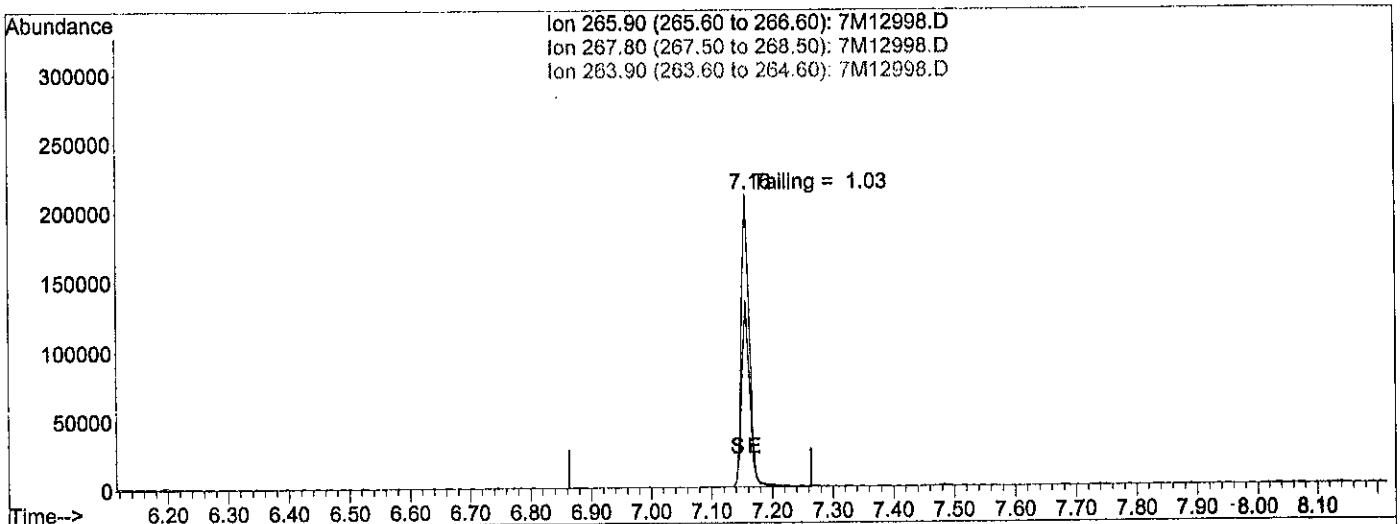
7M12998.D PAHDFTPP.M Tue May 22 07:49:30 2001

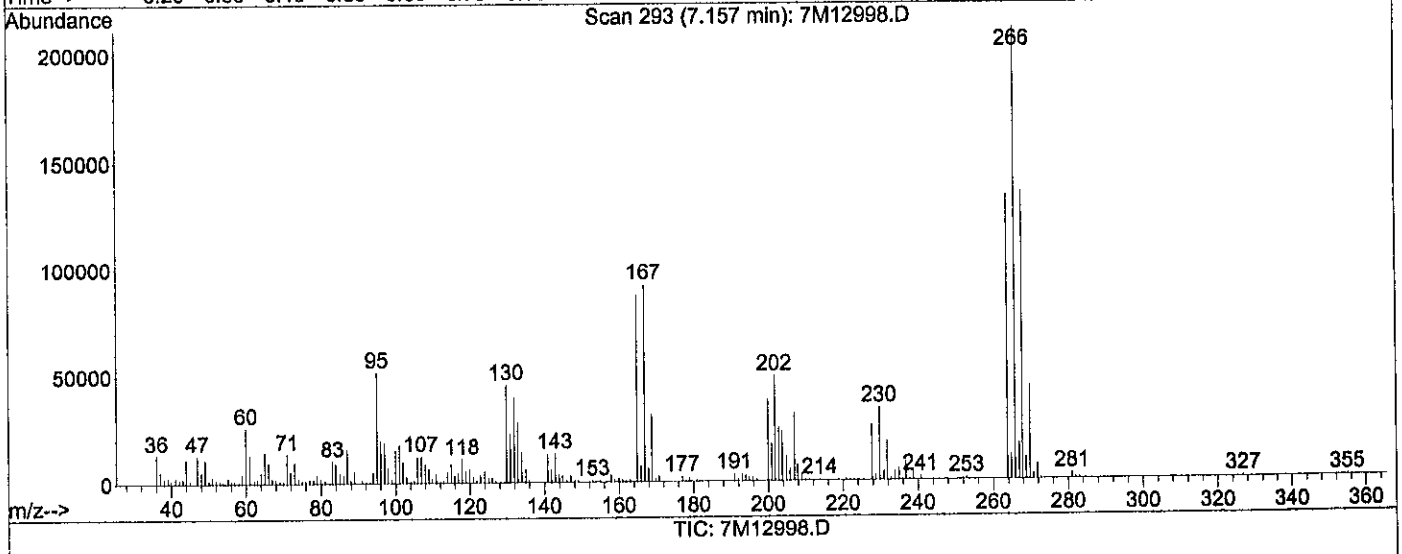
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M12998.D

(1) PENTACHLOROPHENOL

7.16mln 0.00

response 192777

Ion	Exp%	Act%
265.90	100	100
267.80	62.20	64.14
263.90	65.00	61.88
0.00	0.00	0.00

7M12998.D PAHDFTPP.M Tue May 22 07:49:42 2001

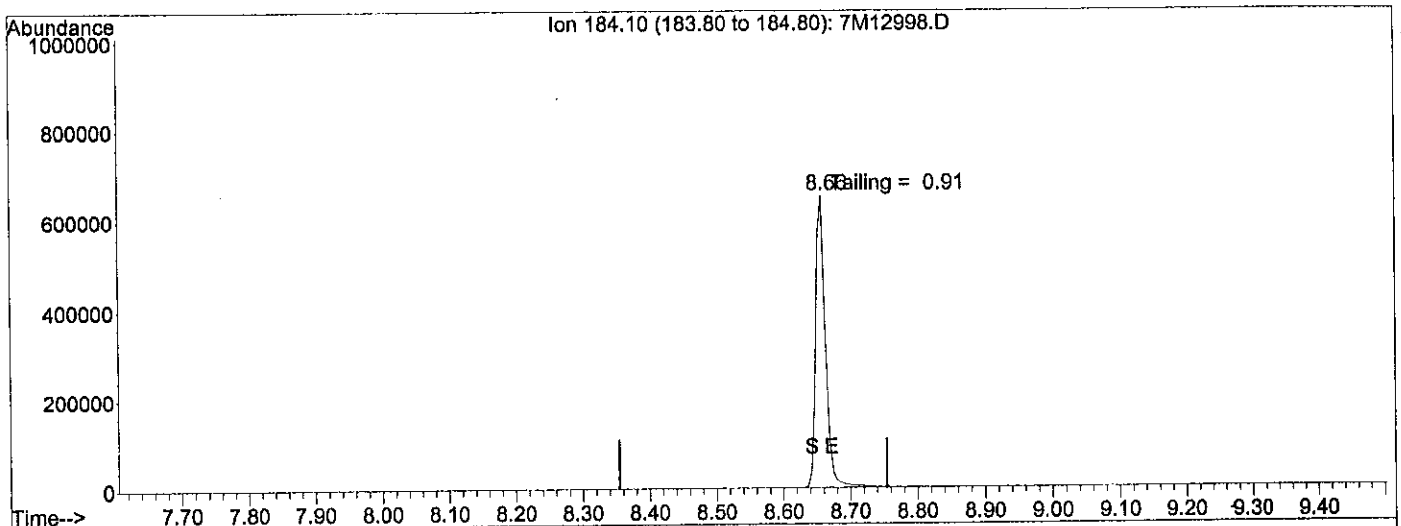
744

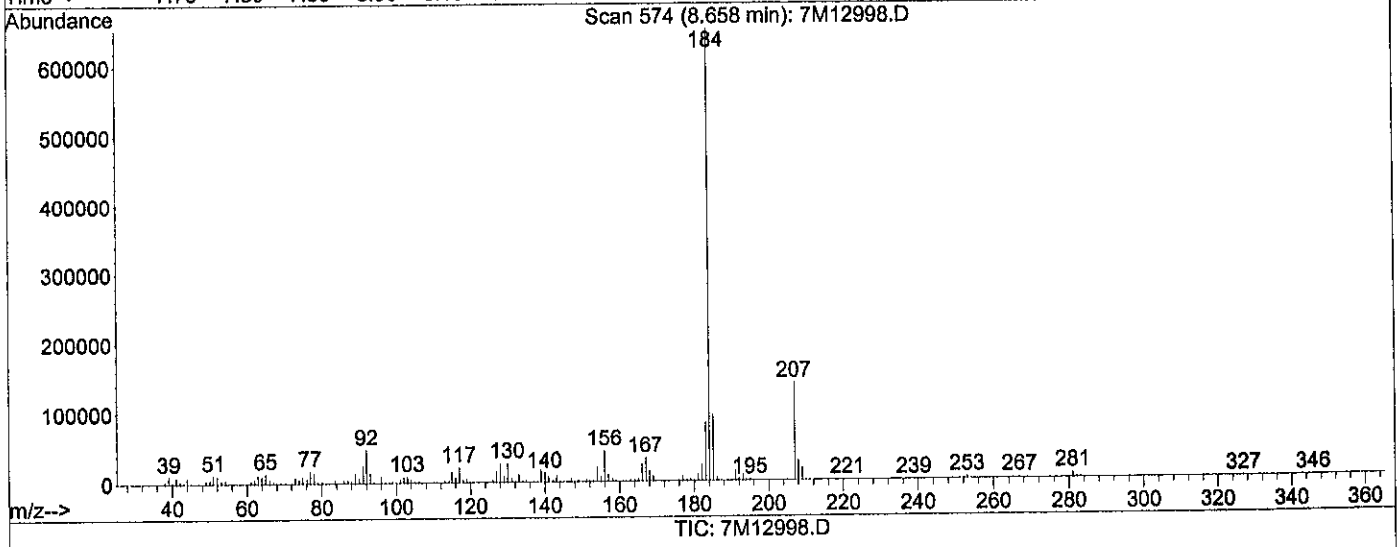
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M12998.D

(2) BENZIDINE

8.55min 0.00

response 0

Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

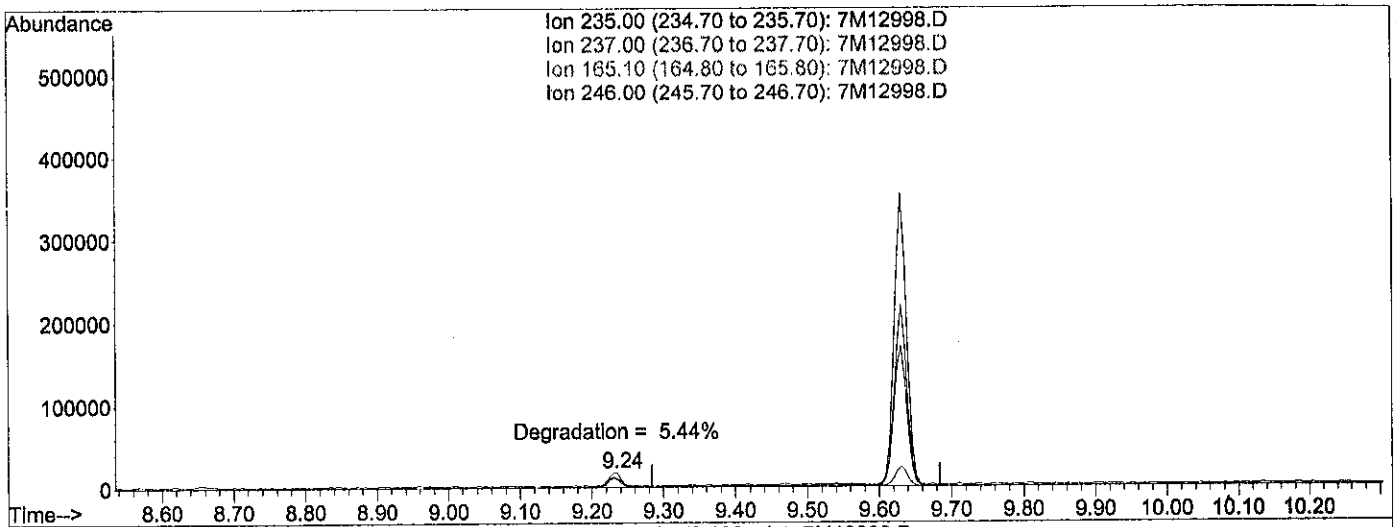
7M12998.D PAHDFTPP.M Tue May 22 07:49:52 2001

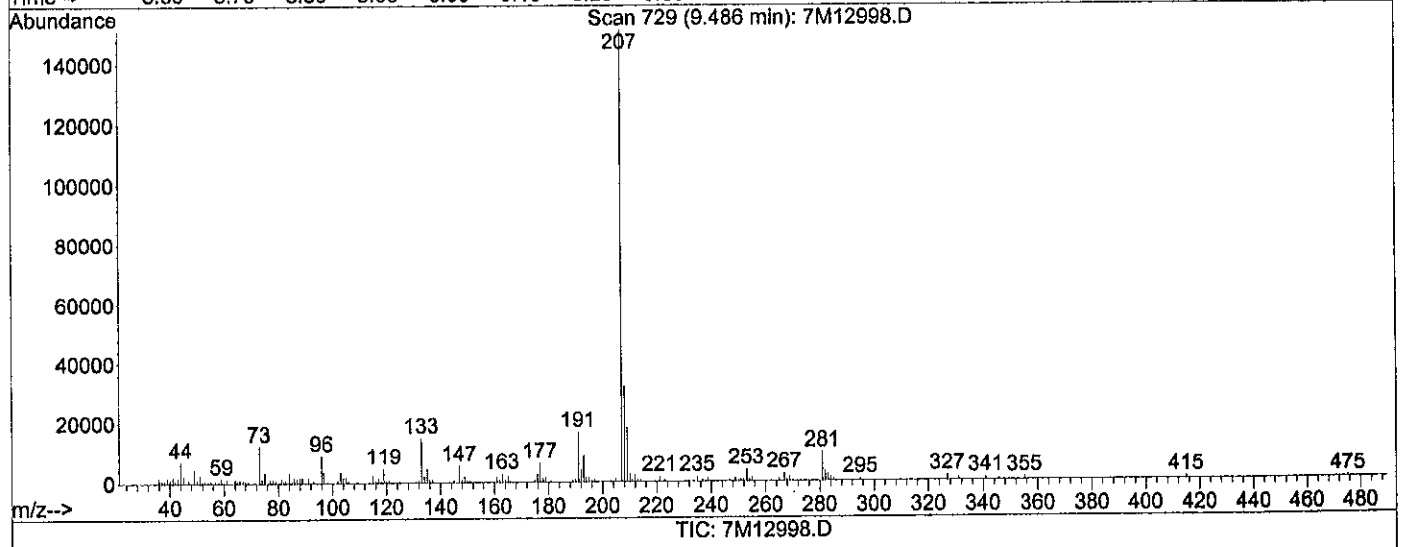
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M12998.D

(3) DDT

9.48min 0.00

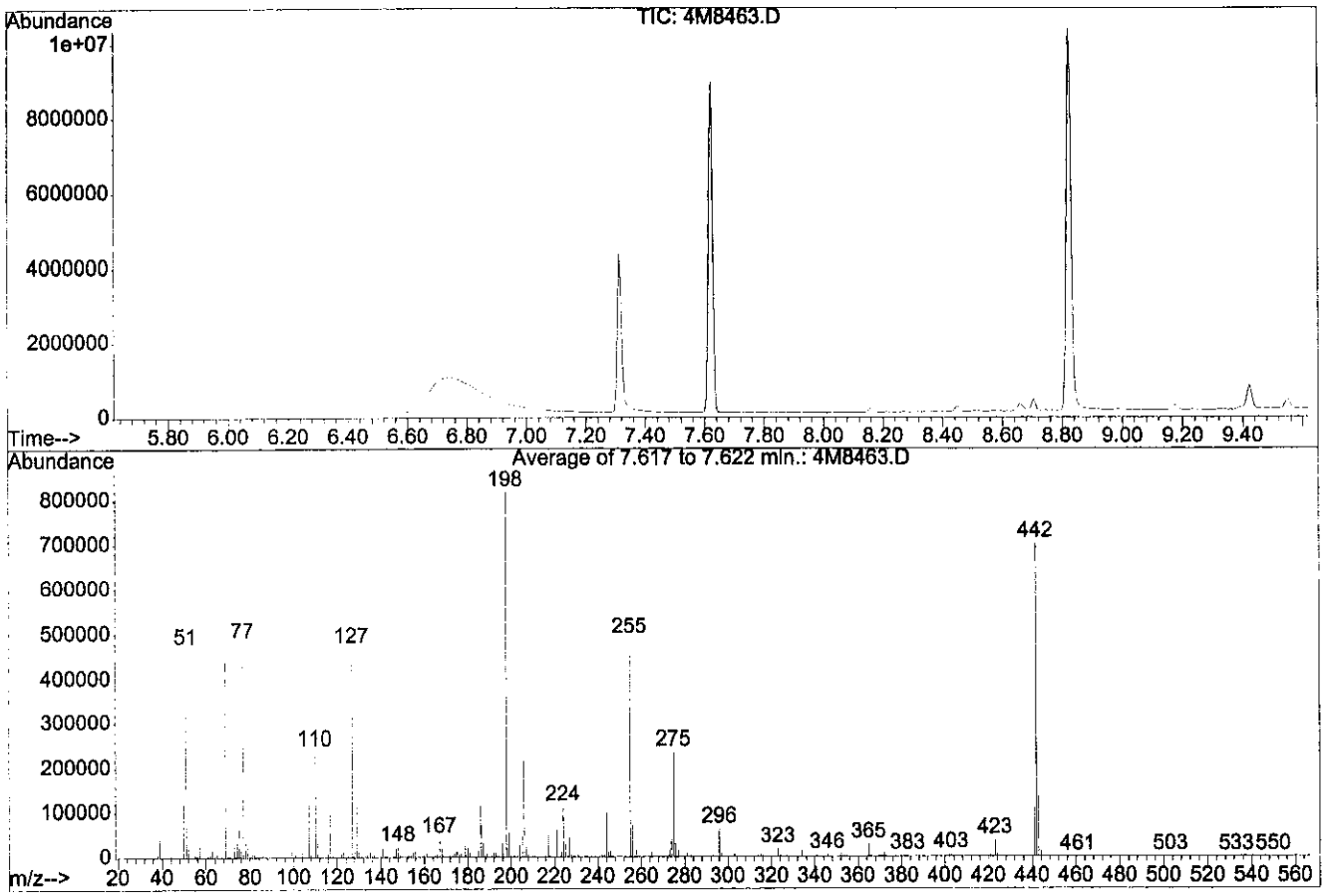
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

7M12998.D PAHDFTPP.M Tue May 22 07:50:00 2001

Data File : C:\HPCHEM\1\DATA\052201\4M8463.D
Acq On : 22 May 2001 10:28
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Average of 7.617 to 7.622 min.

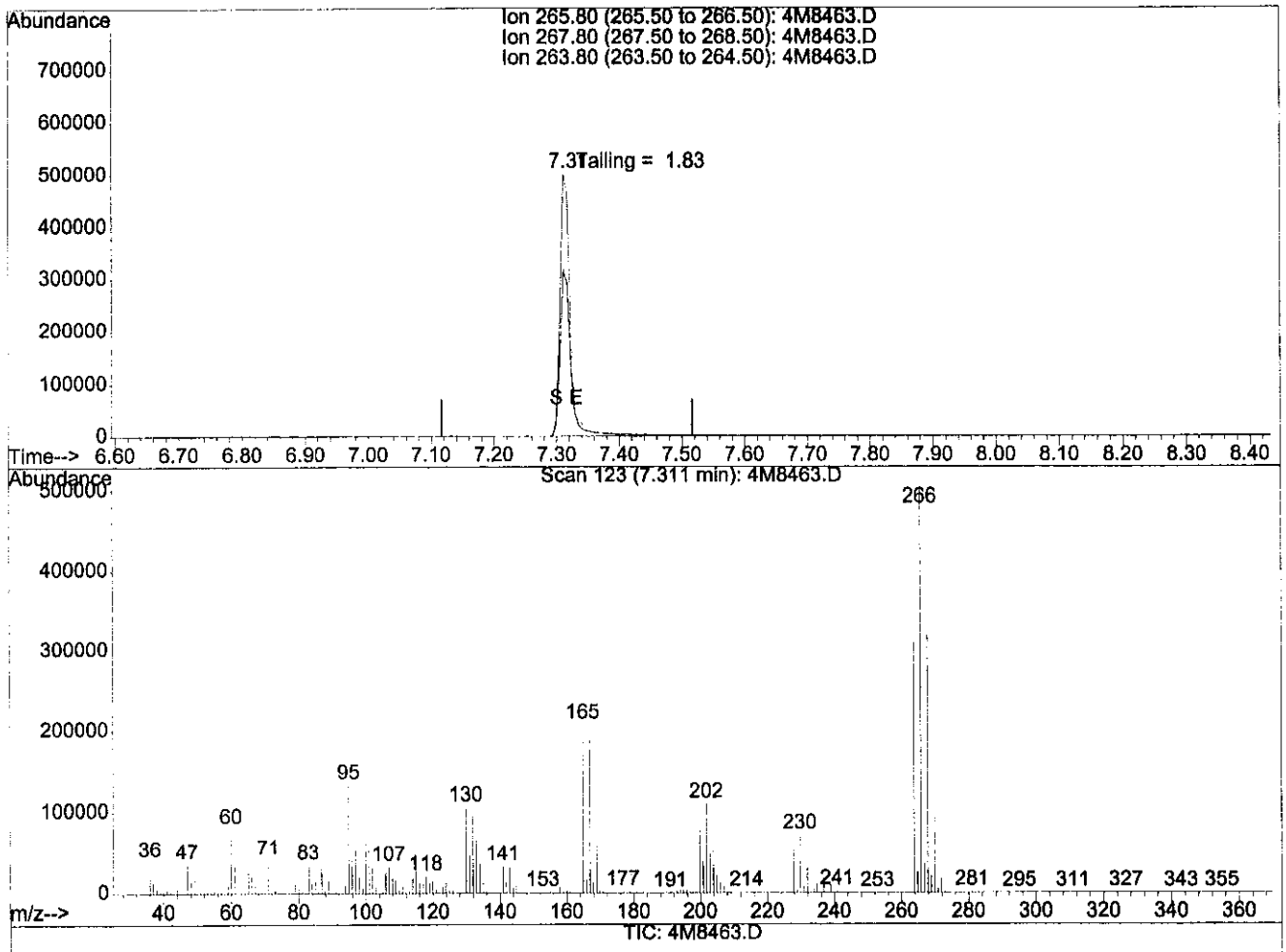
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.7	467808	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.7	443232	PASS
70	69	0.00	2	0.7	3141	PASS
127	198	40	60	56.8	468992	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	825696	PASS
199	198	5	9	6.8	56188	PASS
275	198	10	30	28.6	235808	PASS
365	198	1	100	3.5	28752	PASS
441	443	0.01	100	80.5	109668	PASS
442	198	40	100	85.1	702400	PASS
443	442	17	23	19.4	136216	PASS

4M8463.D DFTPP.M Wed May 23 08:21:10 2001 HPMS4

747

Data File : C:\HPCHEM\1\DATA\052201\4M8463.D Vial: 1
Acq On : 22 May 2001 10:28 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 8:21 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.31min 0.00

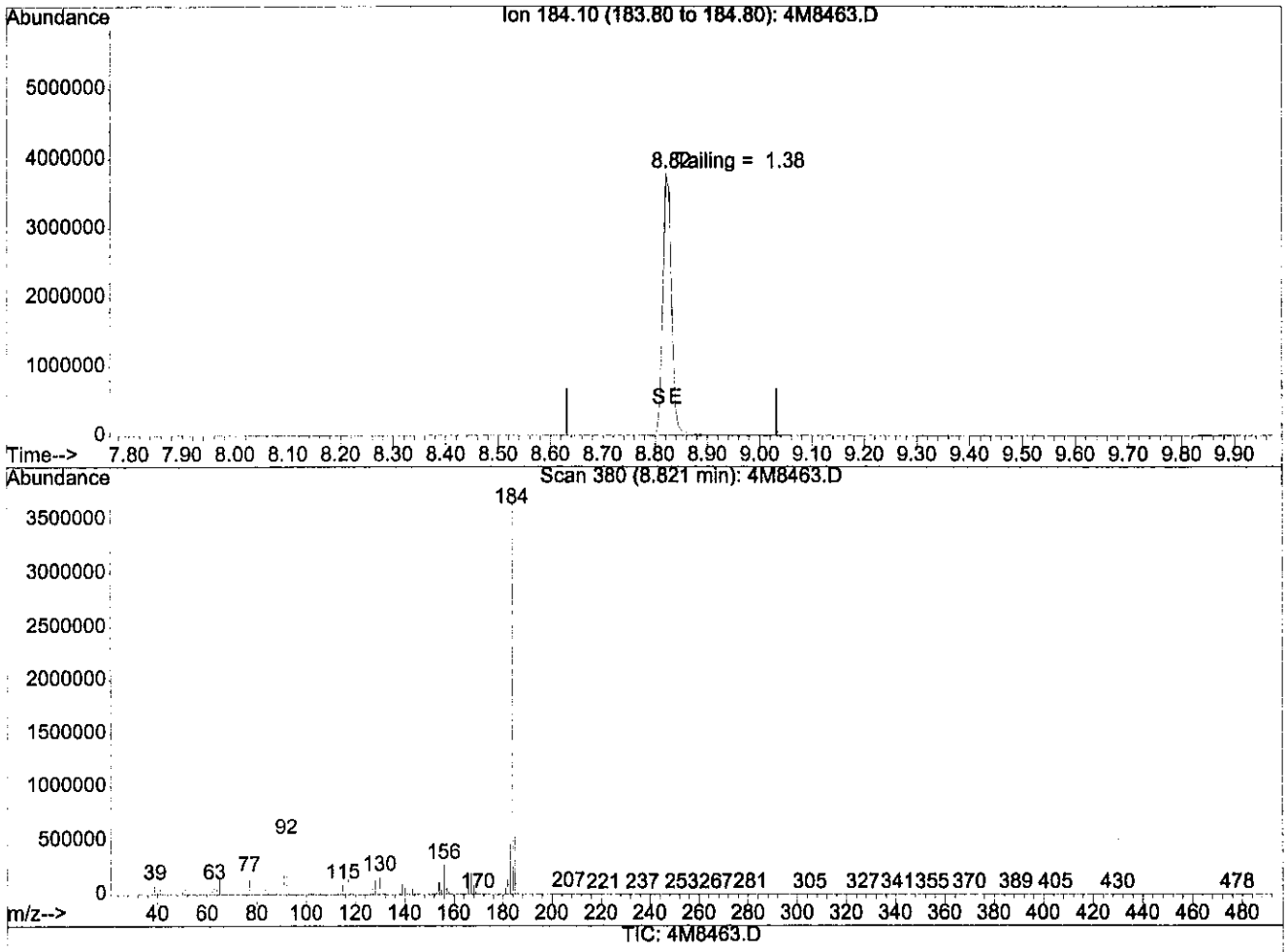
response 585376

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	63.29
263.80	63.20	63.58
0.00	0.00	0.00

4M8463.D DFTPP.M Wed May 23 08:21:21 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052201\4M8463.D Vial: 1
Acq On : 22 May 2001 10:28 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 8:21 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

8.82min 0.00

response 4447792

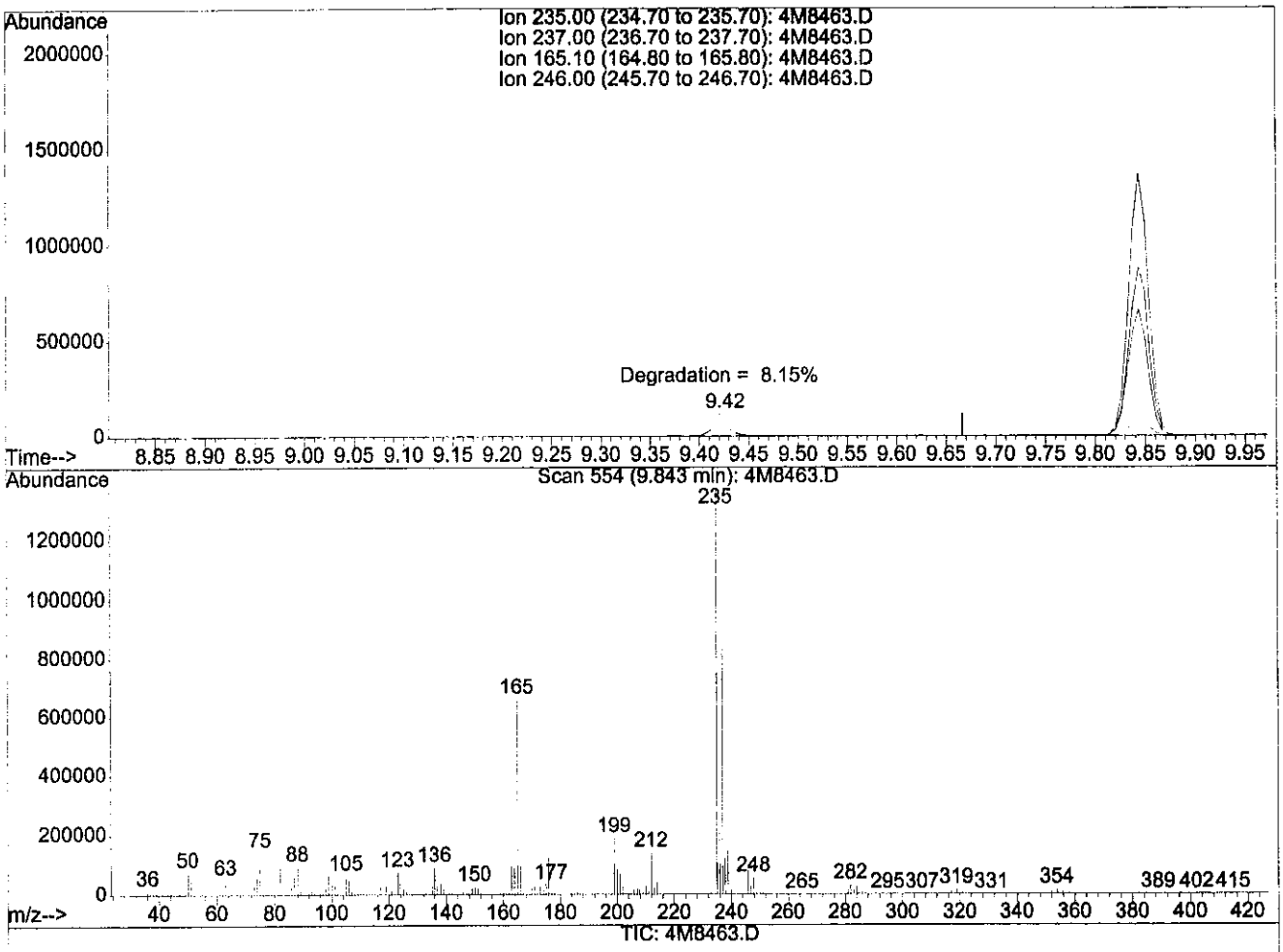
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

4M8463.D DFTPP.M Wed May 23 08:21:26 2001 HPMS4

749

Data File : C:\HPCHEM\1\DATA\052201\4M8463.D Vial: 1
Acq On : 22 May 2001 10:28 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 8:21 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.84min 0.00

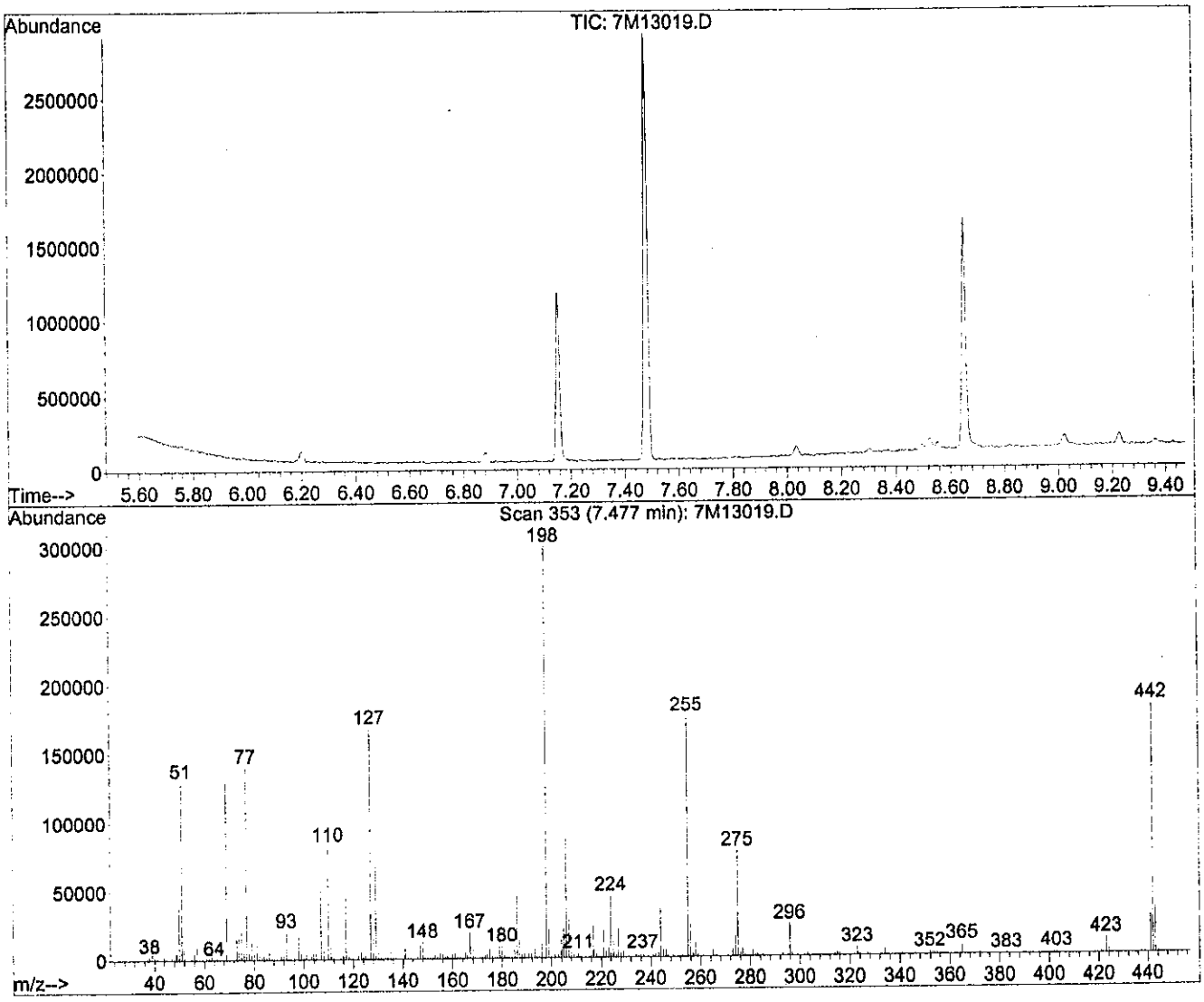
response 1881721

Ion	Exp%	Act%
235.00	100	100
237.00	64.40	64.76
165.10	45.40	48.30
246.00	6.10	5.96

4M8463.D DFTPP.M Wed May 23 08:21:34 2001 HPMS4

Data File : C:\MSDCHEM\1\DATA\052201\7M13019.D
Acq On : 22 May 2001 11:30
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00



Spectrum Information: Scan 353

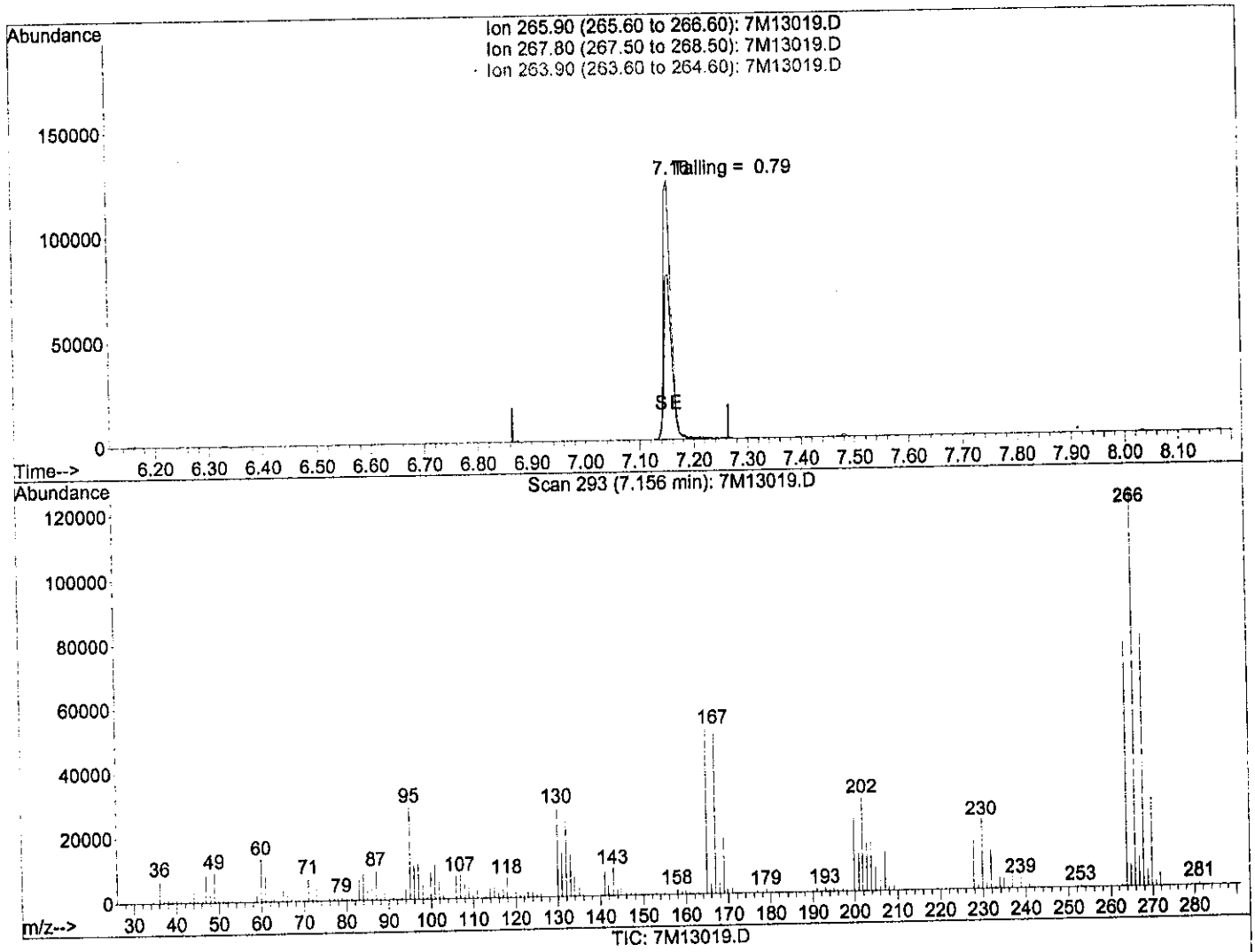
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.2	129992	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.8	128792	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.9	168064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	300736	PASS
199	198	5	9	7.3	21984	PASS
275	198	10	30	25.7	77280	PASS
365	198	1	100	2.7	8097	PASS
441	443	0.01	100	84.6	28744	PASS
442	198	40	100	60.6	182336	PASS
443	442	17	23	18.6	33960	PASS

Data File : C:\MSDCHEM\1\DATA\052201\7M13019.D
Acq On : 22 May 2001 11:30
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 11:41 2001

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

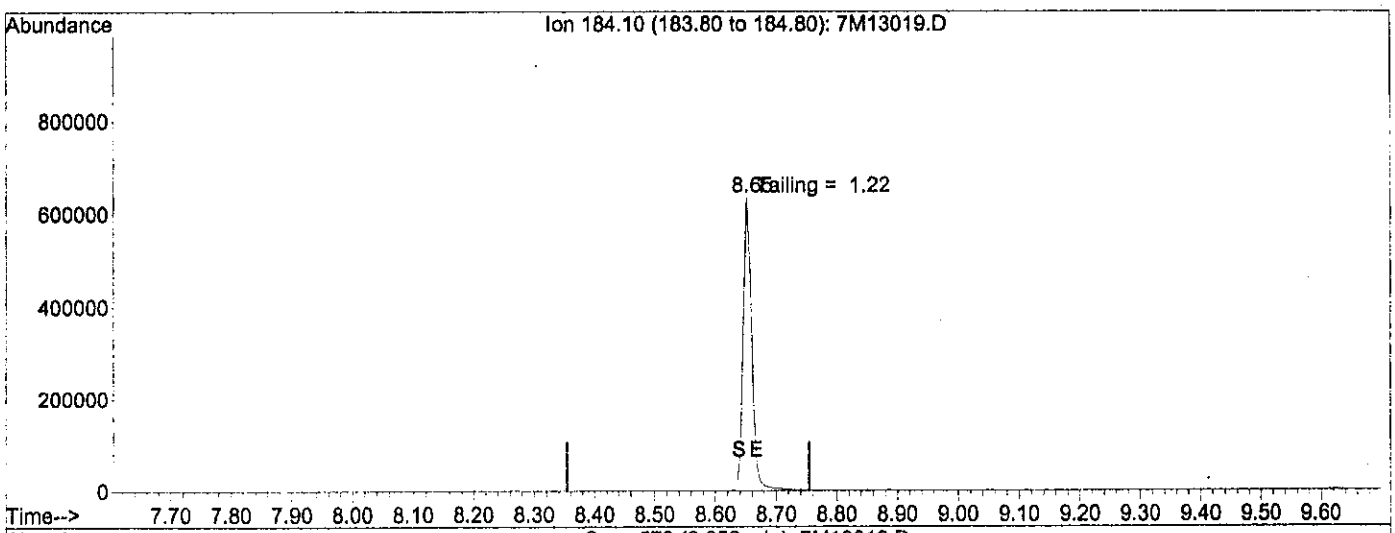
7.16min 0.00

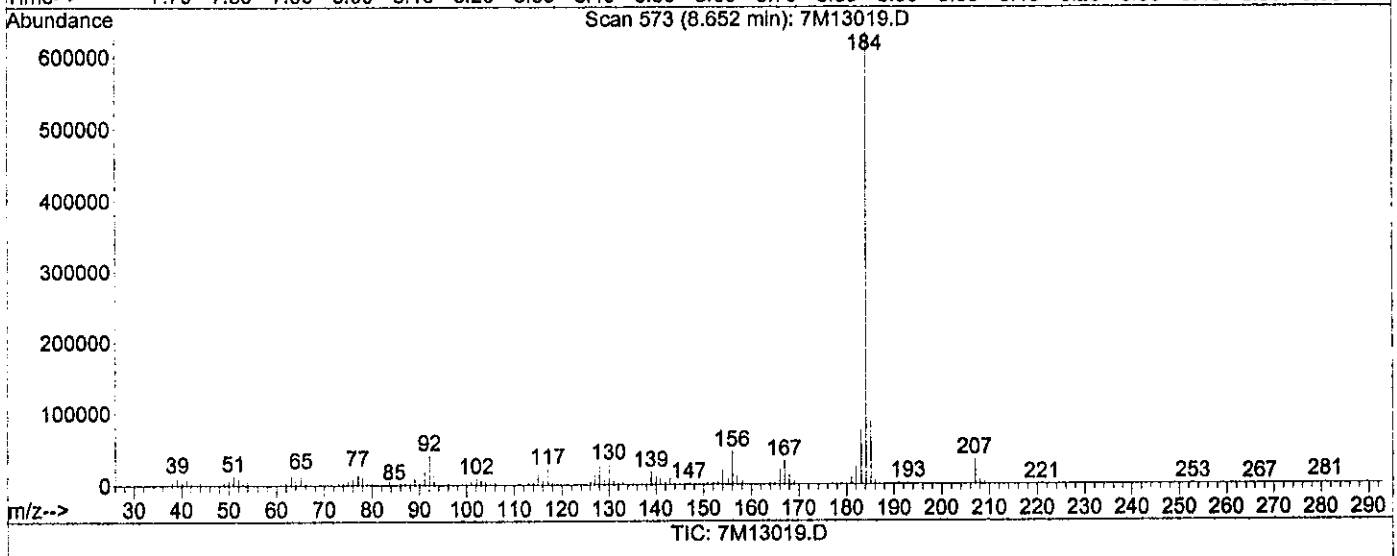
response 122061

Ion	Exp%	Act%
265.90	100	100
267.80	62.20	62.94
263.90	65.00	62.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052201\7M13019.D Vial: 1
Acq On : 22 May 2001 11:30 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 11:41 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13019.D

(2) BENZIDINE

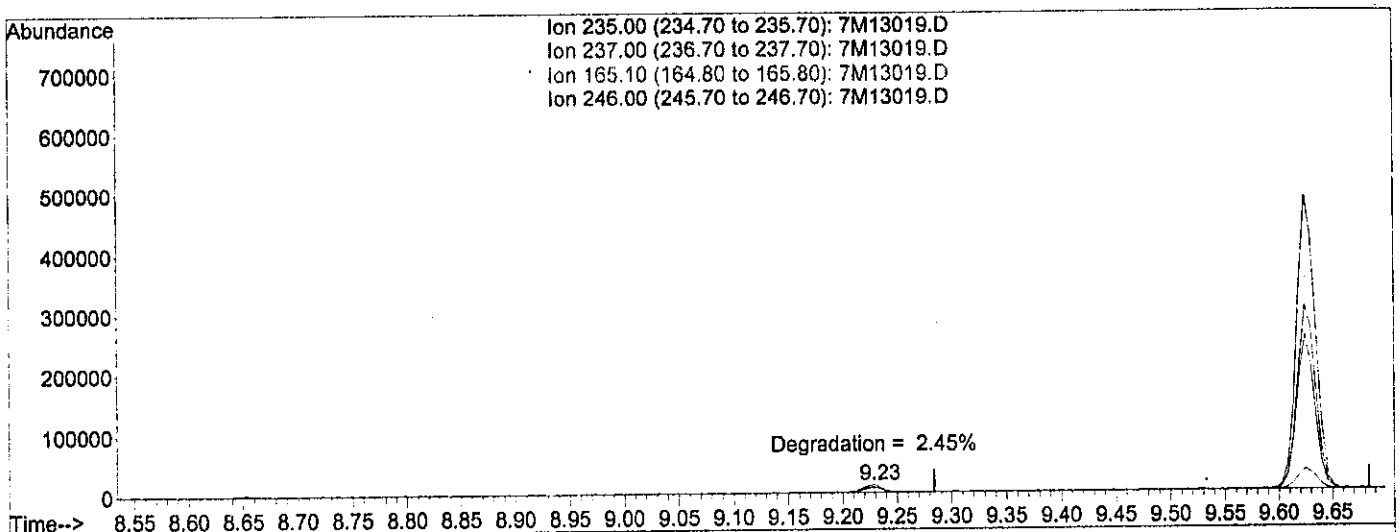
8.65min 0.00

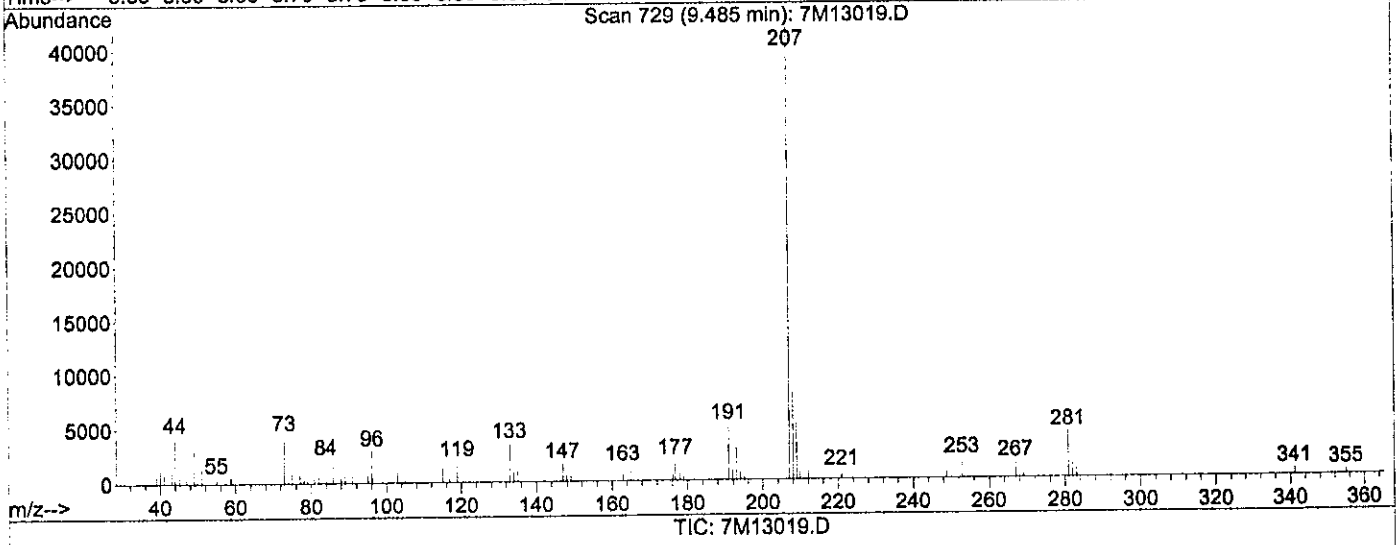
response 610714

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052201\7M13019.D Vial: 1
Acq On : 22 May 2001 11:30 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 11:41 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13019.D

(3) DDT

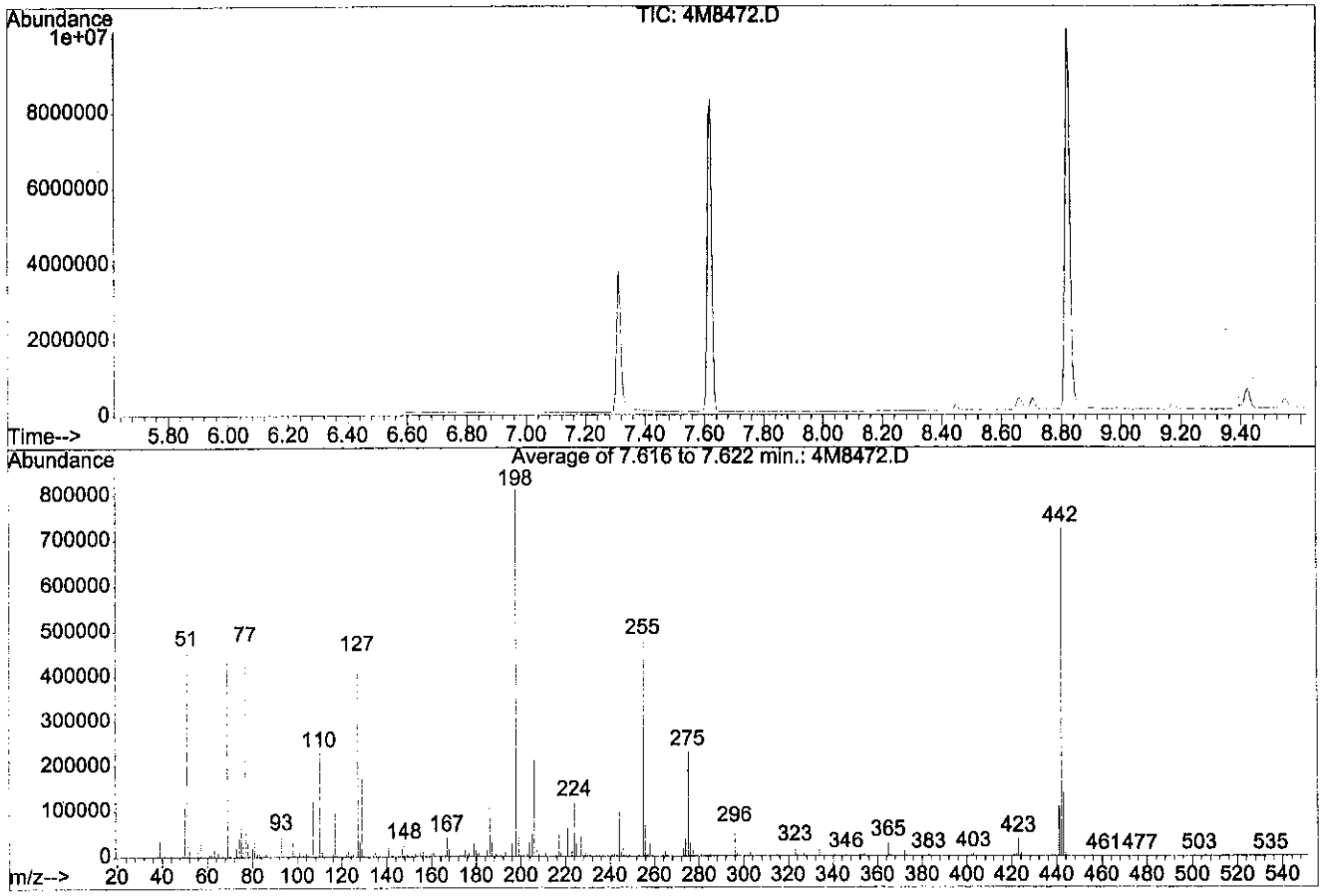
9.48min 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

Data File : C:\HPCHEM\1\DATA\052201\4M8472.D
Acq On : 22 May 2001 14:59
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



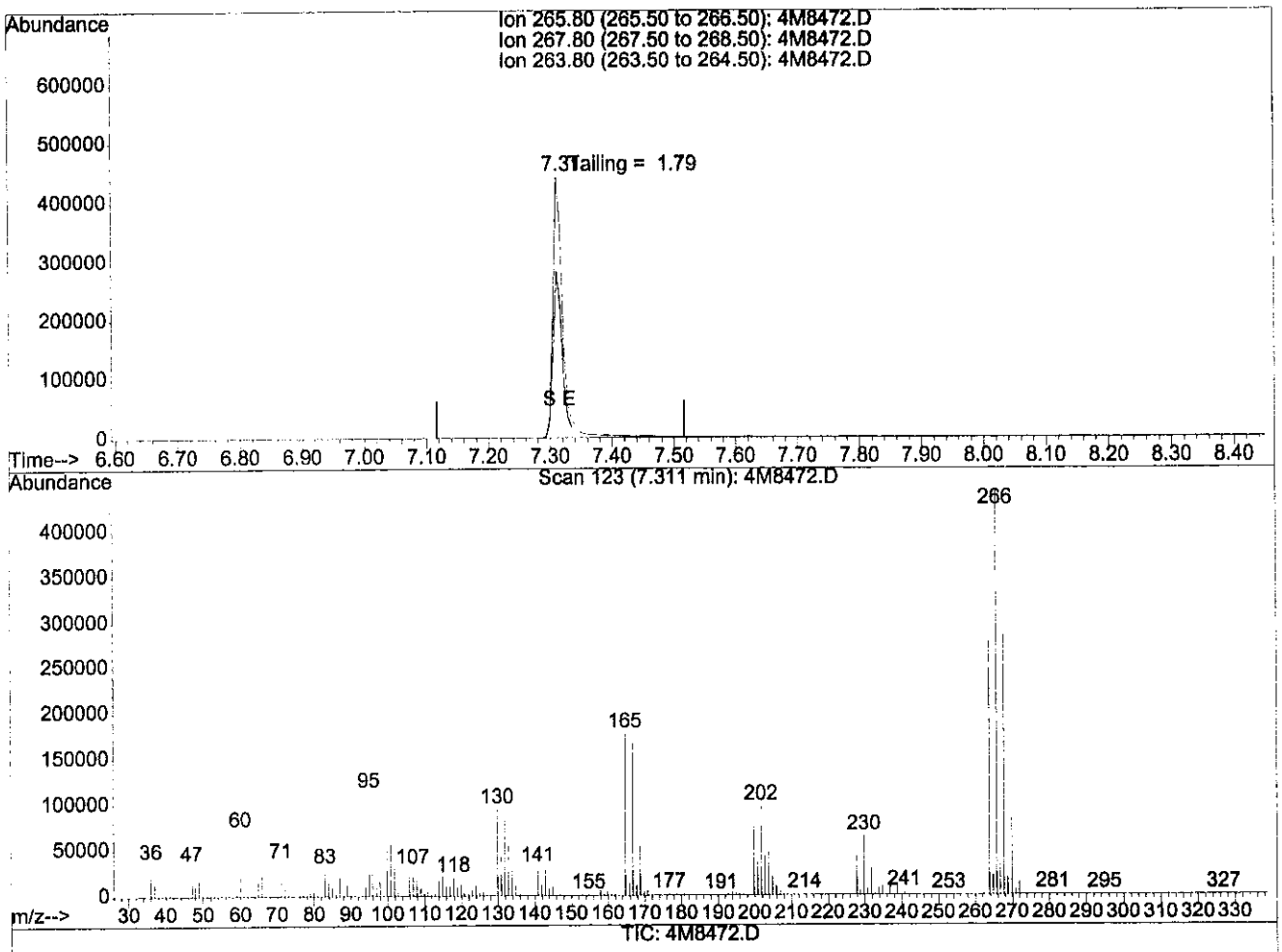
Spectrum Information: Average of 7.616 to 7.622 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.3	458496	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.2	433024	PASS
70	69	0.00	2	0.7	2821	PASS
127	198	40	60	54.7	444960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	813952	PASS
199	198	5	9	6.8	55044	PASS
275	198	10	30	28.4	231392	PASS
365	198	1	100	3.7	30032	PASS
441	443	0.01	100	78.8	110944	PASS
442	198	40	100	89.0	724608	PASS
443	442	17	23	19.4	140812	PASS

4M8472.D DFTPP.M Wed May 23 08:34:10 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052201\4M8472.D Vial: 10
Acq On : 22 May 2001 14:59 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 15:10 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.31min 0.00

response 500607

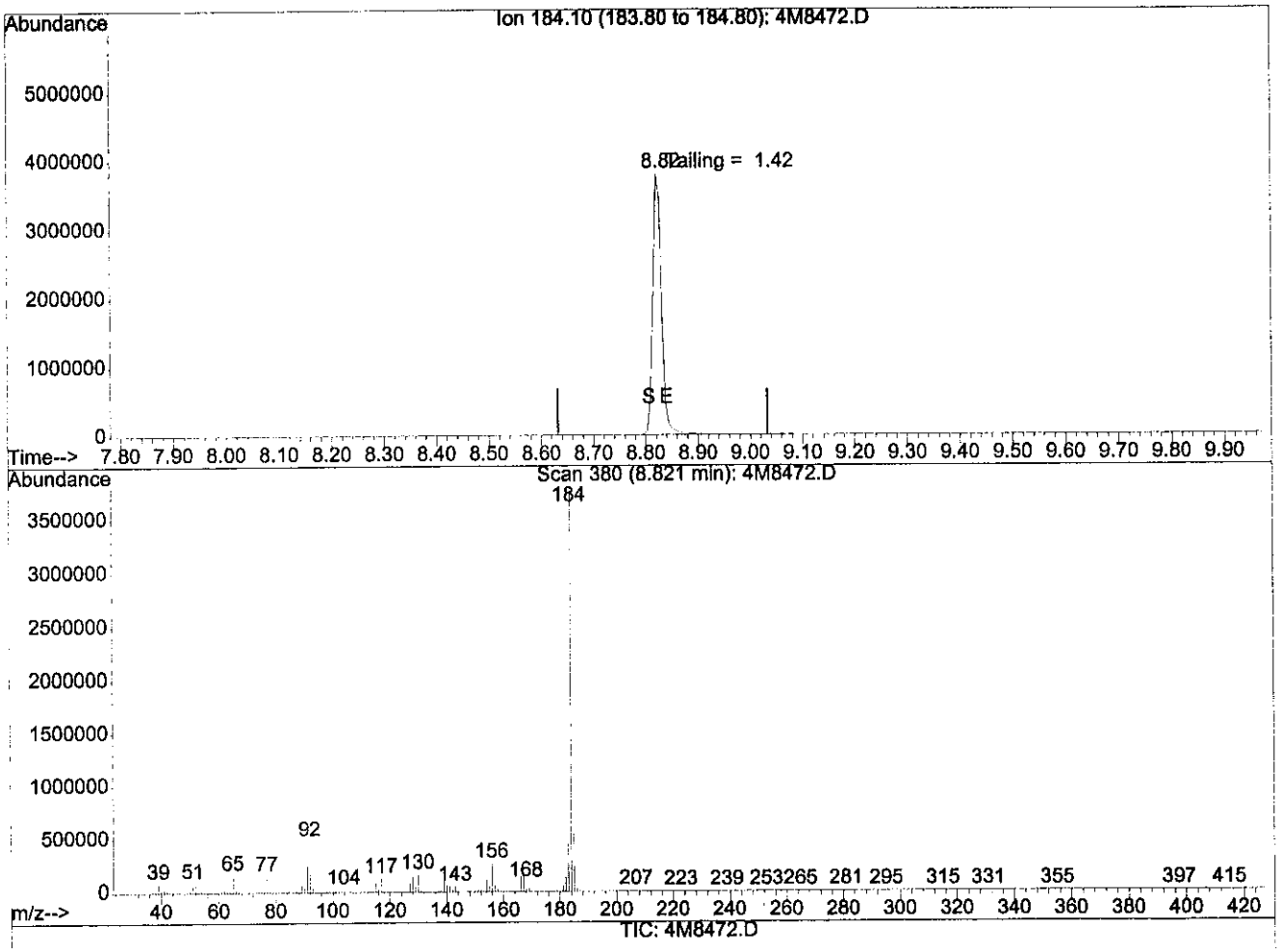
Ion	Exp%	Act%
265.80	100	100
267.80	63.70	64.29
263.80	63.20	61.98
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\052201\4M8472.D
Acq On : 22 May 2001 14:59
Sample : 50PPM DFTPP
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 15:10 2001

Vial: 10
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

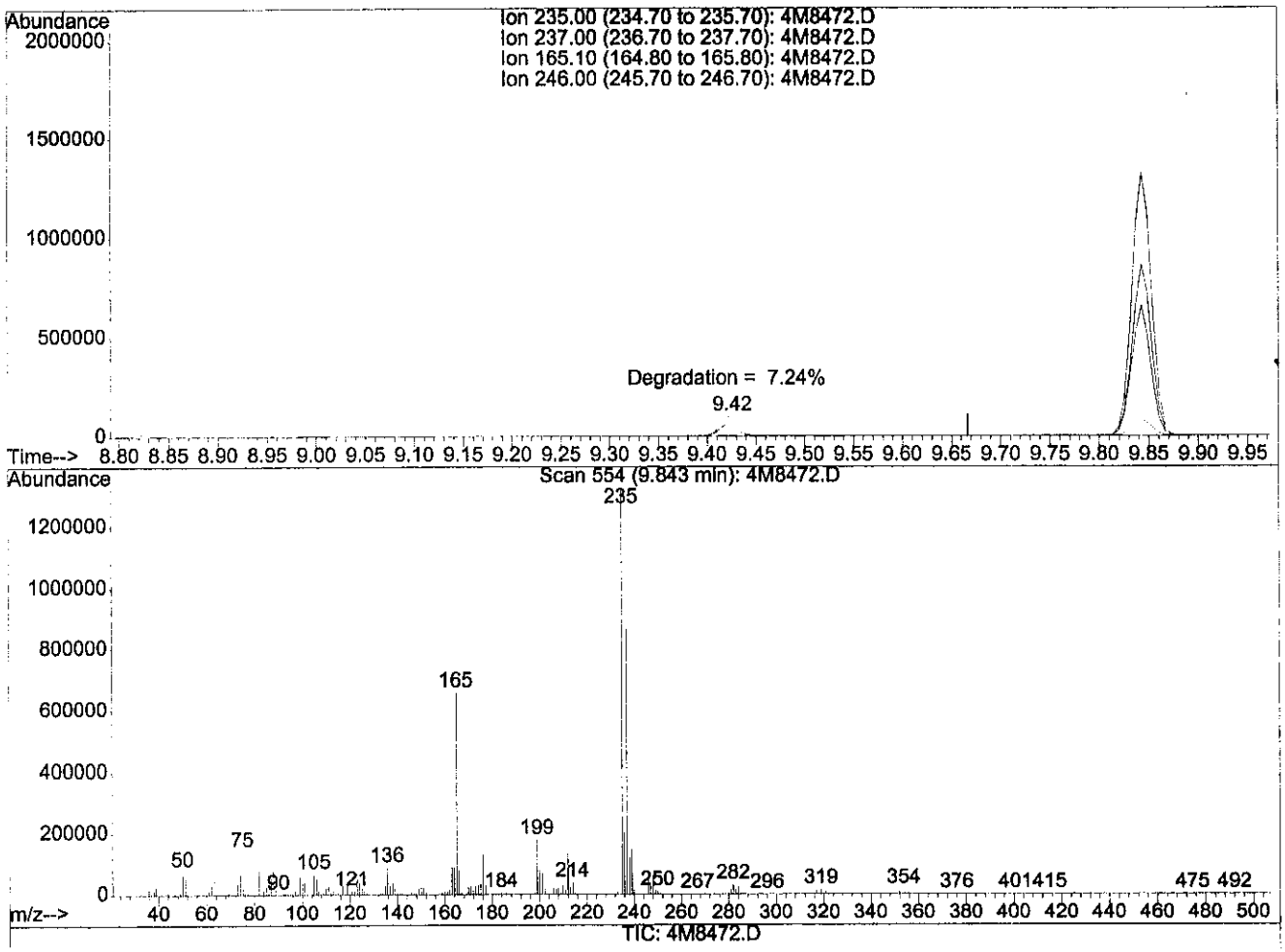
8.82min 0.00

response 4465283

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\052201\4M8472.D Vial: 10
Acq On : 22 May 2001 14:59 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 15:10 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.84min 0.00

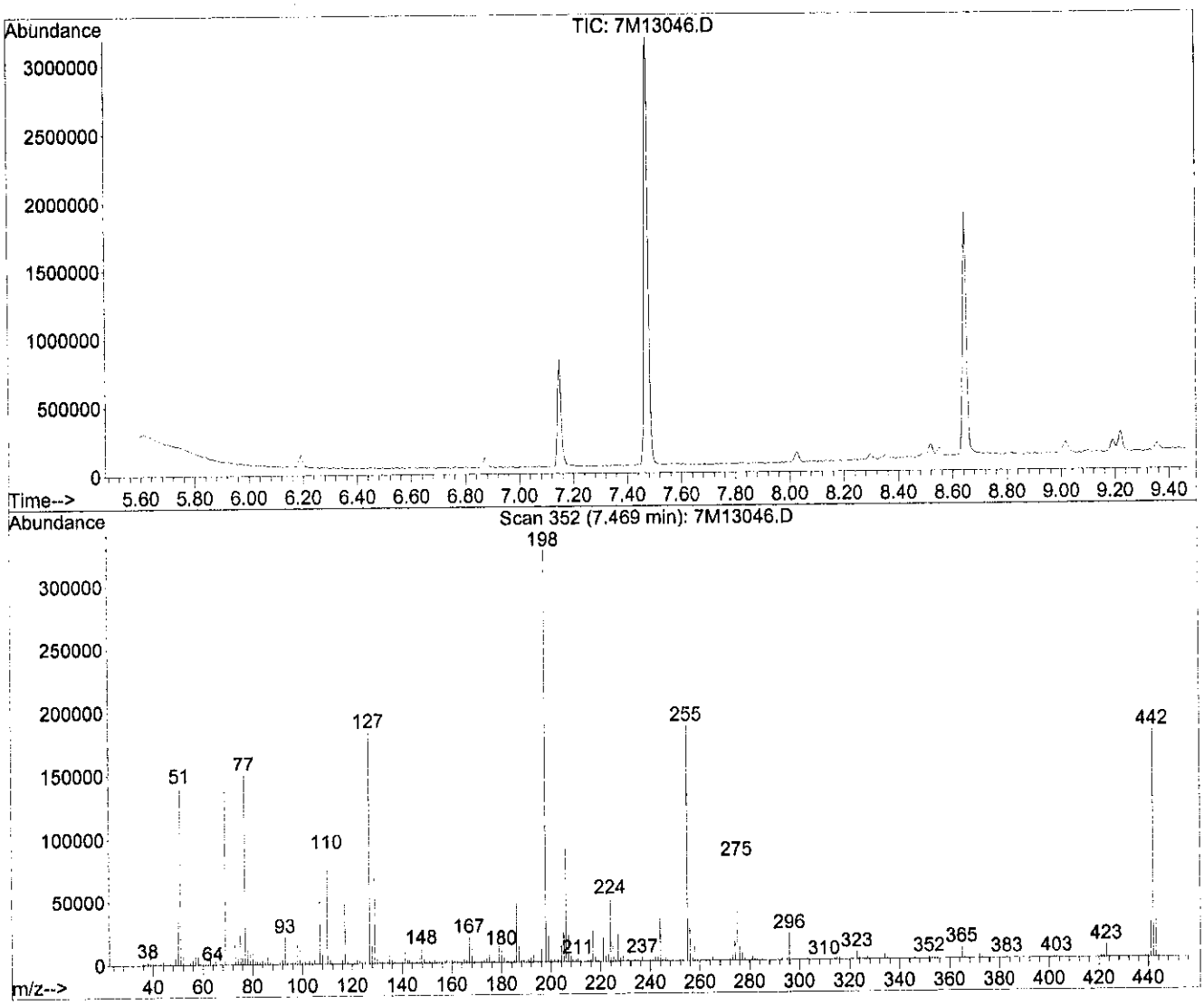
response 1835953

Ion	Exp%	Act%
235.00	100	100
237.00	64.40	64.15
165.10	45.40	48.66
246.00	6.10	6.04

4M8472.D DFTPP.M Wed May 23 08:34:32 2001 HPMS4

Data File : C:\MSDCHEM\1\DATA\052301\7M13046.D
Acq On : 23 May 2001 12:33
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00



Spectrum Information: Scan 352

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	140992	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.9	140480	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	56.1	183552	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	327296	PASS
199	198	5	9	6.5	21168	PASS
275	198	10	30	24.3	79672	PASS
365	198	1	100	2.9	9348	PASS
441	443	0.01	100	83.0	28416	PASS
442	198	40	100	55.2	180672	PASS
443	442	17	23	19.0	34240	PASS

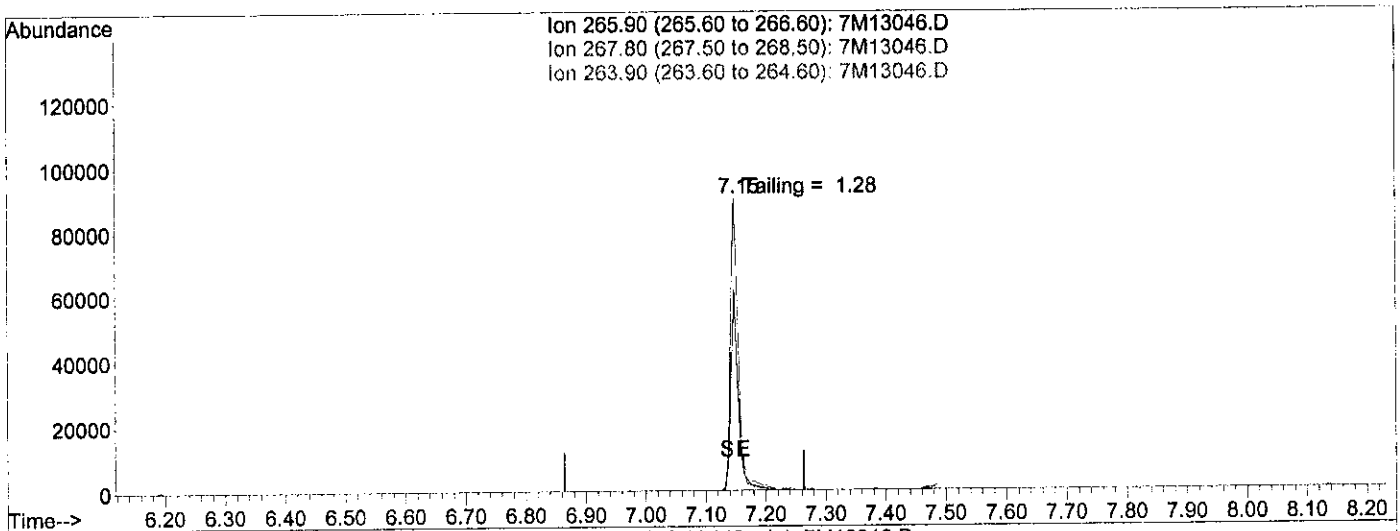
7M13046.D PAHDFTPP.M Wed May 23 12:50:39 2001

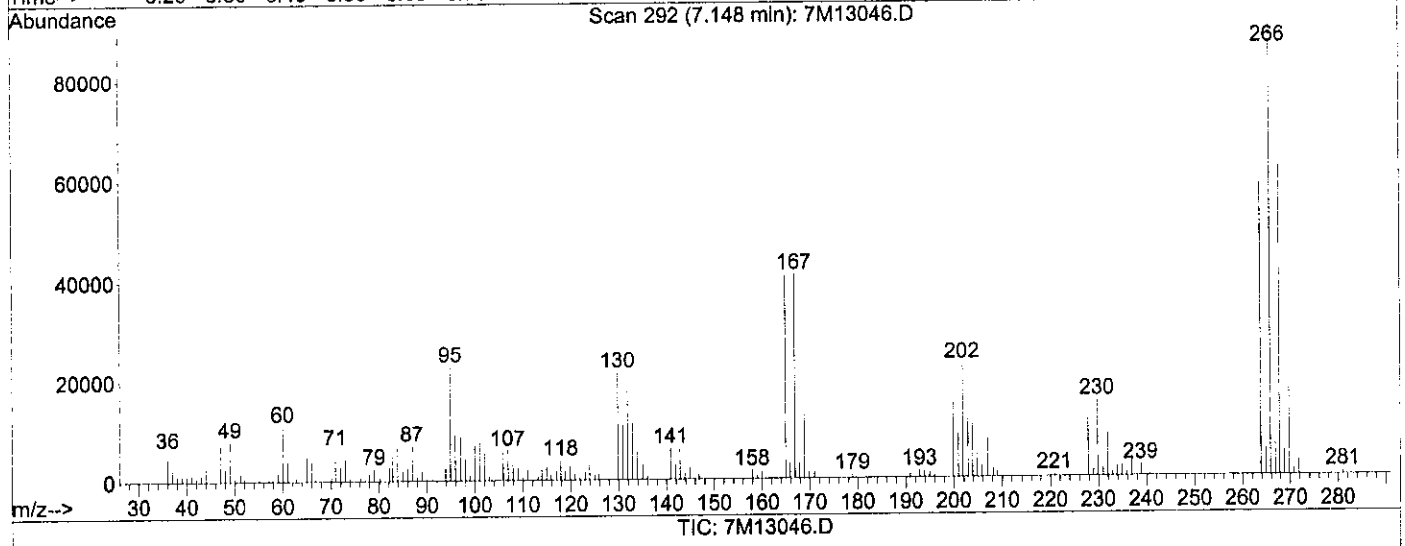
Data File : C:\MSDCHEM\1\DATA\052301\7M13046.D
Acq On : 23 May 2001 12:33
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 23 12:50 2001

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





(1) PENTACHLOROPHENOL

7.15min 0.00

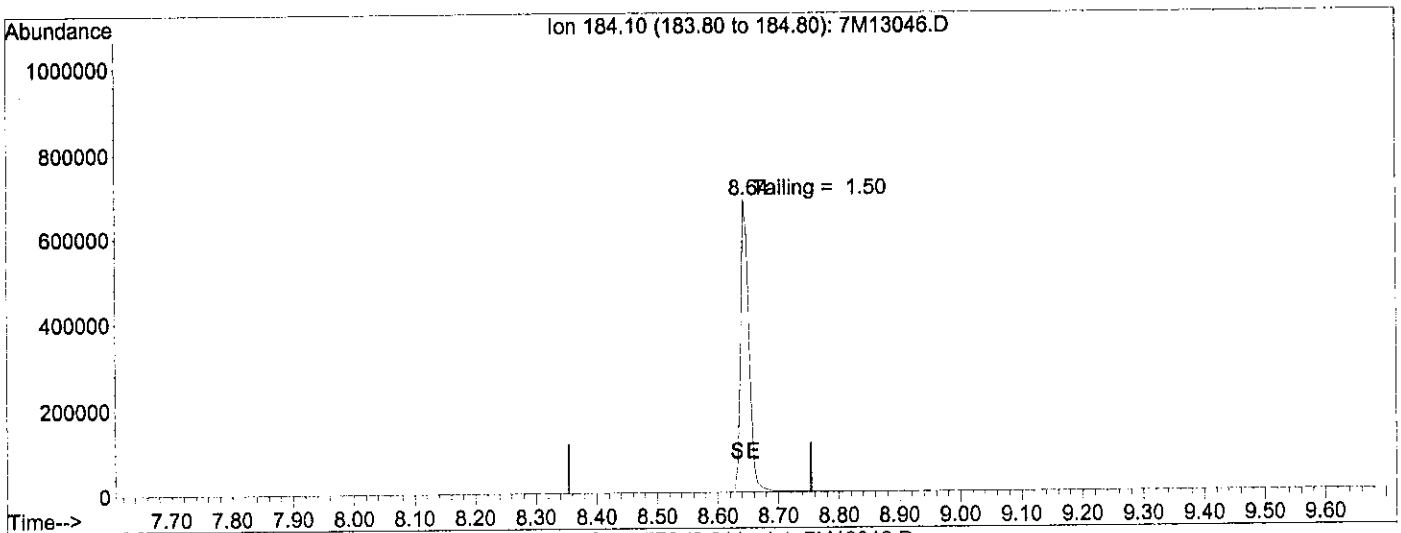
response 86849

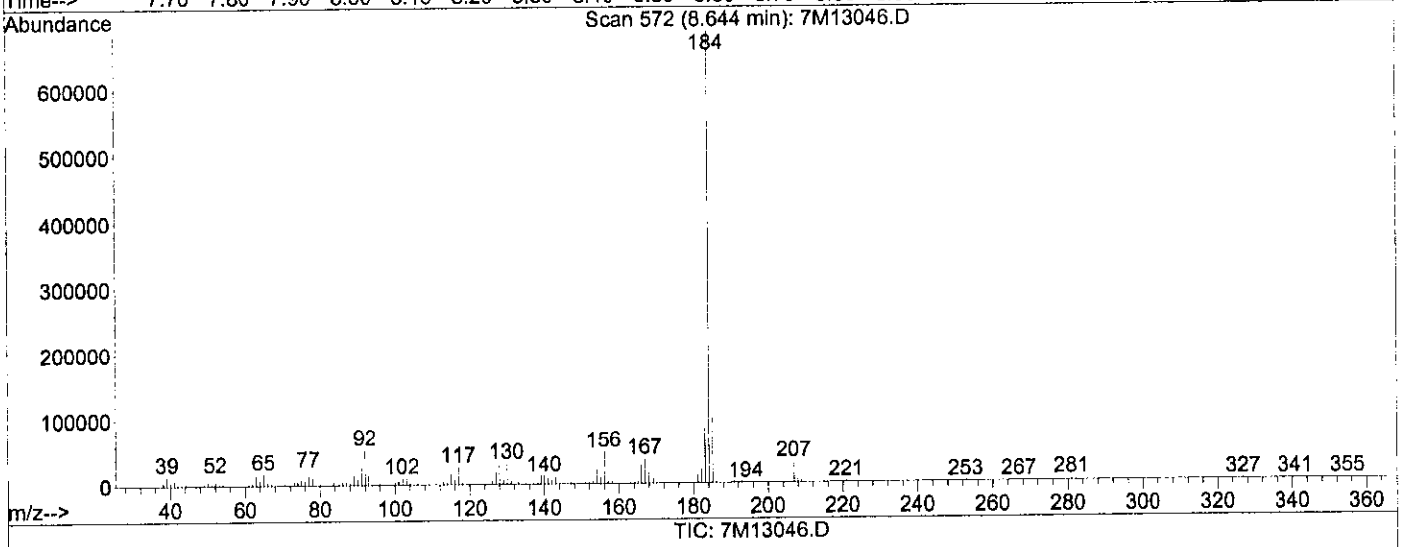
Ion	Exp%	Act%
265.90	100	100
267.80	62.20	62.98
263.90	65.00	61.48
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052301\7M13046.D
Acq On : 23 May 2001 12:33
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 23 12:50 2001

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





(2) BENZIDINE

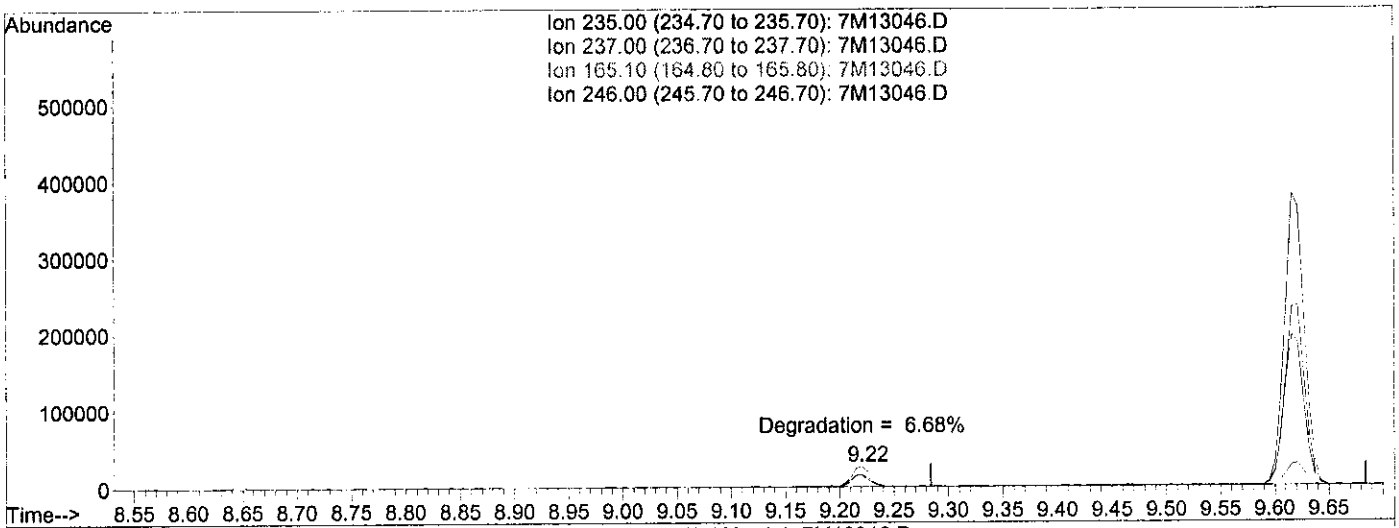
8.64min 0.00

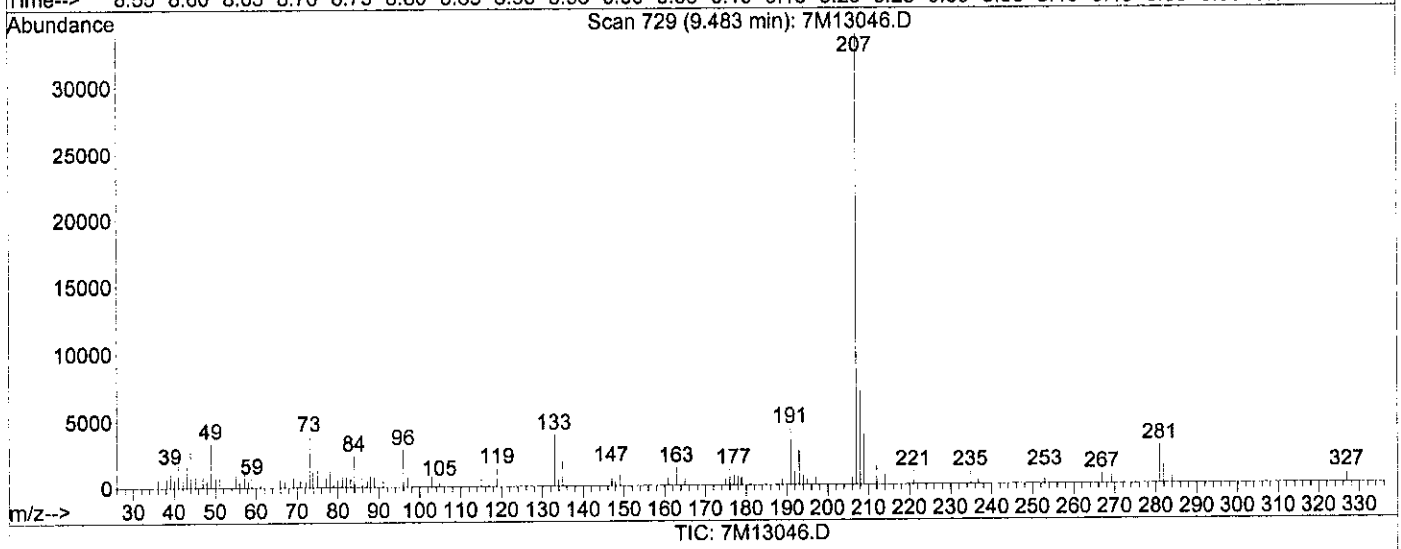
response 667192

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052301\7M13046.D Vial: 1
Acq On : 23 May 2001 12:33 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 23 12:50 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13046.D

(3) DDT

9.48min 0.00

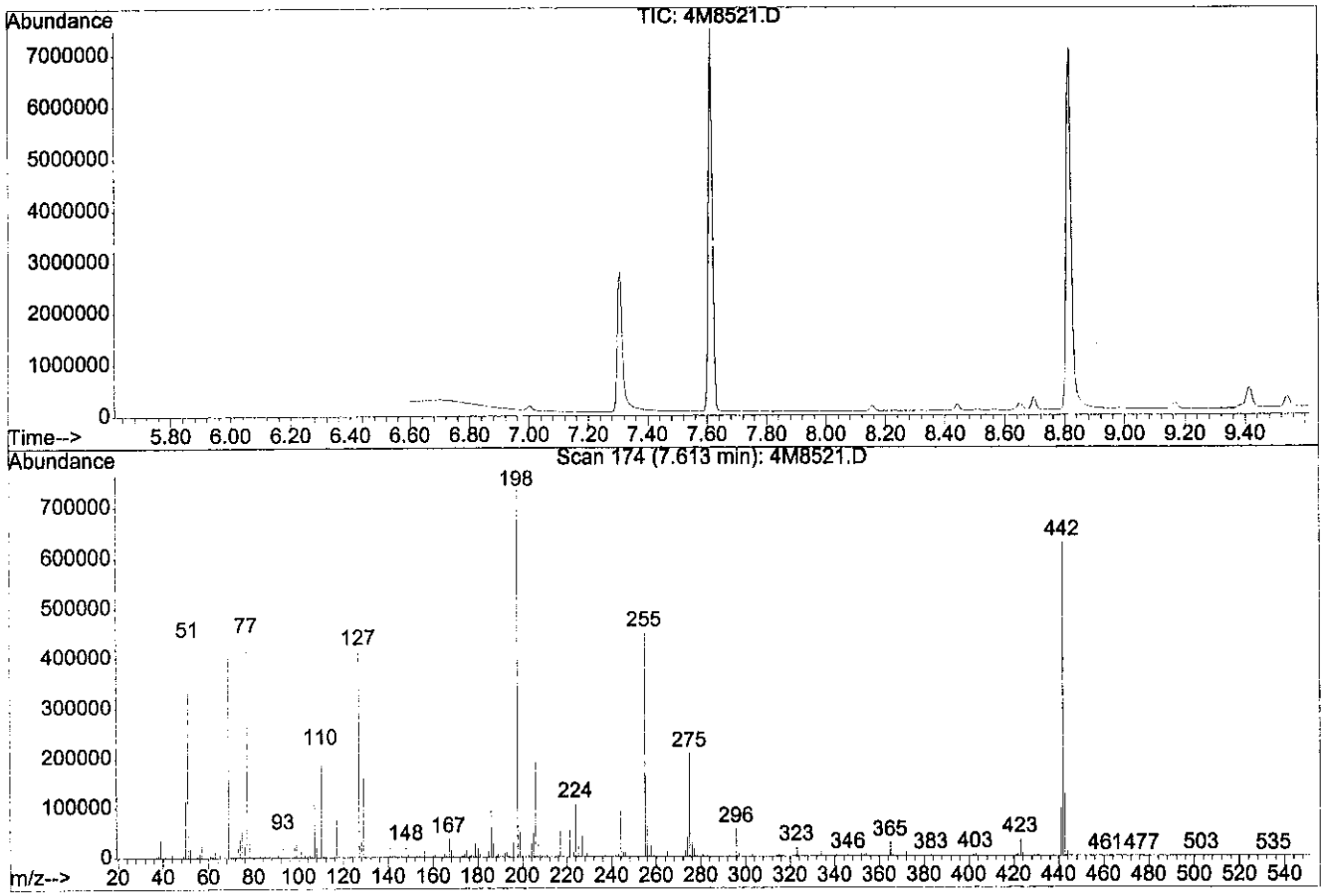
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

7M13046.D PAHDFTPP.M Wed May 23 12:51:23 2001

762

Data File : C:\HPCHEM\1\DATA\052401\4M8521.D Vial: 1
Acq On : 24 May 2001 8:34 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



Spectrum Information: Scan 174

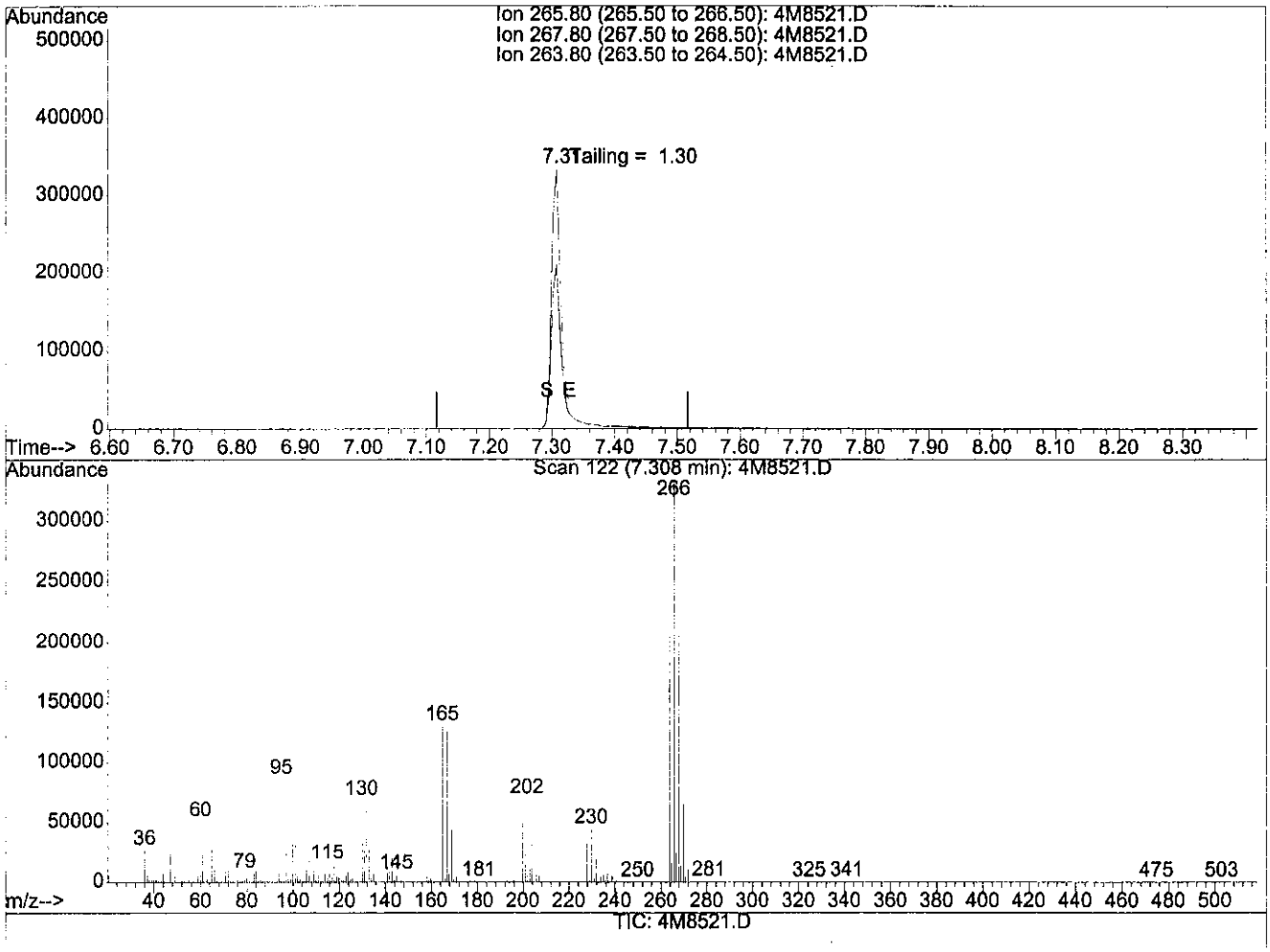
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.7	432512	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	54.7	402880	PASS
70	69	0.00	2	0.7	2880	PASS
127	198	40	60	56.4	415424	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	736384	PASS
199	198	5	9	6.9	50736	PASS
275	198	10	30	28.4	209152	PASS
365	198	1	100	3.8	28272	PASS
441	443	0.01	100	77.0	95536	PASS
442	198	40	100	85.5	629504	PASS
443	442	17	23	19.7	124120	PASS

4M8521.D DFTPP.M Thu May 24 12:03:21 2001 HPMS4

763

Data File : C:\HPCHEM\1\DATA\052401\4M8521.D Vial: 1
Acq On : 24 May 2001 8:34 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 12:03 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.31min 0.00

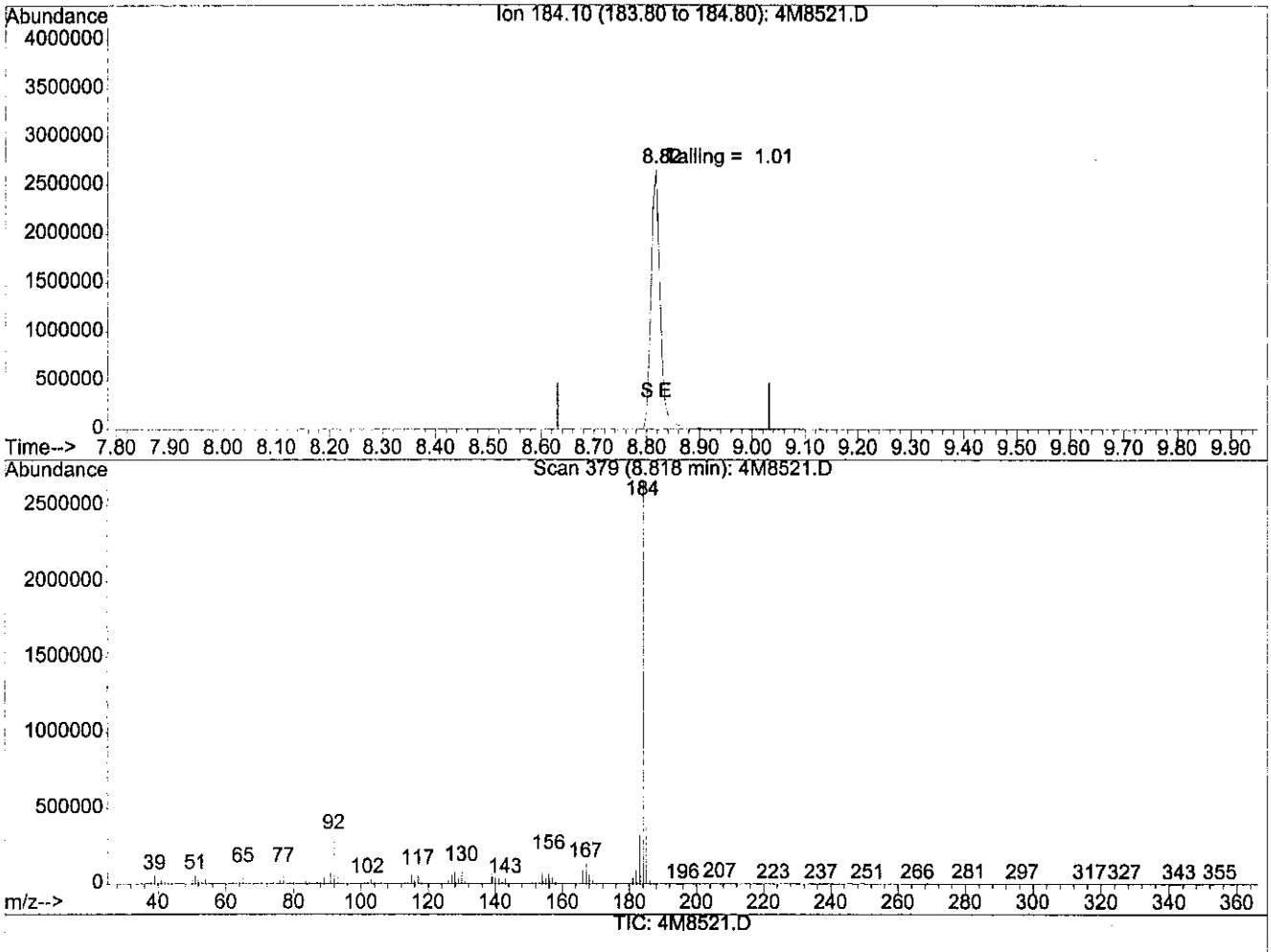
response 397736

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	64.06
263.80	63.20	61.60
0.00	0.00	0.00

4M8521.D DFTPP.M Thu May 24 12:03:30 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052401\4M8521.D Vial: 1
Acq On : 24 May 2001 8:34 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 12:03 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

8.82min 0.00

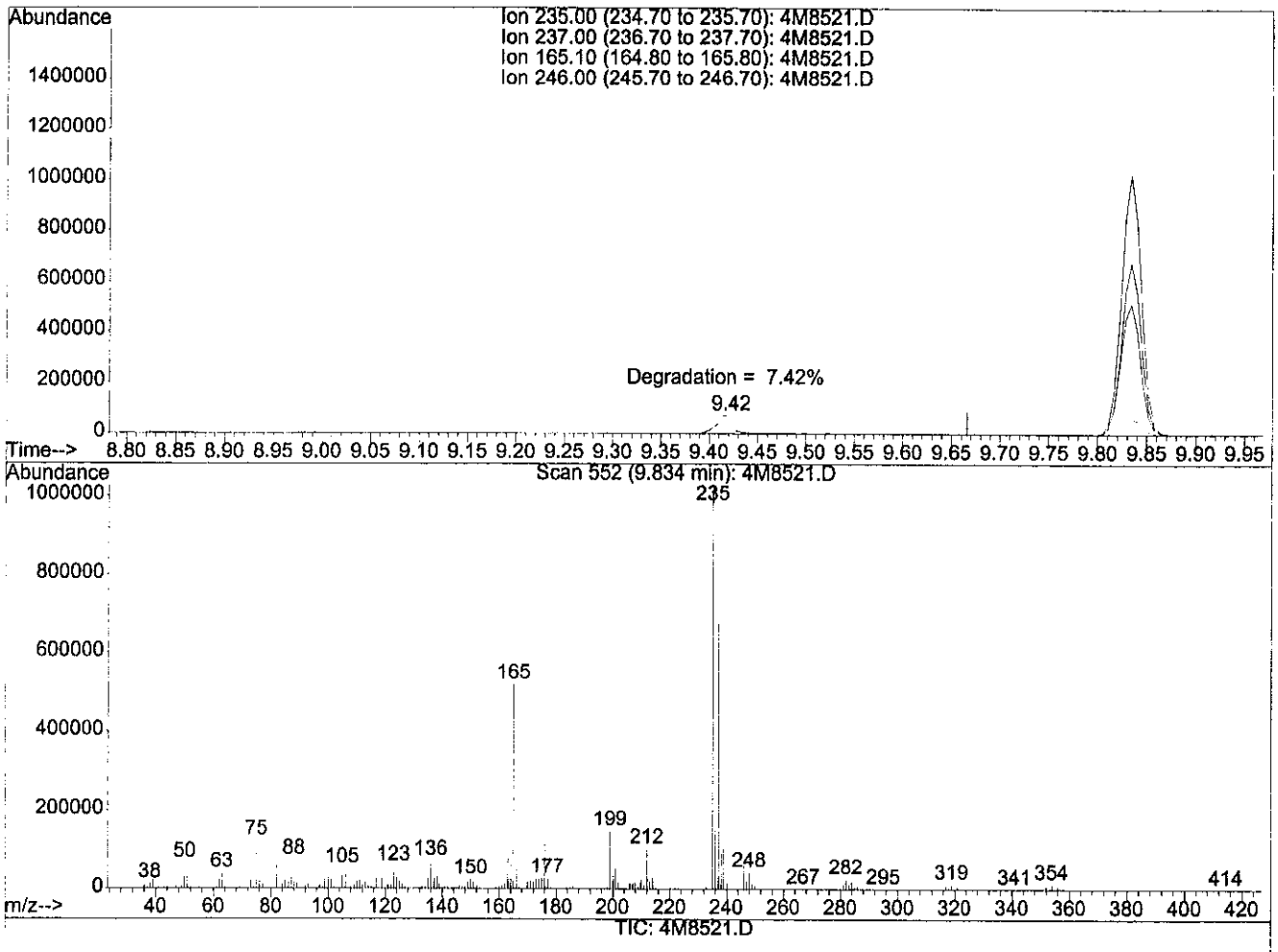
response 3227614

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

4M8521.D DFTPP.M Thu May 24 12:03:35 2001 HPMS4

Acq On : 24 May 2001 8:34 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 12:03 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

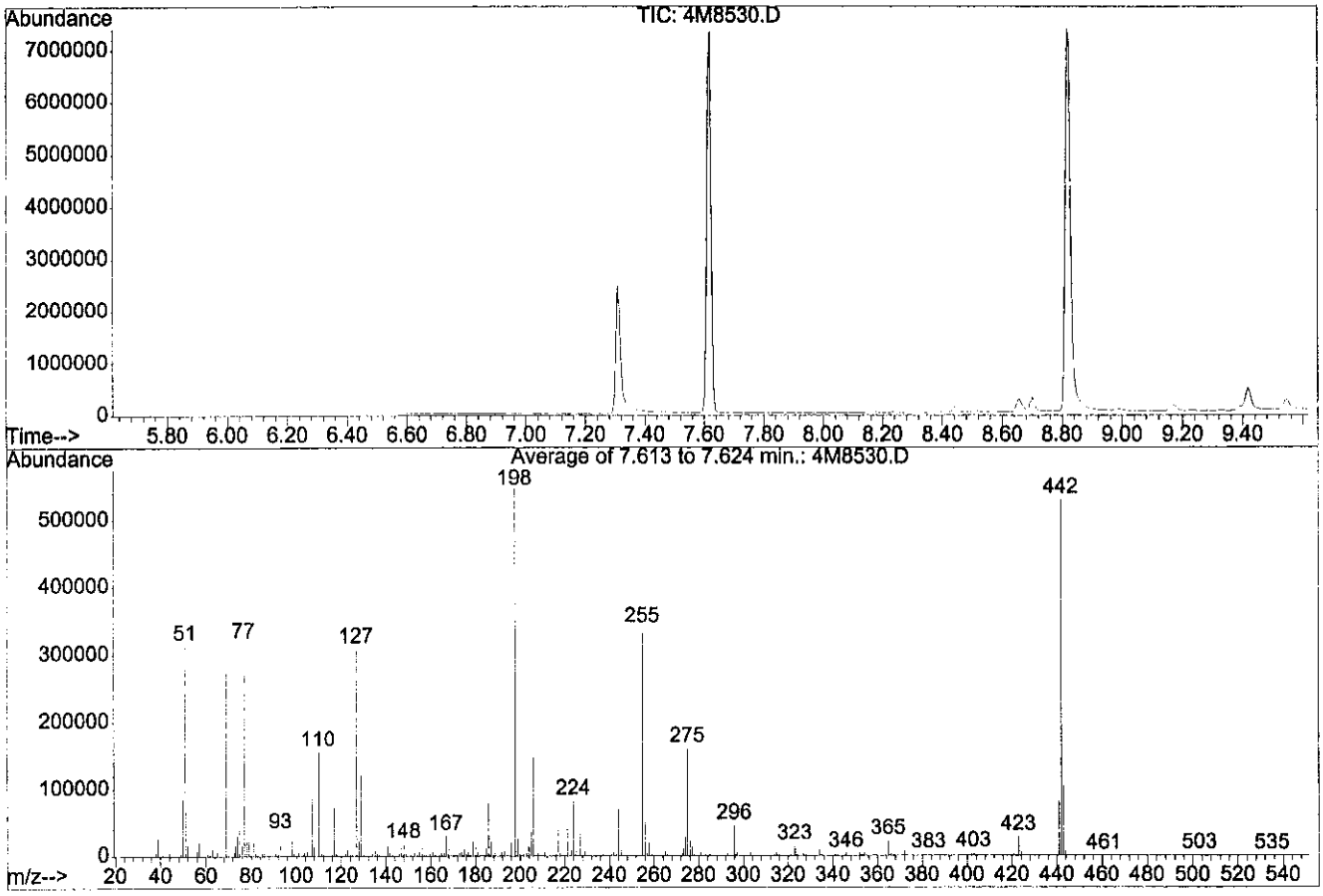
9.83min 0.00

response 1425266

Ion	Exp%	Act%
235.00	100	100
237.00	64.40	65.57
165.10	45.40	51.00
246.00	6.10	6.26

4M8521.D DFTPP.M Thu May 24 12:03:43 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052401\4M8530.D Vial: 10
Acq On : 24 May 2001 13:07 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



Spectrum Information: Average of 7.613 to 7.624 min.

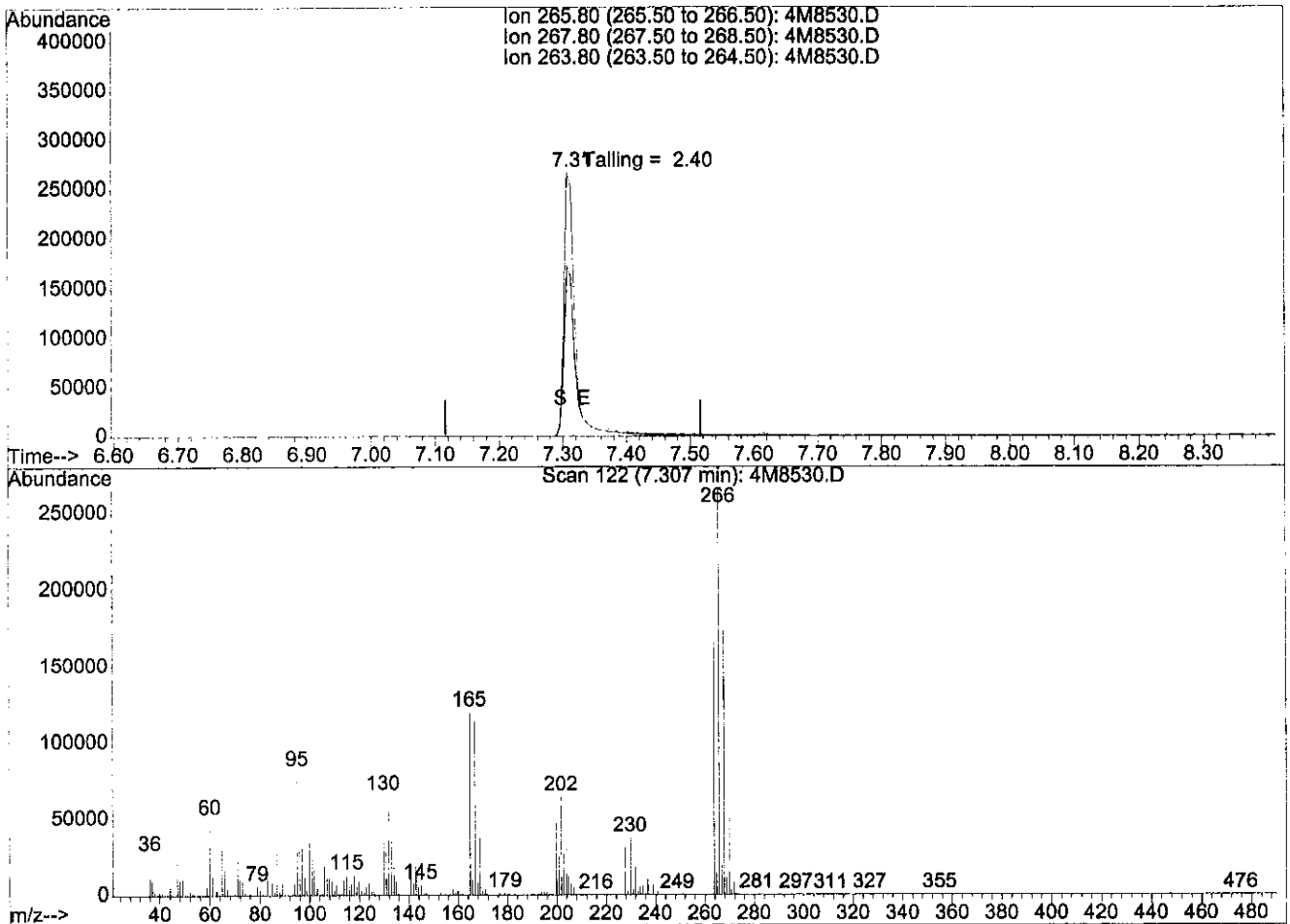
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.3	313813	PASS
68	69	0.00	2	0.4	1174	PASS
69	198	0.00	100	53.7	294371	PASS
70	69	0.00	2	0.6	1632	PASS
127	198	40	60	56.4	308907	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	548053	PASS
199	198	5	9	6.4	35224	PASS
275	198	10	30	29.4	161003	PASS
365	198	1	100	4.2	22867	PASS
441	443	0.01	100	78.6	82352	PASS
442	198	40	100	96.9	530795	PASS
443	442	17	23	19.7	104779	PASS

4M8530.D DFTPP.M Thu May 24 13:18:50 2001 HPMS4

767

Data File : C:\HPCHEM\1\DATA\052401\4M8530.D Vial: 10
Acq On : 24 May 2001 13:07 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 13:18 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.31min 0.00

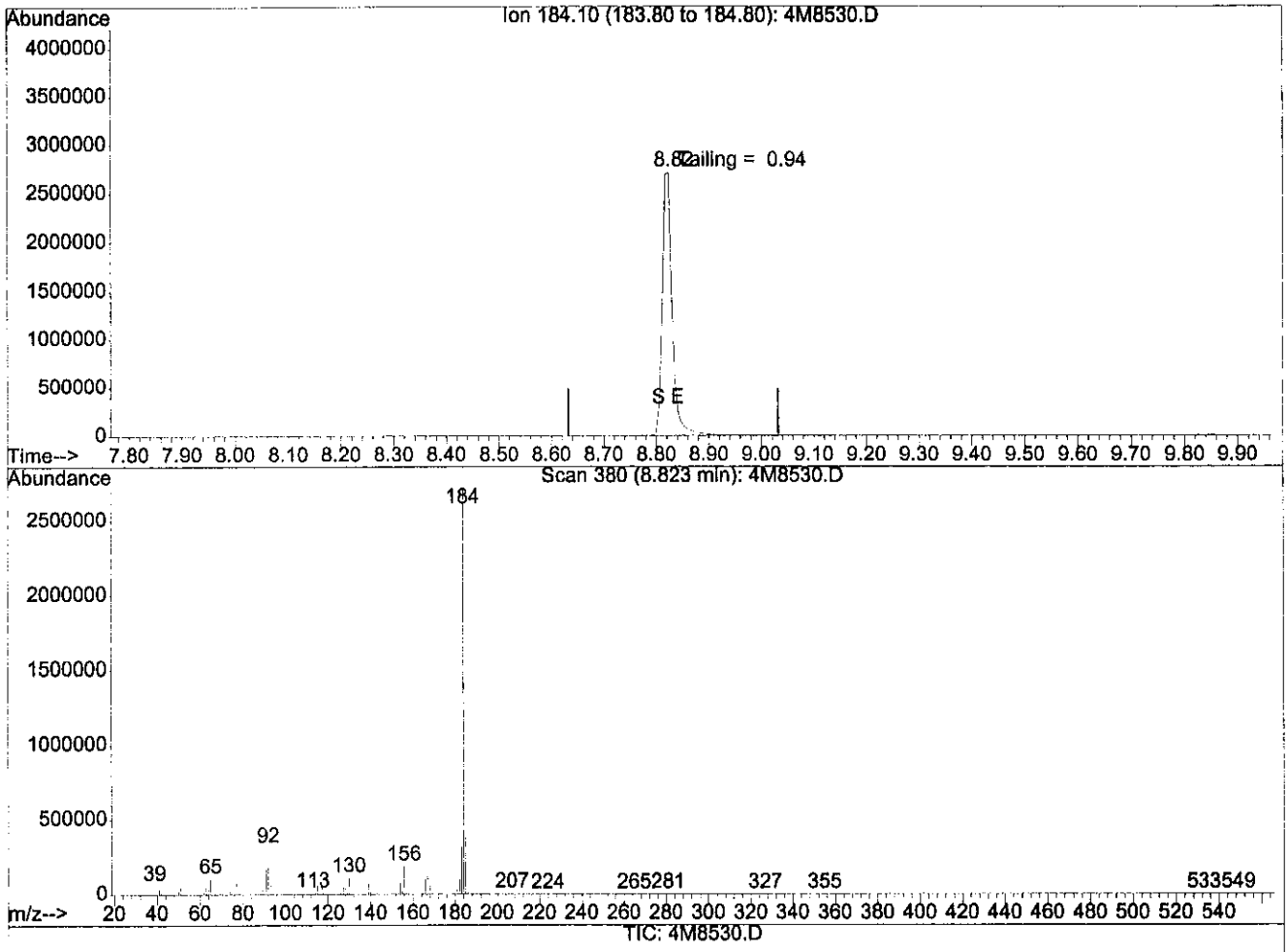
response 341103

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	66.16
263.80	63.20	64.23
0.00	0.00	0.00

4M8530.D DFTPP.M Thu May 24 13:18:59 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052401\4M8530.D Vial: 10
Acq On : 24 May 2001 13:07 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 13:18 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

8.82min 0.00

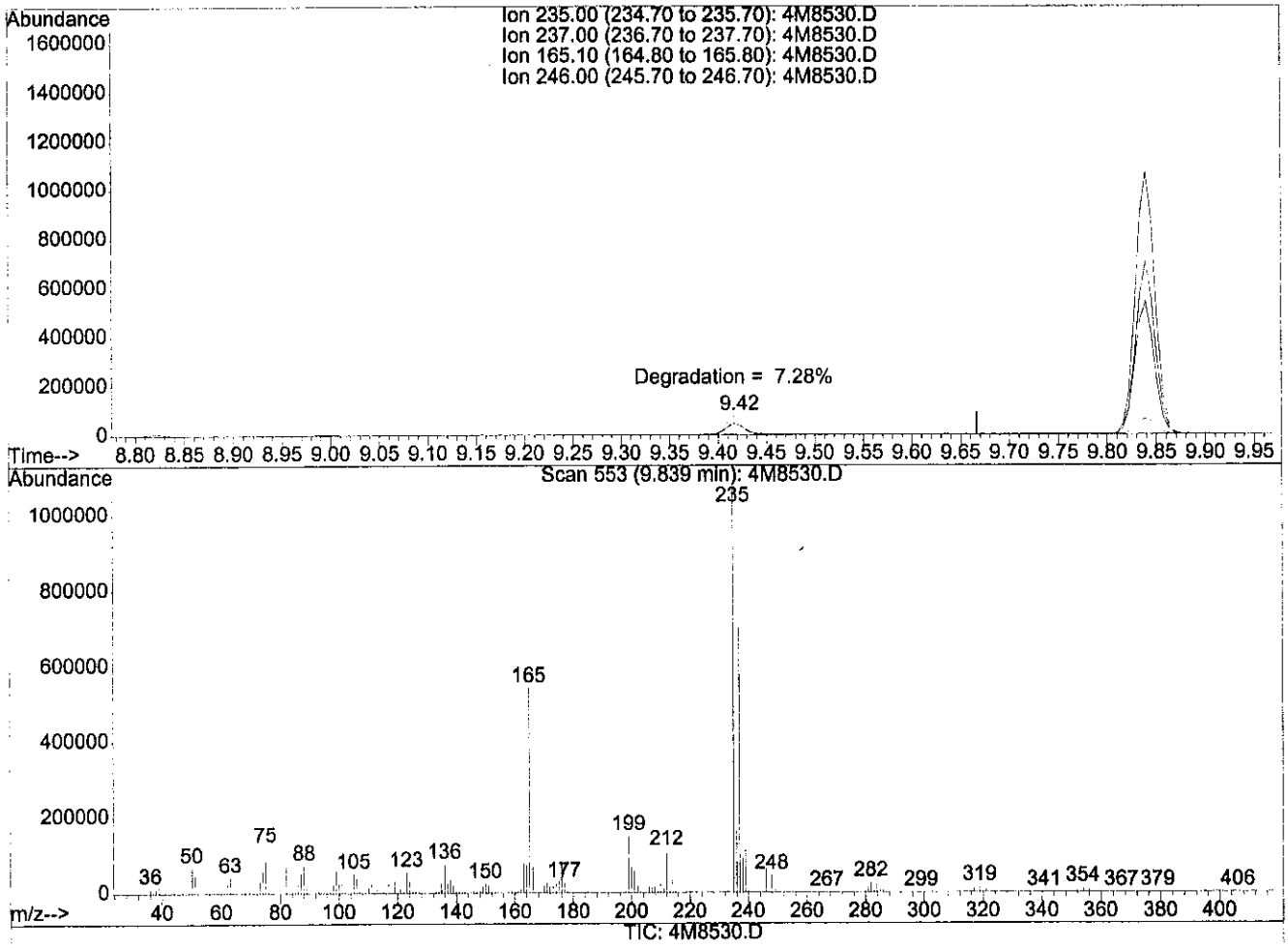
response 3538461

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

4M8530.D DFTPP.M Thu May 24 13:19:04 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052401\4M8530.D Vial: 10
Acq On : 24 May 2001 13:07 Operator: mdc
Sample : 50PPM DFTPP Inst : HPMS4
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 13:18 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.84min 0.00

response 1478749

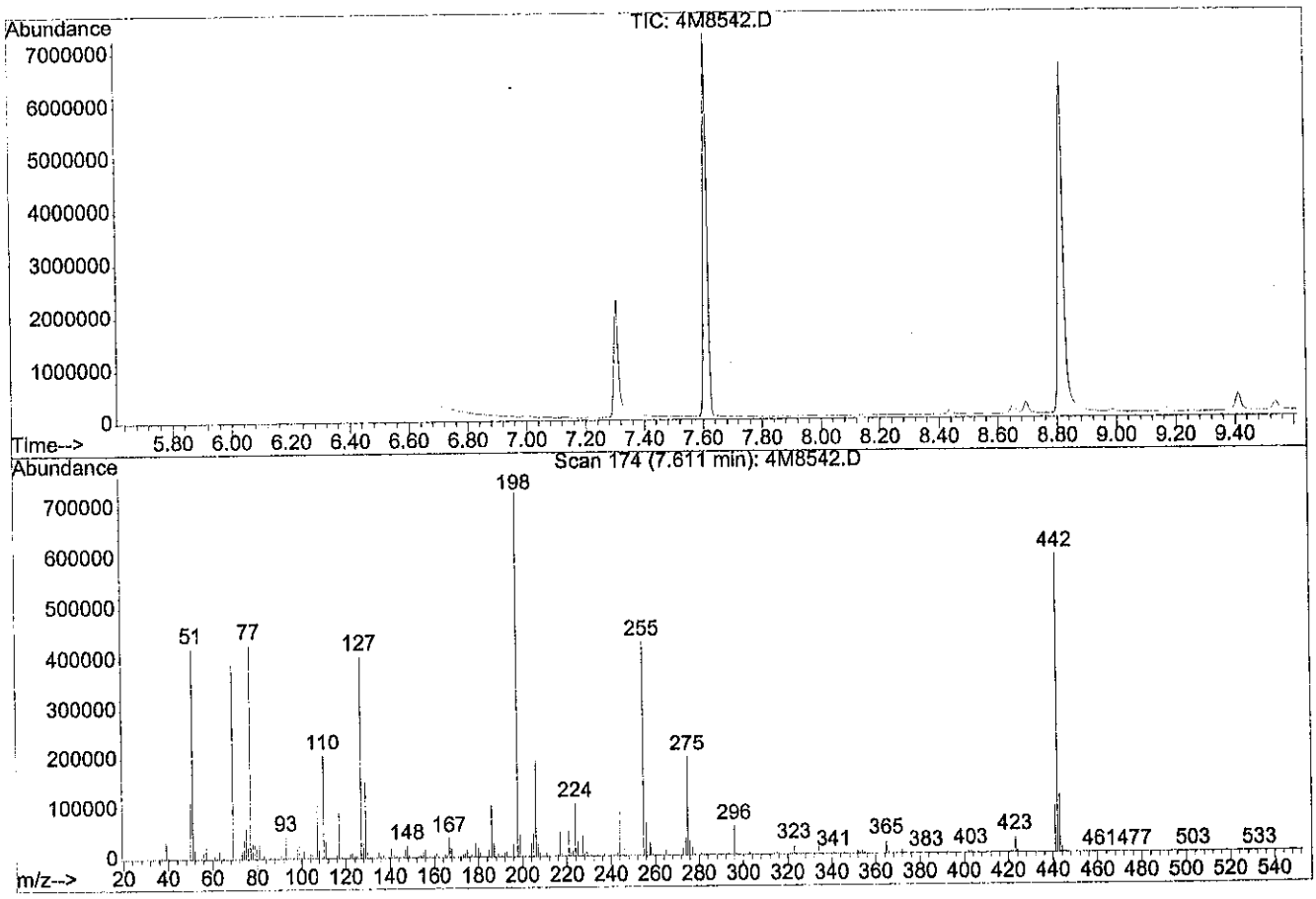
Ion	Exp%	Act%
235.00	100	100
237.00	64.40	64.82
165.10	45.40	50.54
246.00	6.10	6.14

4M8530.D DFTPP.M Thu May 24 13:19:11 2001 HPMS4

770

Data File : C:\HPCHEM\1\DATA\052501\4M8542.D
Acq On : 25 May 2001 8:03
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00



Spectrum Information: Scan 174

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.2	422720	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	54.5	395776	PASS
70	69	0.00	2	0.6	2184	PASS
127	198	40	60	55.9	406080	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	726464	PASS
199	198	5	9	6.4	46800	PASS
275	198	10	30	27.2	197888	PASS
365	198	1	100	3.7	26592	PASS
441	443	0.01	100	79.8	93224	PASS
442	198	40	100	82.2	596864	PASS
443	442	17	23	19.6	116784	PASS

4M8542.D DFTPP.M Fri May 25 08:18:11 2001 HPMS4

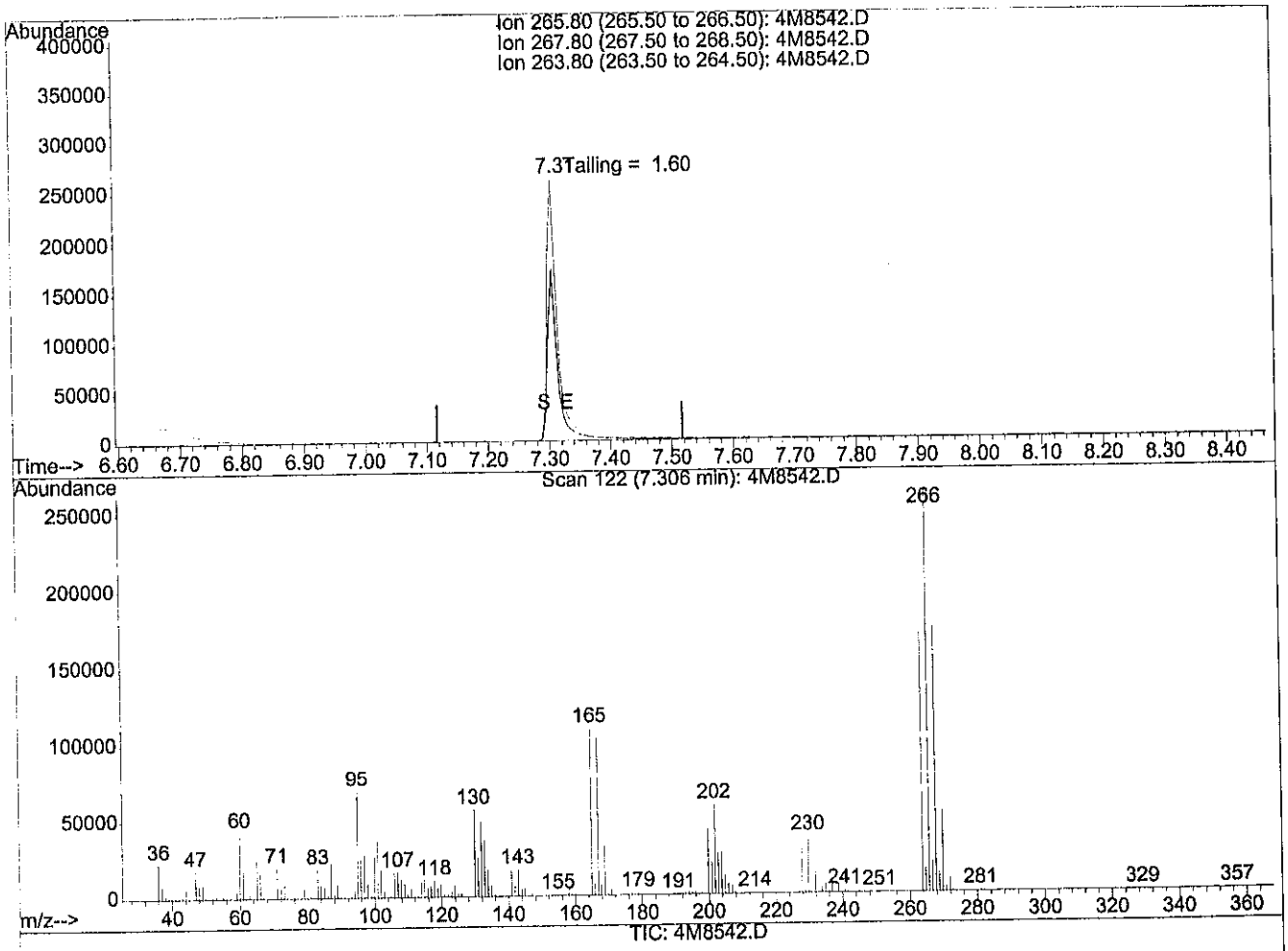
771

Data File : C:\HPCHEM\1\DATA\052501\4M8542.D
Acq On : 25 May 2001 8:03
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 25 8:18 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

7.31min 0.00

response 323396

Ion	Exp%	Act%
265.80	100	100
267.80	63.70	64.20
263.80	63.20	61.32
0.00	0.00	0.00

4M8542.D DFTPP.M Fri May 25 08:18:20 2001 HPMS4

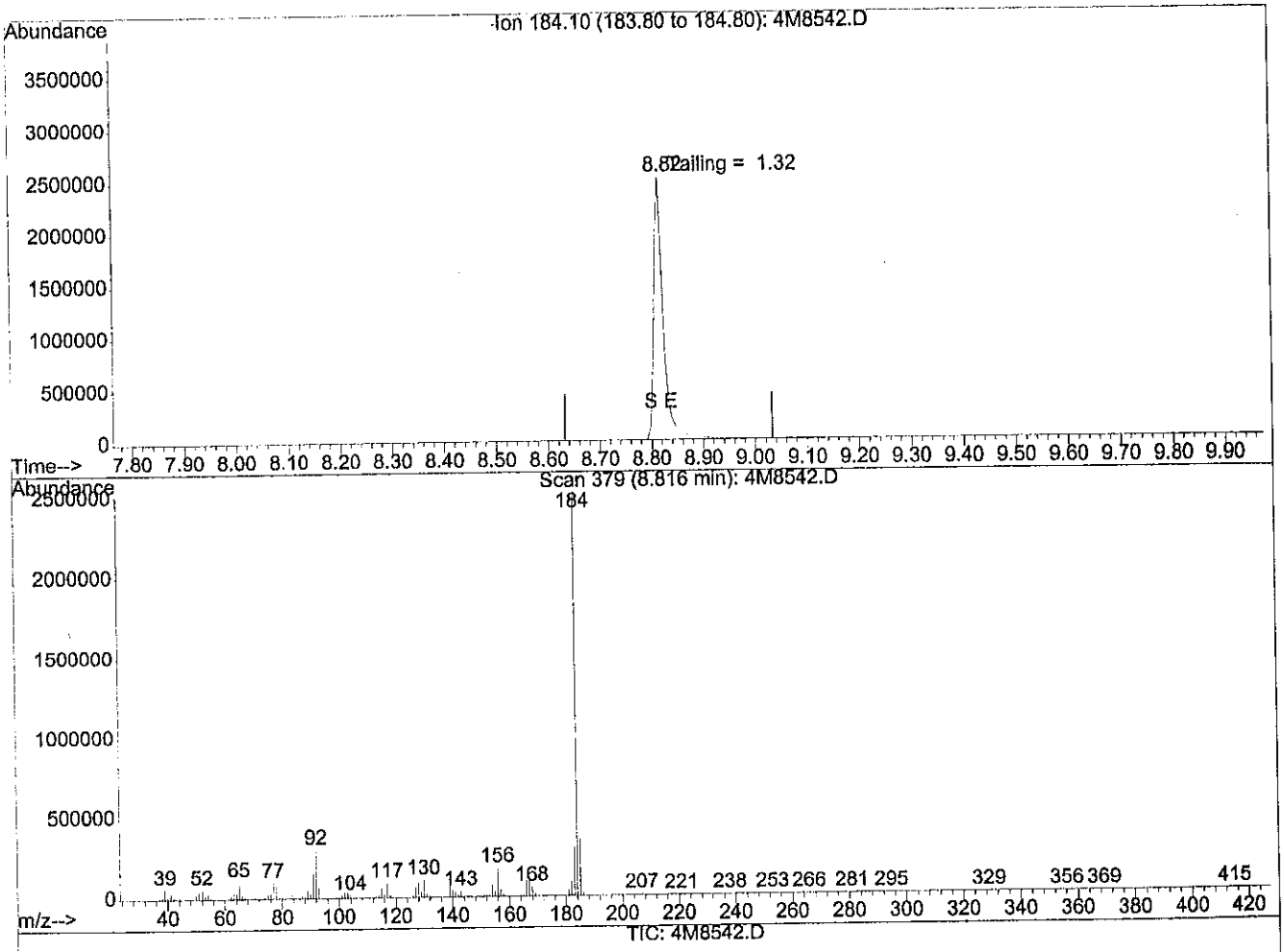
772

Data File : C:\HPCHEM\1\DATA\052501\4M8542.D
Acq On : 25 May 2001 8:03
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 25 8:18 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(2) BENZIDINE

8.82min 0.00

response 3255357

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

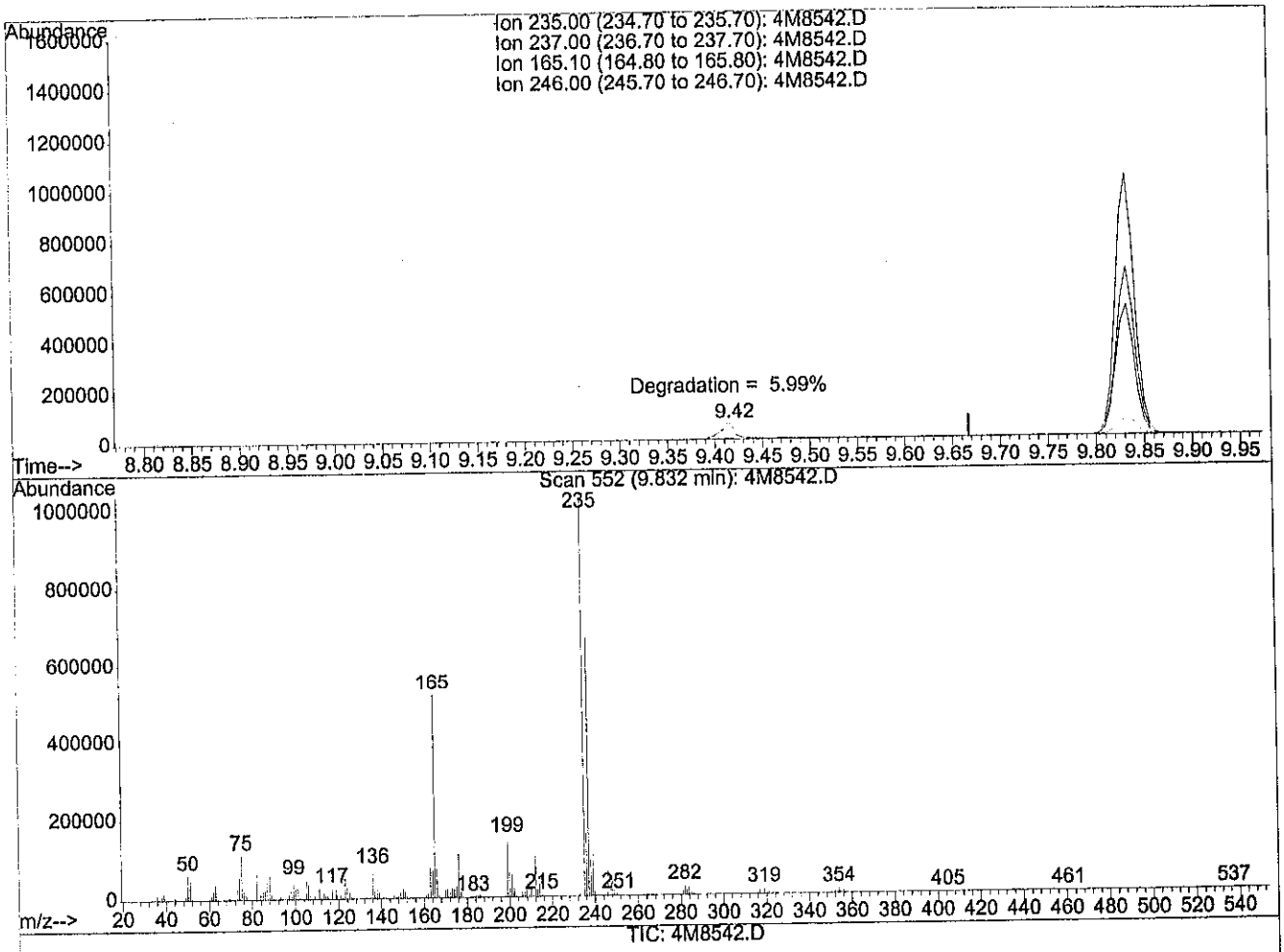
4M8542.D DFTPP.M Fri May 25 08:18:26 2001 HPMS4

Data File : C:\HPCHEM\1\DATA\052501\4M8542.D
Acq On : 25 May 2001 8:03
Sample : 50PPM DFTPP
Misc : 1,1
MS Integration Params: rteint.p
Quant Time: May 25 8:18 2001

Vial: 1
Operator: mdc
Inst : HPMS4
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Feb 06 12:33:49 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

9.83min 0.00

response 1420117

Ion	Exp%	Act%
235.00	100	100
237.00	64.40	63.90
165.10	45.40	50.47
246.00	6.10	6.29

4M8542.D DFTPP.M Fri May 25 08:18:33 2001 HPMS4

774

Data File : C:\HPCHEM\1\DATA\052201\4M8476.D
Acq On : 22 May 2001 16:54
Sample : WG97802-02 BLK 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:49 2001

Vial: 14
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	261323	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	956645	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	540452	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	797402	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	954629	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	951913	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	524237	55.77	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 55.77%			
6) Phenol-d5	8.03	99	690173	60.15	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 60.15%			
20) Nitrobenzene-d5	9.01	82	288227	30.04	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 60.08%			
38) 2-Fluorobiphenyl	10.81	172	581888	29.06	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 58.12%			
55) 2,4,6-Tribromophenol	12.36	330	153353	50.11	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 50.11%			
70) p-Terphenyl-d14	14.66	244	1200716	49.10	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 98.20%			

Target Compounds Qvalue

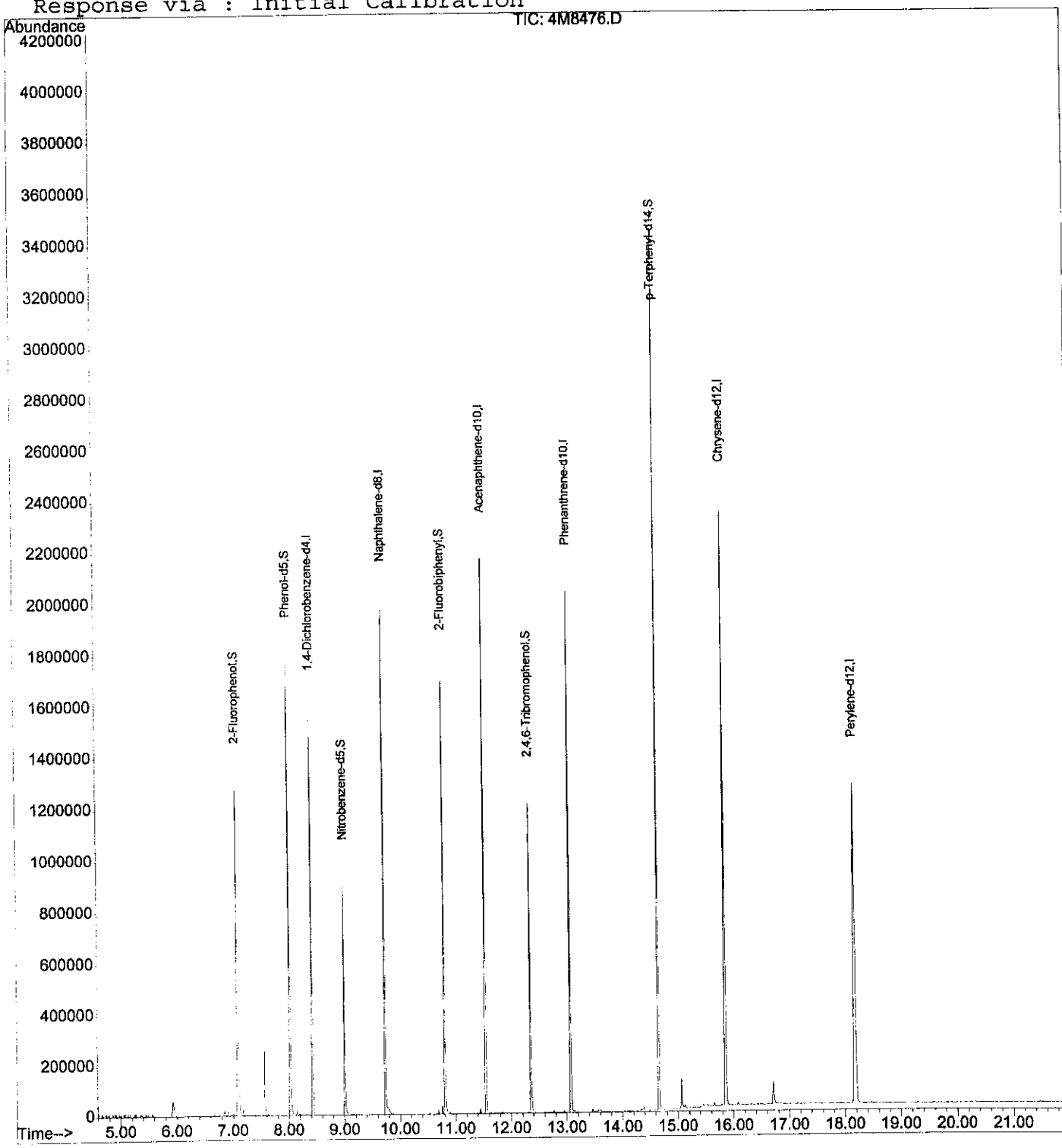
(#) = qualifier out of range (m) = manual integration
4M8476.D BNA.M Wed May 23 08:50:37 2001 HPMS4 Page 1

Data File : C:\HPCHEM\1\DATA\052201\4M8476.D
Acq On : 22 May 2001 16:54
Sample : WG97802-02 BLK 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:49 2001

Vial: 14
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052201\7M13028.D
Acq On : 22 May 2001 16:37
Sample : WG97803-01 BLANK 5/21/01 V163P151
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 17:09:01 2001

Vial: 10
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 12:30:19 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

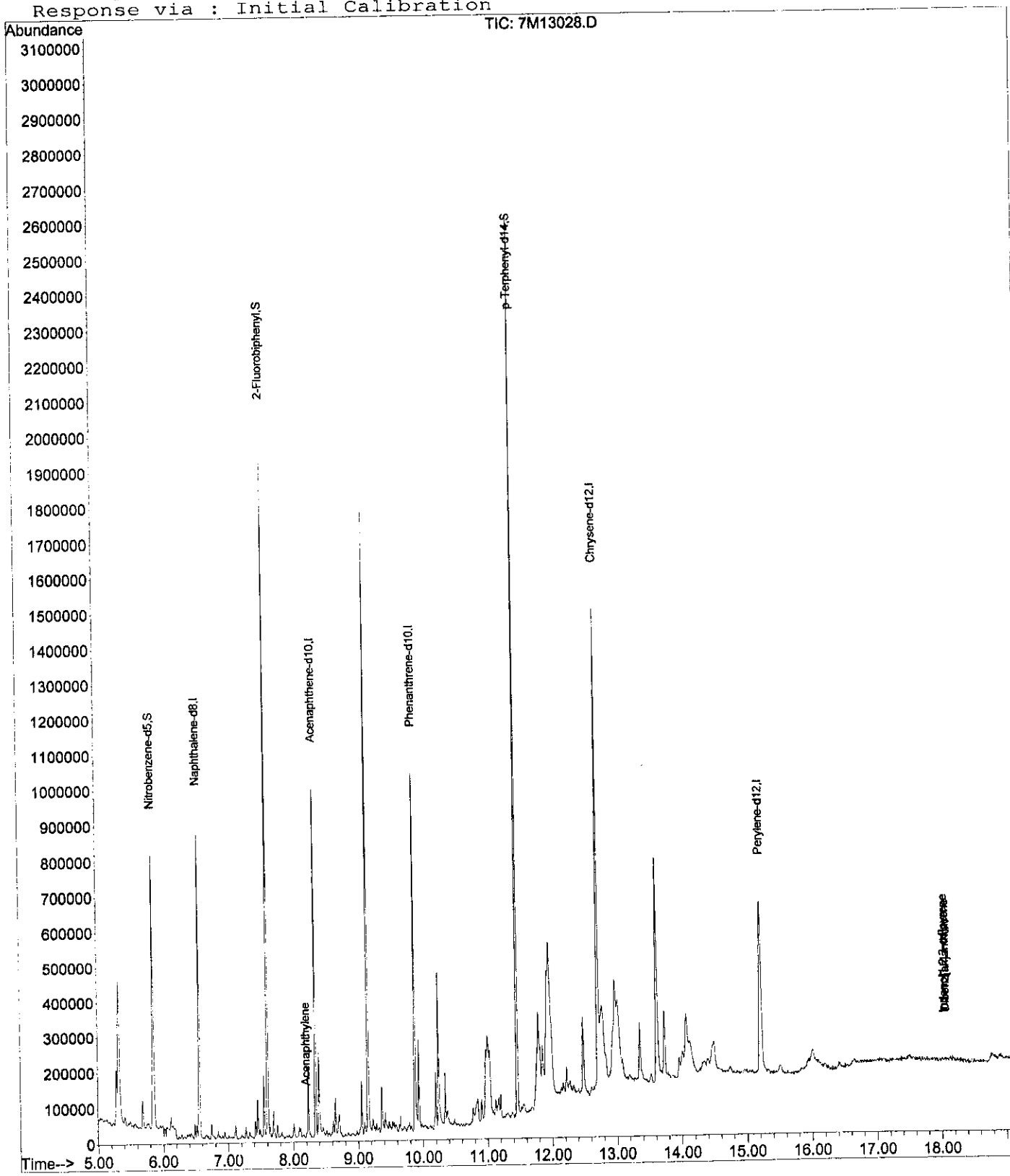
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	438505	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.35	164	242151	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	399745	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	429005	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	389921	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	265786	1.91	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	76.40%		
7) 2-Fluorobiphenyl	7.60	172	602240	1.69	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	67.60%		
17) p-Terphenyl-d14	11.46	244	793672	1.70	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	68.00%		
Target Compounds						Qvalue
8) Acenaphthylene	8.20	152	798	-0.08	ug/ml#	79
24) Indeno[1,2,3-cd]pyrene	18.04	276	575	-0.13	ug/ml#	47
25) Dibenz[ah]anthracene	18.06	278	201	-0.13	ug/ml#	16

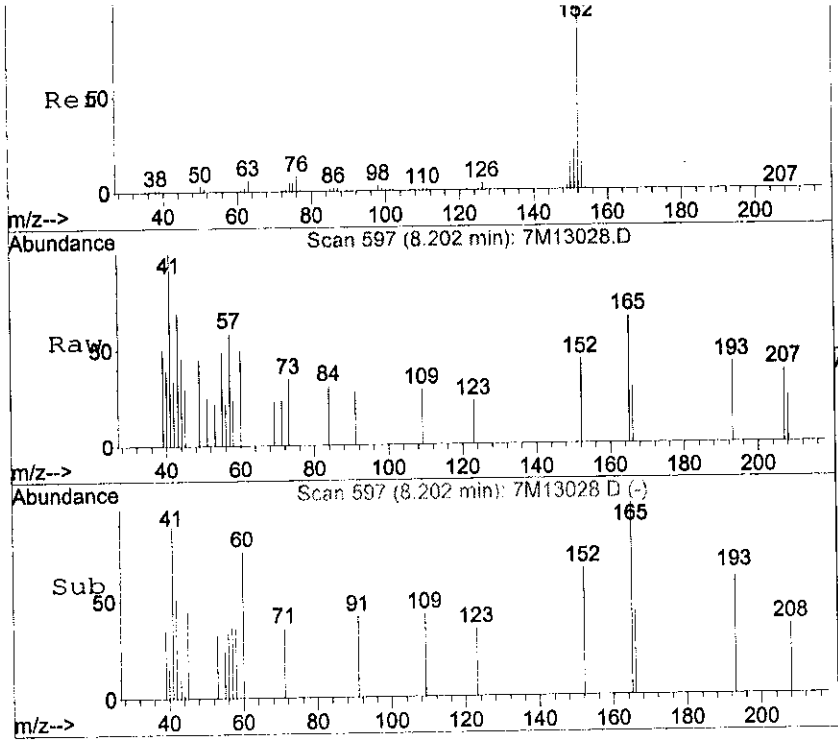
(#) = qualifier out of range (m) = manual integration
7M13028.D PAHLOW.M Tue May 22 17:09:32 2001

Data File : C:\MSDCHEM\1\DATA\052201\7M13028.D
Acq On : 22 May 2001 16:37
Sample : WG97803-01 BLANK 5/21/01 V163P151
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 17:09 2001

Vial: 10
Operator: rdc
Inst : HPMS7
Multiplr: 1.00
Quant Results File: PAHLOW.RES

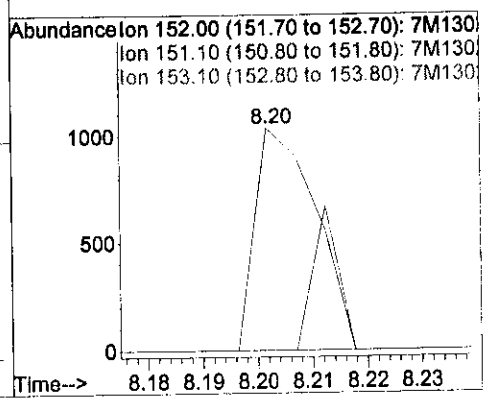
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 12:30:19 2001
Response via : Initial Calibration

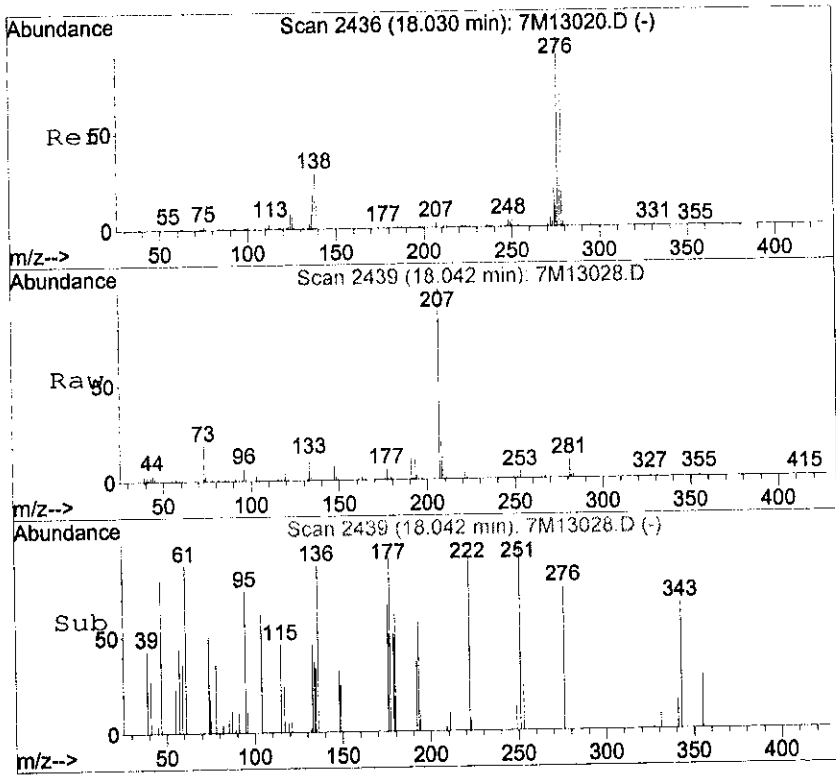




Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.20 min Scan# 597
Delta R.T. -0.00 min
Lab File: 7M13028.D
Acq: 22 May 2001 16:37

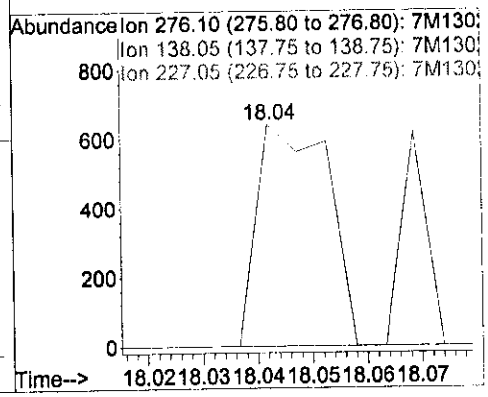
Tgt Ion:152	Resp:	798
Ion	Ratio	Lower	Upper
152	100		
151	26.9	16.2	24.2#
153	0.0	10.2	15.2#

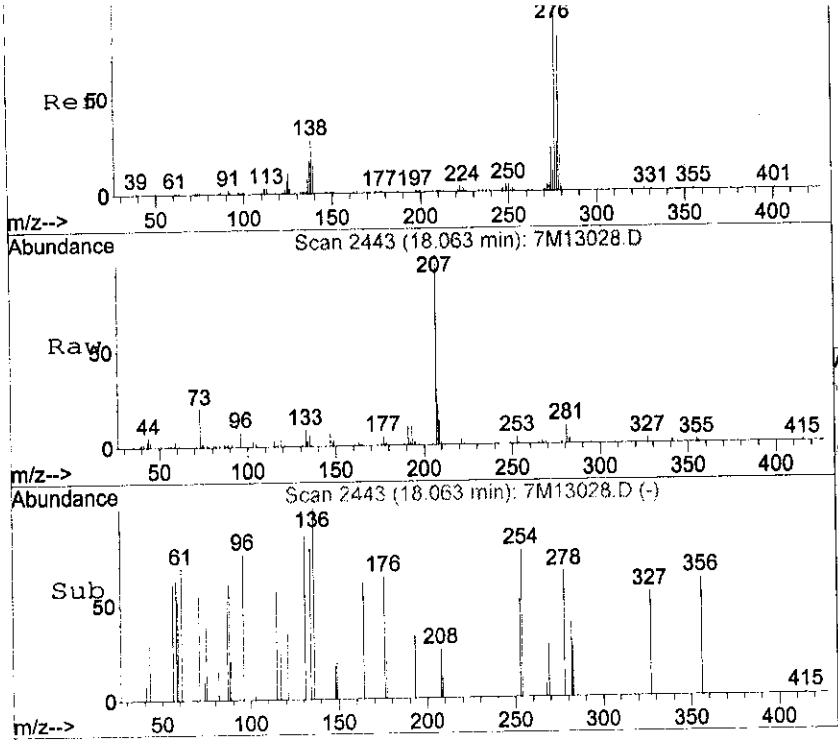




#24
Indeno[1,2,3-cd]pyrene
Concen: 0.13 ug/ml
RT: 18.04 min Scan# 2439
Delta R.T. -0.01 min
Lab File: 7M13028.D
Acq: 22 May 2001 16:37

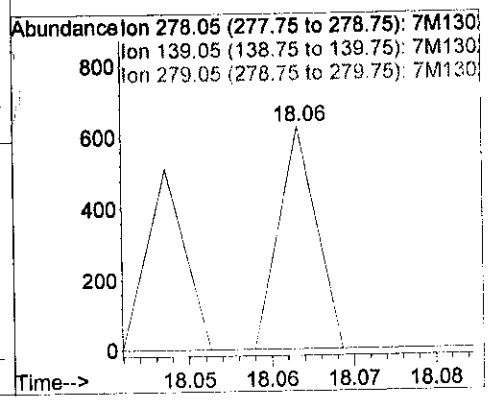
Tgt Ion:276	Resp:	575
Ion	Ratio	Lower	Upper
276	100		
138	0.0	22.5	33.7#
227	0.0	0.0	0.0





Dibenz[an]anthracene
Concen: 0.13 ug/ml
RT: 18.06 min Scan# 2443
Delta R.T. 0.01 min
Lab File: 7M13028.D
Acq: 22 May 2001 16:37

Tgt Ion:278	Resp:	201
Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.4	23.0#
279	81.6	19.1	28.7#



Data File : C:\HPCHEM\1\DATA\052201\4M8477.D
Acq On : 22 May 2001 17:26
Sample : WG97802-03 LCS 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:50 2001

Vial: 15
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	277366	40.00	ug/ml	0.00
19) Naphthalene-d8	9.74	136	1064045	40.00	ug/ml	0.00
34) Acenaphthene-d10	11.54	164	578662	40.00	ug/ml	0.00
56) Phenanthrene-d10	13.08	188	912251	40.00	ug/ml	0.00
67) Chrysene-d12	15.86	240	1054715	40.00	ug/ml	0.00
76) Perylene-d12	18.18	264	1006142	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	7.09	112	553198	55.44	ug/ml	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 55.44%			
6) Phenol-d5	8.03	99	731295	60.05	ug/ml	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 60.05%			
20) Nitrobenzene-d5	9.01	82	317596	29.76	ug/ml	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 59.52%			
38) 2-Fluorobiphenyl	10.81	172	640681	29.88	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 59.76%			
55) 2,4,6-Tribromophenol	12.36	330	212450	63.56	ug/ml	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 63.56%			
70) p-Terphenyl-d14	14.66	244	1212865	44.89	ug/ml	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 89.78%			
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	5.40	74	188393	946.60	ug/ml	97
7) Phenol	8.04	94	395822	1006.60	ug/ml	95
8) bis(2-Chloroethyl)ether	8.14	63	218842	978.20	ug/ml	96
9) 2-Chlorophenol	8.23	128	295641	939.71	ug/ml	99
10) 1,3-Dichlorobenzene	8.38	146	317251	914.45	ug/ml	100
11) 1,4-Dichlorobenzene	8.44	146	337077	910.94	ug/ml	99
12) Benzyl Alcohol	8.56	108	200735	977.44	ug/ml	99
13) 1,2-Dichlorobenzene	8.62	146	309078	924.96	ug/ml	100
14) 2-Methylphenol	8.65	107	243303	968.70	ug/ml	99
15) bis(2-Chloroisopropyl)ethe	8.67	45	478340	1009.37	ug/ml	98
16) 4-Methylphenol	8.79	107	362434	997.02	ug/ml	99
17) n-Nitrosodipropylamine	8.81	70	214001	1041.44	ug/ml	98
18) Hexachloroethane	8.95	117	113488	838.52	ug/ml	99
21) Nitrobenzene	9.03	77	318298	967.69	ug/ml	99
22) Isophorone	9.24	82	572301	1099.13	ug/ml	99
23) 2-Nitrophenol	9.34	139	170269	980.23	ug/ml	97
24) 2,4-Dimethylphenol	9.33	122	284669	1049.77	ug/ml	97
25) bis(2-Chloroethoxy)methane	9.43	93	348555	997.68	ug/ml	97
26) Benzoic Acid	9.40	122	106040	825.35	ug/ml	100
27) 2,4-Dichlorophenol	9.58	162	242632	994.34	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8477.D
Acq On : 22 May 2001 17:26
Sample : WG97802-03 LCS 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:50 2001

Vial: 15
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
28)	1,2,4-Trichlorobenzene	9.67	180	246230	897.06	ug/ml	98
29)	Naphthalene	9.76	128	904432	976.58	ug/ml	100
30)	4-Chloroaniline	9.80	127	306887	799.43	ug/ml	99
31)	Hexachlorobutadiene	9.85	225	150188	971.71	ug/ml	100
32)	4-Chloro-3-Methylphenol	10.25	107	263354	1073.31	ug/ml	99
33)	2-Methylnaphthalene	10.45	142	583562	986.54	ug/ml	100
35)	Hexachlorocyclopentadiene	10.61	237	67544	939.86	ug/ml	98
36)	2,4,6-Trichlorophenol	10.74	196	161096	978.72	ug/ml	100
37)	2,4,5-Trichlorophenol	10.78	196	180958	1003.69	ug/ml	99
39)	2-Chloronaphthalene	10.97	162	533637	945.38	ug/ml	100
40)	2-Nitroaniline	11.07	65	169024	966.65	ug/ml	99
41)	Dimethylphthalate	11.21	163	614504	1025.26	ug/ml	100
42)	Acenaphthylene	11.40	152	881121	1042.79	ug/ml	100
43)	2,6-Dinitrotoluene	11.30	165	147373	1049.51	ug/ml	99
44)	3-Nitroaniline	11.49	138	180221	1212.54	ug/ml	99
45)	Acenaphthene	11.58	154	563812	1017.75	ug/ml	100
46)	2,4-Dinitrophenol	11.60	184	69653	1127.60	ug/ml	87
47)	4-Nitrophenol	11.62	65	157937	1294.83	ug/ml	99
48)	Dibenzofuran	11.75	168	738578	972.09	ug/ml	100
49)	2,4-Dinitrotoluene	11.72	165	245670	1297.69	ug/ml	98
50)	Diethylphthalate	11.91	149	698361	1207.46	ug/ml	100
51)	Fluorene	12.10	166	617208	996.58	ug/ml	99
52)	4-Chlorophenyl Phenyl Ethe	12.06	204	274419	941.27	ug/ml	100
53)	4-Nitroaniline	12.13	138	226910	1643.84	ug/ml	93
54)	1,2-Diphenylhydrazine	12.22	77	640720	1020.88	ug/ml	99
57)	4,6-Dinitro-2-Methylphenol	12.14	198	155209	1363.22	ug/ml	95
58)	n-Nitrosodiphenylamine	12.18	169	510265	1190.44	ug/ml	100
59)	4-Bromophenyl Phenyl Ether	12.56	248	164712	939.86	ug/ml	98
60)	Hexachlorobenzene	12.69	284	237303	1177.00	ug/ml	99
61)	Pentachlorophenol	12.88	266	124214	1384.53	ug/ml	97
62)	Phenanthrene	13.10	178	1138653	1257.23	ug/ml	100
63)	Anthracene	13.15	178	1164994	1278.27	ug/ml	100
64)	Carbazole	13.31	167	1188702	1975.39	ug/ml	99
65)	Di-n-Butyl Phthalate	13.55	149	1525263	1491.37	ug/ml	100
66)	Fluoranthene	14.33	202	1473139	1445.62	ug/ml	100
69)	Pyrene	14.58	202	1539194	1449.31	ug/ml	100
71)	Butyl Benzyl Phthalate	15.11	149	724986	1509.67	ug/ml	99
72)	Benzo[a]anthracene	15.84	228	1509323	1480.37	ug/ml	100
73)	3,3'-Dichlorobenzidine	15.77	252	442354	1685.27	ug/ml	100
74)	Chrysene	15.90	228	1524462	1520.21	ug/ml	100
75)	bis(2-Ethylhexyl)phthalate	15.66	149	967701	1489.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8477.D
Acq On : 22 May 2001 17:26
Sample : WG97802-03 LCS 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:50 2001

Vial: 15
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Di-n-Octyl Phthalate	16.47	149	1584222	1447.46	ug/ml	99
78) Benzo[b]fluoranthene	17.44	252	1431752	1479.17	ug/ml	99
79) Benzo[k]fluoranthene	17.48	252	1390135	1441.43	ug/ml	99
80) Benzo[a]pyrene	18.07	252	1239575	1413.97	ug/ml	100
81) Indeno[1,2,3-cd]pyrene	20.81	276	1368887	1582.22	ug/ml#	96
82) Dibenz[ah]anthracene	20.81	278	1163089	2064.17	ug/ml	100
83) Benzo[ghi]perylene	21.64	276	1031718	1478.59	ug/ml	100

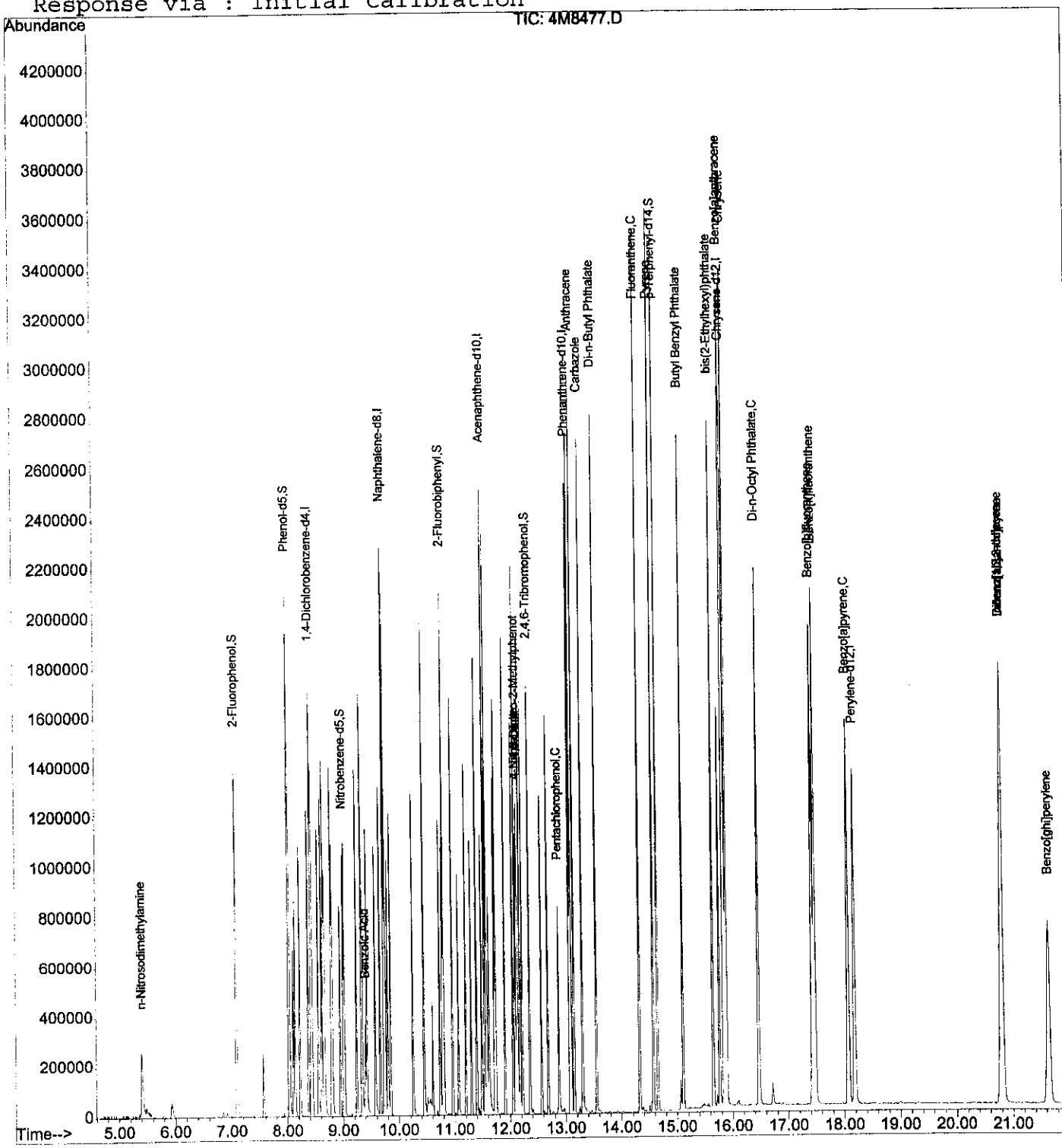
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\4M8477.D
Acq On : 22 May 2001 17:26
Sample : WG97802-03 LCS 5/21 V163P149
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 23 8:50 2001

Vial: 15
Operator: mdc
Inst : HPMS4
Multiplr: 33.30

Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/Initial cal.05/22/01
Last Update : Wed May 23 08:36:28 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052201\7M13027.D
Acq On : 22 May 2001 16:06
Sample : WG97803-02 LCS 5/21/01 V163P151
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 16:29:38 2001

Vial: 9
Operator: rdc
Inst : HPMS7
Multiplr: 1.00
Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 12:30:19 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

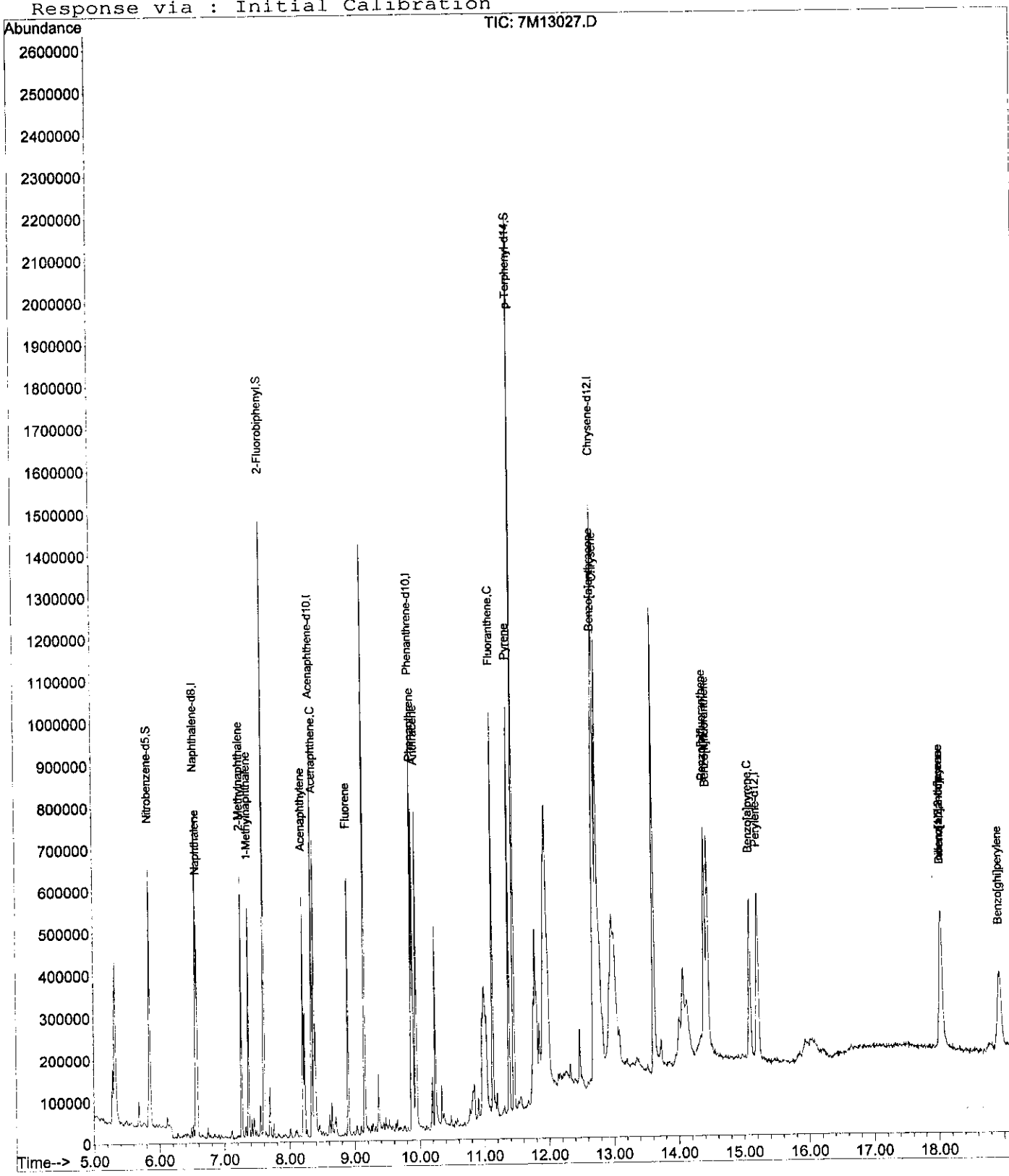
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	393986	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	212873	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	357775	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	356792	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	321351	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	205595	1.65	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 66.00%			
7) 2-Fluorobiphenyl	7.61	172	483023	1.54	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 61.60%			
17) p-Terphenyl-d14	11.45	244	698220	1.80	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 72.00%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	253433	0.57	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	172269	0.62	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	158705	0.59	ug/ml	97
8) Acenaphthylene	8.20	152	245173	0.63	ug/ml	100
9) Acenaphthene	8.38	154	160043	0.59	ug/ml	98
10) Fluorene	8.90	166	192229	0.66	ug/ml	99
12) Phenanthrene	9.90	178	307579	0.67	ug/ml	99
13) Anthracene	9.95	178	295694	0.75	ug/ml	100
14) Fluoranthene	11.13	202	409737	0.86	ug/ml	99
16) Pyrene	11.38	202	428831	0.78	ug/ml	98
18) Benzo[a]anthracene	12.69	228	384335	0.86	ug/ml	100
19) Chrysene	12.75	228	391493	0.78	ug/ml	100
21) Benzo[b]fluoranthene	14.40	252	393598	0.73	ug/ml	99
22) Benzo[k]fluoranthene	14.45	252	357281	0.69	ug/ml	99
23) Benzo[a]pyrene	15.10	252	310086	0.74	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.03	276	289565	0.60	ug/ml#	99
25) Dibenz[ah]anthracene	18.04	278	188341	0.51	ug/ml	99
26) Benzo[ghi]perylene	18.94	276	260103	0.59	ug/ml	100

(#) = qualifier out of range (m) = manual integration
7M13027.D PAHLOW.M Tue May 22 16:40:53 2001

Data File : C:\MSDCHEM\1\DATA\052201\7M13027.D
Acq On : 22 May 2001 16:06
Sample : WG97803-02 LCS 5/21/01 V163P151
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 16:29 2001

Vial: 9
Operator: rdc
Inst : HPMS7
Multiplr: 1.00
Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 12:30:19 2001
Response via : Initial Calibration



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 21, 2001 Instrument ID HPMS7 Column ID RTX-5SIL MS SOP # MSS01 Rev. # 7 _____ 8270C
Analyst Initials MDC Data Subdirectory 052101 SOP # MSS02 Rev. # 1 _____ 625
ISTD # S54-6

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (If applicable)	Status
7M12995	5ppm DFTPP	1	S53-22		RR
96					↓
97					✓
98					
99	1 ppm PAH STD		S53-45-1		✓
7M13000	10		S53-44		✓
01	5		S53-45-2		✓
02	0.5		S53-46-1		✓
03	0.1		S53-45-3		✓
04	0.05		S53-46-2		✓
05	1		S53-47		✓
06	L0105318-02 alt. source 10x water	10		7M12964	✓
07	-05	10		7M12967	✓
08	-06	10		7M12968	RR20
09	-10	10		7M12984	RR100
10	-11	10		↓ 7	✓
11	-12	10		8	✓
12	WG97637-02 BLK 5/17 V1B3P115 water	1			RE
13	LCS	1			RE
14	WG97639-02 BLK 5/17 V1B3P119 soil	1			RE
15	-03 LCS	1			RE
16	WG97548-01 L0105328-01 10x soil	10			✓
17	-04 -01MS	10			✓
18	-05 -01MSD	10			✓

Trace 5/22/01

Reviewed By: [signature] 5/22/01

Status:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 21, 2001 Instrument ID HPMS7 Column ID RTx-5SIL MS Data Subdirectory 052101

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☑ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☑ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ✓ No ___

Additional Maintenance
Problem: pentachlorophenol sensitivity low

Action Taken: new column installed & recalibration done

Column Serial # 206532

Comments

L0105318-06 RL@20X - #3
↓ -10 RL@100X - #3

V163P119 BLANK > sent for RE-EXT (L0105388 soils)
↓ LCS
due to contaminated blank
(12 analytes [PAH] present)

V163P115 BLANK - low for surr. #3
↓ LCS - low for benzo(b)fluoranthene & benzo(g,h,i)perylene
↳ re-ext. for { L0105378-01, 02, 05, 08, & 09
L0105388-01
L0105402-01, 02, 03
requested

L0105328-01
-01MS
-01MSD } run @ 10X due to appearance (also conc. to 2 mL final vol.)

Reviewed By: [signature]

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HPMS4 Column ID RTX-5Sil-MS SOP # MSS01 Rev. # 7 ✓ 82
Analyst Initials mdc Data Subdirectory a522u1 SOP # MSS02 Rev. # 1 62
ISTD # 1302502la SOP # MSS03 Rev. # 0 P/

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)
4M8463	WG97980-01 50PPM DFTPP	1	553-17	
64	-02 50PPM BNA STD		5055 4-9-4	
65	-03 3PPM		-1	
66	-04 10PPM		-2	
67	-05 20PPM		-3	
68	-06 80PPM		-5	
69	-07 100PPM		-6	
70	-08 120PPM		-7	
71	-09 50PPM ↓ Alt. source		552-21	
72	-10 50PPM DFTPP		553-17	
73	-11 50PPM BNA STD		5055 4-9-4	
74	WG97704-02 BLK 5/8 WG5P83			
75	↓ -03 LCS ↓ ↓			
76	WG97602-01 BLK 5/21 WG3P149			
77	↓ -02 LCS ↓ ↓			
78	L01105262-03			
79	-04 · WG97256-01			
80	-05 MS ↓ -04			
81	-06 MSD ↓ -05	↓		
82	L01105279-10	20		4MG464
83	L01105435-01 SOIL	1		
84	↓ -02			
85	L01105410-02			
86	↓ -01			
87	L01105409-02			
88	↓ -03			
89	L01105410-03			
90	L01105409-01 WG97704-01			
91	-01 MS -04			
92	-21 MSD ↓ -05			
93	-05			
94	-06			
95	-04			

mdc 5/23/01

Reviewed By: RMC 5/23/01

Status:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 052201 **Instrument ID** HPMS4 **Column ID** RTX-5 Sil-MS **Data Subdirectory** 052201

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: ______

Action Taken: ______

Comments

L0105262-05,06-SS low
L0105409-01 - need 5x #66
Alt. source - #72, 35, 82 >25%

Reviewed By: RRC 5/23/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HPMS7 Column ID RTX5 SIL-MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials RWC Data Subdirectory 052201 SOP # MSS02 Rev. # 1 ____ 625
ISTD # S54-6

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7M13019	5PPM DETPP	1	S53-22		✓
20	1 ppm PAH STA	1	S53-45-1		✓
21	ES50037-17 SPIKE @ 2X	2			✓
22	-16 SPIKE @ 2X	2			✓
23	L0105318-06 20X WATER	20			✓
24	-10 100X WATER	100			✓
25	ES5316-42 SPIKE @ 2X	2			✓
26	2X (RERUN IN ERROR)	2			✓
27	WG97803-02 LCS 5/21/01 V1163 P151	1			✓
28	-01 BLANK				✓
29	L0105404-11 WATER				✓
30	L0105349-02 RE-EXT WATER				✓
31	WG97165-02 BLANK 5/21/01 V1163 P135				✓
32	-03 LCS				✓
33	WG97137-01 L0105378-01 WATER				RE
34	-04 MS WATER				↓
35	-05 MSD WATER				RE
36	L0105378-02 WATER				RE
37	-05 WATER				RE
38	-08				RE
39	-09				RE
40	L0105388-01				RE
41	L0105402-01				RE
42	-02				RE
43	-03				RE

CAB 5.23.01

Reviewed By: mks 5/23/01

Status:

✓ = Compliant Analysis. Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SM1 = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HPMS7 Column ID RTX-5SilMS Data Subdirectory 052201

Daily Check

- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

L0105378-01 has surr. #3 low (re-ext requested yesterday for low LCS & Blank w #3 surr. low)

L0105378-02, 05, 09 > surr. #3 low
L0105388-01

L0105402-01 SURR. #2 low
↓ -02 ↓ #3 ↓

Reviewed By: _____ 5/23/01

KEMRON ENVIRONMENTAL SERVICES

Semiyolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 23 01 Instrument ID HPMS7 Column ID RTx5SIL-MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials RWC Data Subdirectory 052301 SOP # MSS02 Rev. # 1 _____ 625
ISTD # 554-6

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7M13044	5ppm DFTPP	1	553-22		RR
45	↓	1			RR
46	↓	1			✓
47	1 ppm PAH Std. (553-45-1)	1	553-45-1		✓
48	WG97919-02 BLK 5/22/01 V163P177 soil	1			✓
49	↓ -03 LCS ↓ ↓	↓ 1			✓
50	L0105388-10 soil	1			✓
51	WG97919-01 L0105388-06 soil	1			✓
52	↓ -04 ↓ -07MS	1			✓
53	↓ -05 ↓ -08MSD	1			✓
54	L0105388-05	1			RR
55	↓ -04	1			✓
56	L0105404-01	1			✓
57	WG97765-01 L0105404-02 soil	1			✓
58	↓ -04 ↓ -03MS	1			✓
59	↓ -05 ↓ -04MSD	1			✓
60	L0105404-06 soil	1			✓
61	-07	1			✓
62	-09	1			✓
63	-10	1			✓
64	-05	1			✓
65	-08	1			✓
66	L0105388-09 soil	1			RR10
67	L0105413-01 ↓	1			✓
68	L0105388-03 10X ↓	10			✓
69	↓ -02 10X	10			RR100

RRc 5/24/01

Status: Reviewed By: [signature] 5/24/01

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time: May 23 '01 Instrument ID: HP#5 Column ID: RTx-5 SIL-MS Data Subdirectory: 052301

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☑ Clip column (30cm)
- ☑ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ✓ No ____

Additional Maintenance
Problem: pentachlorophenol area count low

Action Taken: as checked at left

Comments

L0105388-05 IS #5 is high - need rerun

L0105413-01 needs 10x for #14

L0105388-02 needs 100x for #14

Reviewed By: [signature] 9/29/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HPMS4 Column ID RTX-5 Sil MS
Analyst Initials mc Data Subdirectory 052401
ISTD # B020819

SOP # MSS01 Rev. # 7 ✓ 82
SOP # MSS02 Rev. # 1 ✓ 62
SOP # MSS03 Rev. # 0 PA

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)
HM8521	LW98192-01 5ppm DFTPP	1	5S7-17	
22	-02 50ppm BNA std		50S54-04	
23	-03 3ppm		-1	
24	-04 10ppm		-2	
25	-05 20ppm		-3	
26	-06 50ppm		-5	
27	-07 100ppm		-6	
28	-08 120ppm		-7	
29	-09 50ppm Mix source		50S5414	
30	-10 5ppm DFTPP		5S7-17	
31	-11 5ppm BNA std		50S54-04	
32	-12 45-50ppm App. IX std.		5S2-5	
33	LW-97677-02 Blk Silx LW63P127			
34	-03 LCS			
35	LW105397-01 soil			
36	-02			
37	LW105404-01 soil			
38	-02 LW97502-01			
39	-03 -04 MS			
40	-04 -05 MSD			
41	-05			
42	-06			
43	-07			
44	-08			
45	-09			
46	-10			
47	LW105262-01			
48	-07			
49	-08			
50	-10			
51	-02			
52	LW105294-03 soil	10		
53	LW105338-01	1		
54	-02	1		

Reviewed By: DRR 5/29/01

Status:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HPMS4 Column ID RTX-5 Silms Data Subdirectory 052401

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: ______________________

Action Taken: ______________________

Comments

W6976703 LCS - #2,3,5 <8270 limits, #26,29,30,39 < AFCEE QC Zone D limits.
L0105397-01,02 - SS1,2,4,5,6 low, 6ml
* signal buffer full

Reviewed By: DPL 5/29/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HPMS4 Column ID RTX-5Sil-MS
Analyst Initials mk Data Subdirectory 052501
ISTD # R0180519

SOP # MSS01 Rev. # 7 ✓ 8270
SOP # MSS02 Rev. # 1 ____ 625
SOP # MSS03 Rev. # 0 ____ PAH

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
4MG342	W648214-01 50ppm DFTPP	1	55317		✓
43	↓ -02 50ppm BNA STD		505549.4		
44	L0105404-05 soil				
45	-06				
46	07				
47	-08				
48	-09				
49	-10				
50	L0105262-01				
51	-07				
52	-08				
53	-10				
54	48.50ppm Appendix IX std. W648314-03		5525		
55	W647917-02 BLK 5/22 W63P179				
56	↓ -03 LCS ↓ ↓				
57	L0105373-04				
58	W647822-01 TCLP 5/21				
59	L0105341-01 TCLP				
60	L0105397-02				
61	↓ -04				
62	L0105262-02				RR
63	L0105425-01				✓
64	L0105294-03 soil	10			

mk 5/29/01

Reviewed By: RRC 5/29/01

Status:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/28/01 Instrument ID HP5973 Column ID RTX-5Sil MS Data Subdirectory 052801

Daily Check

- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

L01052621-10 SS2 low

L01053731-01 SS4 low

L01053411-01 SS1 low

L01053971-01 SS1 low

L01054251-01 SS1 low, SS3 high (sm), need ox #75

Reviewed By: RLC 5/29/01

Volume 163
Page 149

Parameter: BNA-S SOP #: EX802 Revision #: 10
Extraction Analyst(s): DP TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/21/01 15:30 Date TV/KD: 5/21/01
Spike/Surrogate Analyst: DP Witness: DCJ
Surrogate #: ES500 37-10 #8 Earliest Hold Date: 5/30/01
Spike #: A = ES500 37-11 #2 Spike #: B = —

Extraction Work Group WG 97802
Analytical Work Group WG 97976
Extract Relinquished By: DH
Extract Received By & Date: mlc 5/22/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					30.00 g	500 µl		1 ml	T				WG 97802-02
2	LCS					1.00		500 µl		C				WG 1 -03
3	05-380-01	827-ACID-SPE				33.33				O				
4	-02					34.88				C				
5	-03					31.25				O				
6	-04					23.71								
7	-05					35.71				C				
8	05-404-01	827-SPE-SV				30.09								
9	-02					.06								WG 97802-01
10	-03 MS					.03		500 µl					*	WG 1 -04
11	-04 MSD					.08		1					*	WG 1 -05
12	-05					.02								
13	-06					.09								
14	-07					.09								
15	-08					.00								
16	-09					.02								
17	-10					.03								
18	05-435-01	827-PAH				.03								
19	1 -02	1				.04	1		1	1				
20														
21														
22														
23							5/21/01 JAQ							
24														

Methylene Chloride Lot #: 4/016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: FR 1705

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/22/01

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Extraction Notes For Volume # 163 Page # 149

General Comments: * MS of 05-404-02
* MSD of

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

800

Parameter: PAH 8270 SOP #: EXA5C01 Revision #: 01
Extraction Analyst(s): PEV TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/21/01 0900 Date TV/KD: 5/21/01
Spike/Surrogate Analyst: PEV Witness: DX
Surrogate #: ES50036-49 Earliest Hold Date: 5/31
Spike #: A = ES50036-42 Spike #: B = —

Extraction Work Group WG WG 99765
Analytical Work Group WG 98002
Extract Relinquished By: WG99765 PEV JAQ 5/21/01
Extract Received By & Date: [illegible] 5/22/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					20.02 g	250uL		1 mL	T				WG99765-02
2	LCS					20.01		1mL		T				WG 99765-03
3	05-404-01	827-PAHL				20.00				C				
4	-02					20.07								WG97765-01
5	-MS 03					20.02		1mL						#WG97765-04
6	-MSD 04					20.00		1						* WG97765-05
7	-05					20.01								
8	-06					20.10								
9	-07					20.03								
10	-08					20.05								
11	-09					20.09								
12	-10					20.00								
13	05-413-01	827-PAHL-NFPP				20.02								
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/24/01 JAQ

5/25 PFP

5/25 PFP

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: DE Lot #: N02H13
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: —

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/22/01

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Sample Extract Log Sheet

Volume 163
Page 136

Extraction Notes For Volume # 163 Page # 135

General Comments: *-a MS, MSD of 05-404-02

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

802

Parameter: LPAH-WLD SOP #: EXA01 Revision #: 9
Extraction Analyst(s): JAR TV/KD Analyst(s): JAR
Date/Time Extracted: 5/2/01 1600 Date TV/KD: 5/2/01
Spike/Surrogate Analyst: JAR Witness: TM
Surrogate #: ES50036-49 Earliest Hold Date: 5/31
Spike #: A = ES50036-42 Spike #: B = —

Extraction Work Group WG 97803
Analytical Work Group WG 97994

Extract Relinquished By: [illegible]
Extract Received By & Date: [illegible]

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank			✓		1L	250µl		1ml	T				WG 97803-01
2	LCS			✓		1		1ml						WG 97803-02
3	05-451-11	8270 PAH		✓		940ml								
4	05-345-02	8270 PAH-APH		✓		980ml								
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/2/01 JAR

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Fortified Lot #: ER1707
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER 1705

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/22/01

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Extraction Notes For Volume # 163 Page # 151

General Comments: Re ext w/in hold

Extraction Anomalies: nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Example 8270 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax)(Cis)] / [(Ais)(Cx)]

Where:	Example:
Ax = Area of the characteristic ion for the compound being measured	10000
Cis = Concentration of the specific internal standard (ng/ml).	100
Ais = Area of the characteristic ion for the specific internal standard.	5000
Cx = Concentration of the compound being measured (ng/ml).	100
RF	**2**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Vi)]

Where:	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Vi = Initial volume of sample (mL). (prep log)	1000
C (ug/L) =	**4**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Wi)]

Where:	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL).	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Wi = Initial weight of sample (g).	30
C (ug/kg)	**133.3333**

2.2.2 Pesticide GC Data (8081)

REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS associated with sample 02 yielded a % recovery for 4,4'-DDT that was above the acceptable limit. The secondary column MS yielded % recoveries for 4,4'-DDE, 4,4'-DDT and methoxychlor that were above the acceptable limits. This was due to sample matrix interference. All other acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.

Endrin/ DDT Breakdown : All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL

REVIEWED: Stephanie A Lyon DATE: 5/31/01

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Date: 5/24/01
Analyst: ECL
Method: 8081
Instrument: HP 9
Work Group:

WG 97881
97874

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	~~✓~~ NA
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	NA
Special Standards	✓
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	NA
Reruns	
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	~~NA~~ ✓
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 5/25/01

Secondary Reviewer Initials & Date Checked [signature] 5/25/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/25/01

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

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PESTICIDE-GC DATA (8081)

Login Number: 05-404

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Endrin/DDT Breakdown chromatogram and external standard report

✓ Method blank chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: EC2 Date: 5/25/01

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2.2.2.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8081 WATERS , REAR

EXT'N DATE : 5/21/01
EXT'N BENCH SHT : V163 P139
EXT'N WORK GRP : WG97758

INSTRUMENT : HP9
ANALYST : ECL
RUN DATE : 5/24/01
ANAL WORK GRP : WG97874

BLK FLNM : 9G15992
LCS FLNM : 9G15993

SAMPLE ID : L0105373-01
SMPL FLNM : 9G15995
MS FLNM : 9G15996
MSD FLNM : 9G15997

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY						PERCENT			
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits
ALPHA-BHC	0.05	ND	0.484	ND	1.08	0.941	NA	96.8	31	144	NA	108	94.1	31	144	13.6	0-42
GAMMA-BHC	0.05	ND	0.506	ND	1.10	0.980	NA	101	40	144	NA	110	98.0	40	144	11.6	0-39
BETA-BHC	0.05	ND	0.548	ND	1.15	1.08	NA	110	56	125	NA	115	108	56	125	7.0	0-35
HEPTACHLOR	0.05	ND	0.428	ND	1.01	0.893	NA	85.6	27	139	NA	101	89.3	27	139	12.3	0-41
DELTA-BHC	0.05	ND	0.589	ND	1.25	1.14	NA	118	61	148	NA	125	114	61	148	9.0	0-40
ALDRIN	0.05	ND	0.408	ND	0.970	0.857	NA	81.6	32	139	NA	97.0	85.7	32	139	12.4	0-38
HEPTACHLOR EPOXIDE	0.05	ND	0.571	ND	1.24	1.13	NA	114	50	140	NA	124	113	50	140	9.4	0-42
GAMMA-CHLORDANE	0.05	ND	0.555	ND	1.23	1.12	NA	111	70	130	NA	123	112	70	130	9.4	0-40
ALPHA-CHLORDANE	0.05	ND	0.563	ND	1.23	1.13	NA	113	70	130	NA	123	113	70	130	8.6	0-40
ENDOSULFAN I	0.05	ND	0.455	ND	0.988	0.904	NA	91.0	37	115	NA	98.8	90.4	37	115	8.9	0-38
4,4-DDE	0.10	ND	0.581	ND	1.27	1.16	NA	116	58	137	NA	127	116	58	137	8.4	0-36
DIELDRIN	0.10	ND	0.600	ND	1.29	1.19	NA	120	59	147	NA	129	119	59	147	8.7	0-39
ENDRIN	0.10	ND	0.629	ND	1.35	1.25	NA	126	60	153	NA	135	125	60	153	8.0	0-40
4,4-DDD	0.10	ND	0.628	ND	1.32	1.24	NA	126	62	145	NA	132	124	62	145	6.5	0-38
ENDOSULFAN II	0.10	ND	0.443	ND	0.972	0.831	NA	88.6	42	112	NA	97.2	83.1	42	112	15.6	0-30
4,4-DDT	0.10	ND	0.611	ND	1.31	1.21	NA	122	64	151	NA	131	121	64	151	7.8	0-31
ENDRIN ALDEHYDE	0.10	ND	0.369	ND	0.773	0.649	NA	73.8	21	131	NA	77.3	64.9	21	131	17.4	0-49
ENDOSULFAN SULFATE	0.10	ND	0.450	ND	1.03	0.839	NA	90.0	15	154	NA	103	83.9	15	154	20.7	0-60
METHOXYCHLOR	0.5	ND	0.658	ND	1.49	1.33	NA	132	66	152	NA	149	133	66	152	11.5	0-35
ENDRIN KETONE	0.50	ND	0.486	ND	1.05	0.882	NA	97.2	37	165	NA	105	88.2	37	165	17.8	0-49
Tech-CHLORDANE	1.0	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-40
TOXAPHENE	1.0	ND	NA	ND	NA	NA	NA	NA	39	128	NA	NA	NA	39	128	NA	0-39
SURROGATES																	
2,4,5,6-TETRACHLORO-M-XYLENE		9.93	11.1	11.0	12.6	11.2	49.6	55.3	13	154	55.2	63.1	55.8	13	154		
DECACHLOROBIPHENYL		18.8	23.1	21.4	24.0	21.3	94.1	115	25	140	107	120	107	25	140		

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 0.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

811

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8081 SOILS , FRONT

INSTRUMENT : HP9
EXT'N DATE : 5/21/01 ANALYST : ECL BLK FLNM : 9G15977 SAMPLE ID : L0105404-02
EXT'N BENCH SHT : V163 P145 RUN DATE : 5/24/01 LCS FLNM : 9G15978 SMPL FLNM : 9G15980
EXT'N WORK GRP : WG97754 ANAL WORK GRP : WG97881 MS FLNM : 9G15981
MSD FLNM : 9G15982

		CONCENTRATION , ug/kg					% RECOVERY								PERCENT					
															MS/MSD	RPD				
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	RPD	Advisory Limits	Blank	LCS	Sample	MS	MSD
ALPHA-BHC	1.7	ND	14.3	ND	14.9	15.8	NA	85.9	38	125	NA	89.2	94.5	38	125	5.8	0-42					
GAMMA-BHC	1.7	ND	14.6	ND	15.3	16.3	NA	87.5	37	125	NA	91.4	97.4	37	125	6.4	0-42					
BETA-BHC	1.7	ND	14.4	ND	15.2	16.2	NA	86.5	39	103	NA	90.8	97.1	39	103	6.7	0-37					
HEPTACHLOR	1.7	ND	14.7	ND	15.5	16.6	NA	88.2	40	111	NA	92.6	99.2	40	111	6.7	0-40					
DELTA-BHC	1.7	ND	14.1	ND	14.8	15.4	NA	84.6	38	133	NA	88.5	92.5	38	133	4.4	0-40					
ALDRIN	1.7	ND	13.7	ND	14.3	14.5	NA	82.3	34	124	NA	85.9	86.9	34	124	1.2	0-41					
HEPTACHLOR EPOXIDE	1.7	ND	15.0	ND	16.0	16.8	NA	89.6	37	115	NA	95.9	101	37	115	4.7	0-38					
GAMMA-CHLORDANE	1.7	ND	15.2	ND	16.6	16.9	NA	91.0	70	130	NA	99.2	101	70	130	2.1	0-40					
ALPHA-CHLORDANE	1.7	ND	15.1	ND	16.5	16.4	NA	90.4	70	130	NA	98.5	98.0	70	130	0.6	0-40					
ENDOSULFAN I	1.7	ND	11.5	ND	13.2	13.0	NA	69.1	18	107	NA	78.8	77.7	18	107	1.4	0-46					
4,4-DDE	3.3	ND	15.7	ND	19.6	17.7	NA	93.9	39	114	NA	116	106	39	114	10.5	0-38				H	
DIELDRIN	3.3	ND	15.4	ND	17.6	17.2	NA	92.3	41	121	NA	106	103	41	121	2.4	0-39					
ENDRIN	3.3	ND	15.7	ND	17.4	17.4	NA	93.8	41	125	NA	104	104	41	125	0.5	0-42					
4,4-DDD	3.3	ND	16.4	ND	17.9	18.2	NA	98.0	38	119	NA	107	109	38	119	1.5	0-40					
ENDOSULFAN II	3.3	ND	11.0	ND	11.6	10.8	NA	66.0	21	101	NA	69.3	64.5	21	101	7.3	0-43					
4,4-DDT	3.3	ND	15.9	2.23	48.0	18.2	NA	95.4	41	128	NA	274	95.4	41	128	90.2	0-40				H	
ENDRIN ALDEHYDE	3.3	ND	10.9	ND	11.4	10.1	NA	65.5	20	100	NA	68.3	60.7	20	100	11.9	0-54					
ENDOSULFAN SULFATE	3.3	ND	11.9	ND	12.9	11.2	NA	71.5	18	108	NA	77.4	67.2	18	108	14.1	0-53					
METHOXYCHLOR	17	ND	17.4	ND	21.6	22.6	NA	104	43	123	NA	130	135	43	123	4.4	0-40				H	H
ENDRIN KETONE	3.3	ND	12.5	ND	11.8	10.7	NA	74.7	26	129	NA	70.6	64.0	26	129	9.9	0-43					
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-50					
TOXAPHENE	170	ND	NA	ND	NA	NA	NA	NA	25	138	NA	NA	NA	25	138	NA	0-40					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		16.6	15.3	16.1	15.9	16.7	78.0	76.7	29	133	90.3	79.5	83.6	29	133							
DECACHLOROBIPHENYL		15.3	12.9	17.9	18.5	18.0	76.7	64.4	30	173	89.4	92.7	90.1	30	173							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 16.7 ug/kg
SURROGATES spiked at 20 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

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KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8080 SOILS , REAR

EXT'N DATE : 5/21/01
EXT'N BENCH SHT : V163 P145
EXT'N WORK GRP : WG97754

INSTRUMENT : HP9
ANALYST : ECL
RUN DATE : 5/24/01
ANAL WORK GRP : WG97881

BLK FLNM : 9G15977
LCS FLNM : 9G15978

SAMPLE ID : L0105404-02
SMPL FLNM : 9G15980
MS FLNM : 9G15981
MSD FLNM : 9G15982

COMPOUND	RDL	CONCENTRATION , ug/kg					% RECOVERY								PERCENT RPD		
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	Advisory Limits	
ALPHA-BHC	1.7	ND	14.3	ND	14.7	16.3	NA	85.9	38	125	NA	88.0	97.6	38	125	10.3	0-42	
GAMMA-BHC	1.7	ND	14.3	ND	14.8	16.3	NA	85.7	37	125	NA	88.4	97.6	37	125	9.9	0-42	
BETA-BHC	1.7	ND	14.2	ND	14.5	16.1	NA	85.1	39	103	NA	87.0	96.6	39	103	10.5	0-37	
HEPTACHLOR	1.7	ND	14.7	ND	15.2	17.0	NA	87.9	40	111	NA	91.2	102	40	111	10.7	0-40	
DELTA-BHC	1.7	ND	14.8	ND	15.2	16.5	NA	88.5	38	133	NA	90.9	99.0	38	133	8.5	0-40	
ALDRIN	1.7	ND	13.8	ND	14.1	14.8	NA	82.8	34	124	NA	84.7	88.9	34	124	4.8	0-41	
HEPTACHLOR EPOXIDE	1.7	ND	15.0	ND	15.3	16.8	NA	90.0	37	115	NA	91.8	101	37	115	9.3	0-38	
GAMMA-CHLORDANE	1.7	ND	14.9	ND	15.7	17.1	NA	89.4	70	130	NA	93.9	102	70	130	8.4	0-40	
ALPHA-CHLORDANE	1.7	ND	14.9	ND	15.6	17.0	NA	89.4	70	130	NA	93.4	102	70	130	8.8	0-40	
ENDOSULFAN I	1.7	ND	11.8	ND	12.3	13.4	NA	70.8	18	107	NA	73.6	80.4	18	107	8.9	0-46	
4,4-DDE	3.3	ND	15.3	ND	18.4	17.6	NA	91.6	39	114	NA	110	105	39	114	4.6	0-38	
DIELDRIN	3.3	ND	15.2	ND	15.9	17.3	NA	91.2	41	121	NA	95.0	104	41	121	8.8	0-39	
ENDRIN	3.3	ND	15.6	ND	16.2	18.0	NA	93.4	41	125	NA	97.2	108	41	125	10.1	0-42	
4,4-DDD	3.3	ND	15.4	ND	16.8	17.6	NA	92.3	38	119	NA	100	107	38	119	6.0	0-40	
ENDOSULFAN II	3.3	ND	11.2	ND	11.2	11.0	NA	66.8	21	101	NA	67.0	66.0	21	101	1.6	0-43	
4,4-DDT	3.3	ND	15.3	2.21	49.8	18.2	NA	91.9	41	128	NA	285	95.9	41	128	92.9	0-40	H
ENDRIN ALDEHYDE	3.3	ND	9.4	ND	8.6	7.4	NA	56.4	20	100	NA	51.5	44.6	20	100	14.5	0-54	
ENDOSULFAN SULFATE	3.3	ND	11.6	ND	10.6	9.5	NA	69.6	18	108	NA	63.5	56.7	18	108	11.2	0-53	
METHOXYCHLOR	17	ND	16.2	ND	16.9	19.6	NA	96.9	43	123	NA	101	117	43	123	14.9	0-40	
ENDRIN KETONE	3.3	ND	12.0	ND	11.4	11.0	NA	71.8	26	129	NA	68.5	65.6	26	129	4.3	0-43	
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-50	
TOXAPHENE	33	ND	NA	ND	NA	NA	NA	NA	25	138	NA	NA	NA	25	138	NA	0-40	
SURROGATES																		
2,4,5,6-TETRACHLORO-M-XYLENE		15.9	15.9	17.6	18.0	17.7	79.7	79.5	29	133	87.9	79.8	88.6	29	133			
DECACHLOROBIPHENYL		18.1	18.5	17.8	17.5	18.4	90.7	92.5	30	173	88.9	87.6	91.8	30	173			

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 16.7 ug/kg
SURROGATES spiked at 20 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
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RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

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2.2.2.2 Sample Data

Data File : C:\HPCHEM\1\DATA\052401\9G15979.D\ECD1A.CH Vial: 17
Acq On : 24 May 2001 18:01 Operator: ECL
Sample : L0105404-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15979.D\ECD2B.CH Vial: 17
Acq On : 24 May 2001 18:25 Operator: ECL
Sample : L0105404-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:46 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1114.0E6	1600.0E6	15.705	15.314	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		78.53%	76.57%	
22)	S Decachlorobiphen	15.16	14.80	733.8E6	892.6E6	17.919	17.953	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		89.59%	89.77%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	38229919	0	0.191	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

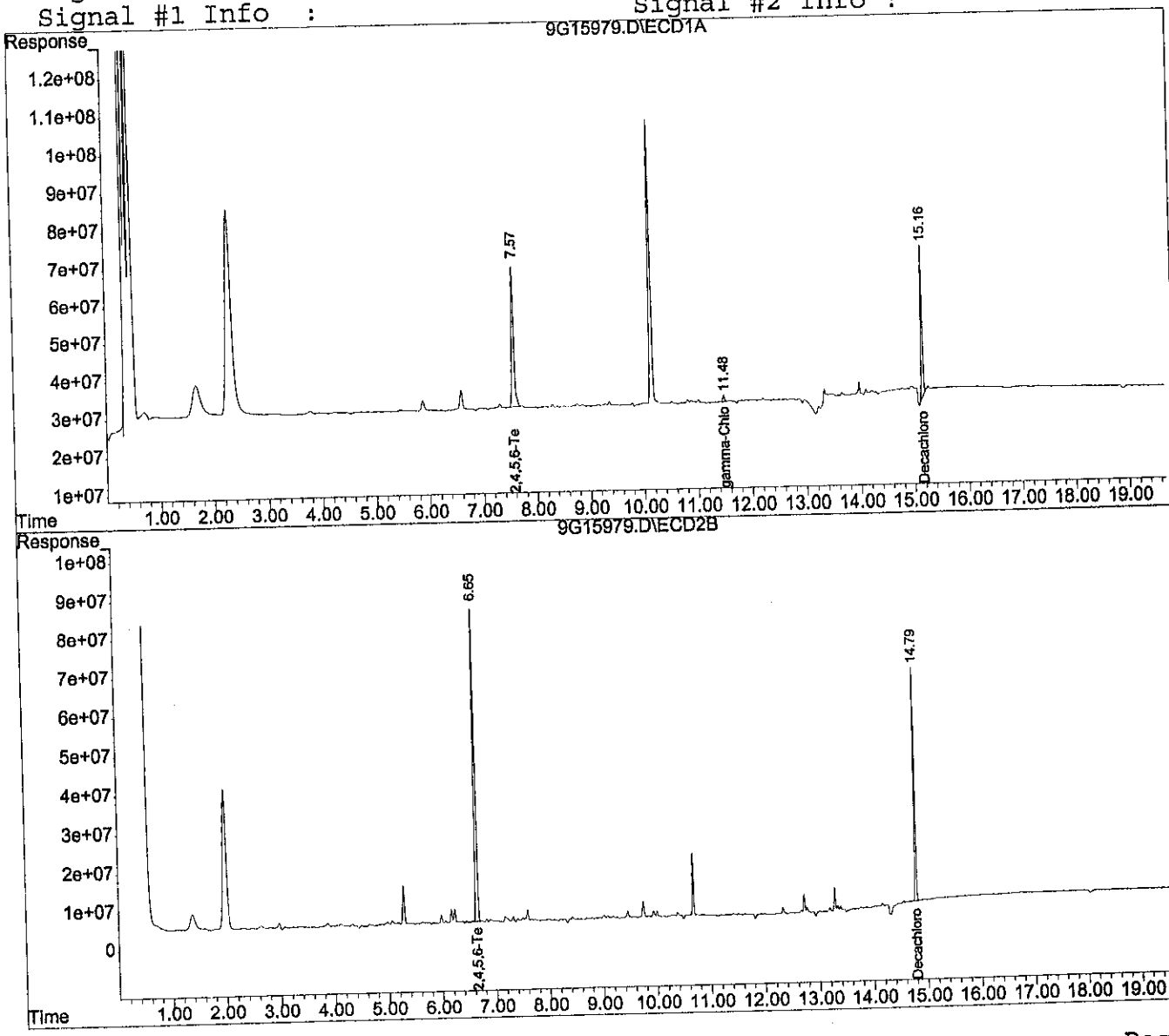
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15979.D\ECD1A.CH Vial: 17
Acq On : 24 May 2001 18:01 Operator: ECL
Sample : L0105404-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15979.D\ECD2B.CH Vial: 17
Acq On : 24 May 2001 18:25 Operator: ECL
Sample : L0105404-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:46 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD1A.CH Vial: 18
Acq On : 24 May 2001 18:25 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD2B.CH Vial: 18
Acq On : 24 May 2001 18:49 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:48 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1280.7E6	1836.8E6	18.054	17.580	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		90.27%	87.90%	
22)	S Decachlorobiphen	15.16	14.79	732.5E6	884.0E6	17.887	17.779	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		89.44%	88.89%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	46409039	0	0.232	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	13.03	12.52	348.0E6	396.3E6	2.232	2.209	VF
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

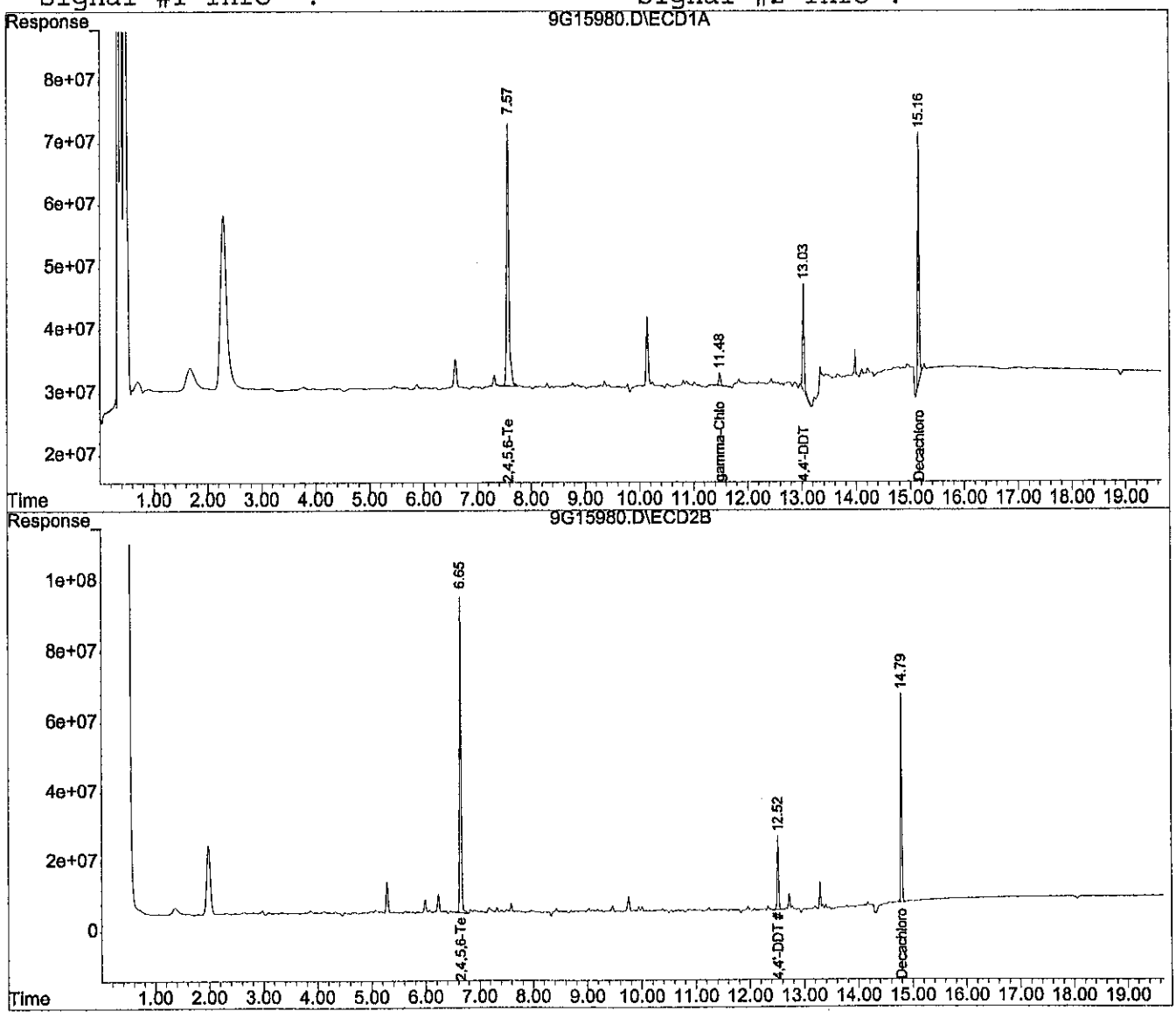
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD1A.CH Vial: 18
Acq On : 24 May 2001 18:25 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD2B.CH Vial: 18
Acq On : 24 May 2001 18:49 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:48 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

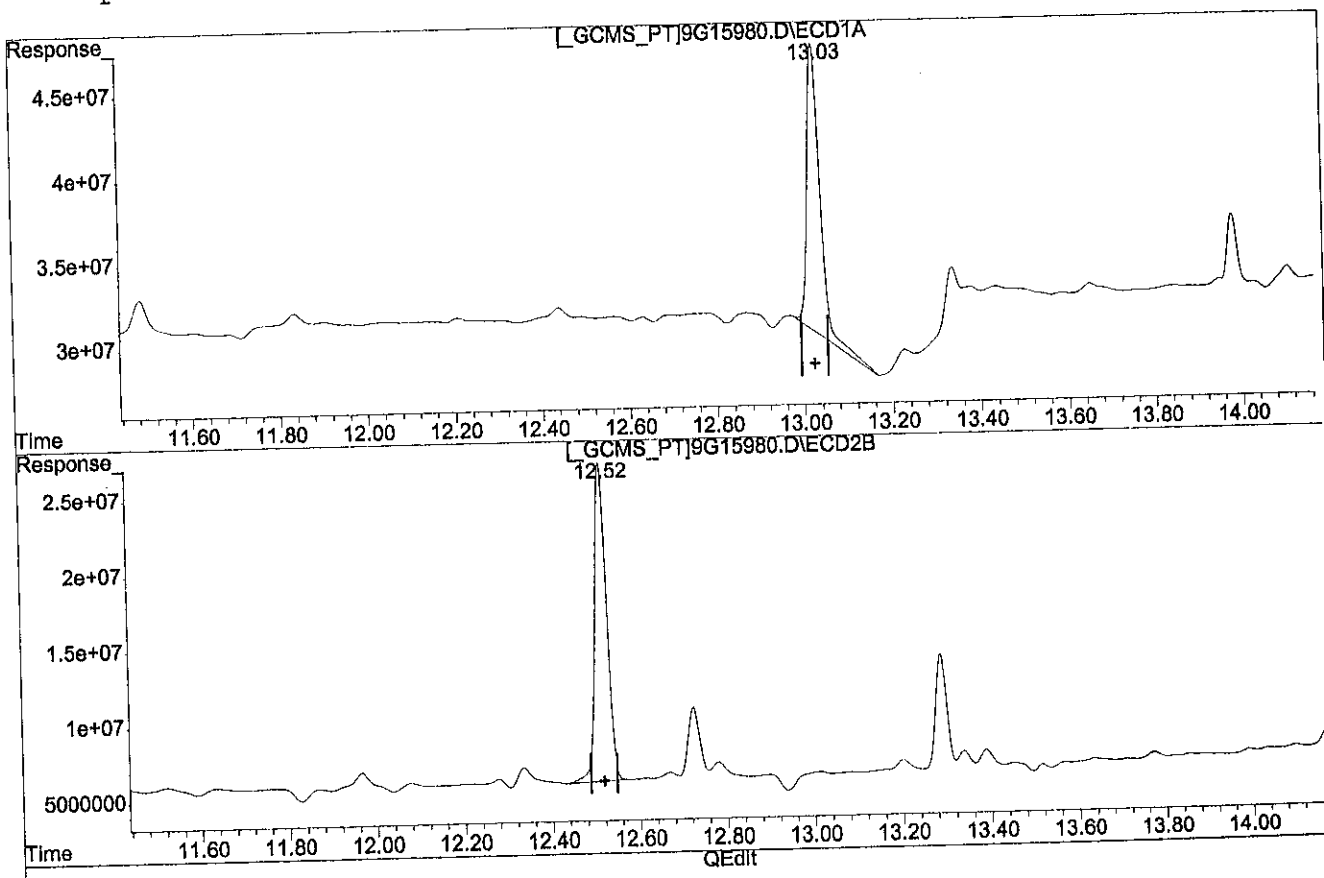
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD1A.CH Vial: 18
Acq On : 24 May 2001 18:25 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15980.D\ECD2B.CH Vial: 18
Acq On : 24 May 2001 18:49 Operator: ECL
Sample : WG97754-01 L0105404-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:48 2001 Quant Results File: 8081.RES

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration



(17) 4,4'-DDT
13.03min 2.232UG/L
response 348008335

(17) 4,4'-DDT #2
12.52min 2.209UG/L
response 396272792

(+) = Expected Retention Time
9G15980.D 8081.M Fri May 25 09:16:59 2001

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Data File : C:\HPCHEM\1\DATA\052401\9G15981.D\ECD1A.CH Vial: 19
Acq On : 24 May 2001 18:49 Operator: ECL
Sample : WG97754-04 L0105404-03 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15981.D\ECD2B.CH Vial: 19
Acq On : 24 May 2001 19:14 Operator: ECL
Sample : WG97754-04 L0105404-03 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:48 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1127.4E6	1668.2E6	15.893	15.966
	Spiked Amount 20.000	Range 13 - 154		Recovery =		79.47%	79.83%
22)	S Decachlorobiphen	15.15	14.79	759.3E6	871.4E6	18.542	17.525
	Spiked Amount 20.000	Range 25 - 140		Recovery =		92.71%	87.63%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4308.3E6	6366.3E6	14.890	14.695
3)	gamma-BHC	9.15	8.38	3983.0E6	5549.5E6	15.266	14.763
4)	beta-BHC	9.32	8.54	1742.3E6	2378.9E6	15.161	14.531
5)	Heptachlor	9.93	9.08	3662.4E6	4889.0E6	15.497	15.232
6)	delta-BHC	9.61	9.01	3699.6E6	5365.6E6	14.775	15.188
7)	Aldrin	10.40	9.58	3155.8E6	4231.1E6	14.340	14.148
8)	Heptachlor Epoxi	11.33	10.47	3207.4E6	3912.4E6	16.022	15.327
9)	gamma-Chlordane	11.51	10.75	3316.4E6	4088.5E6	16.572	15.686
10)	alpha-Chlordane	11.71	10.97	2905.3E6	3832.6E6	16.452	15.594
11)	Endosulfan I	11.90	11.04	2410.8E6	2882.1E6	13.163	12.285
12)	4,4'-DDE	11.83	11.24	3516.0E6	4408.8E6	19.635	18.390
13)	Dieldrin	12.25	11.45	3302.0E6	3901.0E6	17.629	15.857
14)	Endrin	12.57	11.89	2944.8E6	3132.1E6	17.361	16.235
15)	4,4'-DDD	12.67	12.08	2602.0E6	3121.3E6	17.911	16.781
16)	Endosulfan II	12.87	12.20	1896.0E6	2251.6E6	11.577	11.191
17)	4,4'-DDT	13.03	12.52	7481.6E6	8936.2E6	47.976	49.812
18)	Endrin Aldehyde	13.38	12.67	1526.3E6	1289.6E6	11.412	8.604
19)	Endosulfan Sulfa	13.87	13.02	1475.6E6	1566.2E6	12.928	10.598
20)	Methoxychlor	13.60	13.37	1467.2E6	1371.0E6	21.645	16.900
21)	Endrin Ketone	14.17	13.62	1727.3E6	2057.2E6	11.792	11.433

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15981.D 8081.M Fri May 25 09:10:21 2001 Page 1

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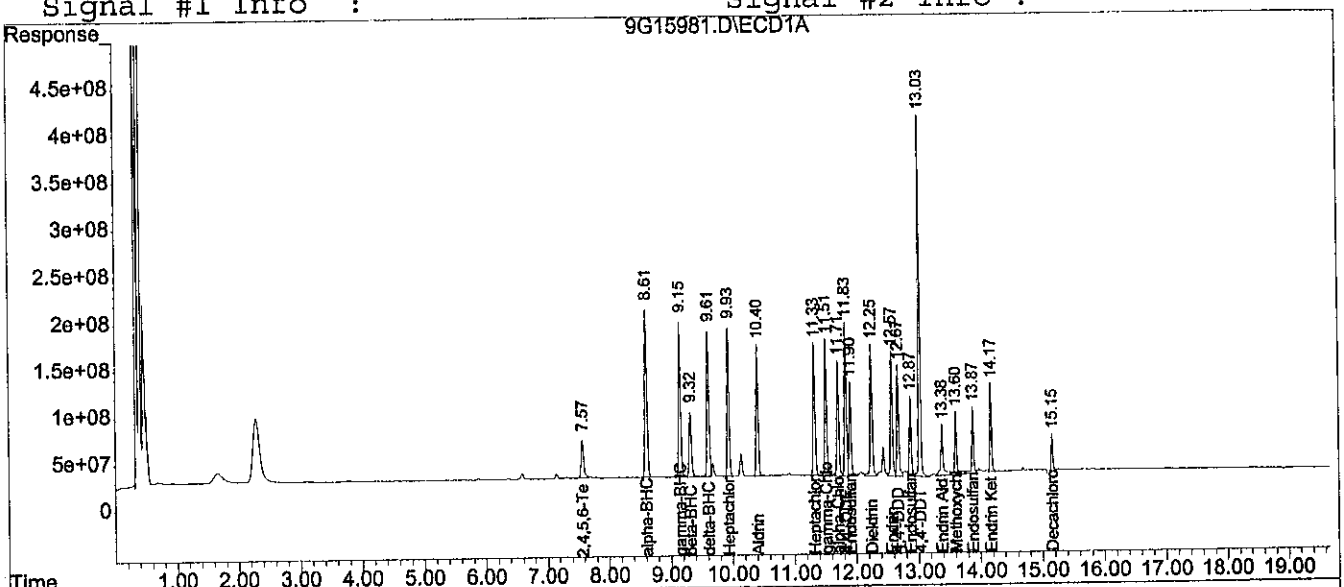
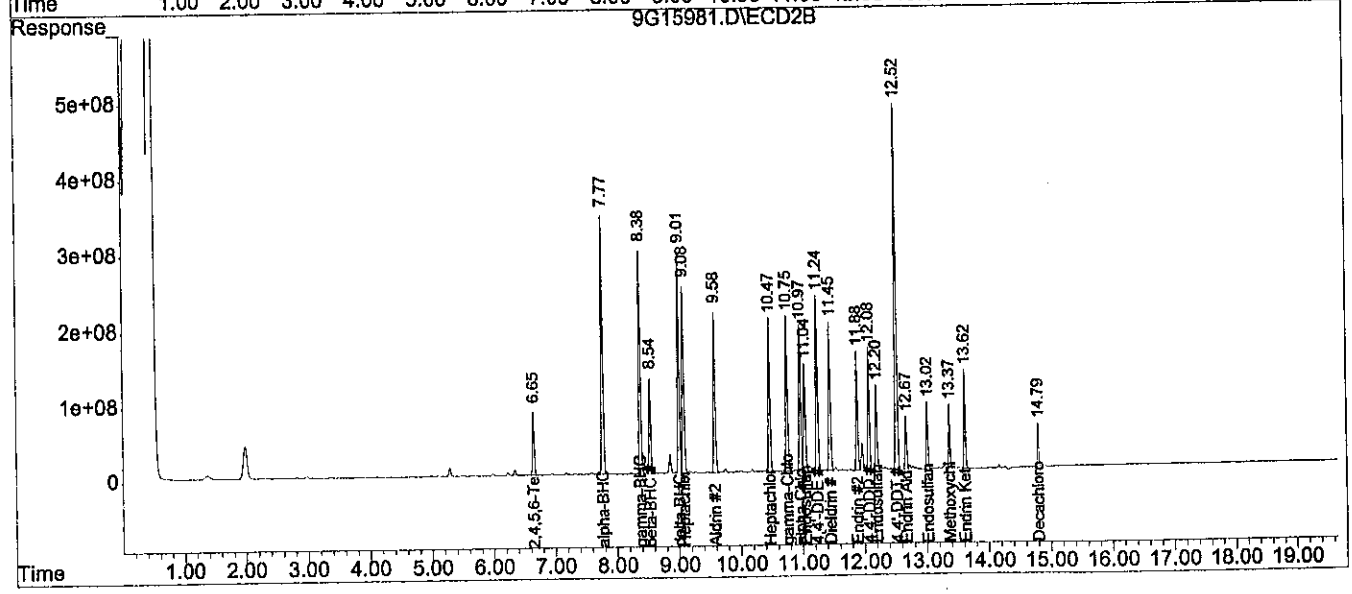
Data File : C:\HPCHEM\1\DATA\052401\9G15981.D\ECD1A.CH Vial: 19
Acq On : 24 May 2001 18:49 Operator: ECL
Sample : WG97754-04 L0105404-03 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15981.D\ECD2B.CH Vial: 19
Acq On : 24 May 2001 19:14 Operator: ECL
Sample : WG97754-04 L0105404-03 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:48 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\052401\9G15982.D\ECD1A.CH Vial: 20
Acq On : 24 May 2001 19:14 Operator: ECL
Sample : WG97754-05 L0105404-04 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15982.D\ECD2B.CH Vial: 20
Acq On : 24 May 2001 19:38 Operator: ECL
Sample : WG97754-05 L0105404-04 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:49 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
System Monitoring Compounds							
1) S 2,4,5,6-Tetrachl	7.57	6.64	1186.2E6	1850.8E6	16.723	17.714	
Spiked Amount 20.000	Range 13 - 154		Recovery =		83.61%	88.57%	
22) S Decachlorobiphen	15.16	14.79	738.2E6	913.2E6	18.026	18.368	
Spiked Amount 20.000	Range 25 - 140		Recovery =		90.13%	91.84%	
Target Compounds							
2) alpha-BHC	8.61	7.77	4565.2E6	7059.9E6	15.777	16.295	
3) gamma-BHC	9.15	8.37	4244.4E6	6128.4E6	16.268	16.303	
4) beta-BHC	9.32	8.53	1862.9E6	2641.9E6	16.209	16.137	
5) Heptachlor	9.93	9.08	3916.2E6	5442.4E6	16.571	16.956	
6) delta-BHC	9.61	9.00	3866.6E6	5843.4E6	15.441	16.540	
7) Aldrin	10.41	9.58	3192.1E6	4440.9E6	14.506	14.849	
8) Heptachlor Epoxi	11.33	10.46	3361.0E6	4295.3E6	16.789	16.827	
9) gamma-Chlordane	11.52	10.74	3385.8E6	4447.3E6	16.919	17.063	
10) alpha-Chlordane	11.71	10.96	2888.8E6	4183.8E6	16.359	17.023	
11) Endosulfan I	11.90	11.04	2377.9E6	3151.7E6	12.983	13.434	
12) 4,4'-DDE	11.83	11.23	3163.7E6	4208.8E6	17.668	17.556	
13) Dieldrin	12.25	11.44	3222.8E6	4261.5E6	17.206	17.322	
14) Endrin	12.57	11.88	2958.5E6	3466.5E6	17.441	17.968	
15) 4,4'-DDD	12.67	12.07	2642.2E6	3315.9E6	18.187	17.827	
16) Endosulfan II	12.87	12.19	1763.1E6	2216.3E6	10.765	11.015	
17) 4,4'-DDT	13.03	12.51	2831.8E6	3269.2E6	18.159	18.223	
18) Endrin Aldehyde	13.38	12.66	1355.4E6	1115.3E6	10.134	7.441	#
19) Endosulfan Sulfa	13.88	13.01	1281.7E6	1400.2E6	11.230	9.475	
20) Methoxychlor	13.60	13.37	1532.5E6	1591.2E6	22.609	19.615	
21) Endrin Ketone	14.17	13.61	1564.5E6	1971.1E6	10.681	10.954	

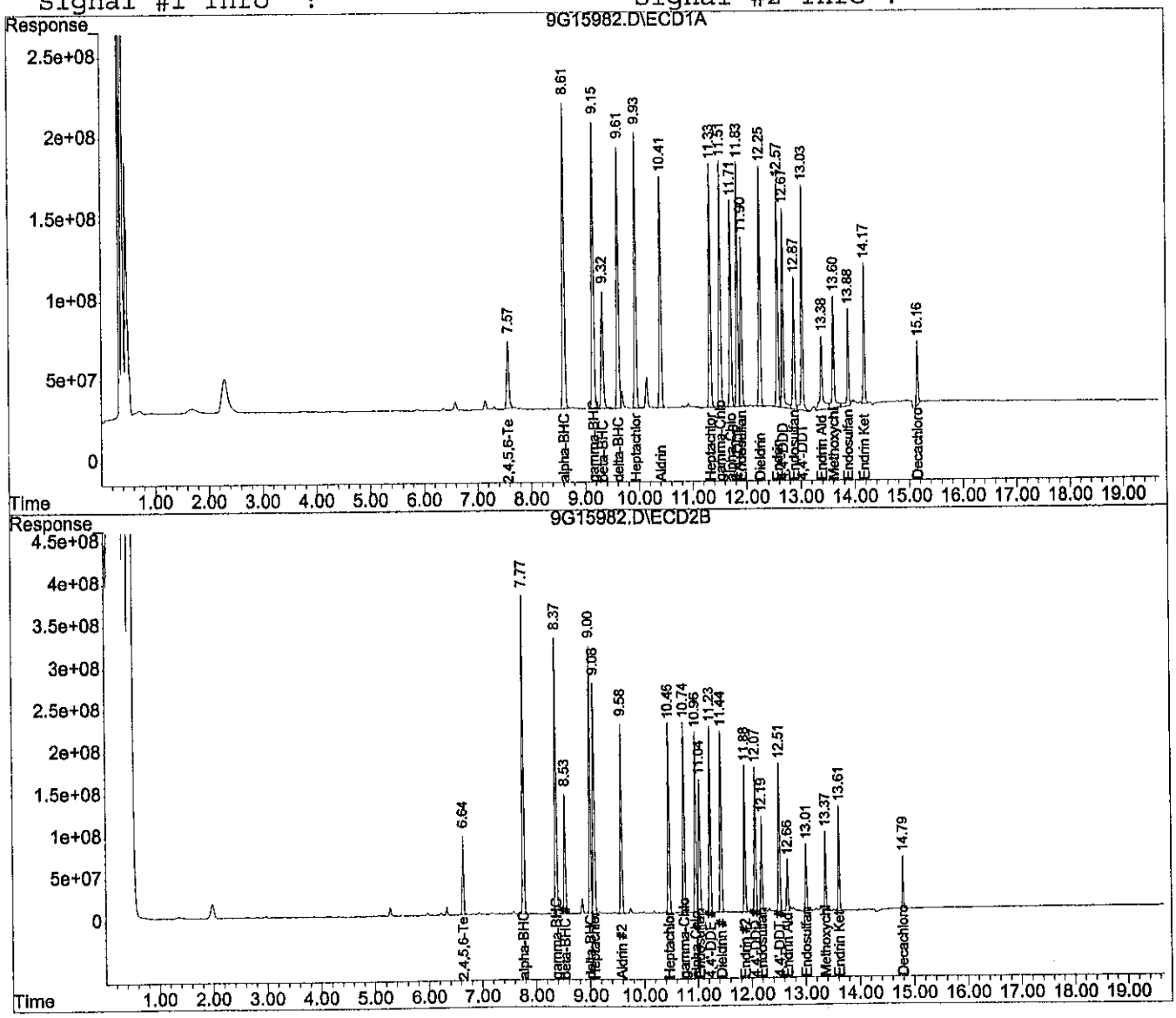
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15982.D 8081.M Fri May 25 09:10:30 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15982.D\ECD1A.CH Vial: 20
Acq On : 24 May 2001 19:14 Operator: ECL
Sample : WG97754-05 L0105404-04 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15982.D\ECD2B.CH Vial: 20
Acq On : 24 May 2001 19:38 Operator: ECL
Sample : WG97754-05 L0105404-04 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:49 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15983.D\ECD1A.CH Vial: 21
Acq On : 24 May 2001 19:38 Operator: ECL
Sample : L0105404-05 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15983.D\ECD2B.CH Vial: 21
Acq On : 24 May 2001 20:02 Operator: ECL
Sample : L0105404-05 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:49 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1114.7E6	1589.7E6	15.715	15.215
	Spiked Amount 20.000	Range 13 - 154		Recovery =		78.57%	76.08%
22)	S Decachlorobiphen	15.15	14.79	705.0E6	868.6E6	17.215	17.471
	Spiked Amount 20.000	Range 25 - 140		Recovery =		86.08%	87.36%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

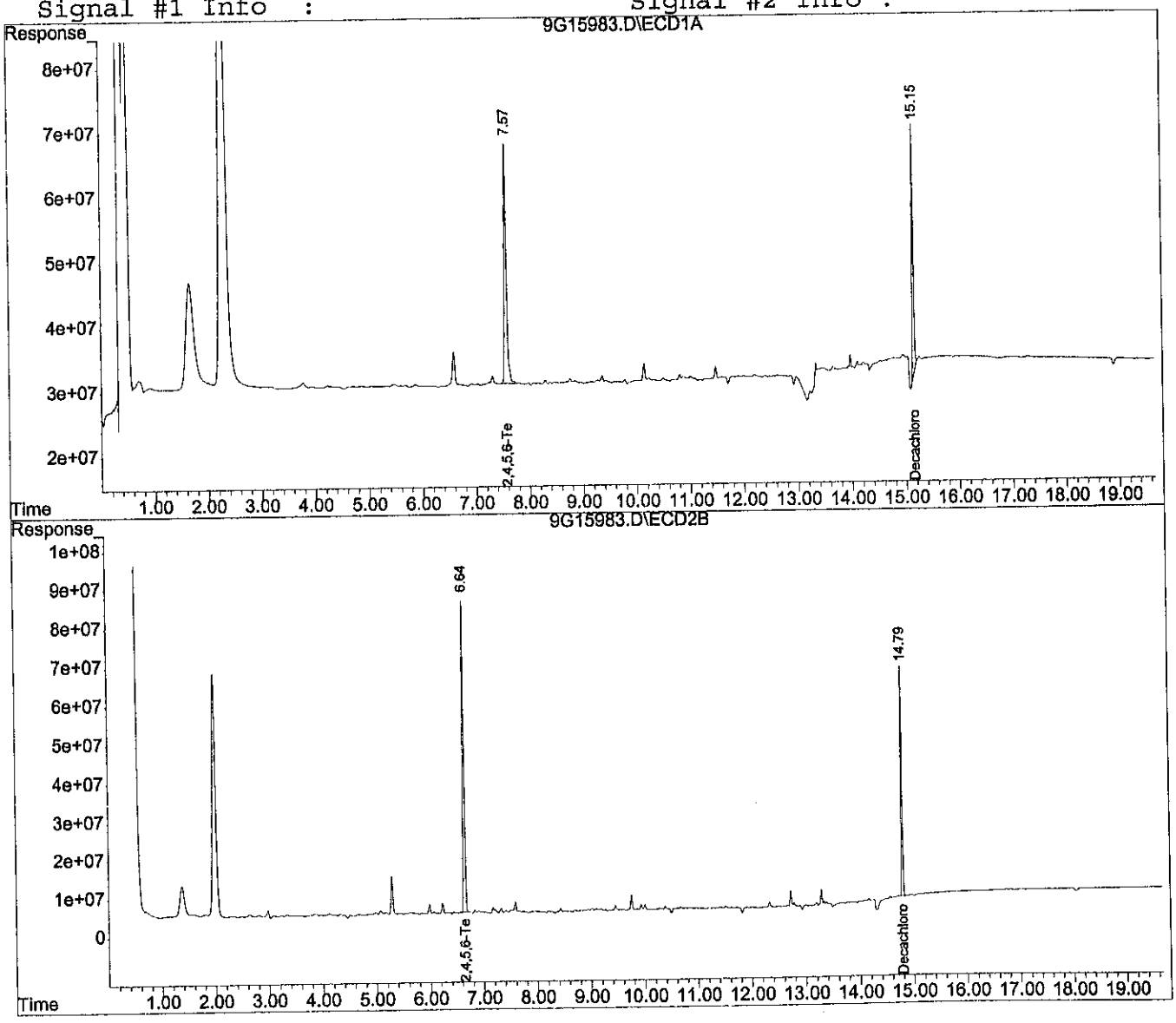
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int...
9G15983.D 8081.M Fri May 25 09:10:39 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15983.D\ECD1A.CH Vial: 21
Acq On : 24 May 2001 19:38 Operator: ECL
Sample : L0105404-05 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15983.D\ECD2B.CH Vial: 21
Acq On : 24 May 2001 20:02 Operator: ECL
Sample : L0105404-05 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:49 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15984.D\ECD1A.CH Vial: 22
Acq On : 24 May 2001 20:02 Operator: ECL
Sample : L0105404-06 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15984.D\ECD2B.CH Vial: 22
Acq On : 24 May 2001 20:26 Operator: ECL
Sample : L0105404-06 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:50 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1011.7E6	1423.6E6	14.262	13.626
	Spiked Amount 20.000	Range 13 - 154		Recovery =		71.31%	68.13%
22)	S Decachlorobiphen	15.15	14.79	638.3E6	741.0E6	15.588	14.904
	Spiked Amount 20.000	Range 25 - 140		Recovery =		77.94%	74.52%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15984.D 8081.M Fri May 25 09:10:47 2001 Page 1

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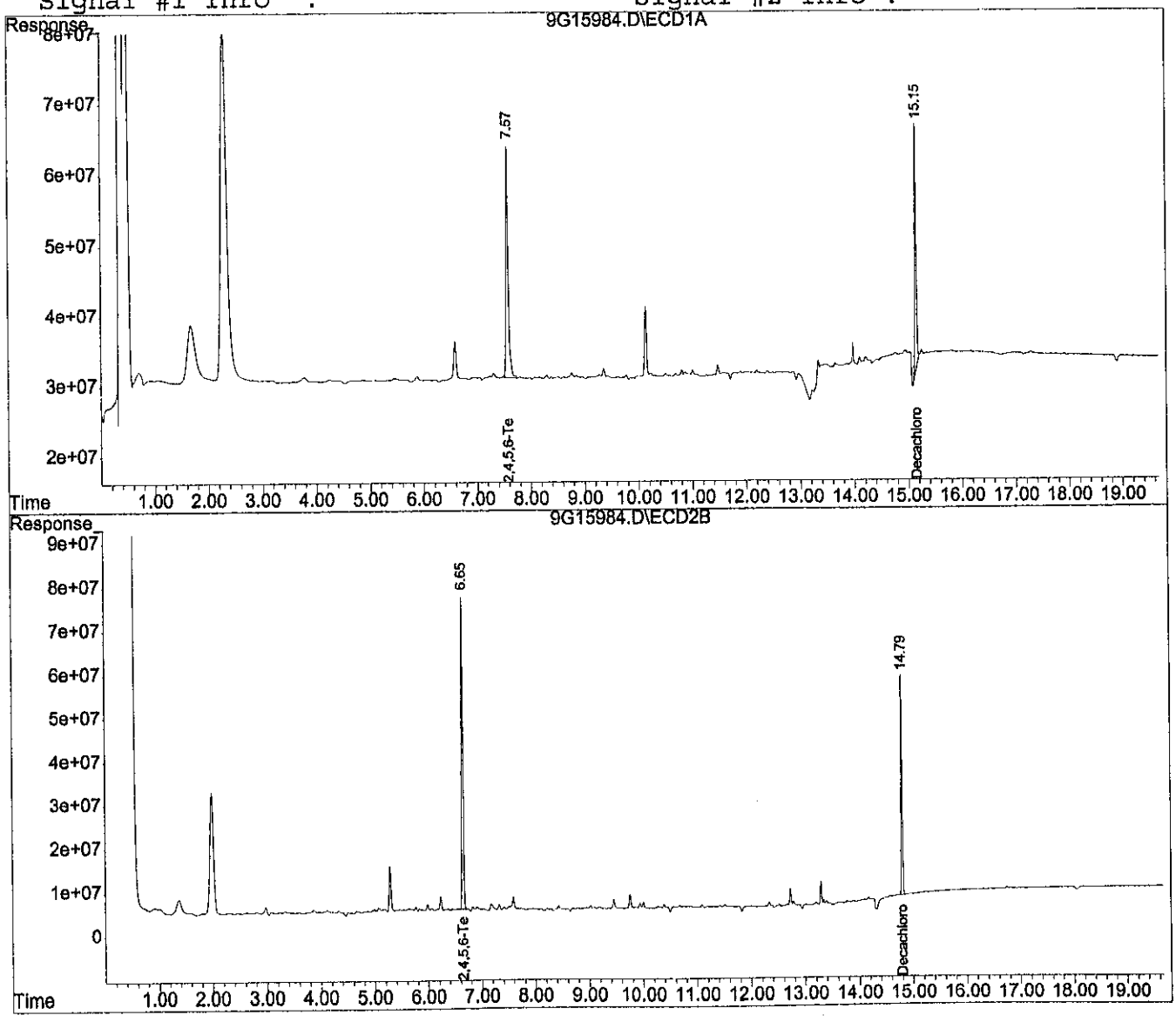
Data File : C:\HPCHEM\1\DATA\052401\9G15984.D\ECD1A.CH Vial: 22
Acq On : 24 May 2001 20:02 Operator: ECL
Sample : L0105404-06 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15984.D\ECD2B.CH Vial: 22
Acq On : 24 May 2001 20:26 Operator: ECL
Sample : L0105404-06 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:50 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15985.D\ECD1A.CH Vial: 23
Acq On : 24 May 2001 20:26 Operator: ECL
Sample : L0105404-07 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15985.D\ECD2B.CH Vial: 23
Acq On : 24 May 2001 20:50 Operator: ECL
Sample : L0105404-07 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:50 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	1035.1E6	1477.5E6	14.592	14.141
	Spiked Amount 20.000	Range 13 - 154		Recovery =		72.96%	70.70%
22)	S Decachlorobiphen	15.15	14.79	619.6E6	759.9E6	15.131	15.284
	Spiked Amount 20.000	Range 25 - 140		Recovery =		75.66%	76.42%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	12.52	0	38394285	N.D.	0.214 #
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15985.D 8081.M Fri May 25 09:10:54 2001 Page 1

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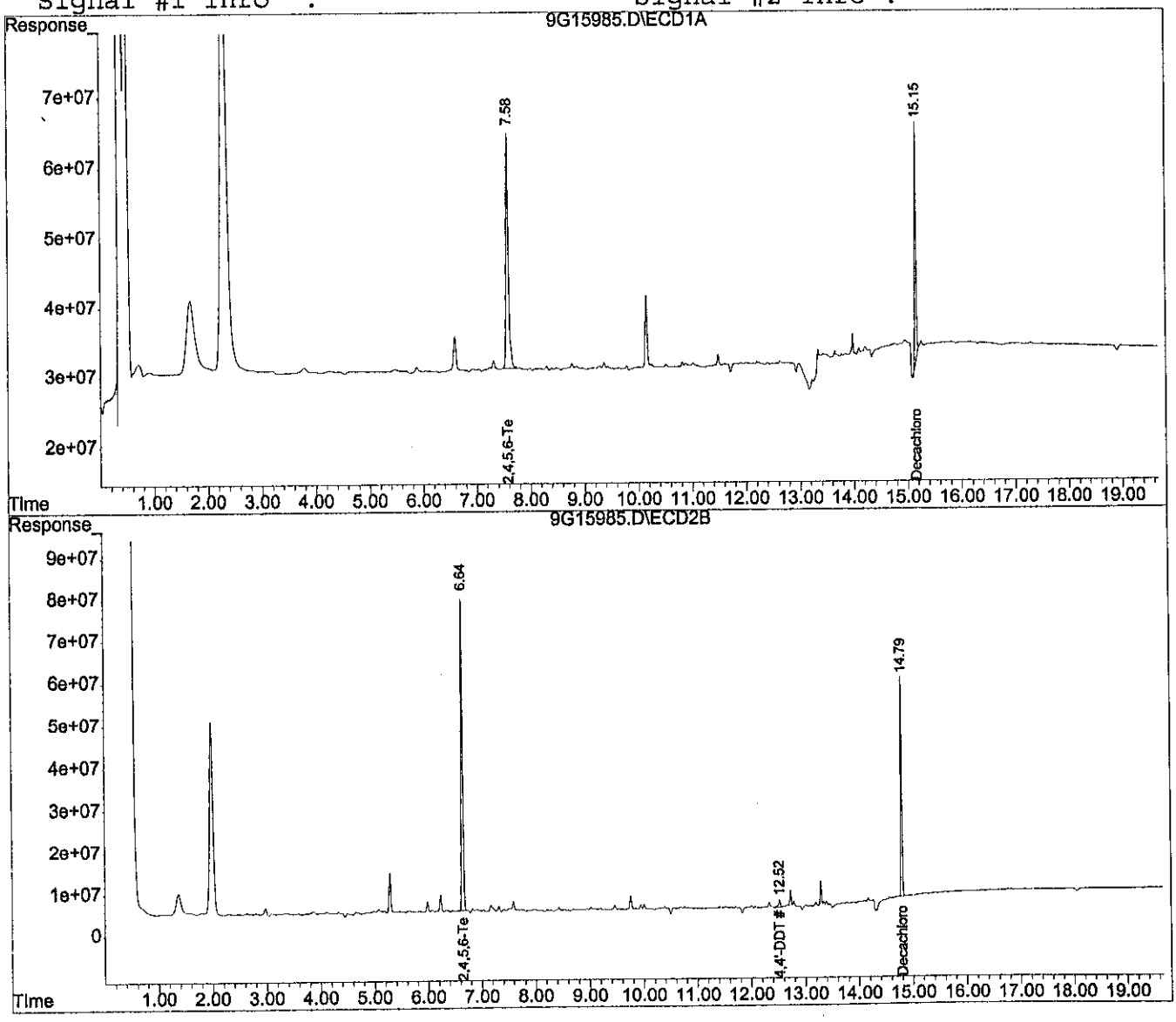
Data File : C:\HPCHEM\1\DATA\052401\9G15985.D\ECD1A.CH Vial: 23
Acq On : 24 May 2001 20:26 Operator: ECL
Sample : L0105404-07 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15985.D\ECD2B.CH Vial: 23
Acq On : 24 May 2001 20:50 Operator: ECL
Sample : L0105404-07 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:50 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD1A.CH Vial: 24
Acq On : 24 May 2001 20:50 Operator: ECL
Sample : L0105404-08 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD2B.CH Vial: 24
Acq On : 24 May 2001 21:14 Operator: ECL
Sample : L0105404-08 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:53 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S 2,4,5,6-Tetrachl	7.57	6.64	791.0E6	1174.7E6	11.150	11.243
Spiked Amount 20.000	Range 13 - 154		Recovery =		55.75%	56.22%
22) S Decachlorobiphen	15.16	14.80	671.8E6	897.1E6	16.406	18.043
Spiked Amount 20.000	Range 25 - 140		Recovery =		82.03%	90.22%
Target Compounds						
2) alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4) beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6) delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) Aldrin	0.00	0.00	0	0	N.D.	N.D.
8) Heptachlor Epoxi	0.00	10.47	0	127.7E6	N.D.	0.500 #
9) gamma-Chlordane	11.48f	0.00	56415128	0	0.282	N.D. #
10) alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12) 4,4'-DDE	0.00	11.24	0	89870741	N.D.	0.375 #
13) Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14) Endrin	0.00	0.00	0	0	N.D.	N.D.
15) 4,4'-DDD	12.67	12.08	554.2E6	784.2E6	3.815	4.216
16) Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17) 4,4'-DDT	0.00	12.52	0	50411832	N.D.	0.281 #
18) Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19) Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20) Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

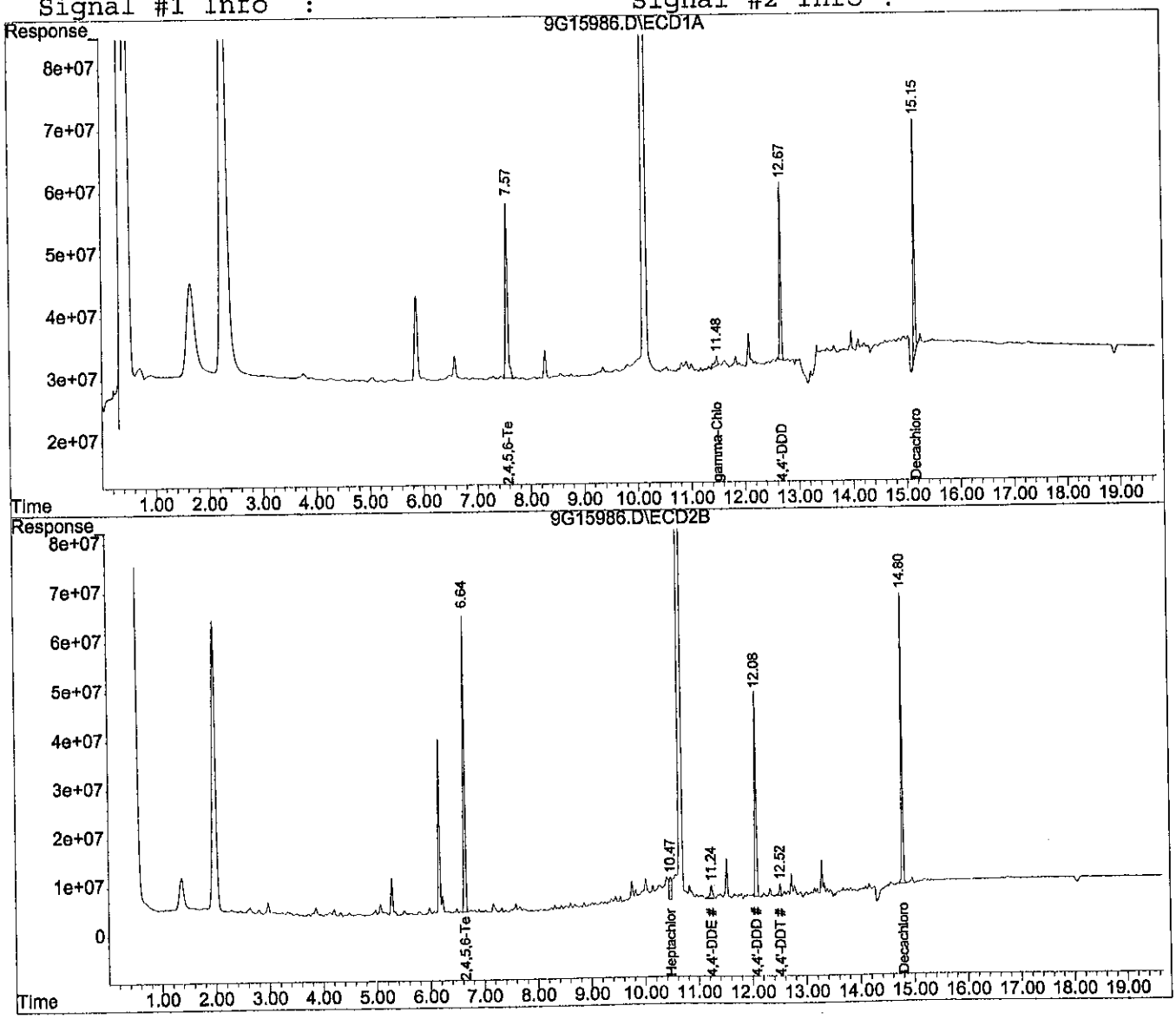
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD1A.CH Vial: 24
Acq On : 24 May 2001 20:50 Operator: ECL
Sample : L0105404-08 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD2B.CH Vial: 24
Acq On : 24 May 2001 21:14 Operator: ECL
Sample : L0105404-08 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:53 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



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Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD1A.CH   Vial: 24
Acq On    : 24 May 2001  20:50                          Operator: ECL
Sample    : L0105404-08                                 Inst    : HP9
Misc      : 7,1                                         Multiplr: 0.33
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15986.D\ECD2B.CH   Vial: 24
Acq On    : 24 May 2001  21:14                          Operator: ECL
Sample    : L0105404-08                                 Inst    : HP9
Misc      : 7,1                                         Multiplr: 0.33
IntFile   : autoint2.e
Quant Time: May 25  8:53 2001  Quant Results File: 8081.RES

Method        : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title         : CALIBRATION May 24, 2001
Last Update   : Fri May 25 07:56:29 2001
Response via  : Multiple Level Calibration
```
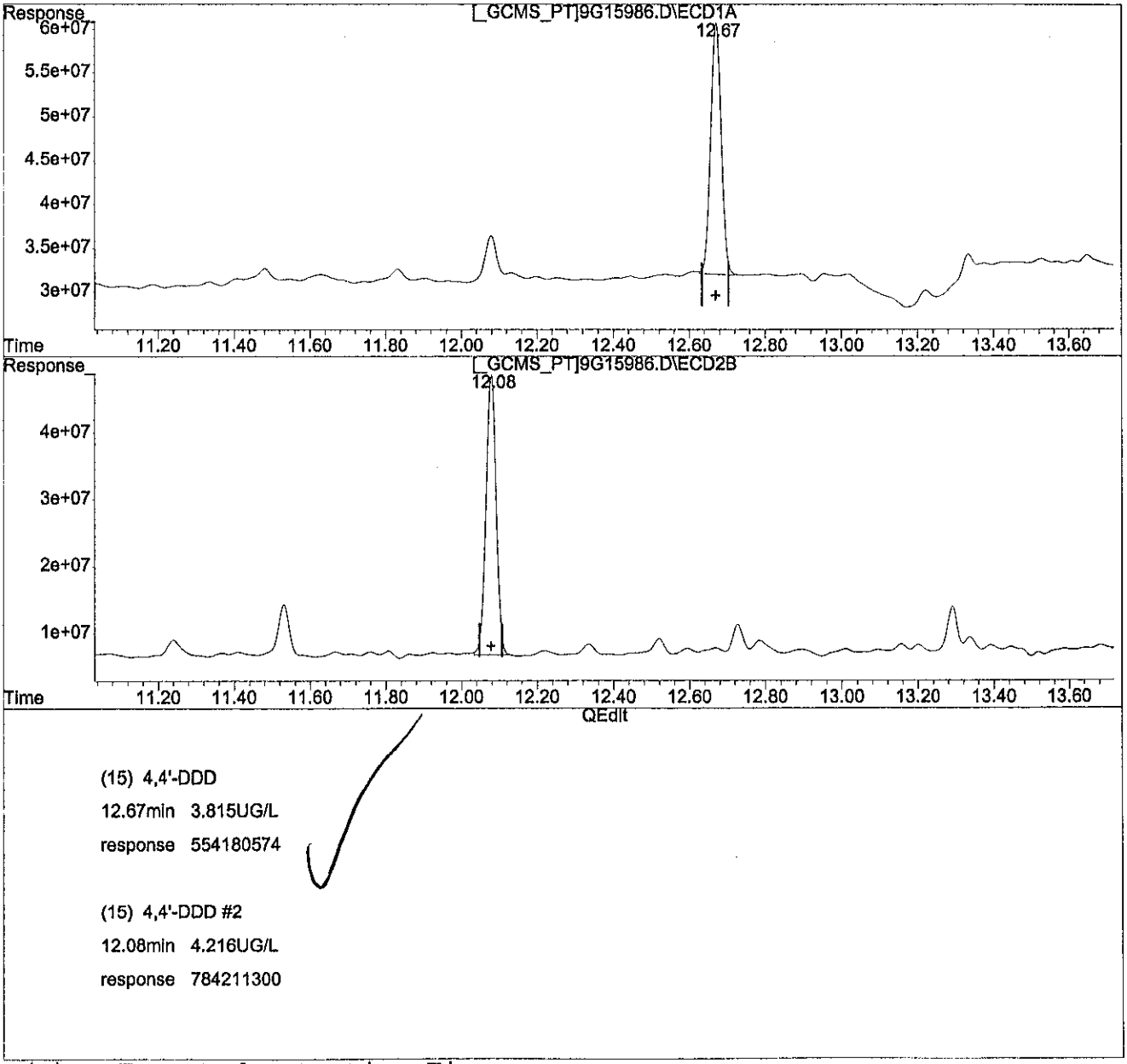



(+) = Expected Retention Time

9G15986.D 8081.M Fri May 25 09:18:22 2001

Data File : C:\HPCHEM\1\DATA\052401\9G15990.D\ECD1A.CH Vial: 28
Acq On : 24 May 2001 22:27 Operator: ECL
Sample : L0105404-09 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15990.D\ECD2B.CH Vial: 28
Acq On : 24 May 2001 22:51 Operator: ECL
Sample : L0105404-09 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:54 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	7.57	6.65	1077.3E6	1553.9E6	15.187	14.873
	Spiked Amount 20.000	Range 13 - 154		Recovery =		75.94%	74.36%
22) S	Decachlorobiphen	15.15	14.79	674.0E6	820.9E6	16.459	16.511
	Spiked Amount 20.000	Range 25 - 140		Recovery =		82.30%	82.56%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	12.52	0	69731237	N.D.	0.389 #
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

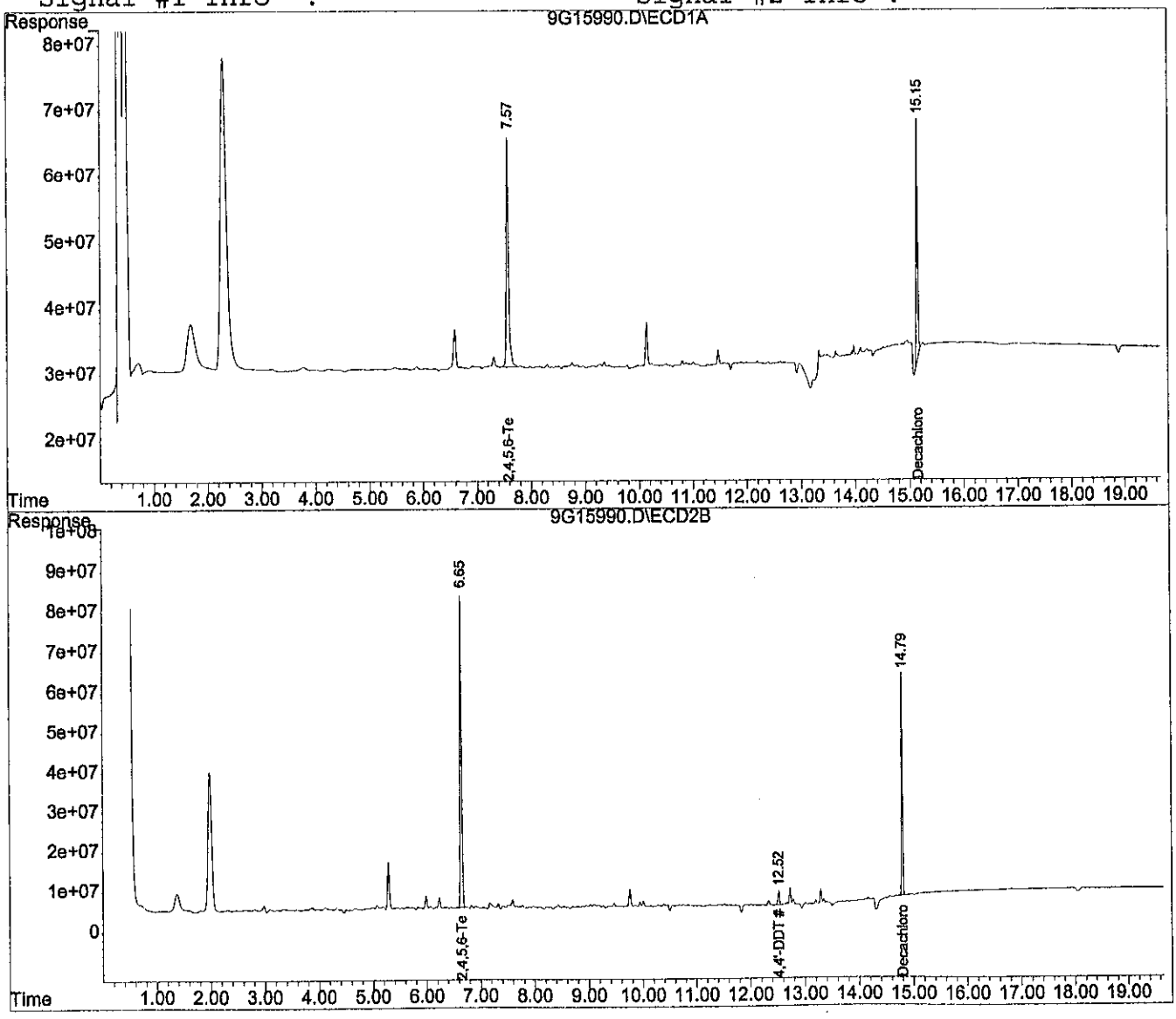
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15990.D\ECD1A.CH Vial: 28
Acq On : 24 May 2001 22:27 Operator: ECL
Sample : L0105404-09 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15990.D\ECD2B.CH Vial: 28
Acq On : 24 May 2001 22:51 Operator: ECL
Sample : L0105404-09 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:54 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15991.D\ECD1A.CH Vial: 29
Acq On : 24 May 2001 22:51 Operator: ECL
Sample : L0105404-10 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15991.D\ECD2B.CH Vial: 29
Acq On : 24 May 2001 23:15 Operator: ECL
Sample : L0105404-10 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:54 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	1172.2E6	1675.0E6	16.525	16.032
	Spiked Amount 20.000	Range 13 - 154		Recovery =		82.63%	80.16%
22)	S Decachlorobiphen	15.16	14.80	762.1E6	903.8E6	18.610	18.178
	Spiked Amount 20.000	Range 25 - 140		Recovery =		93.05%	90.89%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15991.D 8081.M Fri May 25 09:11:17 2001 Page 1

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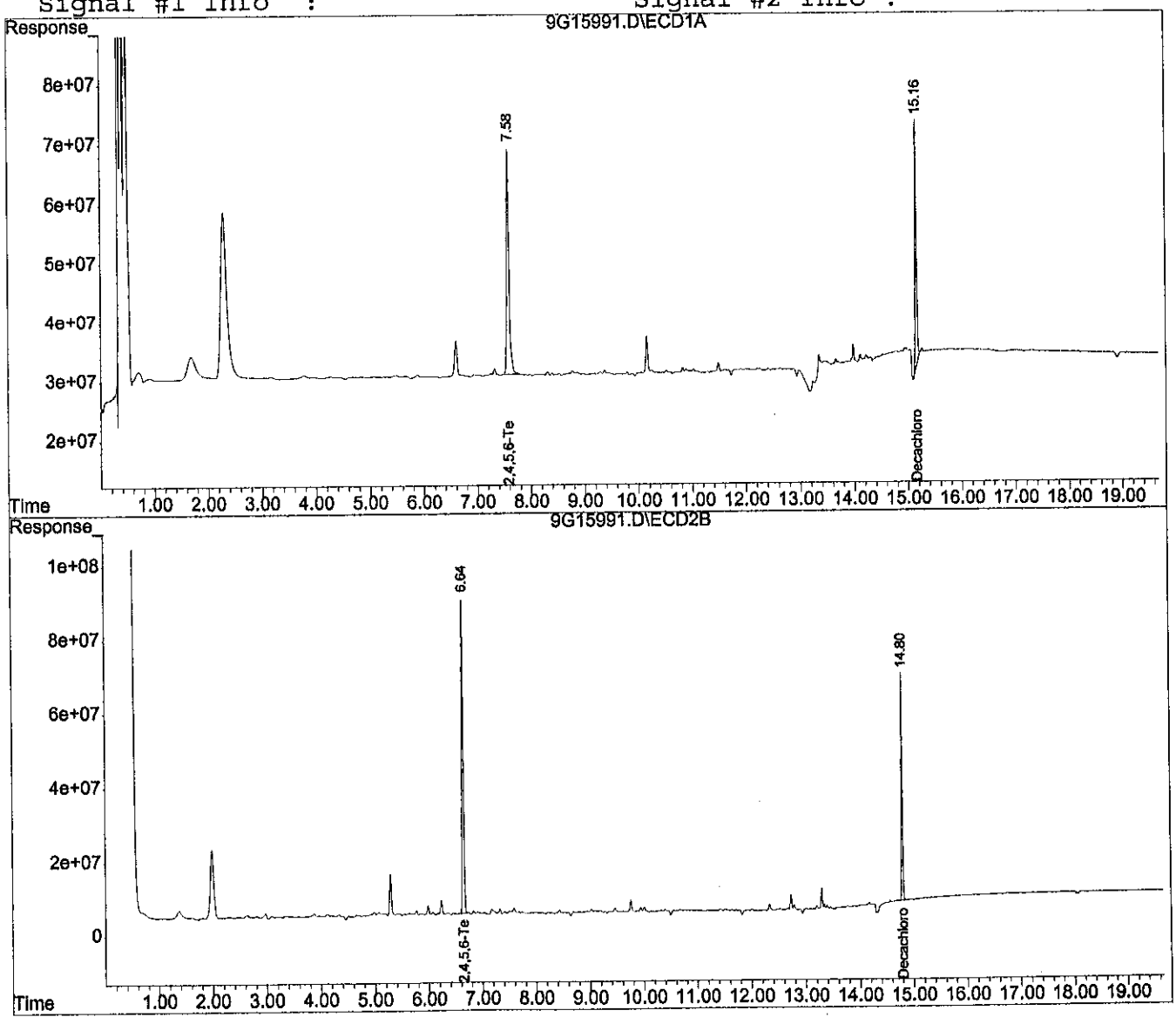
Data File : C:\HPCHEM\1\DATA\052401\9G15991.D\ECD1A.CH Vial: 29
Acq On : 24 May 2001 22:51 Operator: ECL
Sample : L0105404-10 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15991.D\ECD2B.CH Vial: 29
Acq On : 24 May 2001 23:15 Operator: ECL
Sample : L0105404-10 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:54 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15994.D\ECD1A.CH Vial: 32
Acq On : 25 May 2001 00:03 Operator: ECL
Sample : L0105404-11 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15994.D\ECD2B.CH Vial: 32
Acq On : 25 May 2001 00:28 Operator: ECL
Sample : L0105404-11 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
System Monitoring Compounds							
1) S 2,4,5,6-Tetrachl	7.57	6.64	942.2E6	1480.7E6	13.282	14.172	
Spiked Amount 20.000	Range 13 - 154			Recovery =	66.41%	70.86%	
22) S Decachlorobiphen	15.15	14.79	943.5E6	1163.5E6	23.041	23.401	
Spiked Amount 20.000	Range 25 - 140			Recovery =	115.21%	117.01%	
Target Compounds							
2) alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3) gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4) beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5) Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6) delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7) Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8) Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9) gamma-Chlordane	11.50	0.00	64459579	0	0.011	N.D.	#
10) alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11) Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12) 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13) Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14) Endrin	0.00	0.00	0	0	N.D.	N.D.	
15) 4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16) Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17) 4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18) Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19) Endosulfan Sulfa	0.00	13.02	0	52081660	N.D.	0.012	#
20) Methoxychlor	0.00	13.35f	0	124.0E6	N.D.	0.051	#
21) Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

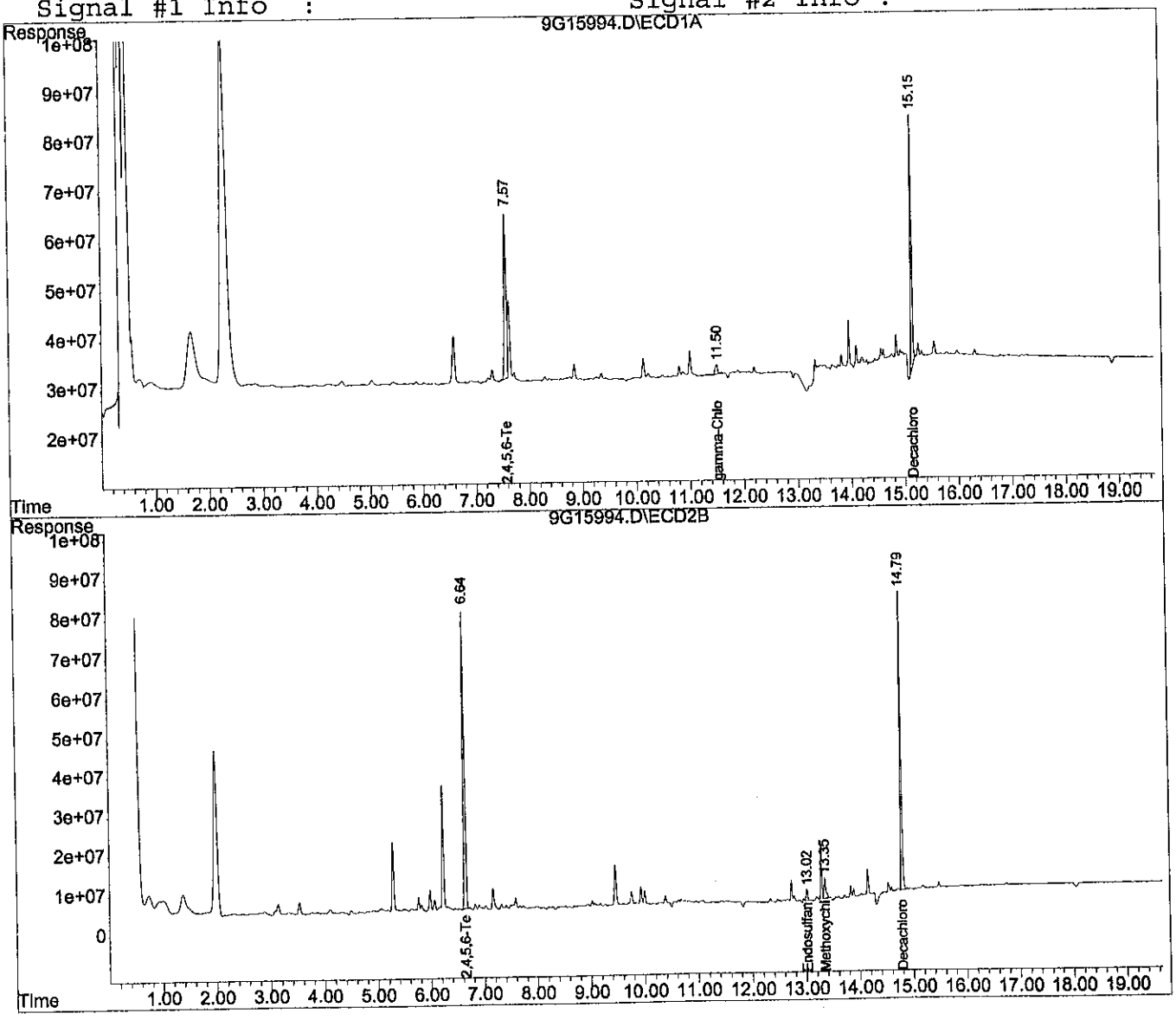
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15994.D\ECD1A.CH Vial: 32
Acq On : 25 May 2001 00:03 Operator: ECL
Sample : L0105404-11 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15994.D\ECD2B.CH Vial: 32
Acq On : 25 May 2001 00:28 Operator: ECL
Sample : L0105404-11 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



2.2.2.3 Standards Data

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001

Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1)	L1 TOXAPHENE-1	4.695	4.287	4.432	4.549	4.478	4.488	E5	3.34
2)	L1 TOXAPHENE-2	4.333	4.764	5.096	5.303	5.293	4.958	E5	8.31
3)	L1 TOXAPHENE-3	1.072	1.049	1.082	1.110	1.097	1.082	E6	2.16
4)	L1 TOXAPHENE-4	4.751	4.793	5.028	5.376	5.323	5.054	E5	5.74
5)	L1 TOXAPHENE-5	1.032	1.012	1.044	1.088	1.057	1.047	E6	2.70

Signal #2 Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1)	L1 TOXAPHENE-1	1.795	2.173	2.204	2.297	2.268	2.147	E6	9.45
2)	L1 TOXAPHENE-2	1.388	1.429	1.492	1.596	1.594	1.500	E6	6.31
3)	L1 TOXAPHENE-3	1.352	1.365	1.430	1.512	1.532	1.438	E6	5.71
4)	L1 TOXAPHENE-4	0.841	0.867	0.925	0.991	1.005	0.926	E6	7.84
5)	L1 TOXAPHENE-5	6.033	6.135	6.294	6.635	6.666	6.353	E5	4.53

(#) = Out of Range
TOX.M Thu May 24 11:43:01 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.32	895.5E6	4536.6E6	1995.371	2112.548
2) L1 TOXAPHENE-2	13.27	12.68	1058.7E6	3188.9E6	2135.231	2126.043
3) L1 TOXAPHENE-3	13.76	13.30	2194.9E6	3063.4E6	2028.056	2130.110
4) L1 TOXAPHENE-4	13.95	13.36	1064.5E6	2010.3E6	2106.243	2171.370
5) L1 TOXAPHENE-5	14.15	13.73	2114.5E6	1333.2E6	2020.310	2098.668
Sum TOXAPHENE-1			7328.2E6	14132.3E6	10285.211	10638.739
Average TOXAPHENE-1					2057.042	2127.748

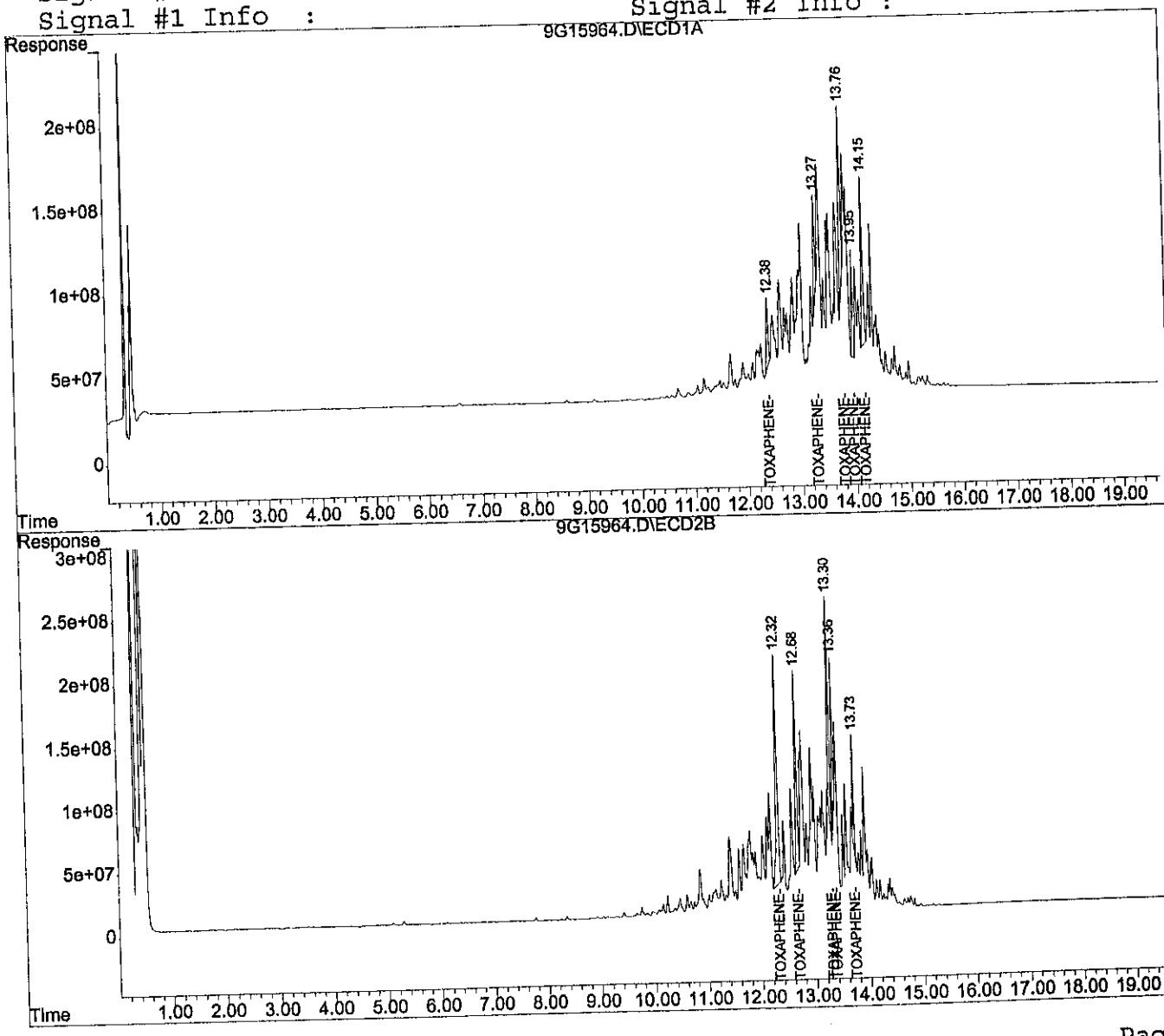
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.31	454.9E6	2296.7E6	1013.519	1069.486
2) L1 TOXAPHENE-2	13.28	12.67	530.3E6	1596.1E6	1069.649	1064.160
3) L1 TOXAPHENE-3	13.77	13.29	1110.3E6	1511.7E6	1025.850	1051.144
4) L1 TOXAPHENE-4	13.95	13.36	537.6E6	990.6E6	1063.680	1070.027
5) L1 TOXAPHENE-5	14.15	13.72	1087.7E6	663.5E6	1039.218	1044.413
Sum TOXAPHENE-1			3720.8E6	7058.6E6	5211.915	5299.231
Average TOXAPHENE-1					1042.383	1059.846

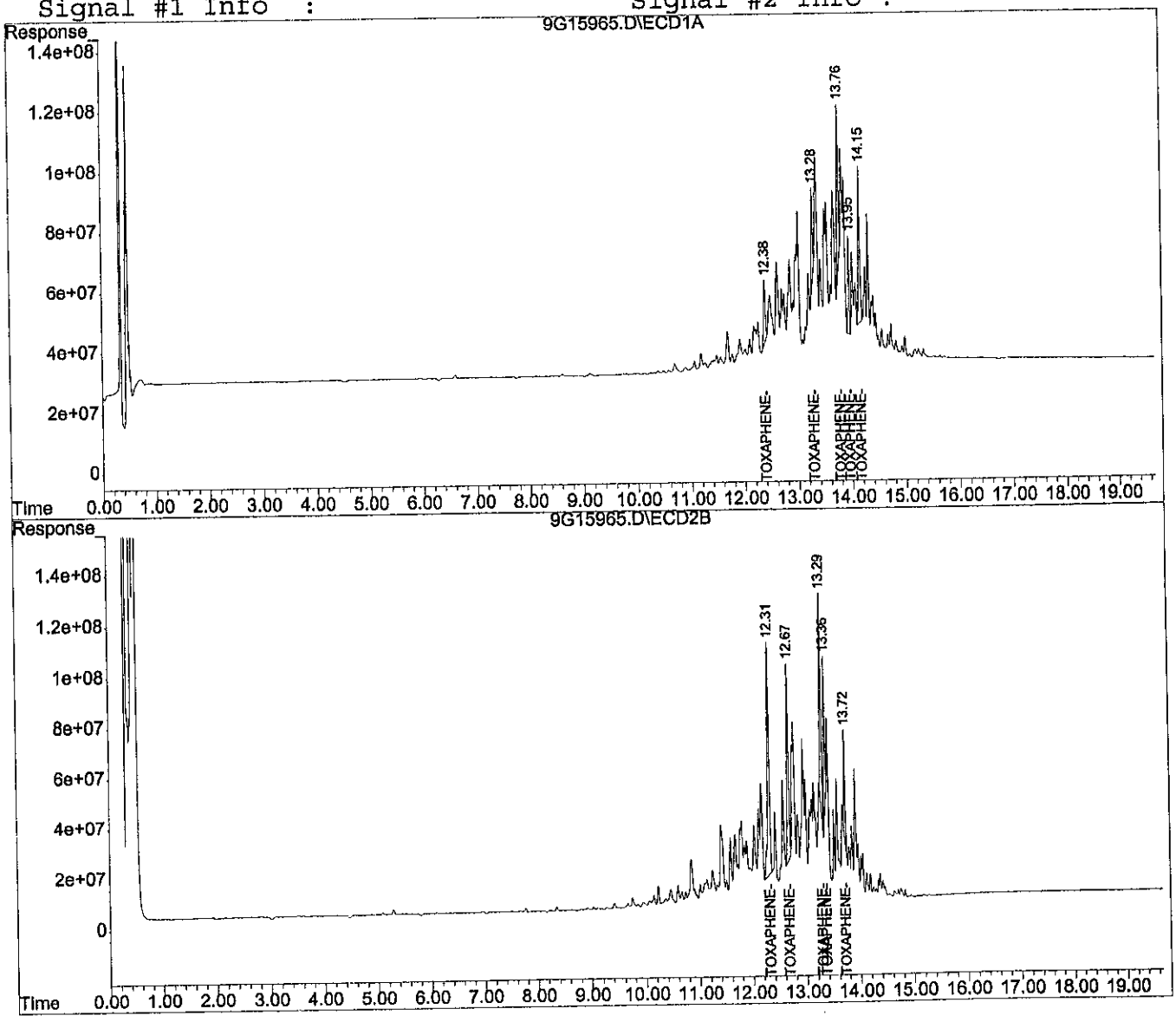
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.37	12.31	221.6E6	1102.2E6	493.741	513.266
2) L1 TOXAPHENE-2	13.27	12.67	254.8E6	746.1E6	513.939	497.410
3) L1 TOXAPHENE-3	13.76	13.29	541.1E6	715.1E6	499.957	497.241
4) L1 TOXAPHENE-4	13.94	13.36	251.4E6	462.5E6	497.460	499.548
5) L1 TOXAPHENE-5	14.15	13.72	521.9E6	314.7E6	498.660	495.400
Sum TOXAPHENE-1			1790.8E6	3340.6E6	2503.757	2502.865
Average TOXAPHENE-1					500.751	500.573

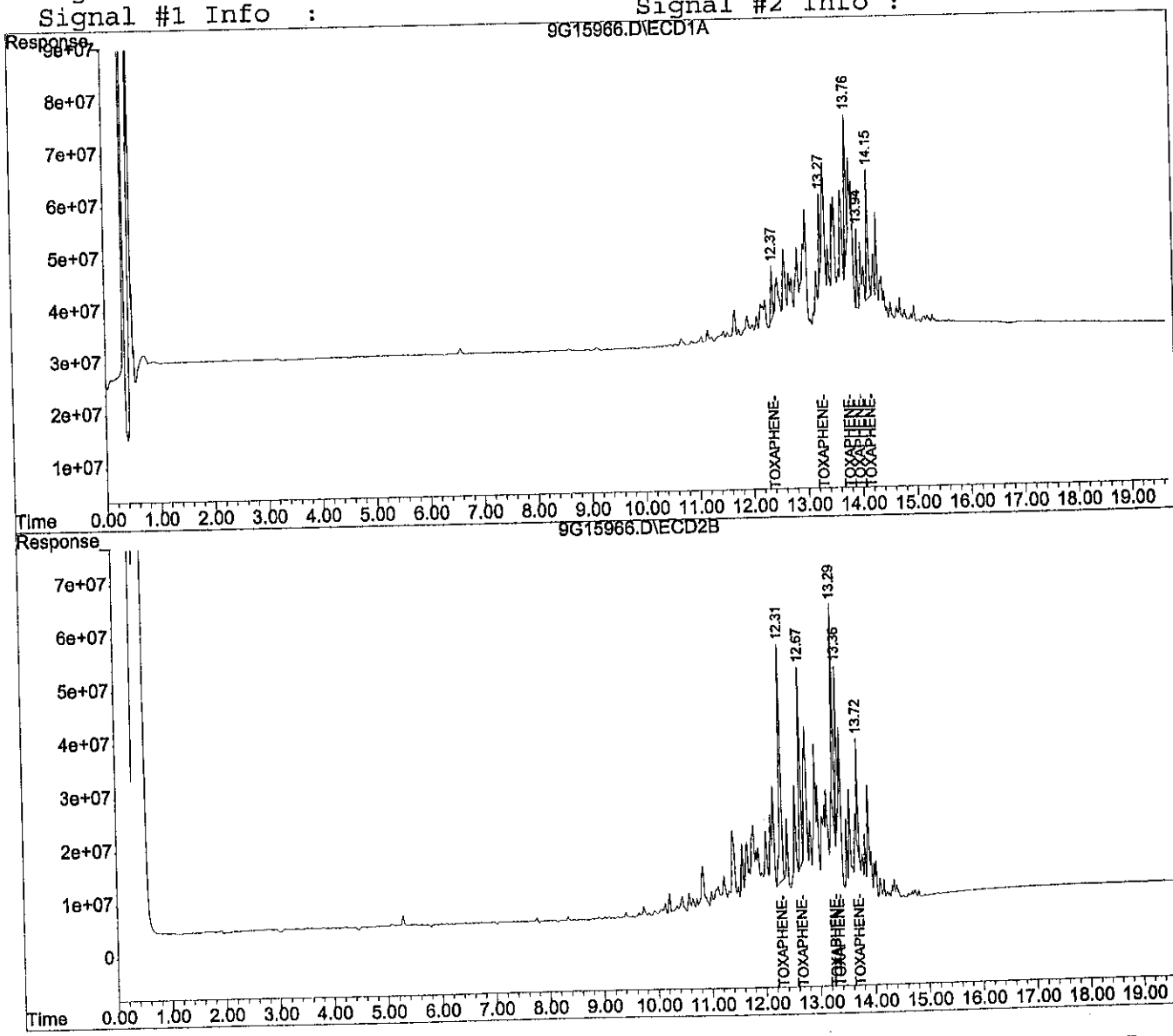
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH Vial: 5
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH Vial: 5
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.31	107.2E6	543.2E6	238.821	252.929
2) L1 TOXAPHENE-2	13.27	12.67	119.1E6	357.2E6	240.213	238.156
3) L1 TOXAPHENE-3	13.76	13.29	262.4E6	341.2E6	242.415	237.247
4) L1 TOXAPHENE-4	13.95	13.36	119.8E6	216.7E6	237.061	234.099
5) L1 TOXAPHENE-5	14.15	13.72	253.0E6	153.4E6	241.738	241.452
Sum TOXAPHENE-1			861.5E6	1611.7E6	1200.249	1203.883
Average TOXAPHENE-1					240.050	240.777

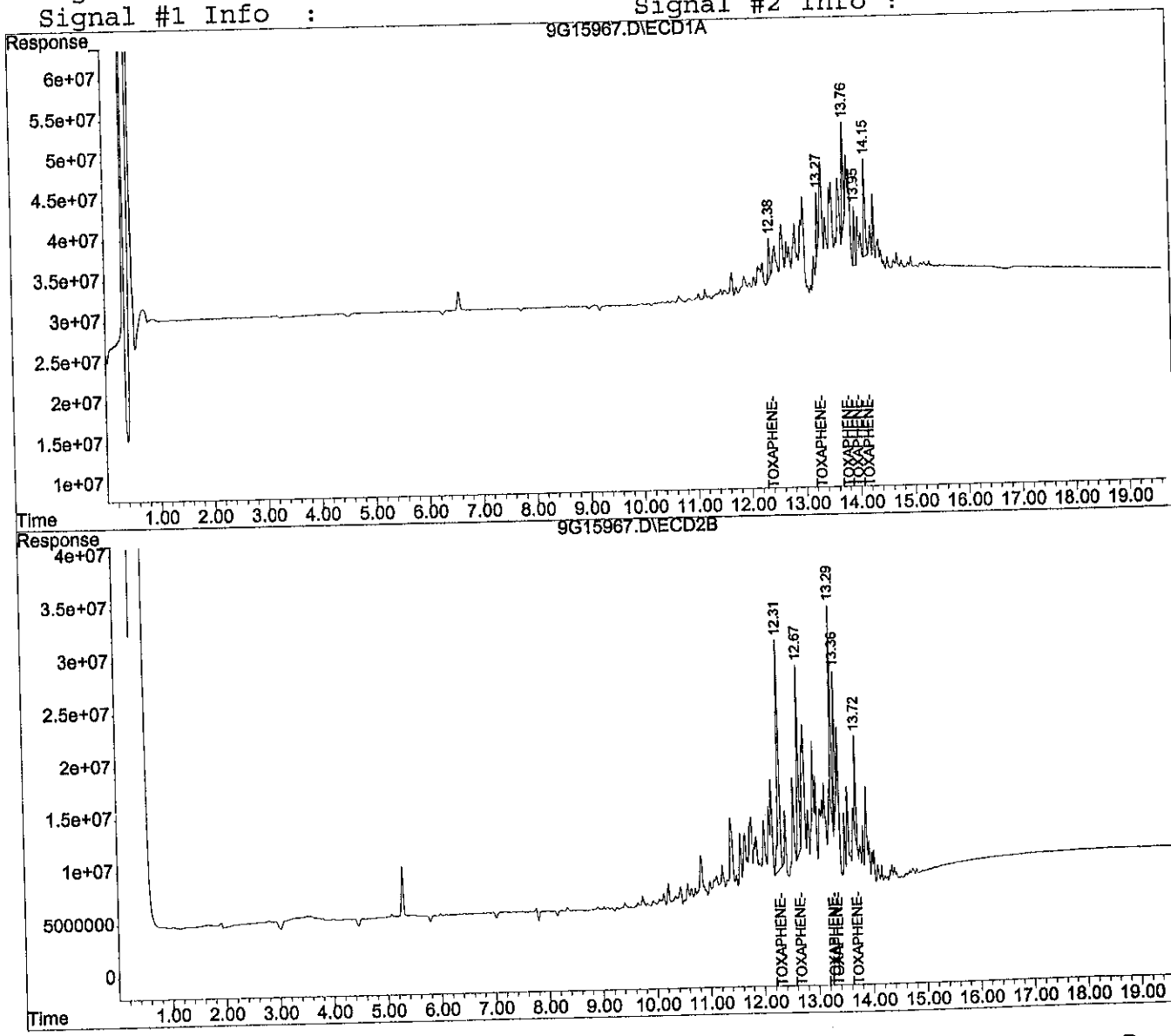
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15967.D TOX.M Thu May 24 11:44:06 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH Vial: 5
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH Vial: 5
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.32	46946000	179.5E6	104.603	83.599
2) L1 TOXAPHENE-2	13.28	12.68	43334629	138.8E6	87.401	92.538
3) L1 TOXAPHENE-3	13.76	13.30	107.2E6	135.2E6	99.055	94.033
4) L1 TOXAPHENE-4	13.95	13.36	47510811	84136865	94.003	90.879
5) L1 TOXAPHENE-5	14.15	13.72	103.2E6	60327541	98.635	94.965
Sum TOXAPHENE-1			348.2E6	598.0E6	483.697	456.014
Average TOXAPHENE-1					96.739	91.203

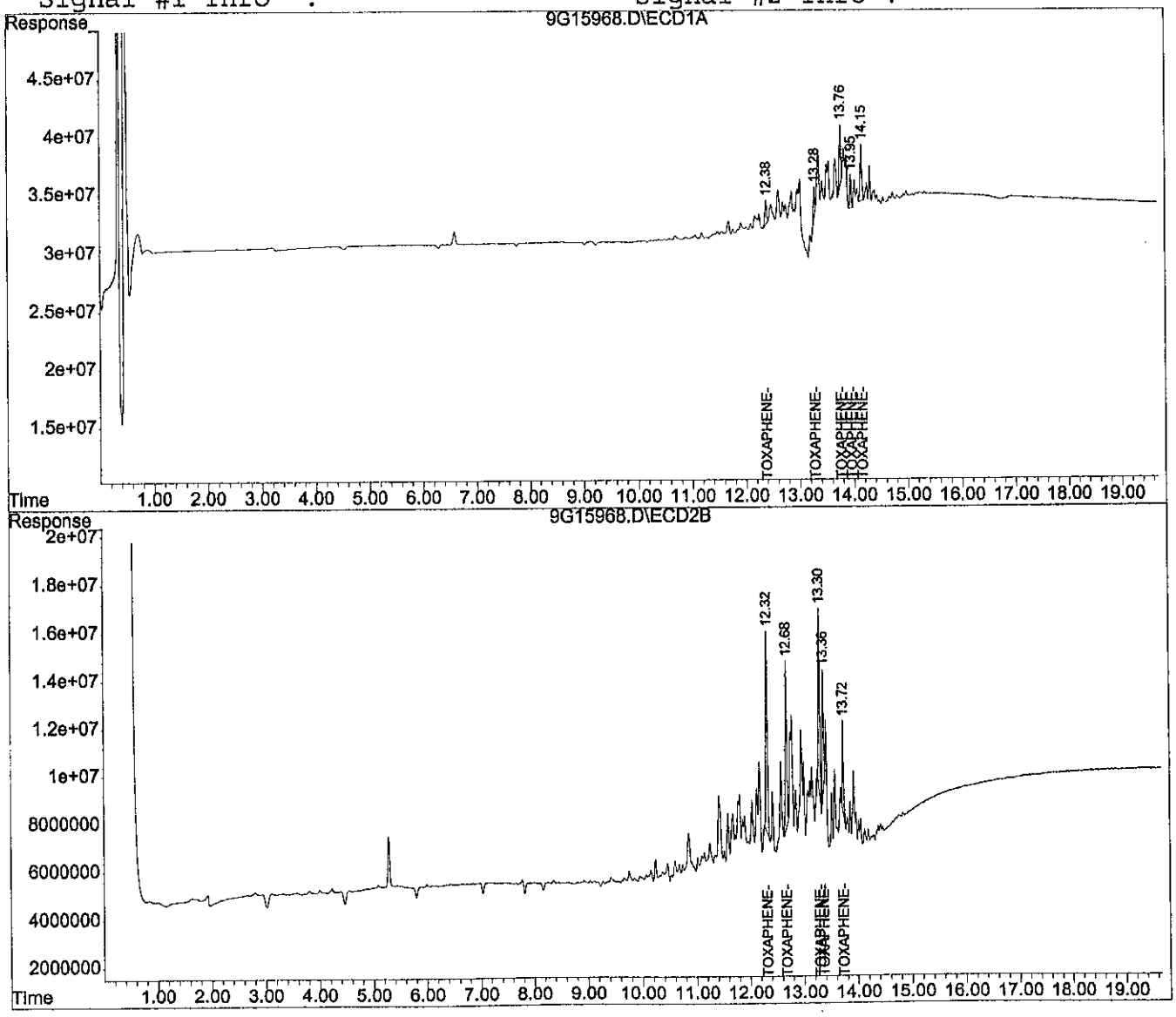
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15968.D TOX.M Thu May 24 11:44:18 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1 TOXAPHENE-1	500.000	432.312	13.5	88	0.00
2	L1 TOXAPHENE-2	500.000	486.131	2.8	95	0.00
3	L1 TOXAPHENE-3	500.000	466.891	6.6	93	0.00
4	L1 TOXAPHENE-4	500.000	459.907	8.0	92	0.00
5	L1 TOXAPHENE-5	500.000	461.160	7.8	92	0.00
	Signal #2					
1	L1 TOXAPHENE-1	500.000	474.335	5.1	92	0.00
2	L1 TOXAPHENE-2	500.000	493.052	1.4	99	0.00
3	L1 TOXAPHENE-3	500.000	470.569	5.9	95	0.00
4	L1 TOXAPHENE-4	500.000	470.005	6.0	94	0.00
5	L1 TOXAPHENE-5	500.000	456.811	8.6	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G15969.D TOX.M Fri May 25 08:09:03 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	194.0E6	1018.6E6	432.312	474.335
2)	L1 TOXAPHENE-2	13.28	12.68	241.0E6	739.5E6	486.131	493.052
3)	L1 TOXAPHENE-3	13.77	13.29	505.3E6	676.8E6	466.891	470.569
4)	L1 TOXAPHENE-4	13.95	13.36	232.4E6	435.1E6	459.907	470.005
5)	L1 TOXAPHENE-5	14.15	13.72	482.7E6	290.2E6	461.160	456.811
	Sum TOXAPHENE-1			1655.5E6	3160.2E6	2306.401	2364.773
Average	TOXAPHENE-1					461.280	472.955

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15969.D TOX.M Fri May 25 08:09:07 2001 Page 1

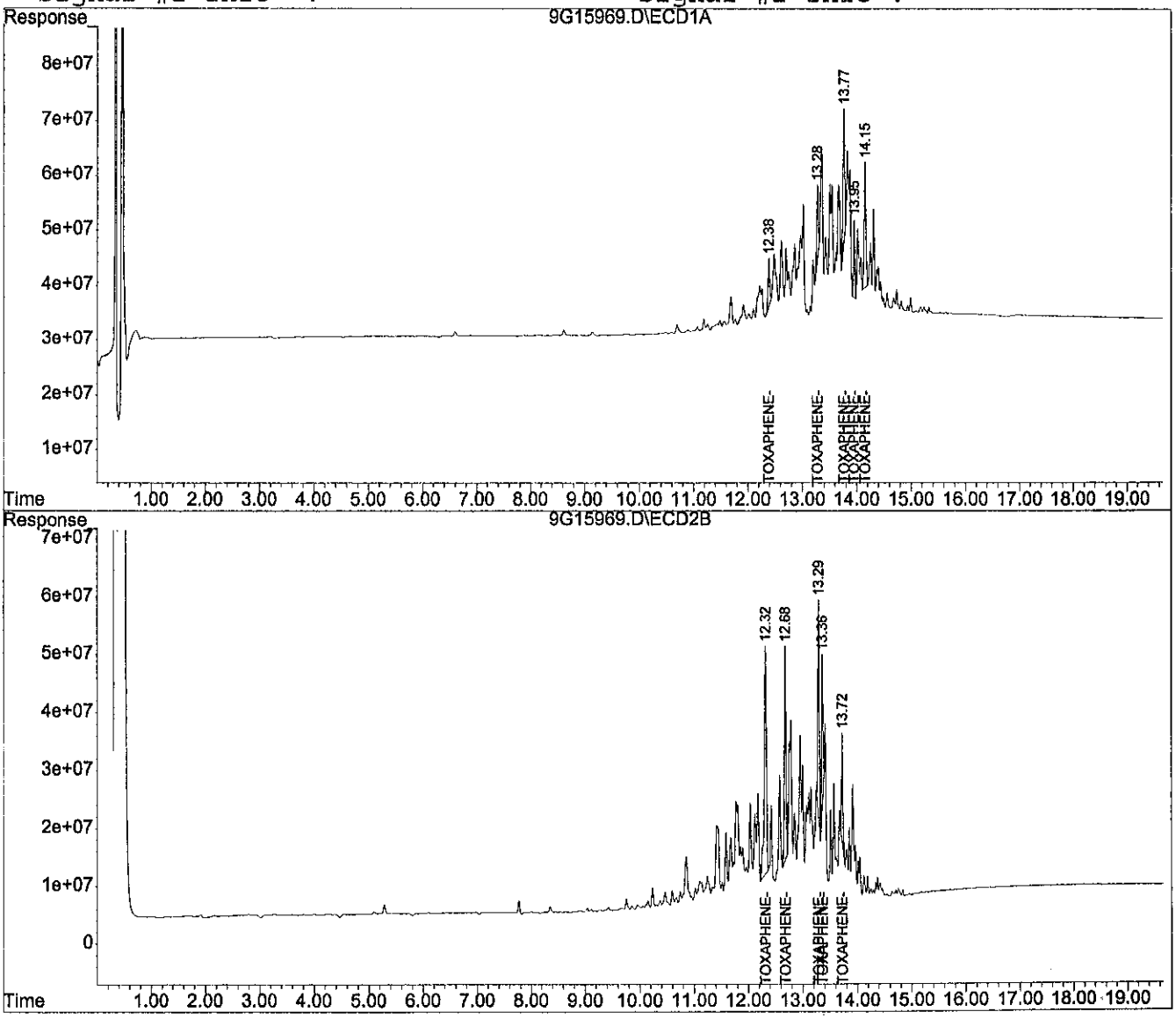
852

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	7.213	7.458	7.095	6.973	6.907	6.915	7.094	E7	3.02
2)		alpha-BHC	8.716	9.743	9.467	9.668	9.785	9.914	9.549	E7	4.54
3)		gamma-BHC	8.705	8.660	8.429	8.566	8.564	8.733	8.610	E7	1.31
4)		beta-BHC	4.413	3.958	3.637	3.650	3.484	3.613	3.793	E7	9.02
5)		Heptachlor	7.951	8.169	7.831	7.736	7.613	7.495	7.799	E7	3.10
6)		delta-BHC	7.305	8.442	8.200	8.384	8.517	8.733	8.263	E7	6.06
7)		Aldrin	7.193	7.407	7.334	7.295	7.207	7.136	7.262	E7	1.39
8)		Heptachlor Epoxide	6.882	6.974	6.637	6.482	6.368	6.296	6.606	E7	4.18
9)		gamma-Chlordane	6.666	6.783	6.553	6.507	6.513	6.601	6.604	E7	1.60
10)		alpha-Chlordane	5.229	6.146	6.061	5.788	5.812	5.929	5.828	E7	5.57
11)		Endosulfan I	6.286	6.270	6.120	5.961	5.839	5.789	6.044	E7	3.54
12)		4,4'-DDE	5.708	6.027	5.765	5.923	5.968	6.063	5.909	E7	2.42
13)		Dieldrin	6.016	6.315	6.215	6.198	6.176	6.168	6.181	E7	1.57
14)		Endrin	5.578	5.642	5.527	5.645	5.582	5.612	5.598	E7	0.80
15)		4,4'-DDD	4.498	4.642	4.582	5.090	4.965	4.988	4.794	E7	5.19
16)		Endosulfan II	6.132	5.427	5.292	5.310	5.146	5.121	5.405	E7	6.91
17)		4,4'-DDT	4.660	5.284	5.427	5.258	5.099	5.149	5.146	E7	5.13
18)		Endrin Aldehyde	4.416	5.095	4.586	4.224	4.124	4.036	4.413	E7	8.81
19)		Endosulfan Sulfate	3.581	3.616	3.769	3.785	3.848	4.000	3.767	E7	4.09
20)		Methoxychlor	2.150	2.259	2.180	2.191	2.299	2.342	2.237	E7	3.37
21)		Endrin Ketone	4.839	4.812	4.858	4.804	4.787	4.903	4.834	E7	0.87
22)	S	Decachlorobiphenyl	4.626	4.357	4.177	3.903	3.745	3.762	4.095	E7	8.65

Signal #2 Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	1.099	1.091	1.057	1.035	0.991	0.996	1.045	E8	4.40
2)		alpha-BHC	1.395	1.443	1.439	1.446	1.408	1.447	1.430	E8	1.57
3)		gamma-BHC	1.205	1.260	1.252	1.254	1.221	1.251	1.241	E8	1.79
4)		beta-BHC	5.797	5.655	5.417	5.267	5.067	5.213	5.403	E7	5.14
5)		Heptachlor	1.082	1.096	1.077	1.060	1.023	1.017	1.059	E8	3.06
6)		delta-BHC	1.091	1.170	1.173	1.188	1.167	1.205	1.166	E8	3.37
7)		Aldrin	0.962	1.007	1.002	1.002	0.972	0.976	0.987	E8	1.95
8)		Heptachlor Epoxide	8.383	8.702	8.511	8.428	8.210	8.308	8.424	E7	2.03
9)		gamma-Chlordane	8.604	8.729	8.570	8.607	8.442	8.656	8.601	E7	1.11
10)		alpha-Chlordane	8.282	8.289	8.068	8.052	7.897	8.074	8.110	E7	1.86
11)		Endosulfan I	7.997	7.967	7.767	7.702	7.493	7.524	7.742	E7	2.76
12)		4,4'-DDE	7.541	7.916	7.892	8.041	7.950	8.129	7.911	E7	2.55
13)		Dieldrin	7.822	8.138	8.106	8.233	8.112	8.301	8.119	E7	2.02
14)		Endrin	6.373	6.236	6.271	6.390	6.399	6.532	6.367	E7	1.65
15)		4,4'-DDD	5.711	6.122	6.120	6.220	6.227	6.430	6.138	E7	3.88
16)		Endosulfan II	6.617	6.725	6.607	6.623	6.547	6.719	6.640	E7	1.04

(#) = Out of Range
8081.M Fri May 25 07:58:20 2001 Page 1

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
17)		4,4'-DDT	5.358	5.680	5.748	6.154	6.123	6.457	5.920	E7	6.70
18)		Endrin Aldehyde	4.891	4.962	4.843	5.011	4.888	5.082	4.946	E7	1.81
19)		Endosulfan Sulfate	4.519	4.687	4.746	4.935	5.035	5.339	4.877	E7	5.97
20)		Methoxychlor	2.586	2.621	2.606	2.667	2.704	2.878	2.677	E7	4.02
21)		Endrin Ketone	5.645	5.886	5.840	5.987	6.005	6.266	5.938	E7	3.47
22)	S	Decachlorobiphenyl	5.401	5.227	4.861	4.791	4.713	4.839	4.972	E7	5.54

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH Vial: 8
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH Vial: 8
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S 2,4,5,6-Tetrachl	7.57	6.65	13829.5E6	19915.6E6	194.959	190.613
Spiked Amount 20.000	Range 13 - 154		Recovery =		974.79%#	953.06%#
22) S Decachlorobiphen	15.16	14.80	7524.4E6	9678.4E6	183.745	194.656
Spiked Amount 20.000	Range 25 - 140		Recovery =		918.73%#	973.28%#
Target Compounds						
2) alpha-BHC	8.61	7.77	19827.3E6	28948.9E6	207.647	202.481
3) gamma-BHC	9.16	8.38	17466.2E6	25023.6E6	202.868	201.717
4) beta-BHC	9.32	8.54	7225.8E6	10425.7E6	190.527	192.978
5) Heptachlor	9.94	9.08	14989.5E6	20337.4E6	192.196	192.005
6) delta-BHC	9.61	9.01	17465.3E6	24102.0E6	211.357	206.739
7) Aldrin	10.41	9.58	14272.7E6	19516.8E6	196.539	197.758
8) Heptachlor Epoxi	11.33	10.47	12591.4E6	16615.8E6	190.594	197.249
9) gamma-Chlordane	11.52	10.75	13202.4E6	17312.4E6	199.918	201.274
10) alpha-Chlordane	11.71	10.97	11858.2E6	16148.7E6	203.485	199.110
11) Endosulfan I	11.91	11.05	11577.9E6	15048.8E6	191.559	194.385
12) 4,4'-DDE	11.83	11.24	12126.7E6	16257.9E6	205.217	205.500
13) Dieldrin	12.25	11.45	12336.7E6	16601.7E6	199.583	204.489
14) Endrin	12.58	11.89	11224.0E6	13063.8E6	200.512	205.193
15) 4,4'-DDD	12.67	12.08	9975.2E6	12860.2E6	208.070	209.511
16) Endosulfan II	12.87	12.20	10241.9E6	13437.1E6	189.501	202.374
17) 4,4'-DDT	13.03	12.52	10297.0E6	12913.2E6	200.092	218.125
18) Endrin Aldehyde	13.39	12.67	8072.6E6	10163.2E6	182.909	205.486
19) Endosulfan Sulfa	13.88	13.02	8000.1E6	10678.1E6	212.397	218.960
20) Methoxychlor	13.61	13.37	4684.9E6	5756.7E6	209.442	215.032
21) Endrin Ketone	14.18	13.62	9805.4E6	12531.2E6	202.859	211.034

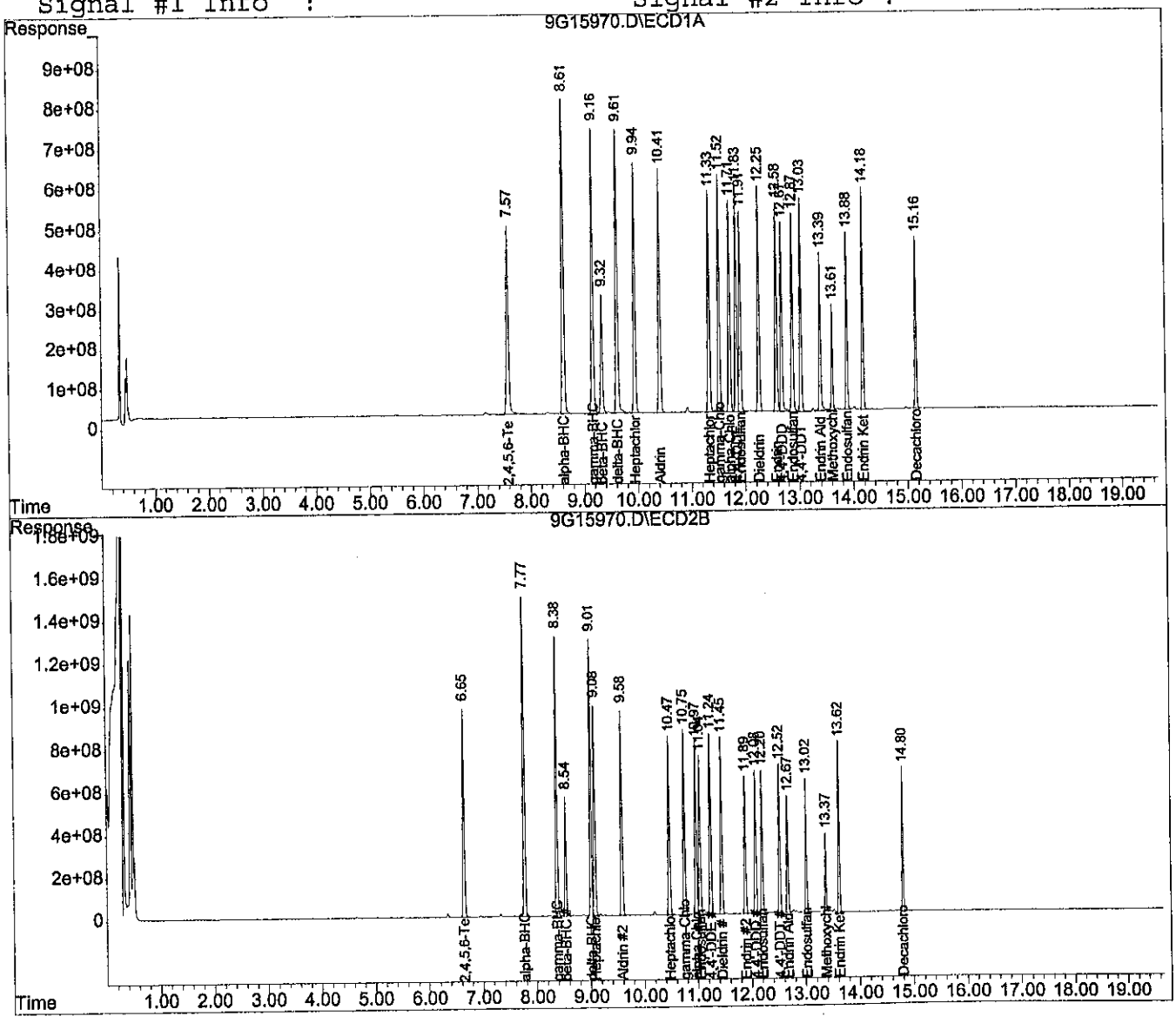
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15970.D 8081.M Fri May 25 08:03:20 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH Vial: 8
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH Vial: 8
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH Vial: 9
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH Vial: 9
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	6906.8E6	9913.0E6	97.367	94.877
	Spiked Amount 20.000	Range 13 - 154		Recovery =		486.84%#	474.38%#
22)	S Decachlorobiphen	15.16f	14.80	3744.8E6	4713.2E6	91.447	94.794
	Spiked Amount 20.000	Range 25 - 140		Recovery =		457.24%#	473.97%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	9784.5E6	14075.7E6	102.471	98.452
3)	gamma-BHC	9.16	8.38	8564.1E6	12211.1E6	99.471	98.435
4)	beta-BHC	9.32	8.54	3484.1E6	5066.9E6	91.868	93.786
5)	Heptachlor	9.94	9.08	7612.8E6	10233.4E6	97.612	96.613
6)	delta-BHC	9.61	9.01	8517.1E6	11671.5E6	103.070	100.115
7)	Aldrin	10.41	9.58	7206.9E6	9715.7E6	99.241	98.446
8)	Heptachlor Epoxi	11.33	10.47	6367.7E6	8210.3E6	96.388	97.466
9)	gamma-Chlordane	11.52	10.75	6513.3E6	8442.3E6	98.628	98.151
10)	alpha-Chlordane	11.71	10.97	5812.0E6	7897.3E6	99.733	97.372
11)	Endosulfan I	11.91	11.05	5838.9E6	7492.7E6	96.606	96.784
12)	4,4'-DDE	11.84	11.24	5968.2E6	7949.9E6	100.998	100.486
13)	Dieldrin	12.25	11.45	6175.6E6	8112.2E6	99.908	99.921
14)	Endrin	12.58	11.89	5582.4E6	6398.7E6	99.728	100.505
15)	4,4'-DDD	12.68	12.08	4965.2E6	6226.7E6	103.567	101.442
16)	Endosulfan II	12.88	12.20	5145.8E6	6546.9E6	95.211	98.602
17)	4,4'-DDT	13.03	12.52	5099.4E6	6123.4E6	99.091	103.434
18)	Endrin Aldehyde	13.39	12.67	4123.7E6	4887.8E6	93.435	98.824
19)	Endosulfan Sulfa	13.88	13.02	3848.0E6	5035.0E6	102.162	103.245
20)	Methoxychlor	13.61	13.38	2299.0E6	2704.3E6	102.778	101.013
21)	Endrin Ketone	14.18	13.62	4787.4E6	6004.6E6	99.043	101.122

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15971.D 8081.M Fri May 25 08:03:41 2001 -Page 1

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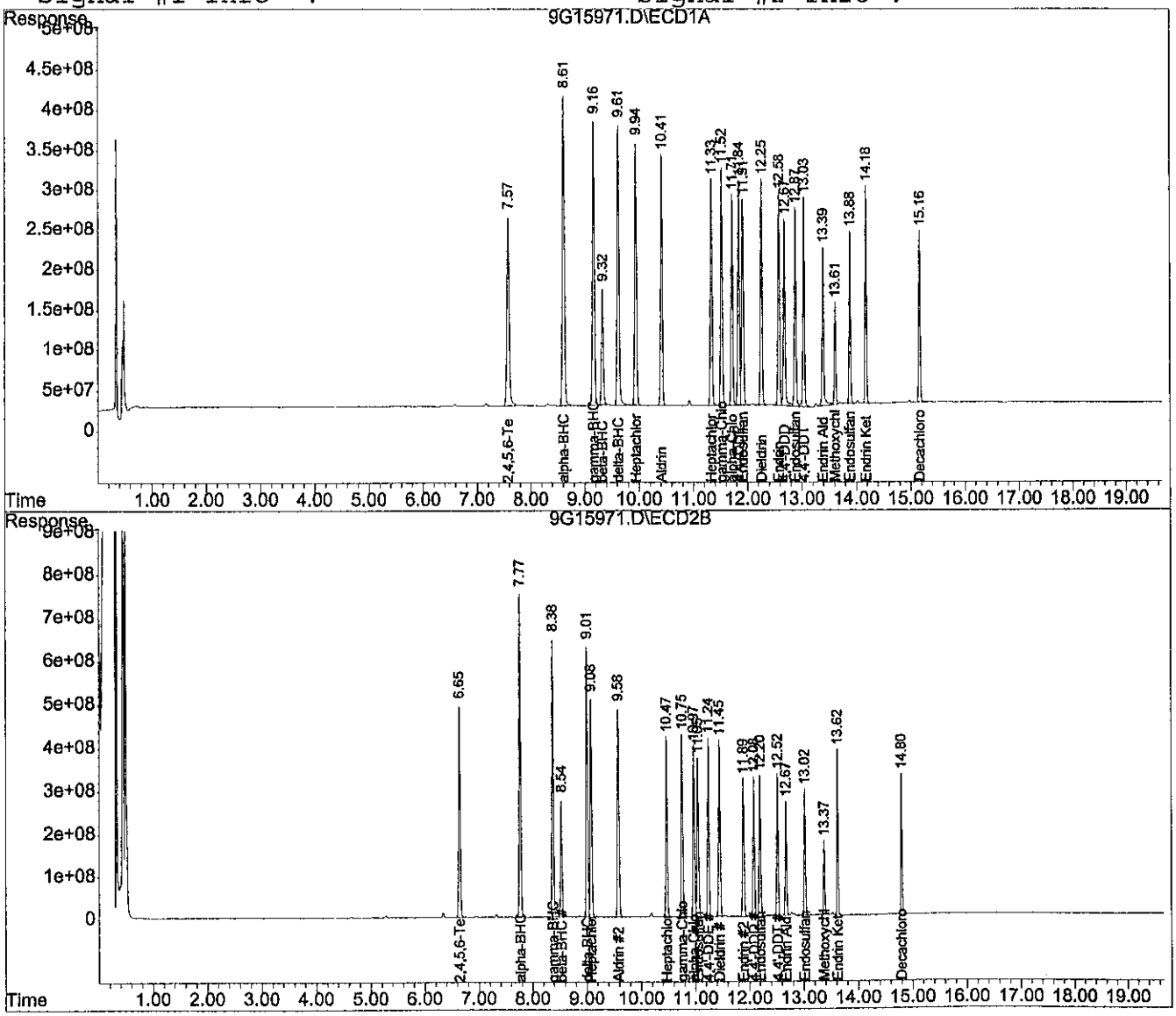
Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH Vial: 9
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH Vial: 9
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	3486.5E6	5173.6E6	49.151	49.517
	Spiked Amount 20.000	Range 13 - 154			Recovery =	245.76%#	247.59%#
22)	S Decachlorobiphen	15.16f	14.79	1951.4E6	2395.4E6	47.653	48.178
	Spiked Amount 20.000	Range 25 - 140			Recovery =	238.26%#	240.89%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4833.9E6	7229.7E6	50.624	50.568
3)	gamma-BHC	9.16	8.38	4282.8E6	6269.9E6	49.744	50.542
4)	beta-BHC	9.33	8.54	1824.9E6	2633.7E6	48.119	48.749
5)	Heptachlor	9.94	9.08	3867.8E6	5300.1E6	49.593	50.038
6)	delta-BHC	9.62	9.01	4192.2E6	5940.9E6	50.732	50.960
7)	Aldrin	10.41	9.58	3647.3E6	5010.3E6	50.224	50.767
8)	Heptachlor Epoxi	11.33	10.47	3240.8E6	4214.2E6	49.056	50.027
9)	gamma-Chlordane	11.52	10.75	3253.7E6	4303.3E6	49.269	50.031
10)	alpha-Chlordane	11.71	10.97	2894.1E6	4025.8E6	49.663	49.638
11)	Endosulfan I	11.91	11.04	2980.4E6	3851.0E6	49.312	49.743
12)	4,4'-DDE	11.84	11.24	2961.6E6	4020.4E6	50.119	50.818
13)	Dieldrin	12.26	11.45	3098.8E6	4116.4E6	50.132	50.703
14)	Endrin	12.58	11.88	2822.3E6	3195.0E6	50.420	50.183
15)	4,4'-DDD	12.68	12.08	2545.0E6	3109.8E6	53.086	50.663
16)	Endosulfan II	12.88	12.20	2655.1E6	3311.7E6	49.125	49.877
17)	4,4'-DDT	13.03	12.52	2629.0E6	3077.2E6	51.086	51.979
18)	Endrin Aldehyde	13.39	12.67	2111.8E6	2505.3E6	47.850	50.654
19)	Endosulfan Sulfa	13.88	13.02	1892.4E6	2467.5E6	50.243	50.597
20)	Methoxychlor	13.61	13.37	1095.6E6	1333.6E6	48.981	49.813
21)	Endrin Ketone	14.18	13.62	2401.8E6	2993.6E6	49.689	50.414

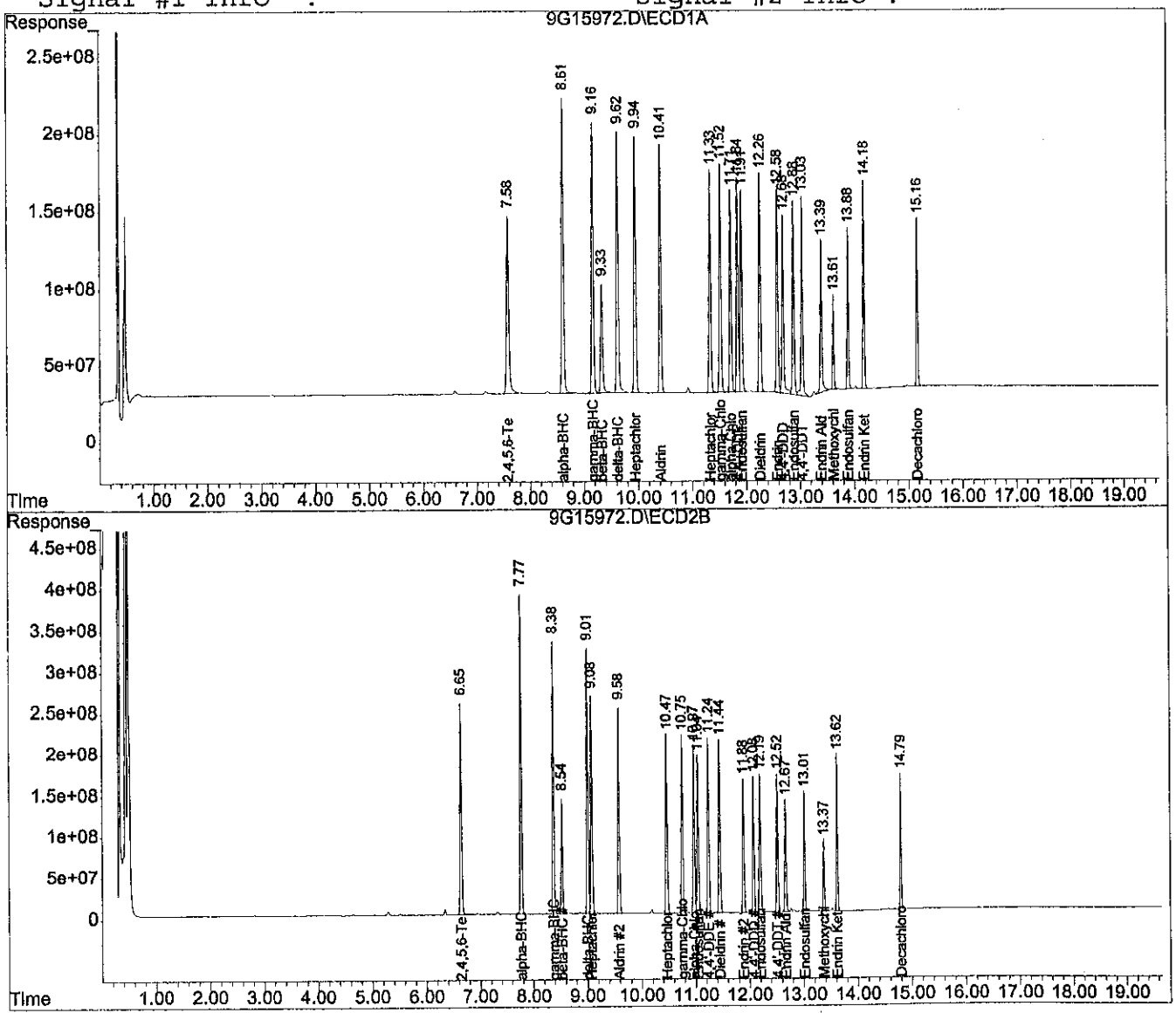
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15972.D 8081.M Fri May 25 08:04:01 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH Vial: 11
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH Vial: 11
Acq On : 24 May 2001 13:12 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S 2,4,5,6-Tetrachl	7.58	6.64	1419.0E6	2114.2E6	20.004	20.235
Spiked Amount 20.000	Range 13 - 154		Recovery =		100.02%	101.18%
22) S Decachlorobiphen	15.16	14.79	835.4E6	972.2E6	20.400	19.554
Spiked Amount 20.000	Range 25 - 140		Recovery =		102.00%	97.77%
Target Compounds						
2) alpha-BHC	8.61	7.77	1893.4E6	2877.4E6	19.829	20.125
3) gamma-BHC	9.16	8.38	1685.9E6	2503.4E6	19.581	20.180
4) beta-BHC	9.32	8.53	727.4E6	1083.4E6	19.181	20.053
5) Heptachlor	9.93	9.08	1566.3E6	2154.2E6	20.083	20.338
6) delta-BHC	9.61	9.00	1639.9E6	2346.7E6	19.845	20.129
7) Aldrin	10.40	9.58	1466.9E6	2004.6E6	20.199	20.312
8) Heptachlor Epoxi	11.33	10.47	1327.3E6	1702.2E6	20.091	20.207
9) gamma-Chlordane	11.51	10.75	1310.5E6	1714.0E6	19.844	19.927
10) alpha-Chlordane	11.71	10.97	1212.3E6	1613.6E6	20.802	19.896
11) Endosulfan I	11.90	11.04	1223.9E6	1553.4E6	20.250	20.065
12) 4,4'-DDE	11.83	11.24	1152.9E6	1578.5E6	19.511	19.952
13) Dieldrin	12.25	11.44	1243.1E6	1621.3E6	20.110	19.970
14) Endrin	12.57	11.88	1105.5E6	1254.1E6	19.749	19.699
15) 4,4'-DDD	12.67	12.08	916.3E6	1224.0E6	19.113	19.941
16) Endosulfan II	12.87	12.19	1058.4E6	1321.5E6	19.584	19.903
17) 4,4'-DDT	13.03	12.52	1085.4E6	1149.7E6	21.091	19.420
18) Endrin Aldehyde	13.38	12.67	917.2E6	968.5E6	20.782	19.582
19) Endosulfan Sulfa	13.87	13.01	753.9E6	949.1E6	20.015	19.462
20) Methoxychlor	13.61	13.37	435.9E6	521.1E6	19.488	19.467
21) Endrin Ketone	14.17	13.62	971.5E6	1168.0E6	20.100	19.670

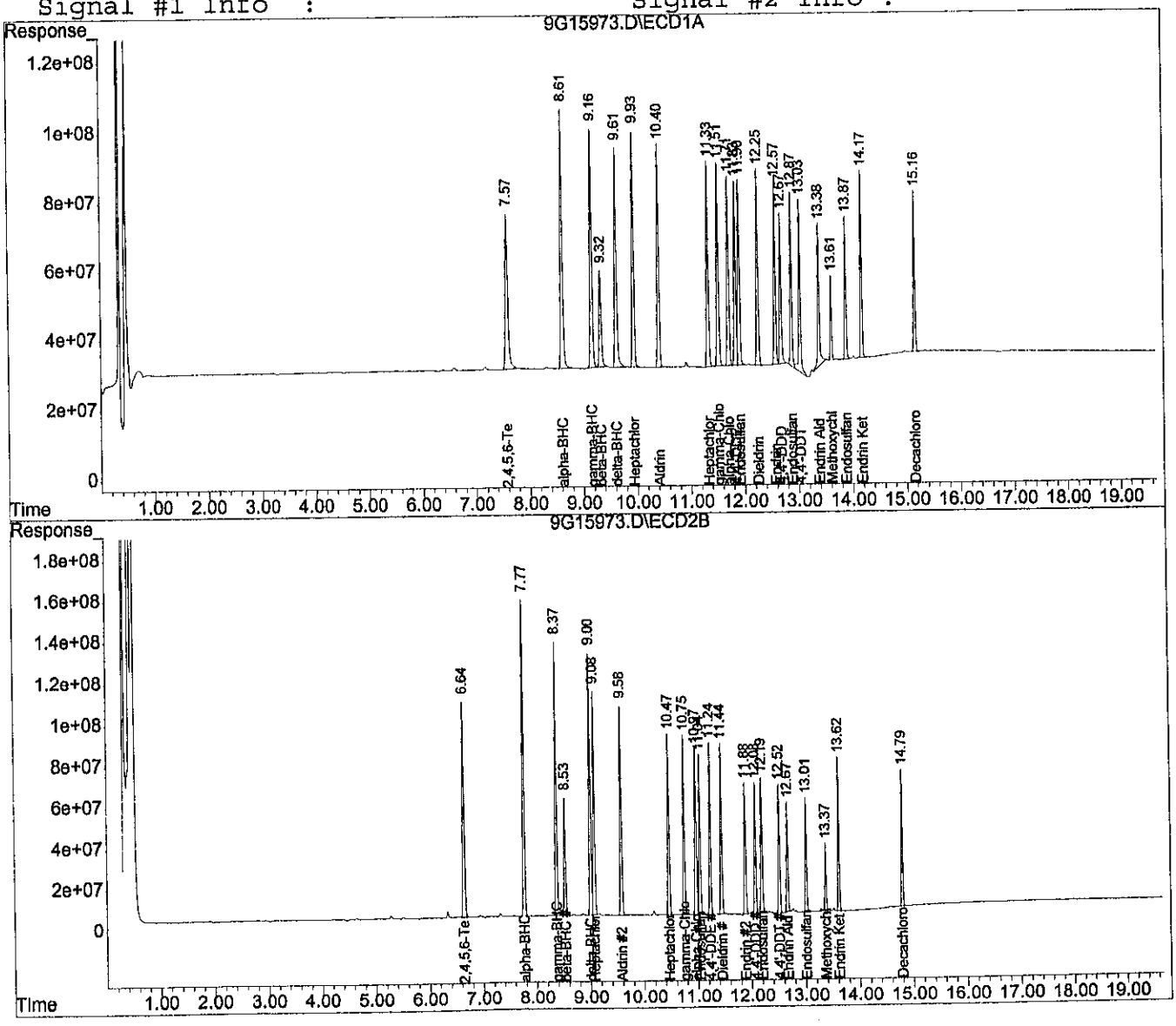
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15973.D 8081.M Fri May 25 08:04:20 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH Vial: 11
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH Vial: 11
Acq On : 24 May 2001 13:12 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	745.8E6	1091.4E6	10.514	10.446
	Spiked Amount 20.000	Range 13 - 154		Recovery =		52.57%	52.23%
22)	S Decachlorobiphen	15.15	14.79	435.7E6	522.7E6	10.640	10.513
	Spiked Amount 20.000	Range 25 - 140		Recovery =		53.20%	52.56%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	974.3E6	1443.2E6	10.203	10.094
3)	gamma-BHC	9.16	8.38	866.0E6	1260.3E6	10.059	10.159
4)	beta-BHC	9.32	8.54	395.8E6	565.5E6	10.435	10.467
5)	Heptachlor	9.94	9.08	816.9E6	1095.7E6	10.474	10.345
6)	delta-BHC	9.61	9.01	844.2E6	1170.0E6	10.216	10.036
7)	Aldrin	10.41	9.58	740.7E6	1007.3E6	10.199	10.207
8)	Heptachlor Epoxi	11.33	10.47	697.4E6	870.2E6	10.557	10.330
9)	gamma-Chlordane	11.51	10.75	678.3E6	872.9E6	10.271	10.148
10)	alpha-Chlordane	11.71	10.97	614.6E6	828.9E6	10.546	10.220
11)	Endosulfan I	11.90	11.04	627.0E6	796.7E6	10.373	10.292
12)	4,4'-DDE	11.83	11.24	602.7E6	791.6E6	10.200	10.005
13)	Dieldrin	12.25	11.44	631.5E6	813.8E6	10.217	10.024
14)	Endrin	12.57	11.88	564.2E6	623.6E6	10.079	9.794
15)	4,4'-DDD	12.67	12.07	464.2E6	612.2E6	9.683	9.974
16)	Endosulfan II	12.87	12.19	542.7E6	672.5E6	10.042	10.129
17)	4,4'-DDT	13.02	12.51	528.4E6	568.0E6	10.267	9.594
18)	Endrin Aldehyde	13.38	12.66	509.5E6	496.2E6	11.544	10.032
19)	Endosulfan Sulfa	13.87	13.01	361.6E6	468.7E6	9.602	9.611
20)	Methoxychlor	13.60	13.37	225.9E6	262.1E6	10.098	9.791
21)	Endrin Ketone	14.17	13.62	481.2E6	588.6E6	9.955	9.912

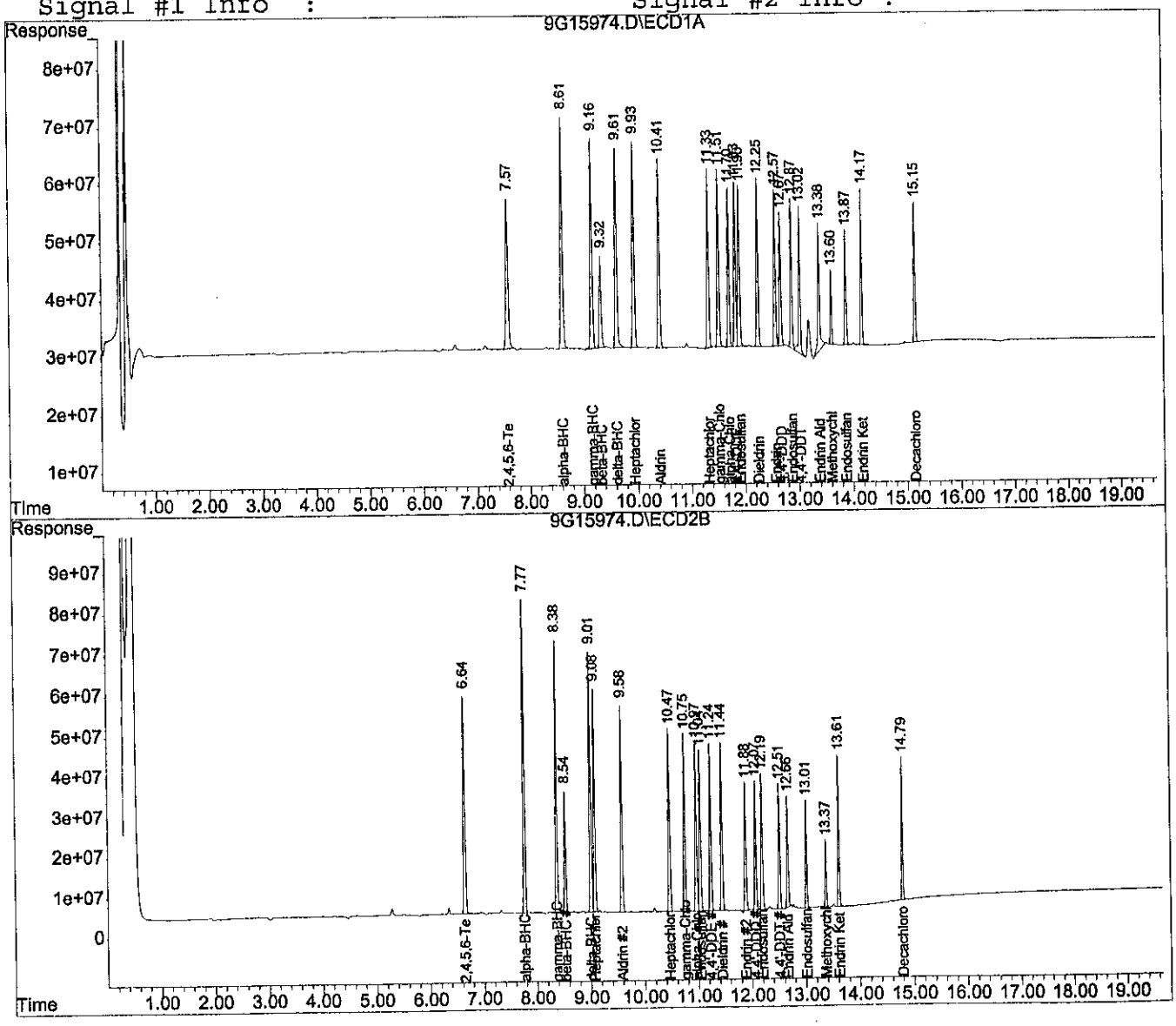
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	288.5E6	439.5E6	4.105	4.250
	Spiked Amount 20.000	Range 13 - 154		Recovery =		20.53%	21.25%
22)	S Decachlorobiphen	15.15	14.79	185.0E6	216.0E6	4.550	4.367
	Spiked Amount 20.000	Range 25 - 140		Recovery =		22.75%#	21.83%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	348.6E6	558.2E6	3.678	3.946
3)	gamma-BHC	9.16	8.38	348.2E6	482.0E6	4.097	3.925
4)	beta-BHC	9.32	8.54	176.5E6	231.9E6	4.754	4.345
5)	Heptachlor	9.94	9.08	318.0E6	432.9E6	4.149	4.114
6)	delta-BHC	9.61	9.01	292.2E6	436.4E6	3.576	3.802
7)	Aldrin	10.41	9.58	287.7E6	384.9E6	4.003	3.929
8)	Heptachlor Epoxi	11.33	10.47	275.3E6	335.3E6	4.204	4.013
9)	gamma-Chlordane	11.51	10.75	266.7E6	344.2E6	4.089	4.028
10)	alpha-Chlordane	11.70	10.97	209.2E6	331.3E6	3.647	4.123
11)	Endosulfan I	11.90	11.05	251.5E6	319.9E6	4.218	4.174
12)	4,4'-DDE	11.83	11.24	228.3E6	301.6E6	3.905	3.829
13)	Dieldrin	12.25	11.45	240.6E6	312.9E6	3.935	3.888
14)	Endrin	12.57	11.89	223.1E6	254.9E6	4.085	4.020
15)	4,4'-DDD	12.67	12.08	179.9E6	228.4E6	3.800	3.758
16)	Endosulfan II	12.87	12.20	245.3E6	264.7E6	4.588	4.034
17)	4,4'-DDT	13.02	12.52	186.4E6	214.3E6	3.590	3.642
18)	Endrin Aldehyde	13.38	12.67	176.6E6	195.6E6	4.102	3.984
19)	Endosulfan Sulfa	13.87	13.02	143.2E6	180.7E6	4.107	3.939
20)	Methoxychlor	13.60	13.37	85998587	103.4E6	4.017	3.936
21)	Endrin Ketone	14.17	13.62	193.5E6	225.8E6	4.037	3.859

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15975.D 8081.M Fri May 25 07:58:27 2001 Page 1

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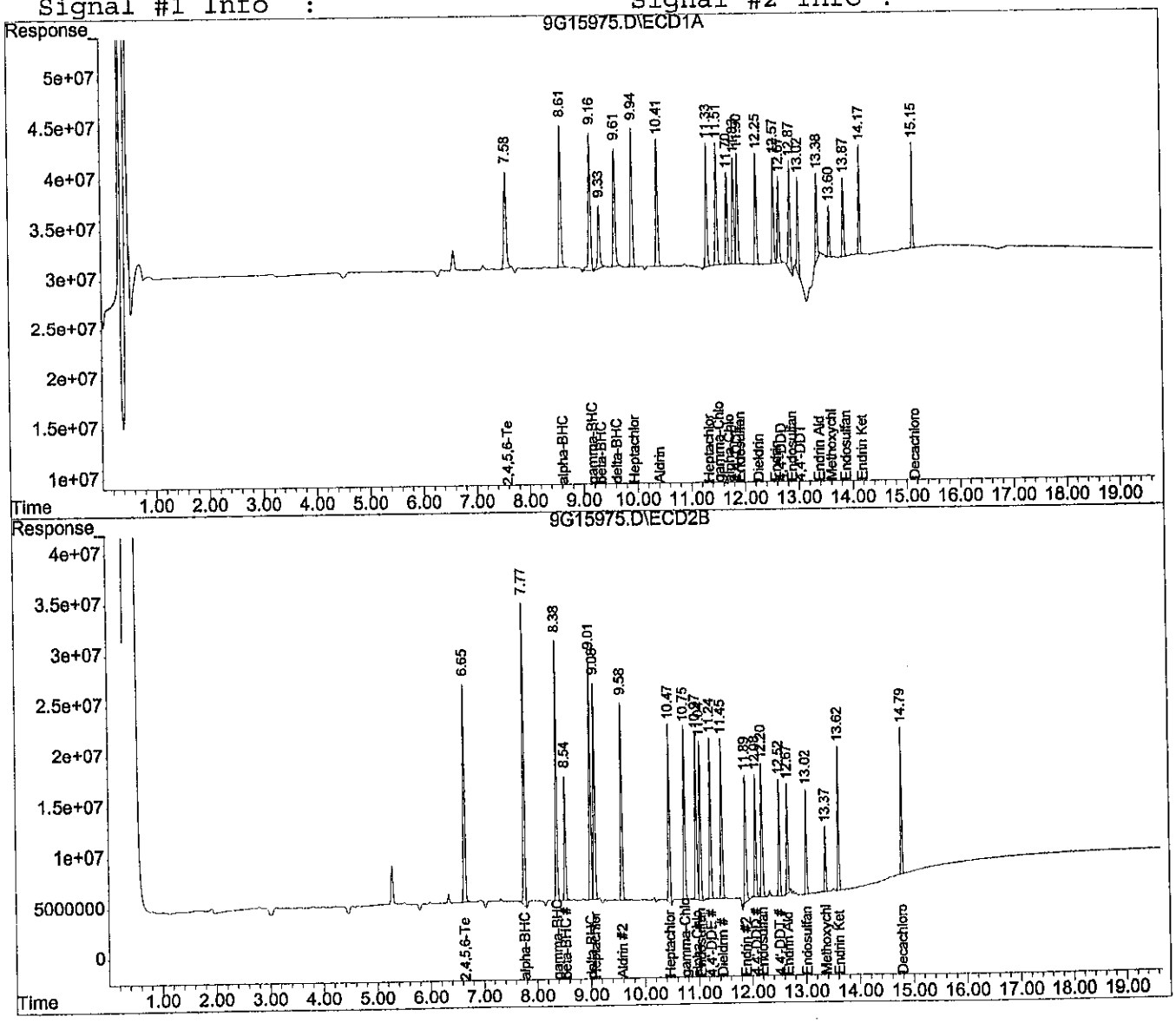
Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	alpha-BHC	20.000	19.686	1.6	99	0.00
3	gamma-BHC	20.000	19.885	0.6	102	0.00
4	beta-BHC	20.000	19.710	1.4	103	0.00
5	Heptachlor	20.000	19.975	0.1	99	0.00
6	delta-BHC	20.000	19.639	1.8	99	0.00
7	Aldrin	20.000	20.072	-0.4	99	0.00
8	Heptachlor Epoxide	20.000	19.788	1.1	98	0.00
9	gamma-Chlordane	20.000	19.744	1.3	99	0.00
10	alpha-Chlordane	20.000	19.695	1.5	95	0.00
11	Endosulfan I	20.000	19.677	1.6	97	0.00
12	4,4'-DDE	20.000	19.699	1.5	101	0.00
13	Dieldrin	20.000	19.830	0.9	99	0.00
14	Endrin	20.000	18.901	5.5	96	0.00
15	4,4'-DDD	20.000	19.068	4.7	100	0.00
16	Endosulfan II	20.000	19.349	3.3	99	0.00
17	4,4'-DDT	20.000	21.513	-7.6	102	0.00
18	Endrin Aldehyde	20.000	19.676	1.6	95	0.00
19	Endosulfan Sulfate	20.000	18.415	7.9	92	0.00
20	Methoxychlor	20.000	19.600	2.0	101	0.00
21	Endrin Ketone	20.000	19.546	2.3	97	0.00
	Signal #2					
2	alpha-BHC	20.000	19.799	1.0	98	0.00
3	gamma-BHC	20.000	19.907	0.5	99	0.00
4	beta-BHC	20.000	19.766	1.2	99	0.00
5	Heptachlor	20.000	19.885	0.6	98	0.00
6	delta-BHC	20.000	19.765	1.2	98	0.00
7	Aldrin	20.000	20.131	-0.7	99	0.00
8	Heptachlor Epoxide	20.000	19.569	2.2	97	0.00
9	gamma-Chlordane	20.000	19.791	1.0	99	0.00
10	alpha-Chlordane	20.000	19.758	1.2	99	0.00
11	Endosulfan I	20.000	19.754	1.2	98	0.00
12	4,4'-DDE	20.000	19.779	1.1	99	0.00
13	Dieldrin	20.000	19.886	0.6	100	0.00

(#) = Out of Range
9G15976.D 8081.M Fri May 25 08:07:18 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
14	Endrin	20.000	18.799	6.0	95	0.00
15	4,4'-DDD	20.000	20.133	-0.7	101	0.00
16	Endosulfan II	20.000	19.832	0.8	100	0.00
17	4,4'-DDT	20.000	20.017	-0.1	103	0.00
18	Endrin Aldehyde	20.000	19.404	3.0	99	0.00
19	Endosulfan Sulfate	20.000	19.016	4.9	98	0.00
20	Methoxychlor	20.000	19.513	2.4	100	0.00
21	Endrin Ketone	20.000	19.588	2.1	100	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1879.7E6	2830.7E6	19.686	19.799
3)	gamma-BHC	9.16	8.38	1712.0E6	2469.5E6	19.885	19.907
4)	beta-BHC	9.33	8.54	747.5E6	1067.9E6	19.710	19.766
5)	Heptachlor	9.94	9.08	1557.9E6	2106.3E6	19.975	19.885
6)	delta-BHC	9.62	9.01	1622.9E6	2304.3E6	19.639	19.765
7)	Aldrin	10.41	9.58	1457.6E6	1986.7E6	20.072	20.131
8)	Heptachlor Epoxi	11.33	10.47	1307.3E6	1648.4E6	19.788	19.569
9)	gamma-Chlordane	11.52	10.75	1303.9E6	1702.3E6	19.744	19.791
10)	alpha-Chlordane	11.71	10.97	1147.8E6	1602.4E6	19.695	19.758
11)	Endosulfan I	11.91	11.04	1189.3E6	1529.3E6	19.677	19.754
12)	4,4'-DDE	11.83	11.24	1164.0E6	1564.8E6	19.699	19.779
13)	Dieldrin	12.25	11.45	1225.8E6	1614.4E6	19.830	19.886
14)	Endrin	12.57	11.89	1058.0E6	1196.8E6	18.901	18.799
15)	4,4'-DDD	12.67	12.08	914.1E6	1235.8E6	19.068	20.133
16)	Endosulfan II	12.87	12.20	1045.8E6	1316.8E6	19.349	19.832
17)	4,4'-DDT	13.03	12.52	1107.1E6	1185.0E6	21.513	20.017
18)	Endrin Aldehyde	13.38	12.67	868.4E6	959.7E6	19.676	19.404
19)	Endosulfan Sulfa	13.88	13.01	693.6E6	927.3E6	18.415	19.016
20)	Methoxychlor	13.61	13.37	438.4E6	522.4E6	19.600	19.513
21)	Endrin Ketone	14.17	13.62	944.8E6	1163.1E6	19.546	19.588

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15976.D 8081.M Fri May 25 08:07:25 2001 Page 1

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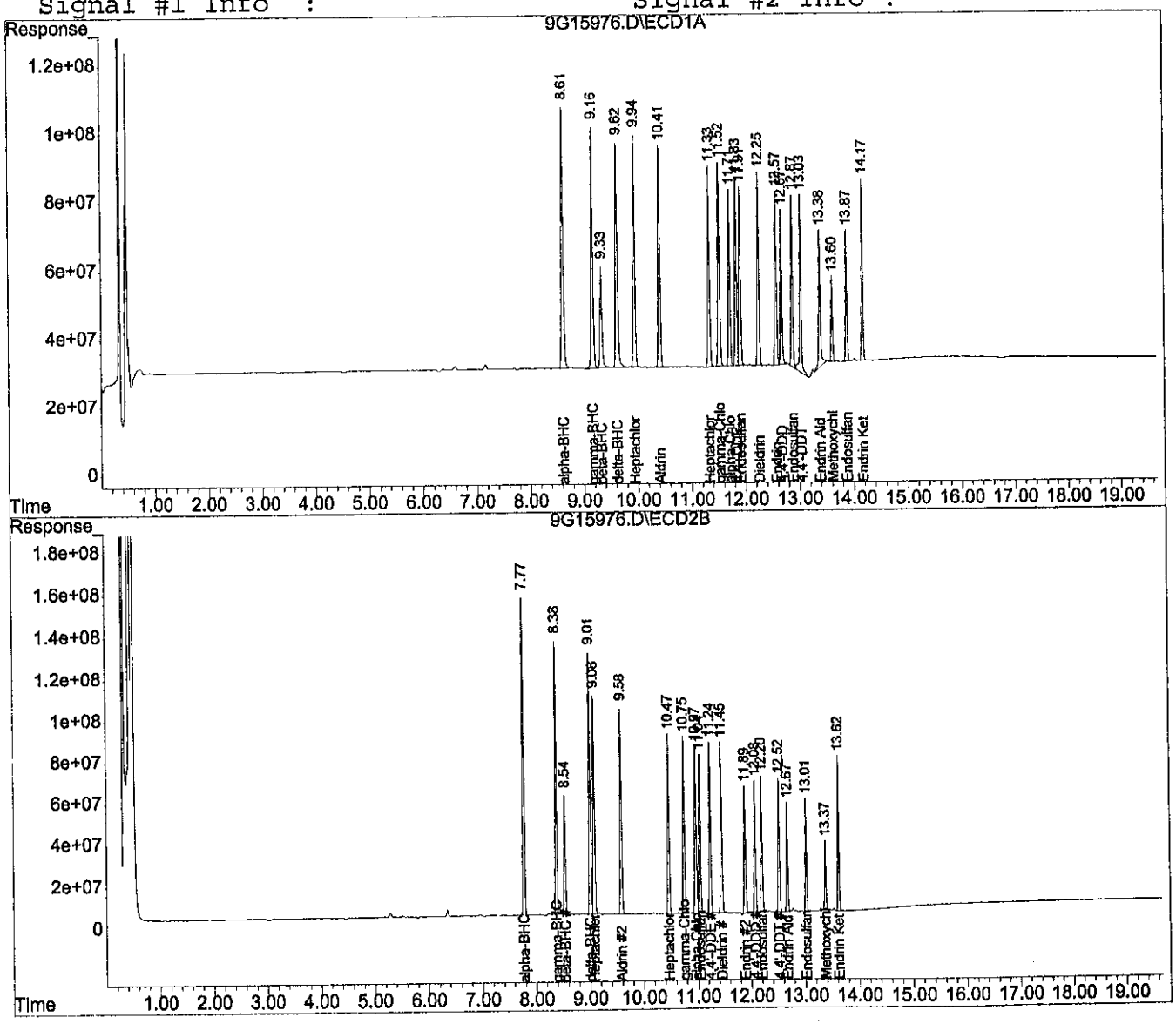
Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD1A.CH Vial: 26
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD2B.CH Vial: 26
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	20.000	20.847	-4.2	104	0.00
2		alpha-BHC	20.000	20.293	-1.5	102	0.00
3		gamma-BHC	20.000	19.984	0.1	102	0.00
4		beta-BHC	20.000	19.848	0.8	103	0.00
5		Heptachlor	20.000	20.449	-2.2	102	0.00
6		delta-BHC	20.000	20.290	-1.4	102	0.00
7		Aldrin	20.000	20.566	-2.8	102	0.00
8		Heptachlor Epoxide	20.000	20.492	-2.5	102	0.00
9		gamma-Chlordane	20.000	20.150	-0.7	102	0.00
10		alpha-Chlordane	20.000	20.020	-0.1	96	0.00
11		Endosulfan I	20.000	20.398	-2.0	101	0.00
12		4,4'-DDE	20.000	20.205	-1.0	104	0.00
13		Dieldrin	20.000	20.246	-1.2	101	0.00
14		Endrin	20.000	20.108	-0.5	102	0.00
15		4,4'-DDD	20.000	19.412	2.9	102	0.00
16		Endosulfan II	20.000	19.700	1.5	101	0.00
17		4,4'-DDT	20.000	21.408	-7.0	102	0.00
18		Endrin Aldehyde	20.000	20.798	-4.0	100	0.00
19		Endosulfan Sulfate	20.000	19.673	1.6	98	0.00
20		Methoxychlor	20.000	19.837	0.8	102	0.00
21		Endrin Ketone	20.000	20.158	-0.8	100	0.00
22	S	Decachlorobiphenyl	20.000	20.437	-2.2	100	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	20.000	20.493	-2.5	101	0.00
2		alpha-BHC	20.000	20.299	-1.5	101	0.00
3		gamma-BHC	20.000	20.415	-2.1	101	0.00
4		beta-BHC	20.000	20.268	-1.3	101	0.00
5		Heptachlor	20.000	20.774	-3.9	102	0.00
6		delta-BHC	20.000	20.364	-1.8	101	0.00
7		Aldrin	20.000	20.548	-2.7	101	0.00
8		Heptachlor Epoxide	20.000	20.123	-0.6	100	0.00
9		gamma-Chlordane	20.000	20.229	-1.1	102	0.00
10		alpha-Chlordane	20.000	20.217	-1.1	102	0.00

(#) = Out of Range
9G15988.D 8081.M Fri May 25 08:35:21 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD1A.CH Vial: 26
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD2B.CH Vial: 26
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	20.000	20.378	-1.9	102	0.00
12		4,4'-DDE	20.000	20.312	-1.6	102	0.00
13		Dieldrin	20.000	20.307	-1.5	102	0.00
14		Endrin	20.000	20.275	-1.4	103	0.00
15		4,4'-DDD	20.000	20.357	-1.8	102	0.00
16		Endosulfan II	20.000	20.225	-1.1	102	0.00
17		4,4'-DDT	20.000	20.101	-0.5	104	0.00
18		Endrin Aldehyde	20.000	19.702	1.5	101	0.00
19		Endosulfan Sulfate	20.000	19.721	1.4	101	0.00
20		Methoxychlor	20.000	20.159	-0.8	104	0.00
21		Endrin Ketone	20.000	20.041	-0.2	102	0.00
22	S	Decachlorobiphenyl	20.000	20.168	-0.8	103	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD1A.CH Vial: 26
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD2B.CH Vial: 26
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:34 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1478.8E6	2141.1E6	20.847	20.493
	Spiked Amount 20.000	Range 13 - 154		Recovery =		104.24%	102.46%
22)	S Decachlorobiphen	15.16	14.79	836.9E6	1002.8E6	20.437	20.168
	Spiked Amount 20.000	Range 25 - 140		Recovery =		102.19%	100.84%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1937.7E6	2902.2E6	20.293	20.299
3)	gamma-BHC	9.16	8.37	1720.5E6	2532.5E6	19.984	20.415
4)	beta-BHC	9.32	8.53	752.7E6	1095.0E6	19.848	20.268
5)	Heptachlor	9.94	9.08	1594.9E6	2200.4E6	20.449	20.774
6)	delta-BHC	9.61	9.00	1676.6E6	2374.1E6	20.290	20.364
7)	Aldrin	10.41	9.58	1493.5E6	2027.9E6	20.566	20.548
8)	Heptachlor Epoxi	11.33	10.46	1353.8E6	1695.1E6	20.492	20.123
9)	gamma-Chlordane	11.52	10.75	1330.7E6	1740.0E6	20.150	20.229
10)	alpha-Chlordane	11.71	10.96	1166.7E6	1639.7E6	20.020	20.217
11)	Endosulfan I	11.90	11.04	1232.9E6	1577.6E6	20.398	20.378
12)	4,4'-DDE	11.83	11.24	1193.9E6	1606.9E6	20.205	20.312
13)	Dieldrin	12.25	11.44	1251.5E6	1648.7E6	20.246	20.307
14)	Endrin	12.57	11.88	1125.6E6	1290.8E6	20.108	20.275
15)	4,4'-DDD	12.67	12.07	930.7E6	1249.6E6	19.412	20.357
16)	Endosulfan II	12.87	12.19	1064.7E6	1342.9E6	19.700	20.225
17)	4,4'-DDT	13.03	12.51	1101.7E6	1190.0E6	21.408	20.101
18)	Endrin Aldehyde	13.38	12.66	917.9E6	974.5E6	20.798	19.702
19)	Endosulfan Sulfa	13.88	13.01	741.0E6	961.8E6	19.673	19.721
20)	Methoxychlor	13.61	13.37	443.7E6	539.7E6	19.837	20.159
21)	Endrin Ketone	14.17	13.61	974.3E6	1190.0E6	20.158	20.041

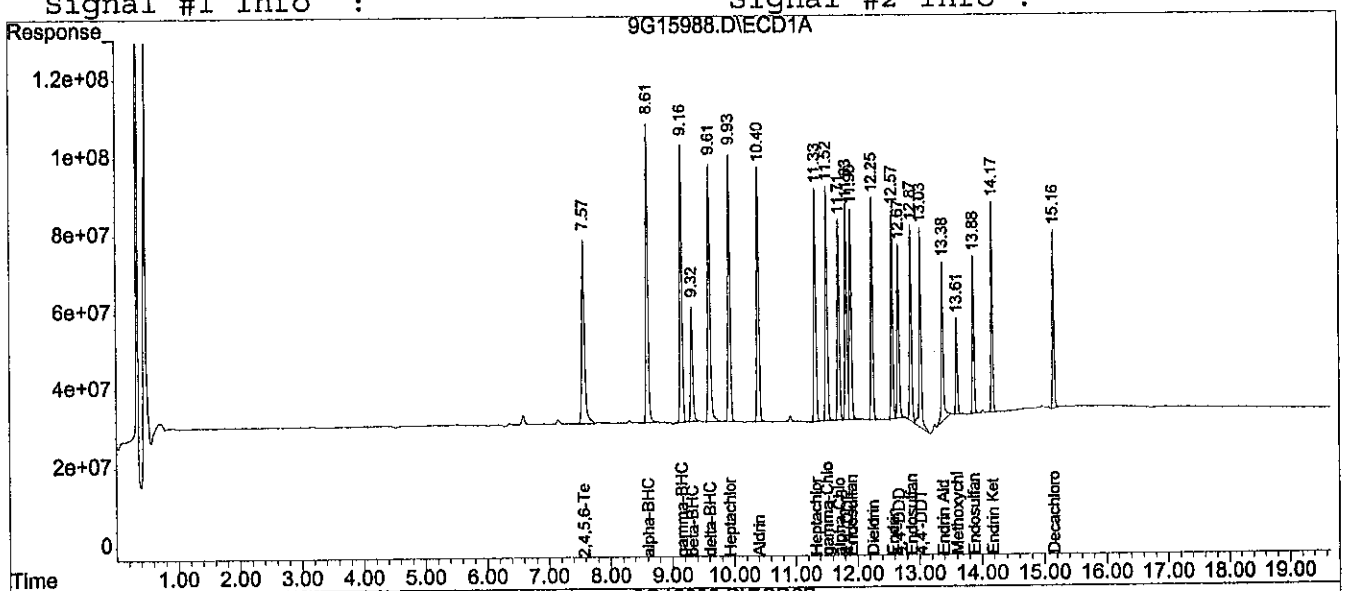
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

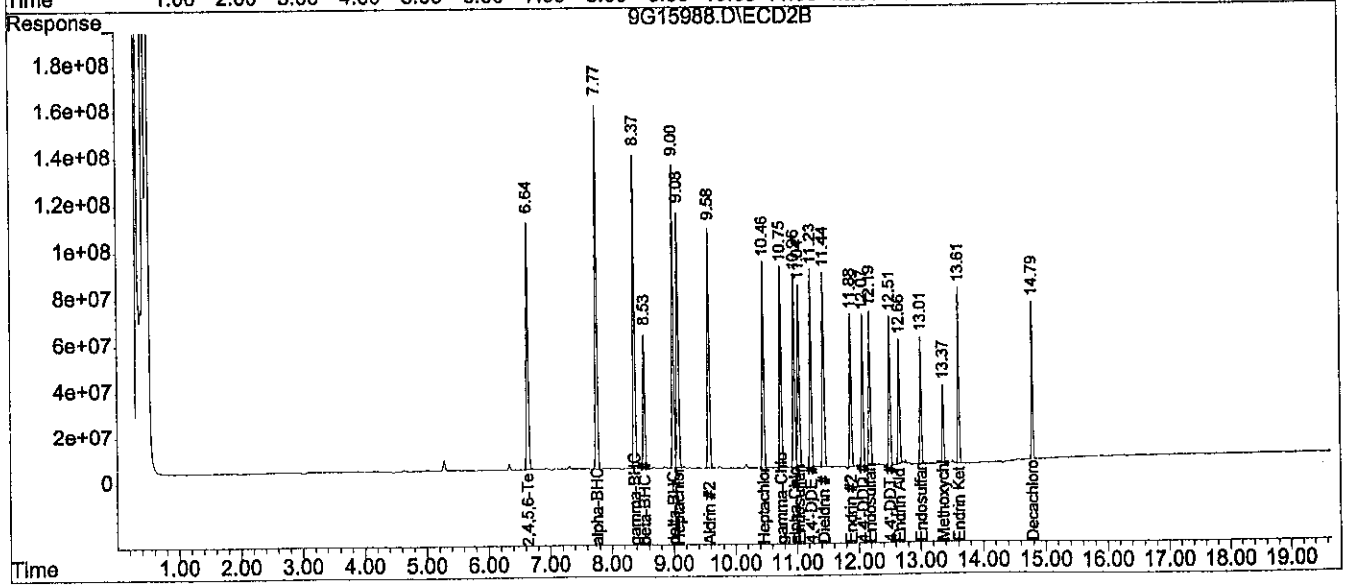
Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD1A.CH Vial: 26
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15988.D\ECD2B.CH Vial: 26
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:34 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD1A.CH Vial: 27
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD2B.CH Vial: 27
Acq On : 24 May 2001 22:27 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	495.668	0.9	100	-0.01
2	L1	TOXAPHENE-2	500.000	513.771	-2.8	100	0.00
3	L1	TOXAPHENE-3	500.000	475.540	4.9	95	0.00
4	L1	TOXAPHENE-4	500.000	496.874	0.6	100	0.00
5	L1	TOXAPHENE-5	500.000	498.685	0.3	100	0.00
		Signal #2					
1	L1	TOXAPHENE-1	500.000	529.414	-5.9	103	0.00
2	L1	TOXAPHENE-2	500.000	520.902	-4.2	105	0.00
3	L1	TOXAPHENE-3	500.000	516.723	-3.3	104	0.00
4	L1	TOXAPHENE-4	500.000	435.594	12.9	87	0.00
5	L1	TOXAPHENE-5	500.000	510.120	-2.0	103	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD1A.CH Vial: 27
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD2B.CH Vial: 27
Acq On : 24 May 2001 22:27 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:35 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.37	12.31	222.5E6	1136.9E6	495.668	529.414
2) L1 TOXAPHENE-2	13.27	12.67	254.7E6	781.3E6	513.771	520.902
3) L1 TOXAPHENE-3	13.75	13.29	514.7E6	743.1E6	475.540	516.723
4) L1 TOXAPHENE-4	13.94	13.35	251.1E6	403.3E6	496.874	435.594
5) L1 TOXAPHENE-5	14.14	13.72	521.9E6	324.1E6	498.685	510.120
Sum TOXAPHENE-1			1764.9E6	3388.7E6	2480.539	2512.752
Average TOXAPHENE-1					496.108	502.550

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15989.D TOX.M Fri May 25 08:36:08 2001 Page 1

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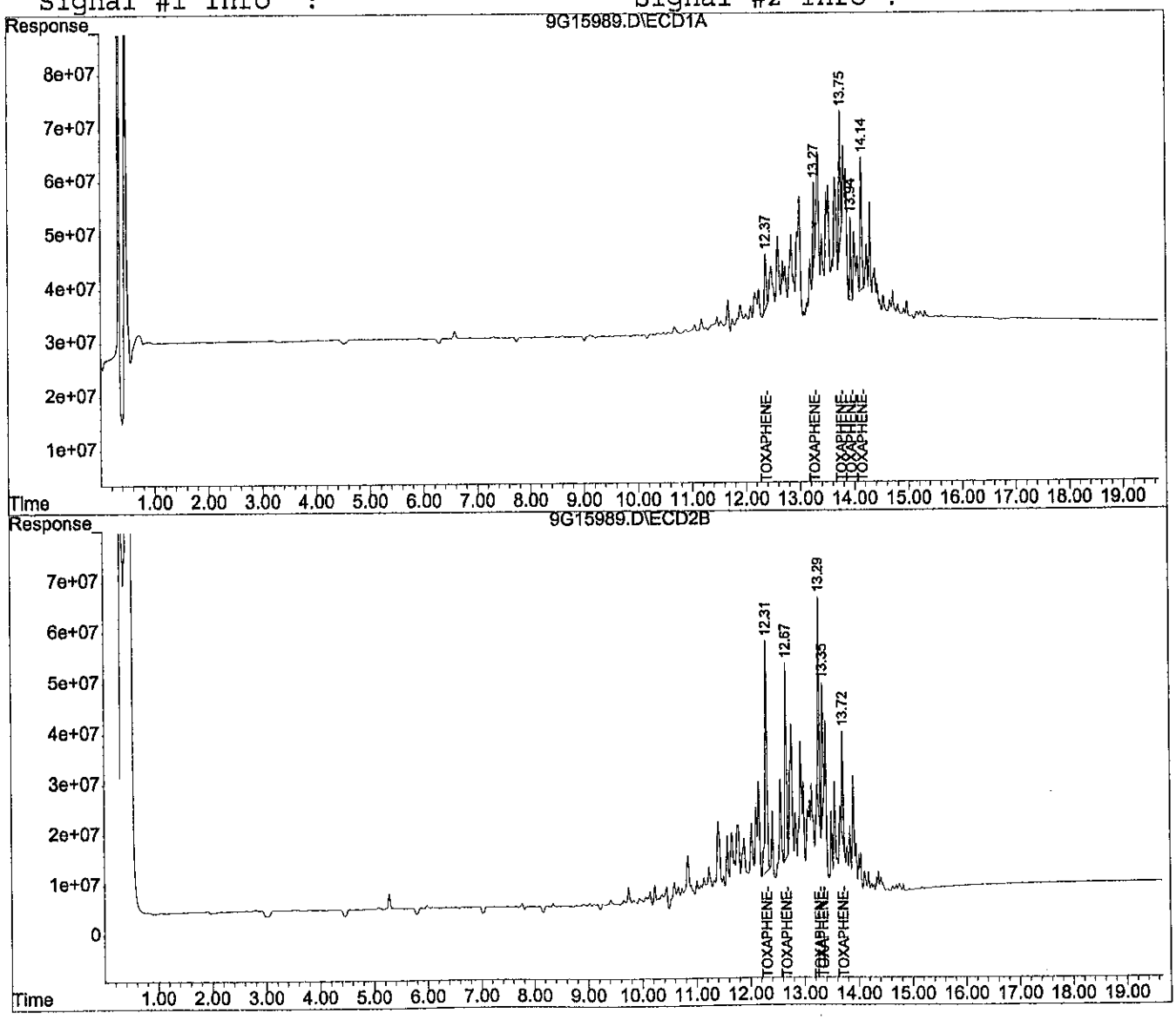
Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD1A.CH Vial: 27
Acq On : 24 May 2001 22:03 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15989.D\ECD2B.CH Vial: 27
Acq On : 24 May 2001 22:27 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:35 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD1A.CH Vial: 39
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD2B.CH Vial: 39
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	50.000	51.810	-3.6	105	0.00
2		alpha-BHC	50.000	53.190	-6.4	105	0.00
3		gamma-BHC	50.000	52.138	-4.3	105	0.00
4		beta-BHC	50.000	50.372	-0.7	105	0.00
5		Heptachlor	50.000	51.704	-3.4	104	0.00
6		delta-BHC	50.000	53.106	-6.2	105	0.00
7		Aldrin	50.000	52.427	-4.9	104	0.00
8		Heptachlor Epoxide	50.000	51.144	-2.3	104	0.00
9		gamma-Chlordane	50.000	51.371	-2.7	104	0.00
10		alpha-Chlordane	50.000	47.203	5.6	95	0.00
11		Endosulfan I	50.000	51.276	-2.6	104	0.00
12		4,4'-DDE	50.000	52.328	-4.7	104	0.00
13		Dieldrin	50.000	51.555	-3.1	103	0.00
14		Endrin	50.000	52.324	-4.6	104	0.00
15		4,4'-DDD	50.000	55.135	-10.3	104	0.00
16		Endosulfan II	50.000	50.469	-0.9	103	0.00
17		4,4'-DDT	50.000	52.947	-5.9	104	0.00
18		Endrin Aldehyde	50.000	48.452	3.1	101	0.00
19		Endosulfan Sulfate	50.000	51.465	-2.9	102	0.00
20		Methoxychlor	50.000	50.224	-0.4	103	0.00
21		Endrin Ketone	50.000	51.335	-2.7	103	0.00
22	S	Decachlorobiphenyl	50.000	48.511	3.0	102	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	50.000	50.874	-1.7	103	0.00
2		alpha-BHC	50.000	51.845	-3.7	103	0.00
3		gamma-BHC	50.000	51.727	-3.5	102	0.00
4		beta-BHC	50.000	49.960	0.1	102	0.00
5		Heptachlor	50.000	51.123	-2.2	102	0.00
6		delta-BHC	50.000	52.408	-4.8	103	0.00
7		Aldrin	50.000	51.815	-3.6	102	0.00
8		Heptachlor Epoxide	50.000	48.965	2.1	98	0.00
9		gamma-Chlordane	50.000	51.342	-2.7	103	0.00
10		alpha-Chlordane	50.000	50.918	-1.8	103	0.00

(#) = Out of Range
9G16001.D 8081.M Fri May 25 08:39:40 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD1A.CH Vial: 39
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD2B.CH Vial: 39
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	50.000	50.954	-1.9	102	0.00
12		4,4'-DDE	50.000	52.078	-4.2	102	0.00
13		Dieldrin	50.000	51.930	-3.9	102	0.00
14		Endrin	50.000	53.099	-6.2	106	0.00
15		4,4'-DDD	50.000	52.772	-5.5	104	0.00
16		Endosulfan II	50.000	51.475	-3.0	103	0.00
17		4,4'-DDT	50.000	52.857	-5.7	102	0.00
18		Endrin Aldehyde	50.000	51.832	-3.7	102	0.00
19		Endosulfan Sulfate	50.000	51.971	-3.9	103	0.00
20		Methoxychlor	50.000	51.176	-2.4	103	0.00
21		Endrin Ketone	50.000	51.906	-3.8	103	0.00
22	S	Decachlorobiphenyl	50.000	49.136	1.7	102	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD1A.CH Vial: 39
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD2B.CH Vial: 39
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:39 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	3675.2E6	5315.4E6	51.810	50.874
	Spiked Amount 20.000	Range 13 - 154		Recovery =		259.05%#	254.37%#
22)	S Decachlorobiphen	15.15	14.79	1986.6E6	2443.1E6	48.511	49.136
	Spiked Amount 20.000	Range 25 - 140		Recovery =		242.56%#	245.68%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	5078.9E6	7412.3E6	53.190	51.845
3)	gamma-BHC	9.16	8.38	4488.9E6	6416.8E6	52.138	51.727
4)	beta-BHC	9.33	8.54	1910.4E6	2699.1E6	50.372	49.960
5)	Heptachlor	9.94	9.08	4032.4E6	5415.0E6	51.704	51.123
6)	delta-BHC	9.62	9.01	4388.4E6	6109.8E6	53.106	52.408
7)	Aldrin	10.41	9.58	3807.3E6	5113.6E6	52.427	51.815
8)	Heptachlor Epoxi	11.33	10.47	3378.7E6	4124.6E6	51.144	48.965
9)	gamma-Chlordane	11.52	10.75	3392.5E6	4416.1E6	51.371	51.342
10)	alpha-Chlordane	11.71	10.97	2750.8E6	4129.7E6	47.203	50.918
11)	Endosulfan I	11.91	11.04	3099.2E6	3944.7E6	51.276	50.954
12)	4,4'-DDE	11.83	11.24	3092.2E6	4120.1E6	52.328	52.078
13)	Dieldrin	12.25	11.44	3186.7E6	4216.0E6	51.555	51.930
14)	Endrin	12.57	11.88	2928.9E6	3380.6E6	52.324	53.099
15)	4,4'-DDD	12.67	12.08	2643.3E6	3239.2E6	55.135	52.772
16)	Endosulfan II	12.87	12.19	2727.7E6	3417.8E6	50.469	51.475
17)	4,4'-DDT	13.03	12.52	2724.7E6	3129.2E6	52.947	52.857
18)	Endrin Aldehyde	13.38	12.67	2138.4E6	2563.6E6	48.452	51.832
19)	Endosulfan Sulfa	13.87	13.01	1938.5E6	2534.5E6	51.465	51.971
20)	Methoxychlor	13.60	13.37	1123.4E6	1370.1E6	50.224	51.176
21)	Endrin Ketone	14.17	13.62	2481.3E6	3082.2E6	51.335	51.906

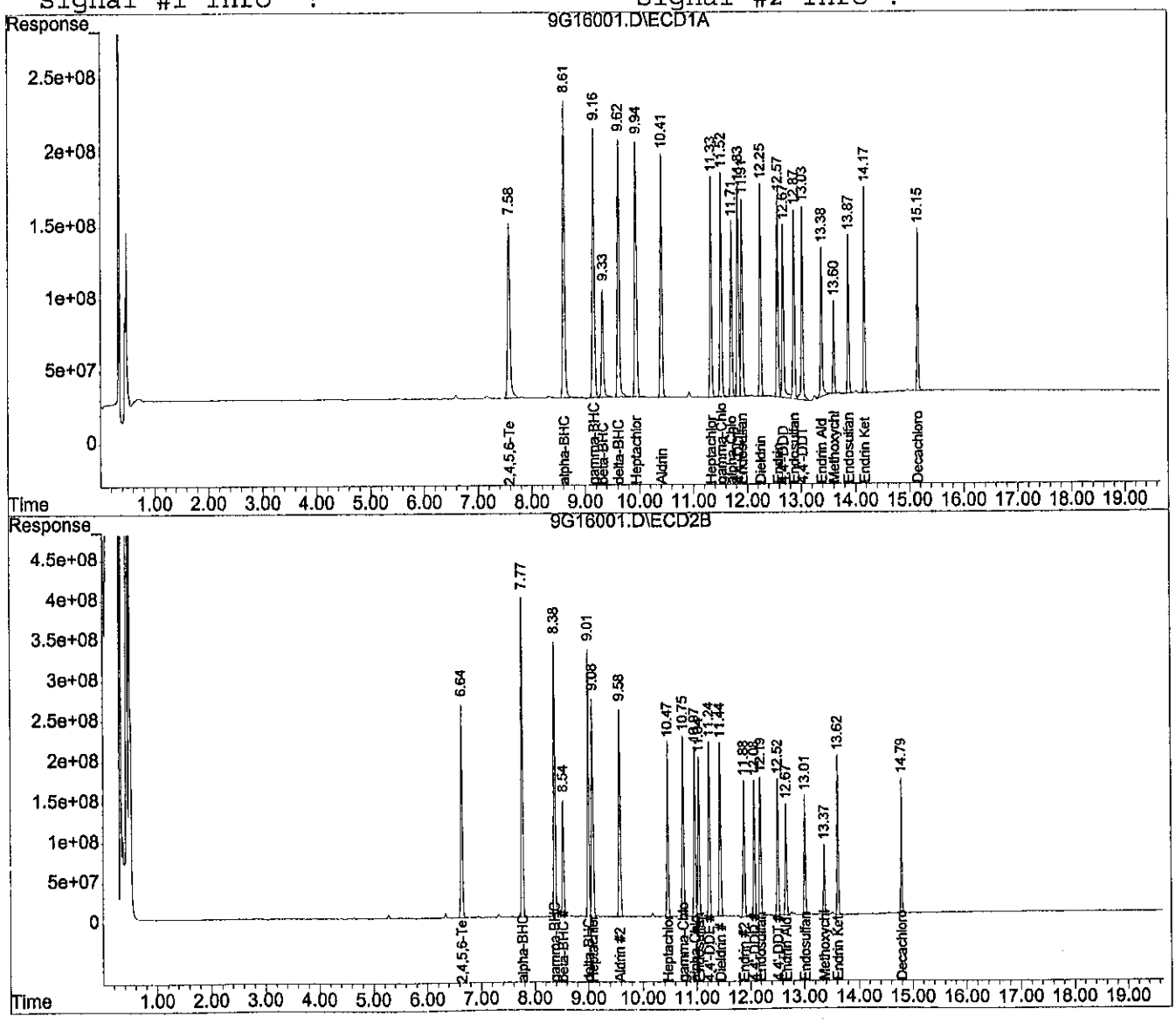
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD1A.CH Vial: 39
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16001.D\ECD2B.CH Vial: 39
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:39 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD1A.CH Vial: 40
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD2B.CH Vial: 40
Acq On : 25 May 2001 3:41 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	250.000	265.469	-6.2	111	0.00
2	L1	TOXAPHENE-2	250.000	260.473	-4.2	108	0.00
3	L1	TOXAPHENE-3	250.000	251.786	-0.7	104	0.00
4	L1	TOXAPHENE-4	250.000	251.631	-0.7	106	0.00
5	L1	TOXAPHENE-5	250.000	260.319	-4.1	108	0.00
		Signal #2					
1	L1	TOXAPHENE-1	250.000	214.469	14.2	85	0.00
2	L1	TOXAPHENE-2	250.000	241.629	3.3	101	0.00
3	L1	TOXAPHENE-3	250.000	245.415	1.8	103	0.00
4	L1	TOXAPHENE-4	250.000	238.063	4.8	102	0.00
5	L1	TOXAPHENE-5	250.000	246.632	1.3	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G16002.D TOX.M Fri May 25 08:41:22 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD1A.CH Vial: 40
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD2B.CH Vial: 40
Acq On : 25 May 2001 3:41 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:41 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.31	119.1E6	460.6E6	265.469	214.469
2)	L1 TOXAPHENE-2	13.28	12.67	129.1E6	362.4E6	260.473	241.629
3)	L1 TOXAPHENE-3	13.76	13.29	272.5E6	352.9E6	251.786	245.415
4)	L1 TOXAPHENE-4	13.95	13.35	127.2E6	220.4E6	251.631	238.063
5)	L1 TOXAPHENE-5	14.15	13.72	272.5E6	156.7E6	260.319	246.632
	Sum TOXAPHENE-1			920.4E6	1553.0E6	1289.678	1186.207
	Average TOXAPHENE-1					257.936	237.241

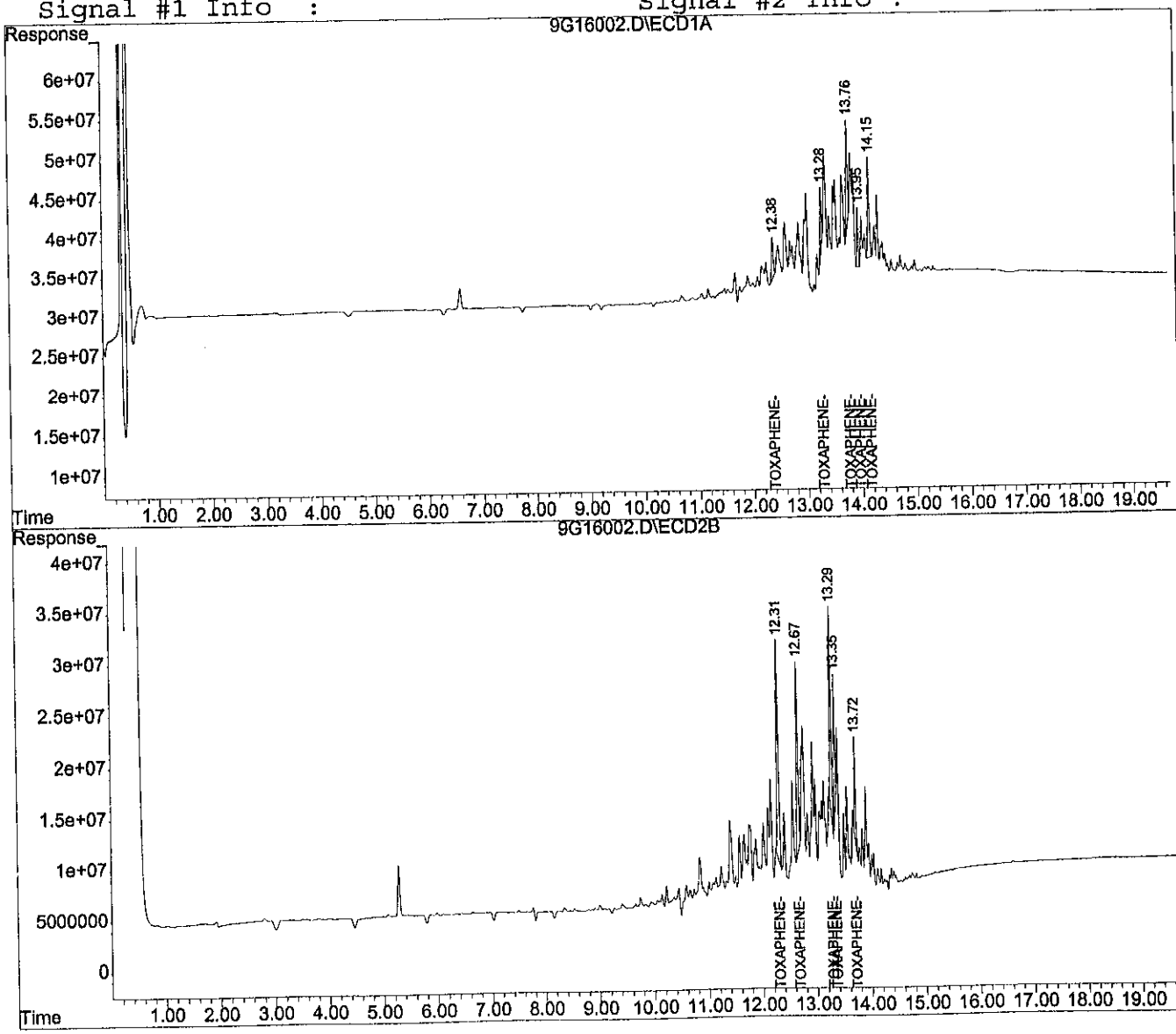
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD1A.CH Vial: 40
Acq On : 25 May 2001 3:17 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G16002.D\ECD2B.CH Vial: 40
Acq On : 25 May 2001 3:41 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:41 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-9

GC Column: RTx-CLP II

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	04/02/01	04/04/01	04/05/01
File #	9G14975	9G15000	9G15010

	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
COMPOUND				
ALPHA-BHC	8.01	8.00	8.00	0.017
GAMMA-BHC	8.62	8.62	8.61	0.017
BETA-BHC	8.77	8.77	8.76	0.017
HEPTACHLOR	9.33	9.33	9.32	0.017
DELTA-BHC	9.24	9.24	9.24	0.000
ALDRIN	9.83	9.83	9.83	0.000
HEPTACHLOR EPOXIDE	10.72	10.72	10.71	0.017
GAMMA-CHLORDANE	11.00	11.00	10.99	0.017
ALPHA-CHLORDANE	11.22	11.22	11.21	0.017
ENDOSULFAN I	11.30	11.30	11.29	0.017
4,4-DDE	11.48	11.48	11.48	0.000
DIELDRIN	11.70	11.70	11.69	0.017
ENDRIN	12.14	12.15	12.13	0.030
4,4-DDD	12.32	12.32	12.31	0.017
ENDOSULFAN II	12.45	12.45	12.44	0.017
4,4-DDT	12.74	12.75	12.74	0.017
ENDRIN ALDEHYDE	12.89	12.9	12.89	0.017
ENDOSULFAN SULFATE	13.22	13.23	13.22	0.017
METHOXYCHLOR	13.55	13.56	13.55	0.017
ENDRIN KETONE	13.81	13.81	13.81	0.000

RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-9

GC Column: RTx-CLP

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	04/02/01	04/04/01	04/05/01
File #	9G14975	9G15000	9G15010

	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
COMPOUND				
ALPHA-BHC	8.90	8.90	8.90	0.000
GAMMA-BHC	9.45	9.45	9.44	0.017
BETA-BHC	9.61	9.61	9.61	0.000
HEPTACHLOR	10.23	10.23	10.23	0.000
DELTA-BHC	9.90	9.90	9.90	0.000
ALDRIN	10.70	10.70	10.70	0.000
HEPTACHLOR EPOXIDE	11.62	11.62	11.62	0.000
GAMMA-CHLORDANE	11.81	11.81	11.80	0.017
ALPHA-CHLORDANE	12.00	12.00	12.00	0.000
ENDOSULFAN I	12.20	12.20	12.20	0.000
4,4-DDE	12.12	12.12	12.11	0.017
DIELDRIN	12.54	12.54	12.54	0.000
ENDRIN	12.85	12.85	12.84	0.017
4,4-DDD	12.93	12.93	12.93	0.000
ENDOSULFAN II	13.14	13.14	13.13	0.017
4,4-DDT	13.28	13.28	13.27	0.017
ENDRIN ALDEHYDE	13.63	13.63	13.63	0.000
ENDOSULFAN SULFATE	14.11	14.11	14.11	0.000
METHOXYCHLOR	13.83	13.83	13.82	0.017
ENDRIN KETONE	14.4	14.4	14.4	0.000

2.2.2.4 Raw QC Data

ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G15963.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2585294072	77869714	63717816	5.19 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2300440563	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G15963.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3210508651	42204375	89737368	3.95 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2810999852	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22) S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4) beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6) delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) Aldrin	0.00	0.00	0	0	N.D.	N.D.
8) Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10) alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12) 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14) Endrin	12.57	11.89	2585.3E6	3210.5E6	51.368	51.587
15) 4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16) Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17) 4,4'-DDT	13.02	12.52	2300.4E6	2811.0E6	51.355	47.906
18) Endrin Aldehyde	13.38	12.67	77869714	42204375	2.054	0.856 #
19) Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20) Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) Endrin Ketone	14.17	13.62	63717816	89737368	1.370	1.597

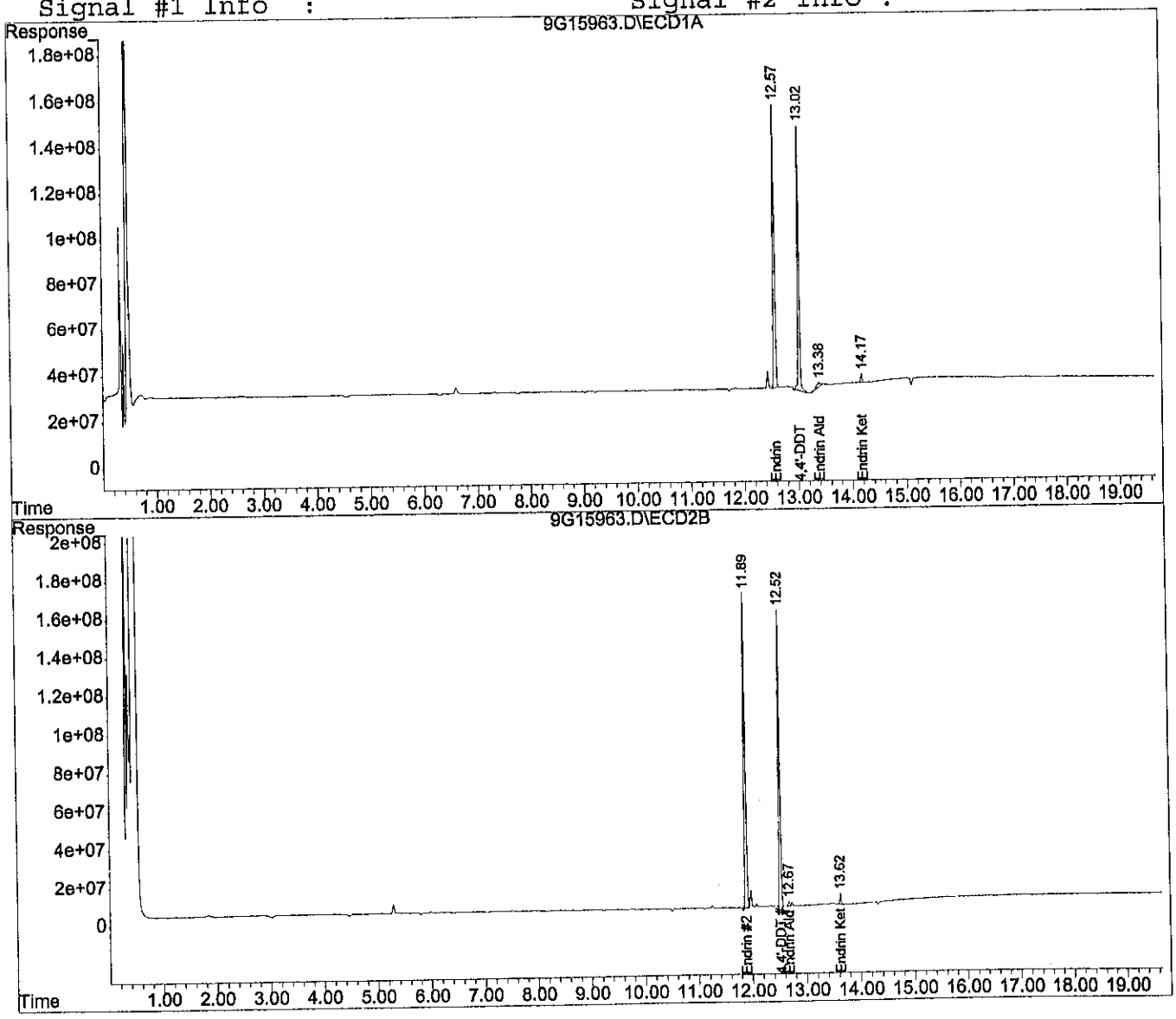
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G15987.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2723753208	91014448	77828499	5.84 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2276999400	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G15987.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3203964884	51365525	95501560	4.38 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2854400649	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052401\9G15987.D\ECD1A.CH Vial: 25
Acq On : 24 May 2001 21:14 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15987.D\ECD2B.CH Vial: 25
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:09 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.57	11.89	2723.8E6	3204.0E6	48.659	50.325
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.03	12.52	2277.0E6	2854.4E6	44.247	48.215
18)	Endrin Aldehyde	13.39	12.67	91014448	51365525	2.062	1.039 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.17	13.62	77828499	95501560	1.610	1.608

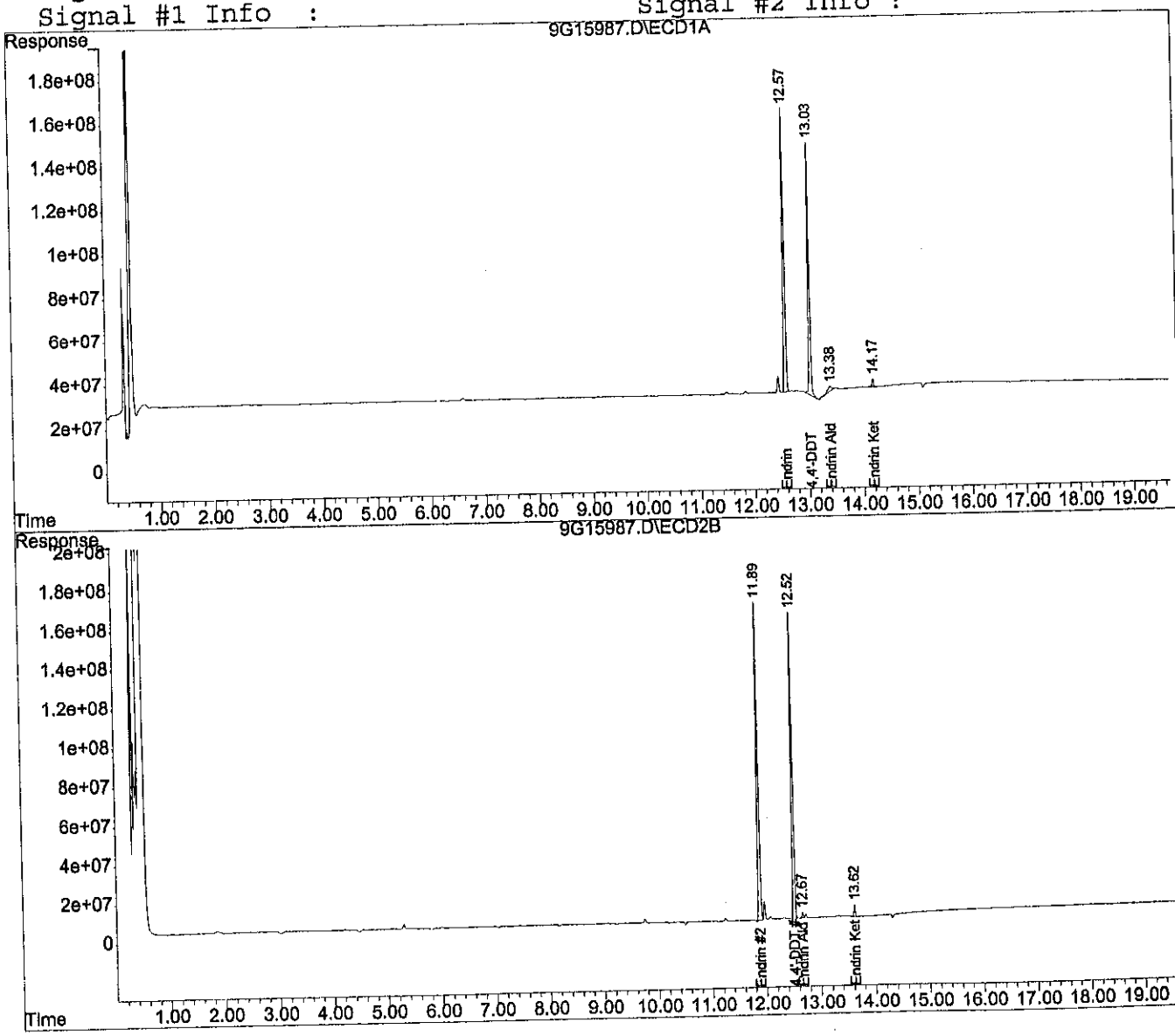
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15987.D\ECD1A.CH Vial: 25
Acq On : 24 May 2001 21:14 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15987.D\ECD2B.CH Vial: 25
Acq On : 24 May 2001 21:38 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:09 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16000.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2761855072	11239264	78995613	3.16 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2353987334	27716464	0	1.16 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16000.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3237945584	49538732	99544876	4.40 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2827280474	26999872	0	0.95 %

Data File : C:\HPCHEM\1\DATA\052401\9G16000.D\ECD1A.CH Vial: 38
Acq On : 25 May 2001 2:28 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16000.D\ECD2B.CH Vial: 38
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:38 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22) S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3) gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4) beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5) Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6) delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) Aldrin	0.00	0.00	0	0	N.D.	N.D.
8) Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9) gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10) alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12) 4,4'-DDE	11.83	11.24	27716464	26999872	0.469	0.341 #
13) Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14) Endrin	12.56	11.89	2761.9E6	3237.9E6	49.340	50.858
15) 4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16) Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17) 4,4'-DDT	13.02	12.52	2354.0E6	2827.3E6	45.743	47.757
18) Endrin Aldehyde	13.37	12.67	11239264	49538732	0.255	1.002 #
19) Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20) Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) Endrin Ketone	14.16	13.62	78995613	99544876	1.634	1.676

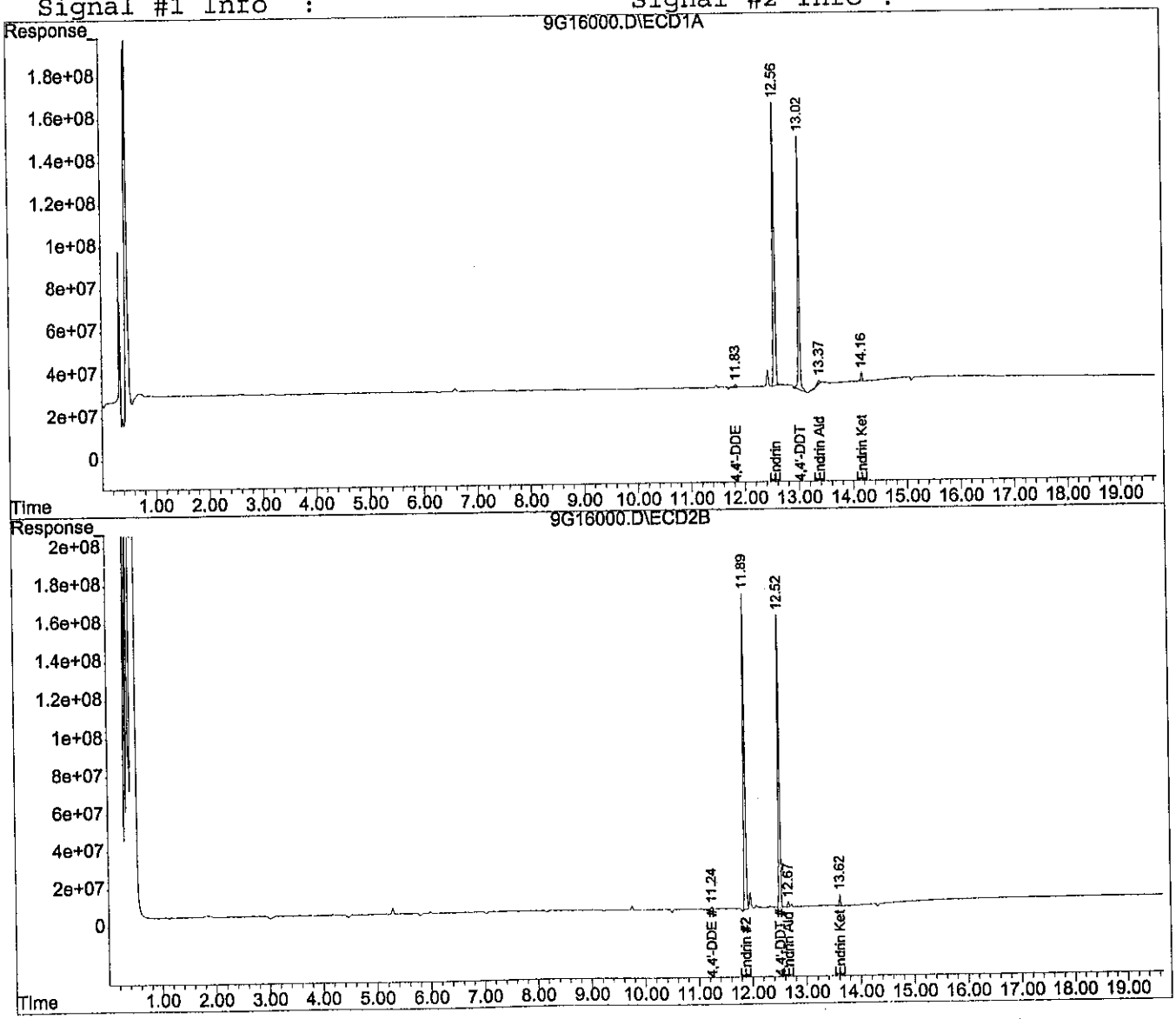
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G16000.D\ECD1A.CH Vial: 38
Acq On : 25 May 2001 2:28 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G16000.D\ECD2B.CH Vial: 38
Acq On : 25 May 2001 2:52 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:38 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15977.D\ECD1A.CH Vial: 15
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : WG97754-02 BLANK V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15977.D\ECD2B.CH Vial: 15
Acq On : 24 May 2001 17:37 Operator: ECL
Sample : WG97754-02 BLANK V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:45 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1106.3E6	1665.4E6	15.596	15.940	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		77.98%	79.70%	
22)	S Decachlorobiphen	15.15	14.79	627.8E6	901.9E6	15.330	18.139	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		76.65%	90.69%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	43695013	0	0.218	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	13.38	0.00	15825053	0	0.118	N.D.	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

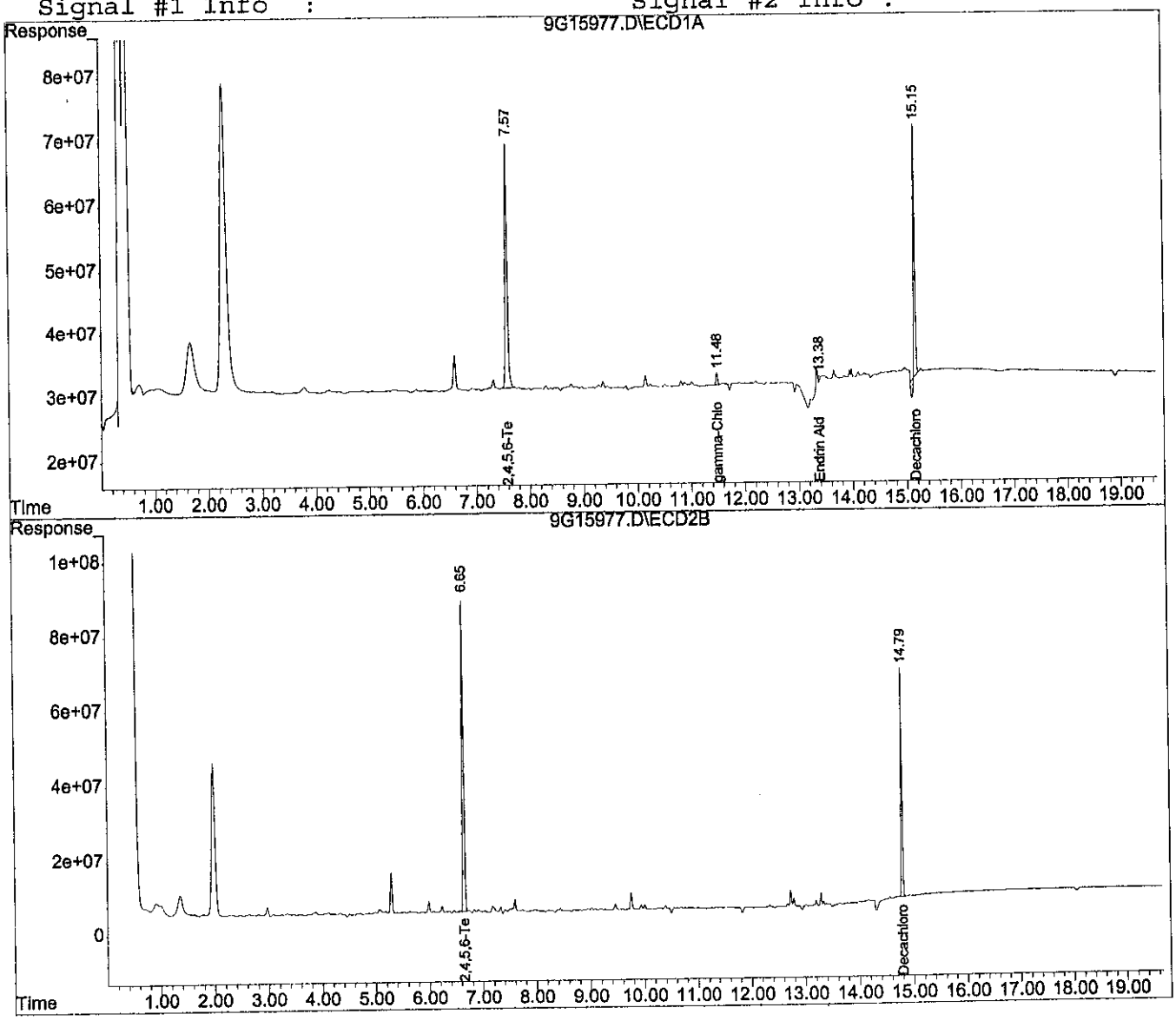
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15977.D\ECD1A.CH Vial: 15
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : WG97754-02 BLANK V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15977.D\ECD2B.CH Vial: 15
Acq On : 24 May 2001 17:37 Operator: ECL
Sample : WG97754-02 BLANK V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:45 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15992.D\ECD1A.CH Vial: 30
Acq On : 24 May 2001 23:15 Operator: ECL
Sample : WG97758-02 BLANK V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15992.D\ECD2B.CH Vial: 30
Acq On : 24 May 2001 23:39 Operator: ECL
Sample : WG97758-02 BLANK V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:55 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.58	6.64	638.7E6	1037.1E6	9.005	9.926	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		45.03%	49.63%	
22)	S Decachlorobiphen	15.16f	14.79	772.2E6	936.0E6	18.857	18.825	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		94.28%	94.12%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	64983040	0	0.010	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

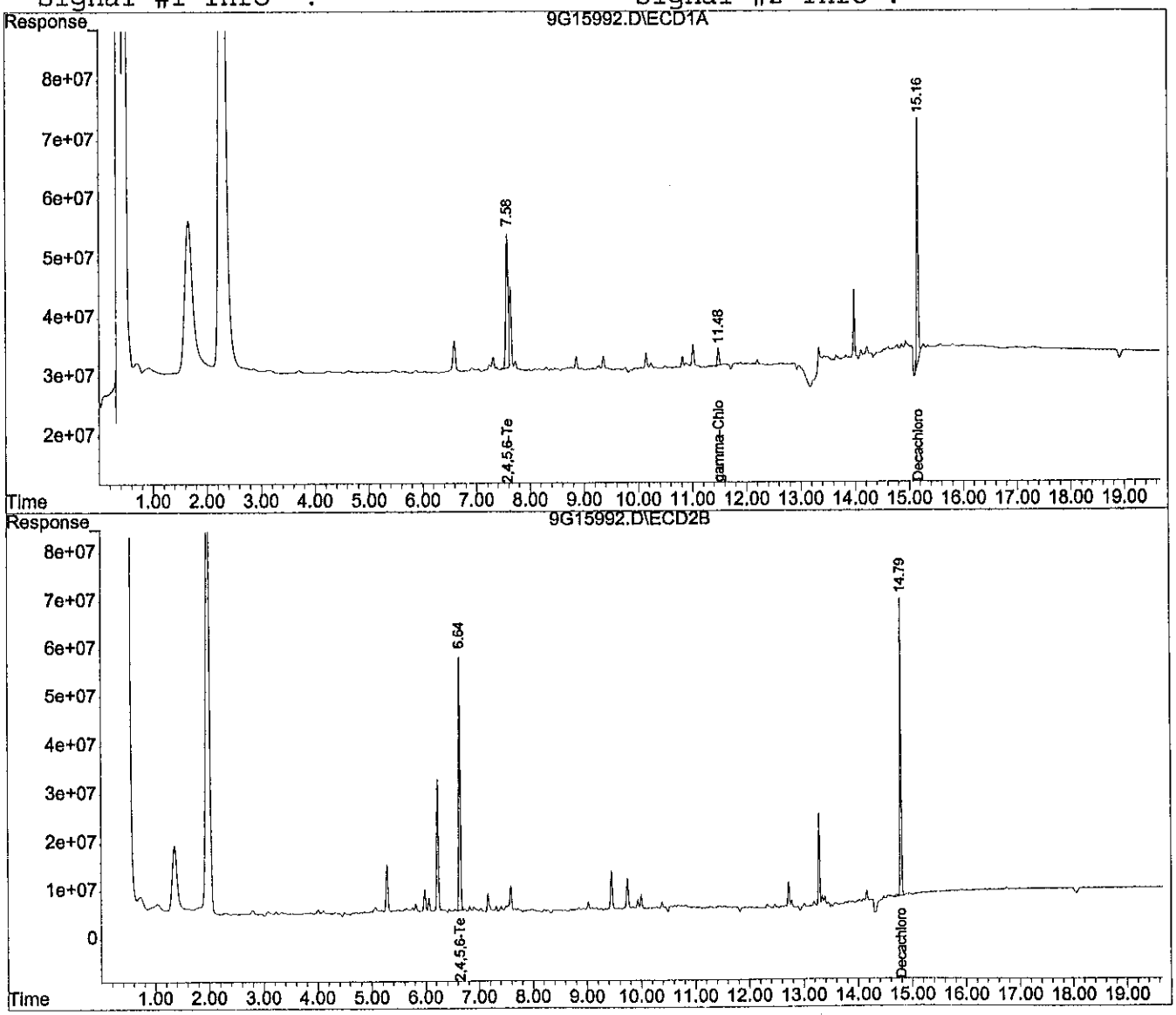
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15992.D 8081.M Fri May 25 09:11:25 2001 Page 900

Data File : C:\HPCHEM\1\DATA\052401\9G15992.D\ECD1A.CH Vial: 30
Acq On : 24 May 2001 23:15 Operator: ECL
Sample : WG97758-02 BLANK V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15992.D\ECD2B.CH Vial: 30
Acq On : 24 May 2001 23:39 Operator: ECL
Sample : WG97758-02 BLANK V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:55 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15978.D\ECD1A.CH Vial: 16
Acq On : 24 May 2001 17:37 Operator: ECL
Sample : WG97754-03 LCS V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15978.D\ECD2B.CH Vial: 16
Acq On : 24 May 2001 18:01 Operator: ECL
Sample : WG97754-03 LCS V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:46 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.58	6.65	1087.9E6	1661.8E6	15.336	15.905	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		76.68%	79.53%	
22)	S Decachlorobiphen	15.16	14.79	527.6E6	919.7E6	12.885	18.498	#
	Spiked Amount 20.000	Range 25 - 140		Recovery =		64.42%	92.49%	
	Target Compounds							
2)	alpha-BHC	8.61	7.77	4150.0E6	6216.5E6	14.342	14.349	
3)	gamma-BHC	9.16	8.38	3811.1E6	5380.5E6	14.608	14.313	
4)	beta-BHC	9.33	8.54	1659.7E6	2326.6E6	14.442	14.211	
5)	Heptachlor	9.94	9.08	3479.5E6	4713.6E6	14.723	14.685	
6)	delta-BHC	9.61	9.01	3535.8E6	5219.7E6	14.120	14.775	
7)	Aldrin	10.41	9.58	3024.3E6	4135.3E6	13.743	13.827	
8)	Heptachlor Epoxi	11.33	10.47	2996.3E6	3838.1E6	14.967	15.036	
9)	gamma-Chlordane	11.52	10.75	3042.4E6	3892.5E6	15.203	14.934	
10)	alpha-Chlordane	11.71	10.97	2666.5E6	3668.4E6	15.100	14.926	
11)	Endosulfan I	11.91	11.05	2114.8E6	2774.4E6	11.547	11.826	
12)	4,4'-DDE	11.83	11.24	2807.3E6	3669.0E6	15.677	15.304	
13)	Dieldrin	12.25	11.45	2886.1E6	3748.0E6	15.408	15.235	
14)	Endrin	12.58	11.89	2657.6E6	3007.7E6	15.667	15.590	
15)	4,4'-DDD	12.67	12.08	2377.7E6	2867.1E6	16.367	15.414	
16)	Endosulfan II	12.87	12.20	1806.5E6	2245.8E6	11.030	11.162	
17)	4,4'-DDT	13.03	12.52	2484.5E6	2753.0E6	15.932	15.346	
18)	Endrin Aldehyde	13.38	12.67	1463.2E6	1410.6E6	10.941	9.412	
19)	Endosulfan Sulfa	13.88	13.02	1362.5E6	1716.9E6	11.938	11.618	
20)	Methoxychlor	13.61	13.37	1181.2E6	1312.1E6	17.426	16.174	
21)	Endrin Ketone	14.17	13.62	1826.3E6	2156.2E6	12.469	11.983	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G15978.D 8081.M Fri May 25 09:09:55 2001 Page 1

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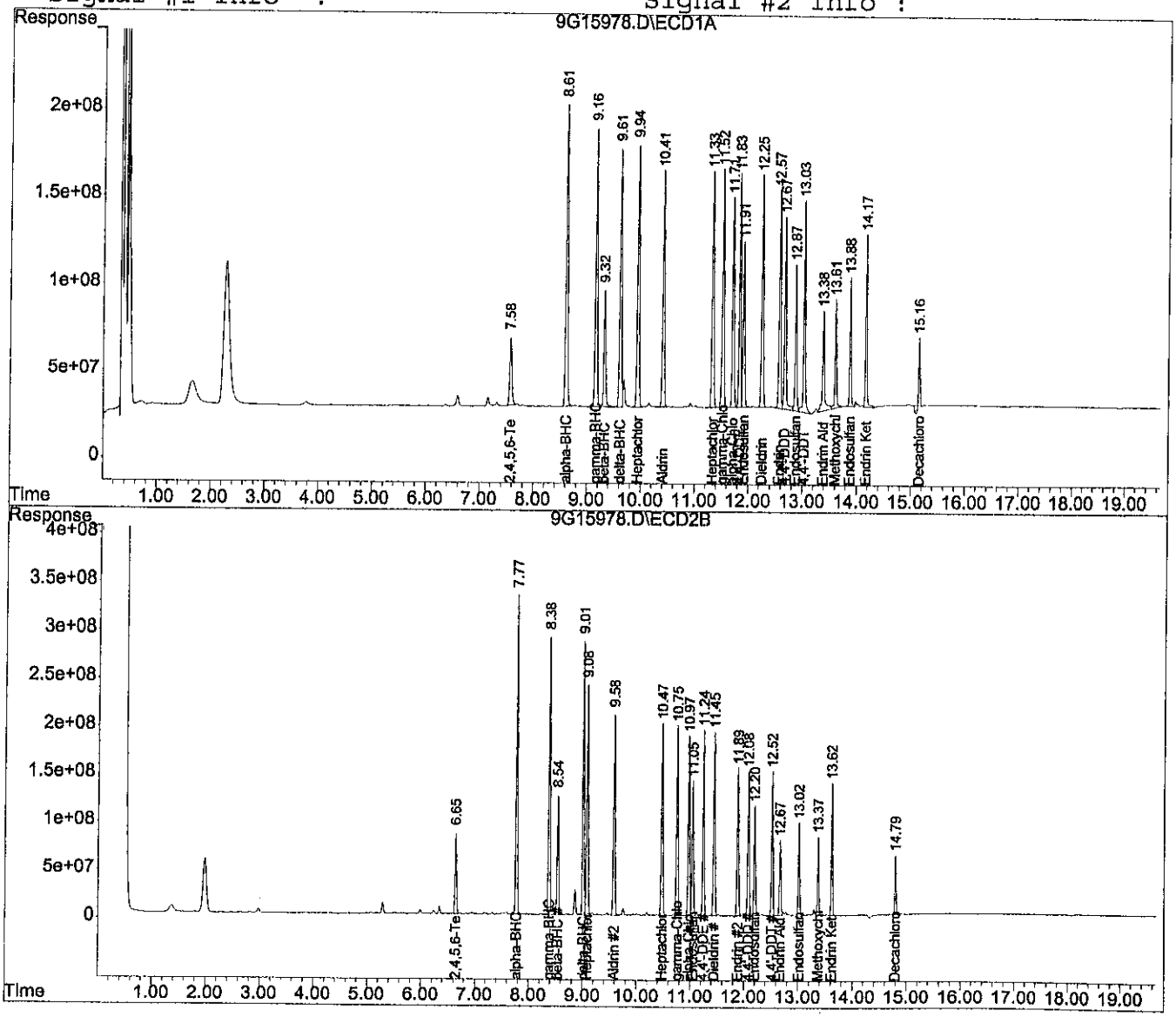
Data File : C:\HPCHEM\1\DATA\052401\9G15978.D\ECD1A.CH Vial: 16
Acq On : 24 May 2001 17:37 Operator: ECL
Sample : WG97754-03 LCS V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15978.D\ECD2B.CH Vial: 16
Acq On : 24 May 2001 18:01 Operator: ECL
Sample : WG97754-03 LCS V163 P145 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 25 8:46 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15993.D\ECD1A.CH Vial: 31
Acq On : 24 May 2001 23:39 Operator: ECL
Sample : WG97758-03 LCS V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15993.D\ECD2B.CH Vial: 31
Acq On : 25 May 2001 00:03 Operator: ECL
Sample : WG97758-03 LCS V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	715.4E6	1156.5E6	10.086	11.069
	Spiked Amount 20.000	Range 13 - 154		Recovery =		50.43%	55.34%
22)	S Decachlorobiphen	15.15	14.79	979.5E6	1147.9E6	23.920	23.087
	Spiked Amount 20.000	Range 25 - 140		Recovery =		119.60%	115.44%
	Target Compounds						
2)	alpha-BHC	8.60	7.77	4689.9E6	6924.0E6	0.491	0.484
3)	gamma-BHC	9.15	8.37	4541.9E6	6282.0E6	0.528	0.506
4)	beta-BHC	9.32	8.53	2138.0E6	2958.1E6	0.564	0.548
5)	Heptachlor	9.93	9.08	3331.3E6	4529.9E6	0.427	0.428
6)	delta-BHC	9.61	9.00	4768.0E6	6863.6E6	0.577	0.589
7)	Aldrin	10.40	9.58	2971.7E6	4027.0E6	0.409	0.408
8)	Heptachlor Epoxi	11.32	10.46	3785.6E6	4807.3E6	0.573	0.571
9)	gamma-Chlordane	11.51	10.75	3703.5E6	4777.5E6	0.561	0.555
10)	alpha-Chlordane	11.70	10.96	3281.4E6	4565.1E6	0.563	0.563
11)	Endosulfan I	11.90	11.04	2732.7E6	3523.4E6	0.452	0.455
12)	4,4'-DDE	11.83	11.24	3513.7E6	4598.7E6	0.595	0.581
13)	Dieldrin	12.25	11.44	3762.3E6	4874.8E6	0.609	0.600
14)	Endrin	12.57	11.88	3420.5E6	4003.4E6	0.611	0.629
15)	4,4'-DDD	12.67	12.07	2985.4E6	3852.2E6	0.623	0.628
16)	Endosulfan II	12.87	12.19	2227.0E6	2942.0E6	0.412	0.443
17)	4,4'-DDT	13.02	12.51	3038.6E6	3619.2E6	0.590	0.611
18)	Endrin Aldehyde	13.38	12.66	1605.6E6	1824.9E6	0.364	0.369
19)	Endosulfan Sulfa	13.87	13.01	1839.0E6	2193.2E6	0.488	0.450
20)	Methoxychlor	13.60	13.37	1421.3E6	1761.5E6	0.635	0.658
21)	Endrin Ketone	14.17	13.61	2386.7E6	2883.6E6	0.494	0.486

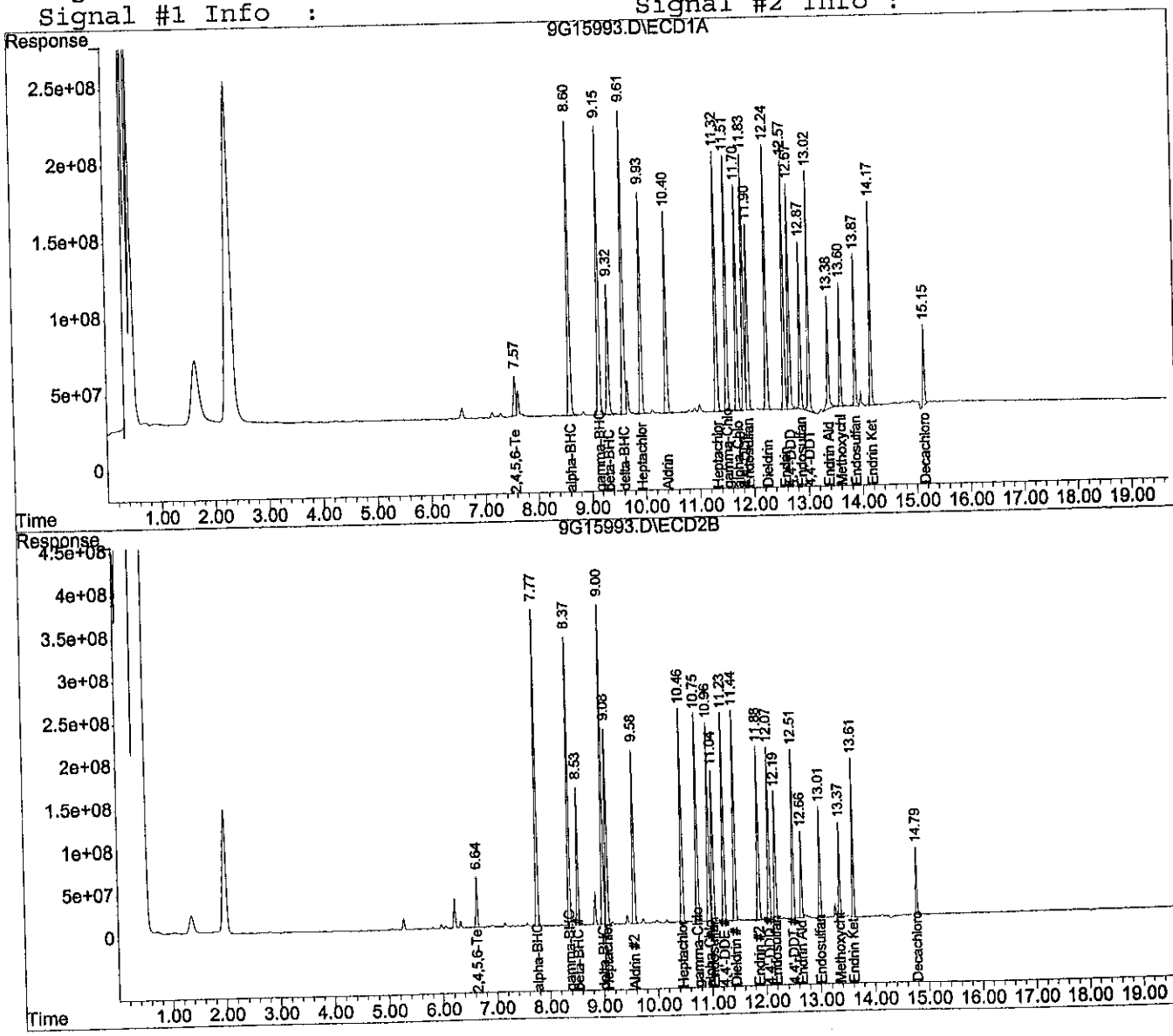
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15993.D\ECD1A.CH Vial: 31
Acq On : 24 May 2001 23:39 Operator: ECL
Sample : WG97758-03 LCS V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15993.D\ECD2B.CH Vial: 31
Acq On : 25 May 2001 00:03 Operator: ECL
Sample : WG97758-03 LCS V163 P139 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 25 8:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP Front Data Subdirectory 052401

Analyst Initials EDL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G159603	ENDRIN/DDT	NA	SV52-34		✓
604	TOX ICAL 2.0 PPM		SV51-06		
605	1.0 PPM				
606	0.5 PPM				
607	0.25 PPM				
608	0.1 PPM				✓
609	TOX ALT ICV 0.5 PPM		SV51-07		✓
610	WG98218-01 PEST ICAL 200 PPB		SV53-16		
611	-02 100 PPB				
612	-03 50 PPB				
613	-04 20 PPB				
614	-05 10 PPB				
615	-06 4 PPB				✓
616	-07 PEST ALT ICV 20 PPB		SOS54-11		✓
617	WG97754-02 BLANK V1b3 P145				
618	-03 LCS V1b3 P145				
619	L0105404-01				
620	WG97754-01 L0105404-02				
621	-04 -03 MS				
622	-05 -04 MSD				
623	L0105404-05				
624	-06				
625	-07				
626	-08				
627	ENDRIN/DDT		SV52-34		
628	WG98218-08 PEST CCV 20 PPB		SV53-16		
629	TOX CCV 0.5 PPM		SV51-06		
630	L0105404-09				
631	-10				
632	WG97758-02 BLANK V1b3 P139				
633	-03 LCS V1b3 P139				
634	L0105404-11				
635	L0105373-01				
636	WG97758-04 L0105373-01 MS				✓

Reviewed By: EC 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP Data Subdirectory 052401

Analyst Initials EC1

Front

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G15997	WG97758-05 L0105373-01 MSD	NA			✓
98	L0106373-02				
99	" -03				
9G16000	ENDRIN/DDT		SV52-34		
01	WG98218-09 PEST CCV 50 PPB		SV53-16		
02	TOX CCV 0.25 PPM		SV51-06		
03	L0105373-05				
04	WG97640-02 BLANK V1603 P121				
05	" -03 LCS V1603 P121				
06	" -04 TOX LCS V1603 P121				
07	" -01 L0105382-01				
08	" -05 " -01 MS				
09	" -06 " -01 MSD				
10	L0105382-02				
11	" -03				
12	" -04				
13	WG98218-10 PEST CCV 20 PPB		SV03-16		
14	TOX CCV 0.5 PPM		SV51-06		
15	L0105382-05				
16	" -06				✓
17	ENDRIN/DDT		SV52-34		✓
18	WG98218-11 PEST CCV 50 PPB		SV53-16		✓
19	TOX CCV 0.25 PPM		SV51-06		✓
	CAB 5-25-01				

Reviewed By: EC2 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP Data Subdirectory 052401

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP I Rear Data Subdirectory 052401

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G159G3	ENDRIN/DDT	N/A	SV52-34		✓
64	TOX ICAL 2.0 PPM		SV51-06		
65	1.0 PPM				
66	0.5 PPM				
67	0.25 PPM				
68	0.1 PPM				✓
69	TOX ALT ICV 0.5 PPM		SV51-07		✓
70	WG98218-01 PEST ICAL 200 PPB		SV53-16		
71	-02 PEST ICAL 100 PPB				
72	-03 50 PPB				
73	-04 20 PPB				
74	-05 10 PPB				
75	-06 4 PPB				✓
76	-07 PEST ALT ICV 20 PPB		SoS 54-1		✓
77	WG97754-02 BLANK V1G3 P145				
78	-03 LCS V1G3 P145				
79	L0105404-01				
80	WG97754-01 L0105404-02				
81	-04 L0105404-03 MS				
82	-05 -04 MSD				
83	L0105404-05				
84	-06				
85	-07				
86	-08				✓
87	ENDRIN/DDT		SV52-34		✓
88	WG98218-08 PEST CCV 20 PPB		SV53-16		✓
89	TOX CCV 0.5 PPM		SV51-04		
90	L0105404-09				
91	~~WG98~~ -10				
92	WG97758-02 BLANK V1G3 P139				
93	-03 LCS V1G3 P139				
94	L0105404-11				
95	L0105373-01				
96	WG97758-04 L0105373-01 MS				✓

Reviewed By: ECL 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP II Data Subdirectory 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP 9 Column ID RTX-CLP II Data Subdirectory 052401

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9615997	WG97758-05 L0105373-01 MSD	NA			✓
98	L0105373-02				
99	↓ -03				
9616000 CAB 5-25-01	ENDRIN/DDT		SV52-34		
01	WG98218-09 PEST CCV 50 PPB		SV53-16		
02	TOX CCV 0.25 PPM		SV51-06		
03	L0105373-05				
04	WG97640-02 BLANK V1103 P121				
05	-03 LCS V1103 P121				
06	-04 TOX LCS V1103 P121				
07	-01 L0105382-01				
08	-05 -01 MS				
09	-06 -01 MSD				
10	L0105382-02				
11	-03				
12	-04				
13	WG98218-10 PEST CCV 20 PPB		SV53-16		
14	TOX CCV 0.5 PPM		SV51-06		
15	L0105382-05				
16	↓ -06				✓
17	ENDRIN/DDT		SV52-34		✓
18	WG98218-11 PEST CCV 50 PPB		SV53-16		✓
19	TOX CCV 0.25 PPM	↓	SV51-06		✓

CAB 5-25-01

Reviewed By: ECL 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLPII Data Subdirectory 052401

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 5/25/01

Volume 163
Page 145

Parameter: Pest-S SOP #: EXP02 Revision #: 10
Extraction Analyst(s): TM TV/KD Analyst(s): TM
Date/Time Extracted: 5/21/01 10:20 Date TV/KD: 5/21/01
Spike/Surrogate Analyst: TM Witness: BH
Surrogate #: ES5003?-14 Earliest Hold Date: 5/31/01
Spike #: A = ES5003S-19 Spike #: B = —

Extraction Work Group WG 97754
Analytical Work Group WG 97881

Extract Relinquished By: PM
Extract Received By & Date: [illegible] 5/22/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					30.03g	200µl		10ml	T				WG97754-02
2	LCS					.08		250µl						WG -03
5/25 3	25-404-01	8081				.01								
4	-02					.02								WG 97754-01
5	-03MS					.08		250µl						* WG -04
6	-04MSD					.02		⊥						* WG -05
7	-05					.03								
8	-06					.06								
9	-07					.07								
10	-08					.03								
11	-09					.04								
12	-10					.05								
13														
14														
15														
16														
17														
18														
19														
20														
21							5/21/01							
22														
23														
24														

Methylene Chloride Lot #: —
Hexane Lot #: 41053
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 9416 Lot #: ER1729
Reagent: 50:50 Lot #: ER1706
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: T49556
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1705

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/22/01

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Extraction Notes For Volume # 163 Page # 145

General Comments: # MS of 05-404-02
MSD of 1

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

915

Parameter: PEST-H2O SOP #: EXP01 Revision #: 9
Extraction Analyst(s): JW, DP TV/KD Analyst(s): DP, JW
Date/Time Extracted: 5-21-01 11:30 Date TV/KD: 5-21-01
Spike/Surrogate Analyst: JW / DP Witness: DP / JW
Surrogate #: ESS0037-1A Earliest Hold Date: 5/21/01
Spike #: A = ESS0035-19 Spike #: B = ——

Extraction Work Group WG 97758
Analytical Work Group WG 97874
Extract Relinquished By: JW
Extract Received By & Date: EC 5/21/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	200ul		10ml	T				WG 97758-02
2	LCS			✓		1		250ul						WG -03
5/28 3	05-373-01	8081-SPE		✓		940ml								-01
4	-01MS			✓		480ml		250ul						-04
5	-01MSD			✓		1		1						-05
6	-02			✓		910ml								
7	-03			✓		940ml								
8	-05	1		✓										
5/25 9	~~05-404~~ -11	8081		✓										
10	JW 5-21-01													
11														
12														
13														
14														
15														
16														
17														
18						JW 5-21-01								
19														
20														
21														
22														
23														
24														

Methylene Chloride Lot #: 41016
Hexane Lot #: 41053
Ether Lot #: ——
Methanol Lot #: ——
Solvent: —— Lot #: ——
Reagent: —— Lot #: ——
Reagent: 9:1 Lot #: ER1729
Reagent: 50:50 Lot #: ER1706
Acid: —— Lot #: ——
Florisil Lot #: T49556
Silica Gel Lot #: ——
IR Analyst / Date / Time: ——
Dried Na_2SO_4 Lot #: ER1653

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/21/01

Extraction Notes For Volume # 163 Page # 139

General Comments: Nothing to report.

Extraction Anomalies: Nothing to report.

Concentration Anomalies: Nothing to report.

Clean-Up Anomalies: Nothing to report.

Supervisor Review: _____ Date: _____

Example 8081 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.3 PCB GC Data (8082)

REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with work group WG97876 yielded % recoveries for both aroclor 1016 and aroclor 1260 that were above the acceptable limits. There were no positive results in samples associated with this LCS. All other acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: ECL__ REVIEWED: Stephanie L Sepe DATE: 6/4/01

Date: 5/22/01
Analyst: ECL
Method: 8082
Instrument: HP4
Work Group:

WG 97878
97876
97882

	Analyst
System Performance Check	NA
Endrin & DDT Breakdown	NA
Initial Calibration	↓
Average RF	↓
Linear Reg or Higher Order Curve	↓
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	✓
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	NA
Reruns	↓
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	NA
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 5/23/01

Secondary Reviewer Initials & Date Checked DR 5/24/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked DR 5/24/01

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

PCB-GC DATA (8082)

Login Number: 05-404

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: EC2 Date: 5/24/01

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , FRONT

		INSTRUMENT : HP4			**SMPL ID :** NA
EXT'N DATE : 5/21/01		**ANALYST :** ECL	**BLK FLNM :** 4GF7252		**SMPL FLNM :** NA
EXT'N BENCH SHT : V163 P141		**RUN DATE :** 5/22/01	**LCS FLNM :** 4GF7253		**MS FLNM :** NA
EXT'N WORK GRP : WG97759		**ANAL WORK GRP :** WG97876			**MSD FLNM :** NA

		CONCENTRATION , ug/L					% RECOVERY									PERCENT					
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	3.34	ND	NA	NA	NA	134	39	113	NA	NA	NA	39	113	NA	0-46		H			
AROCLOR 1221	0.5	ND	NA	ND	NA	NA	NA	NA	15	175	NA	NA	NA	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NA	ND	NA	NA	NA	NA	15	210	NA	NA	NA	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NA	ND	NA	NA	NA	NA	35	154	NA	NA	NA	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	NA	ND	NA	NA	NA	NA	34	116	NA	NA	NA	34	116	NA	0-31					
AROCLOR 1254	0.5	ND	NA	ND	NA	NA	NA	NA	25	135	NA	NA	NA	25	135	NA	0-38					
AROCLOR 1260	0.5	ND	3.75	ND	NA	NA	NA	150	44	129	NA	NA	NA	44	129	NA	0-41		H			
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		10.4	15.0	NA	NA	NA	52.2	74.8	13	154	NA	NA	NA	13	154							
DECACHLOROBIPHENYL		18.4	23.2	NA	NA	NA	92.0	116	25	140	NA	NA	NA	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB SOILS , FRONT

	INSTRUMENT : HP4		SMPL ID : L0105404-02
EXT'N DATE : 5/21/01	ANALYST : ECL	BLK FLNM : 4GF7239	SMPL FLNM : 4GF7242
EXT'N BENCH SHT : V163 P147	RUN DATE : 5/22/01	LCS FLNM : 4GF7240	MS FLNM : 4GF7243
EXT'N WORK GRP : WG97755	ANAL WORK GRP : WG97878		MSD FLNM : 4GF7244

		CONCENTRATION , ug/Kg					% RECOVERY								PERCENT						
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	17.0	ND	84.0	ND	76.7	91.9	NA	101	10	241	NA	92.1	110	10	241	18.0	0-49					
AROCLOR 1221	17.0	ND	NA	ND	NA	NA	NA	NA	10	180	NA	NA	NA	10	180	NA	0-39					
AROCLOR 1232	17.0	ND	NA	ND	NA	NA	NA	NA	11	205	NA	NA	NA	11	205	NA	0-36					
AROCLOR 1242	17.0	ND	NA	ND	NA	NA	NA	NA	30	165	NA	NA	NA	30	165	NA	0-37					
AROCLOR 1248	17.0	ND	NA	ND	NA	NA	NA	NA	31	175	NA	NA	NA	31	175	NA	0-39					
AROCLOR 1254	17.0	ND	NA	ND	NA	NA	NA	NA	22	149	NA	NA	NA	22	149	NA	0-37					
AROCLOR 1260	17.0	ND	80.6	ND	108	87.3	NA	96.8	10	272	NA	130	105	10	272	21.3	0-62					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		11.3	16.1	18.2	14.1	16.6	56.7	80.3	29	133	90.8	70.3	83.1	29	133							
DECACHLOROBIPHENYL		13.0	18.8	18.5	14.6	16.7	65.0	94.0	30	173	82.4	72.9	83.3	30	173							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 83.3 ug/kg
SURROGATES spiked at 20 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

2.2.3.2 Sample Data

Data File : C:\HPCHEM\2\DATA\052201\4GF7241.D Vial: 4
Acq On : 22 May 2001 12:48 Operator: ECL
Sample : L0105404-01 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

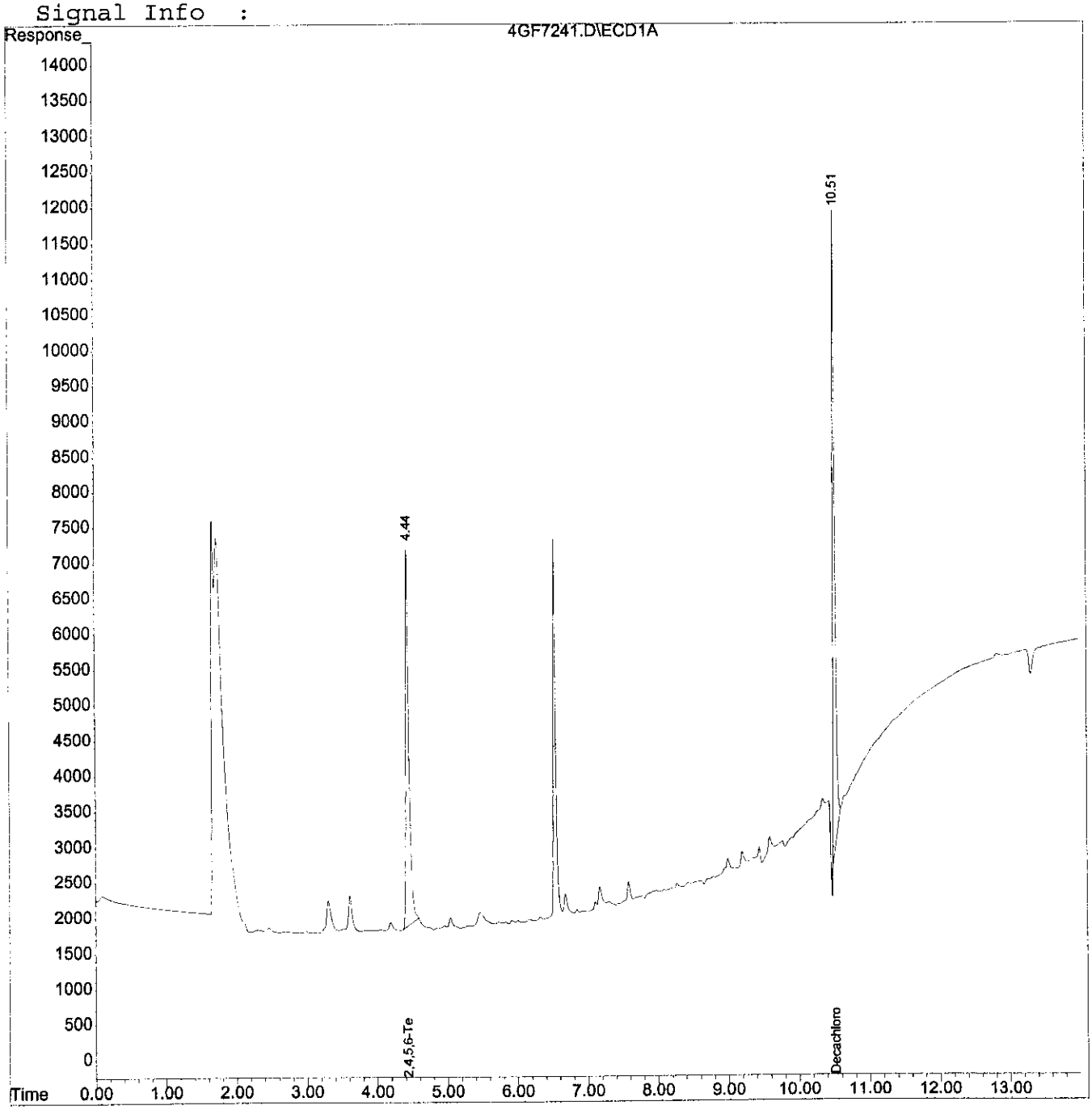
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.44	168129	16.629 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	83.14%
12) S Decachlorobiphenyl	10.52	188420	17.301 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	86.50%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7241.D Vial: 4
Acq On : 22 May 2001 12:48 Operator: ECL
Sample : L0105404-01 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7242.D Vial: 5
Acq On : 22 May 2001 13:06 Operator: ECL
Sample : WG97755-01 L0105404-02 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:31 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.45	183589	18.159 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	90.79%
12) S Decachlorobiphenyl	10.53	179442	16.477 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	82.38%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	8.71	56775	30.317 UG/L
9) L2 Aroclor-1260 (3)	8.71f	56775	107.086 UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		113549	137.403 UG/L
Average Aroclor-1260 (1)			68.702 UG/L

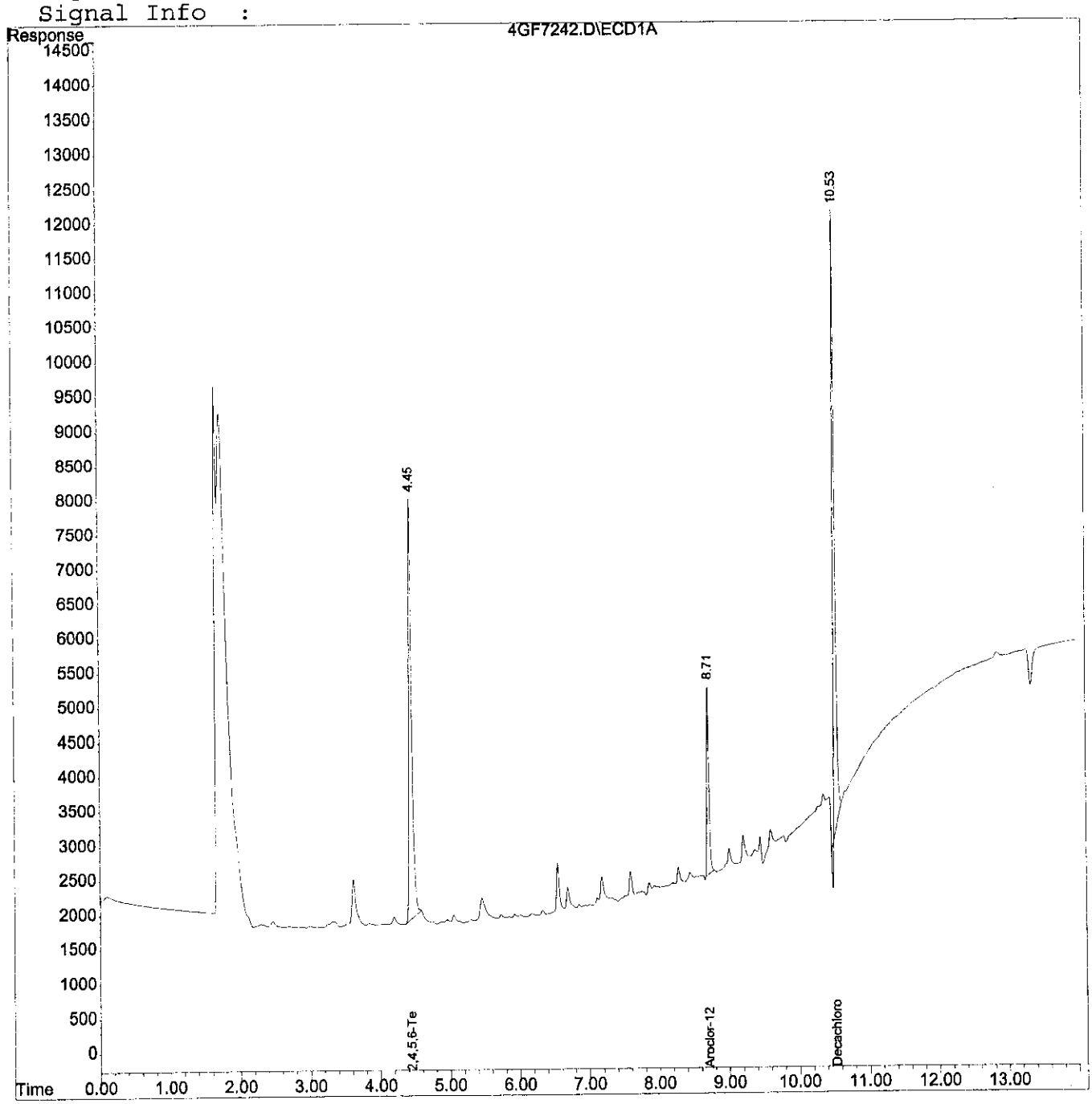
(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7242.D 1660F.M Wed May 23 11:38:42 2001 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7242.D
Acq On : 22 May 2001 13:06
Sample : WG97755-01 L0105404-02
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:31 2001 Quant Results File: 1660F.RES

Vial: 5
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7243.D Vial: 6
Acq On : 22 May 2001 13:24 Operator: ECL
Sample : WG97755-04 L0105404-03 MS Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.45	142048	14.050 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	70.25%
12) S Decachlorobiphenyl	10.53	158797	14.581 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	72.91%
Target Compounds			
2) L1 Aroclor-1016 (1)	5.04	38888	73.671 UG/L
3) L1 Aroclor-1016 (2)	5.56	104486	80.330 UG/L
4) L1 Aroclor-1016 (3)	5.84	54205	71.429 UG/L
5) L1 Aroclor-1016 (4)	6.19	155472	76.826 UG/L
6) L1 Aroclor-1016 (5)	6.36	46785	81.362 UG/L
Sum Aroclor-1016 (1)		399835	383.619 UG/L
Average Aroclor-1016 (1)			76.724 UG/L
7) L2 Aroclor-1260 (1)	8.15	102040	80.910 UG/L
8) L2 Aroclor-1260 (2)	8.71	484987	258.977 UG/L
9) L2 Aroclor-1260 (3)	8.79	33837	63.822 UG/L
10) L2 Aroclor-1260 (4)	9.29	202724	70.578 UG/L
11) L2 Aroclor-1260 (5)	10.10	69904	65.945 UG/L
Sum Aroclor-1260 (1)		893492	540.232 UG/L
Average Aroclor-1260 (1)			108.046 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7243.D 1660F.M Wed May 23 11:38:45 2001 Page 1

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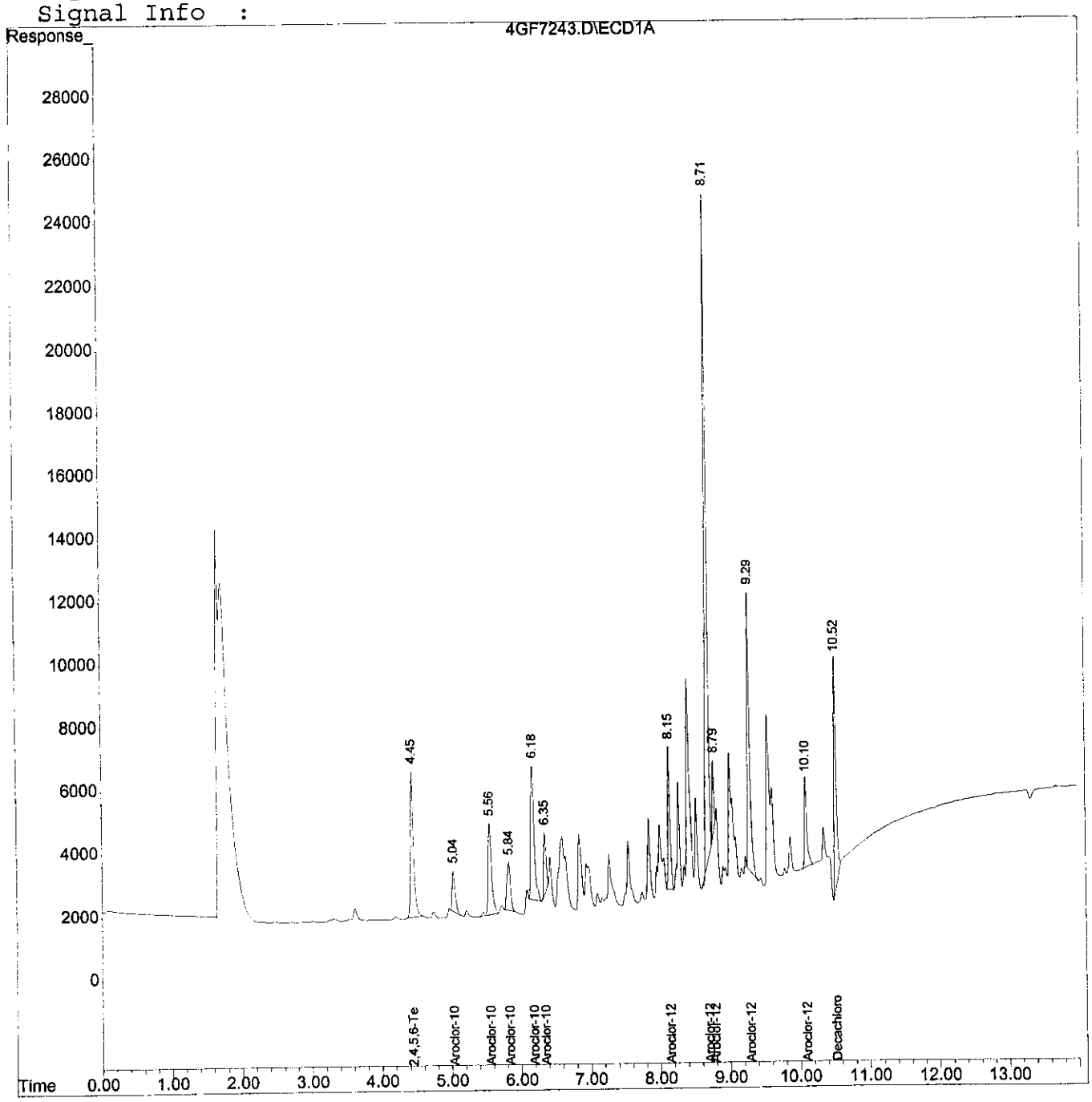
Data File : C:\HPCHEM\2\DATA\052201\4GF7243.D
Acq On : 22 May 2001 13:24
Sample : WG97755-04 L0105404-03 MS
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Vial: 6
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7244.D Vial: 7
Acq On : 22 May 2001 13:42 Operator: ECL
Sample : WG97755-05 L0105404-04 MSD Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.45	168006	16.617 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	83.09%
12) S Decachlorobiphenyl	10.51	181514	16.667 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	83.34%
Target Compounds			
2) L1 Aroclor-1016 (1)	5.04	45924	87.002 UG/L
3) L1 Aroclor-1016 (2)	5.56	124465	95.690 UG/L
4) L1 Aroclor-1016 (3)	5.84	64270	84.693 UG/L
5) L1 Aroclor-1016 (4)	6.18	185339	91.586 UG/L
6) L1 Aroclor-1016 (5)	6.35	57678	100.305 UG/L
Sum Aroclor-1016 (1)		477676	459.275 UG/L
Average Aroclor-1016 (1)			91.855 UG/L
7) L2 Aroclor-1260 (1)	8.14	120592	95.620 UG/L
8) L2 Aroclor-1260 (2)	8.67	190465	101.706 UG/L
9) L2 Aroclor-1260 (3)	8.78	43770	82.557 UG/L
10) L2 Aroclor-1260 (4)	9.28	237313	82.621 UG/L
11) L2 Aroclor-1260 (5)	10.09	78230	73.799 UG/L
Sum Aroclor-1260 (1)		670370	436.303 UG/L
Average Aroclor-1260 (1)			87.261 UG/L

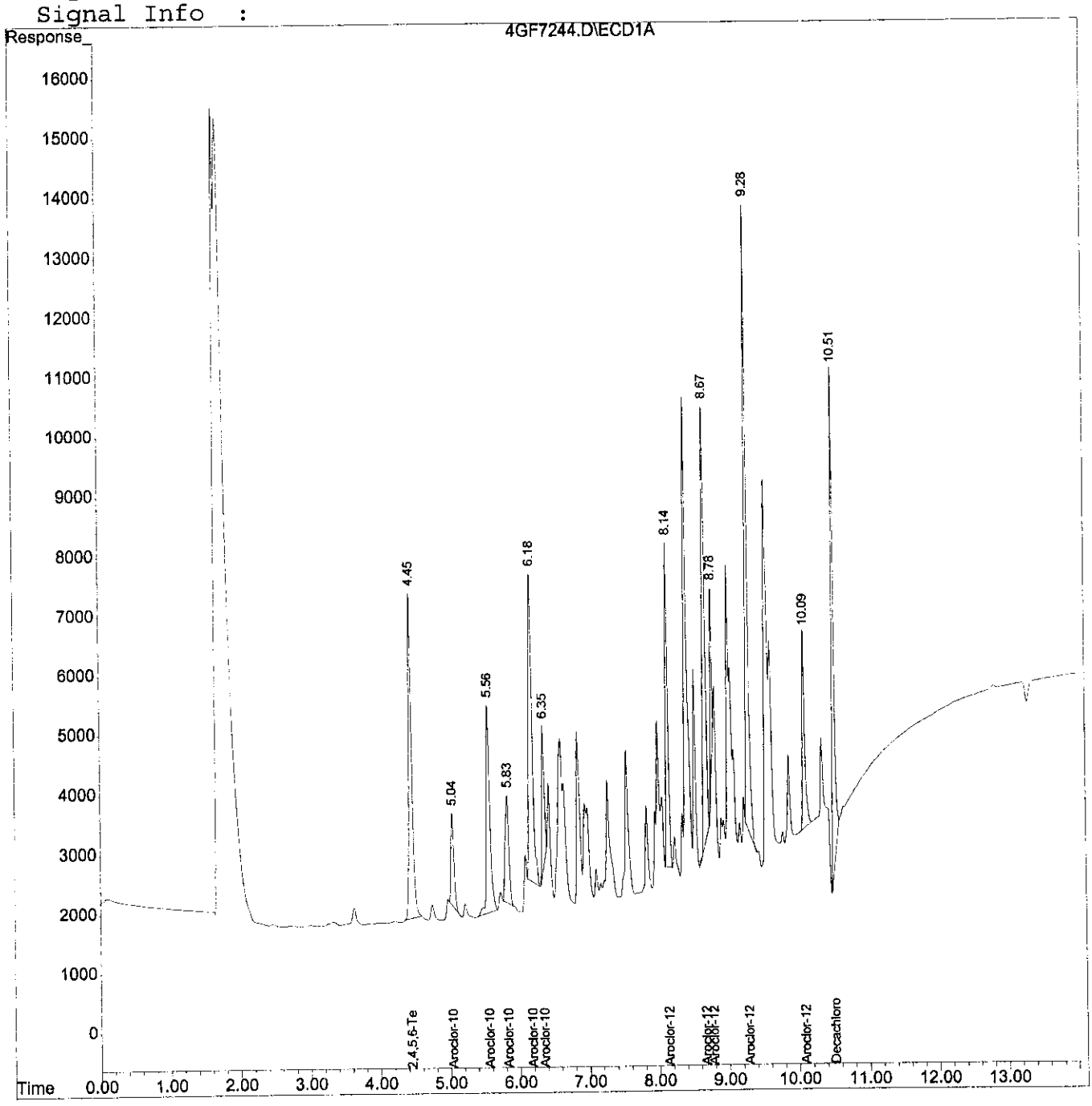
(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7244.D 1660F.M Wed May 23 11:38:48 2001 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7244.D
Acq On : 22 May 2001 13:42
Sample : WG97755-05 L0105404-04 MSD
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Vial: 7
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7245.D Vial: 8
Acq On : 22 May 2001 13:59 Operator: ECL
Sample : L0105404-05 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.42	166548	16.473 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	82.36%
12) S Decachlorobiphenyl	10.50	187646	17.230 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	86.15%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7245.D 1660F.M Wed May 23 11:38:51 2001 Page 1

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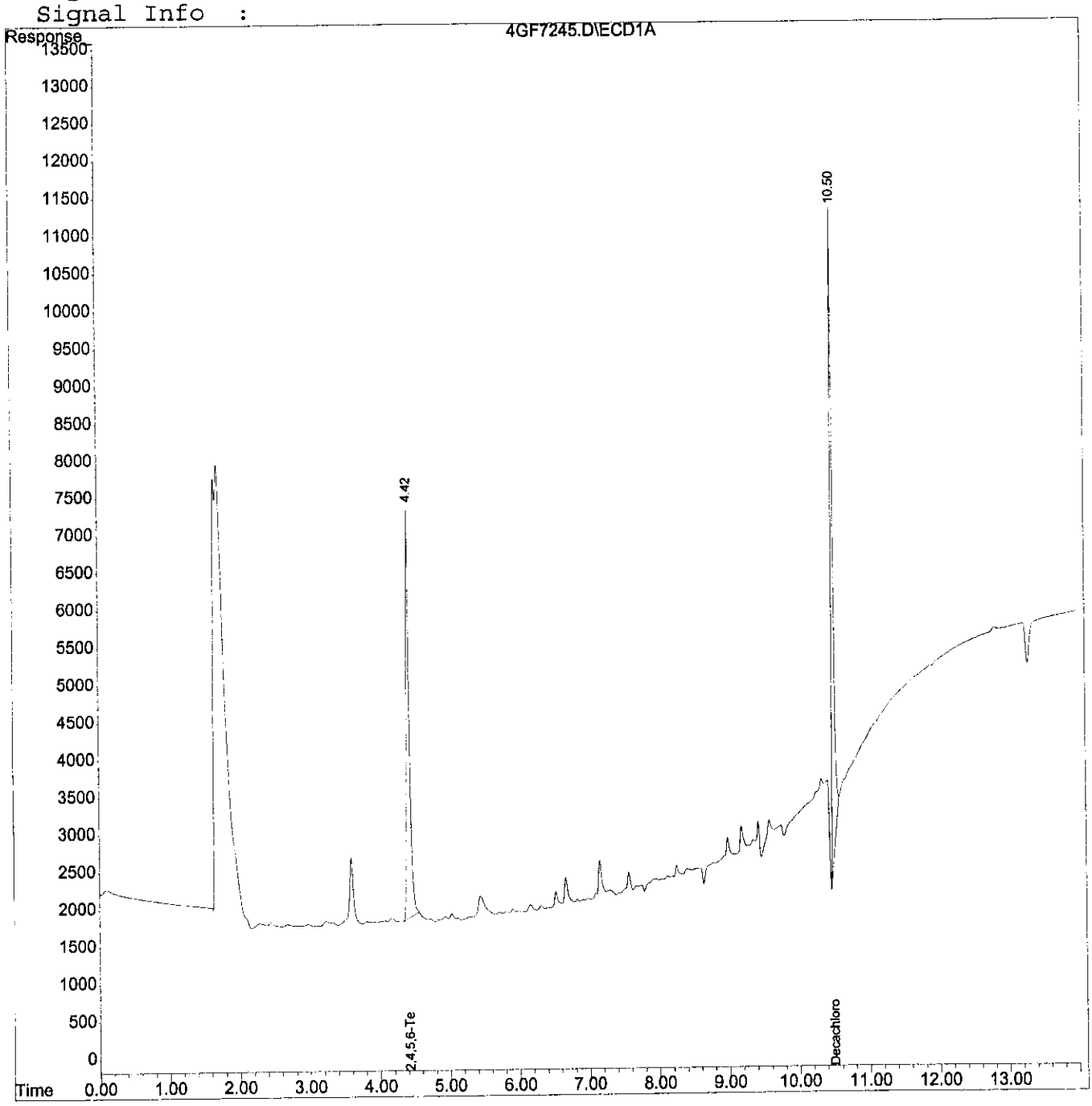
Data File : C:\HPCHEM\2\DATA\052201\4GF7245.D
Acq On : 22 May 2001 13:59
Sample : L0105404-05
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:32 2001 Quant Results File: 1660F.RES

Vial: 8
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7246.D
Acq On : 22 May 2001 14:17
Sample : L0105404-06
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Vial: 9
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

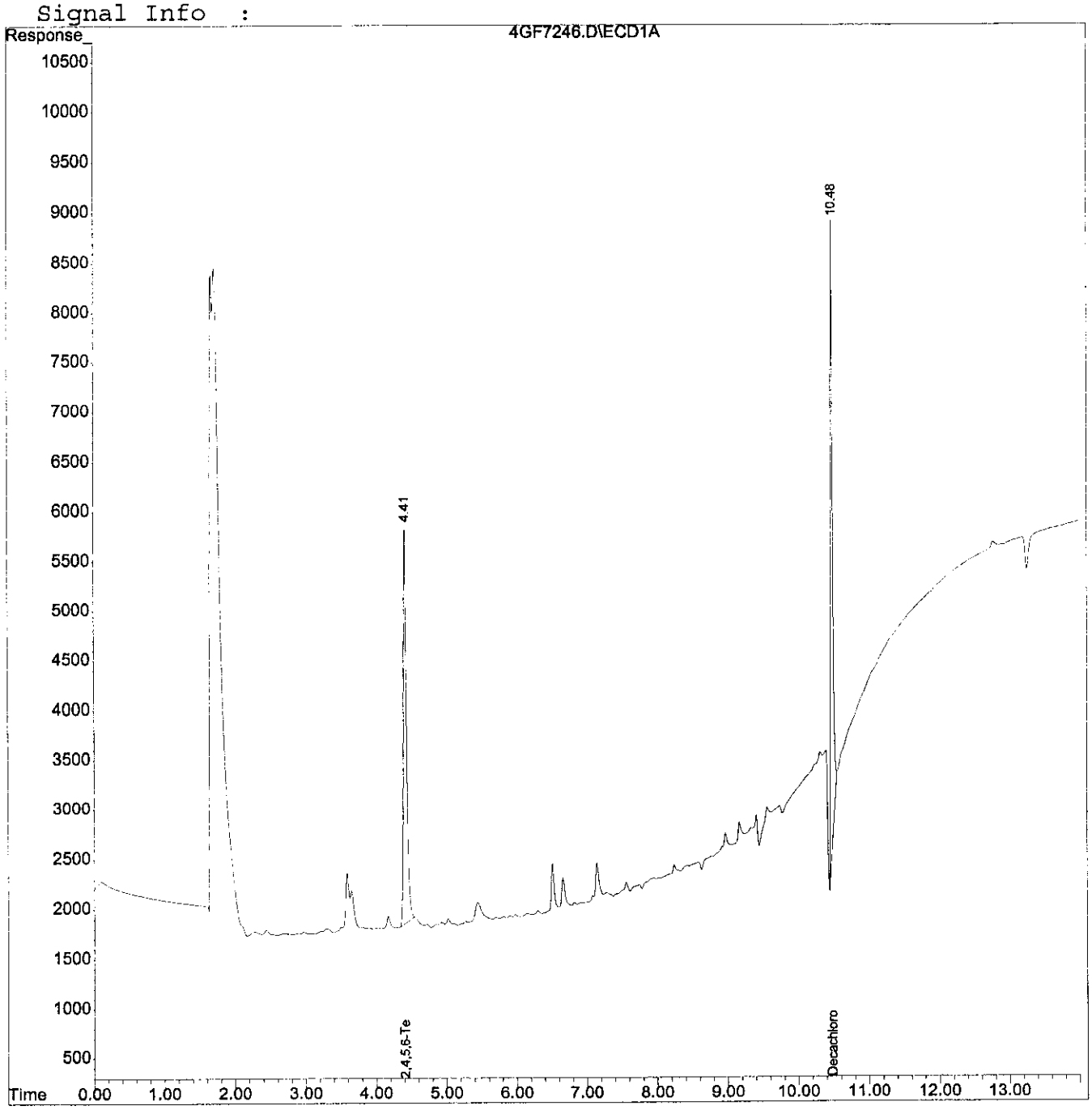
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.42	119303	11.800 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	59.00%
12) S Decachlorobiphenyl	10.48	132497	12.166 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	60.83%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window
(m)=manual int.
4GF7246.D 1660F.M Wed May 23 11:38:54 2001 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7246.D Vial: 9
Acq On : 22 May 2001 14:17 Operator: ECL
Sample : L0105404-06 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7247.D Vial: 10
Acq On : 22 May 2001 14:35 Operator: ECL
Sample : L0105404-07 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

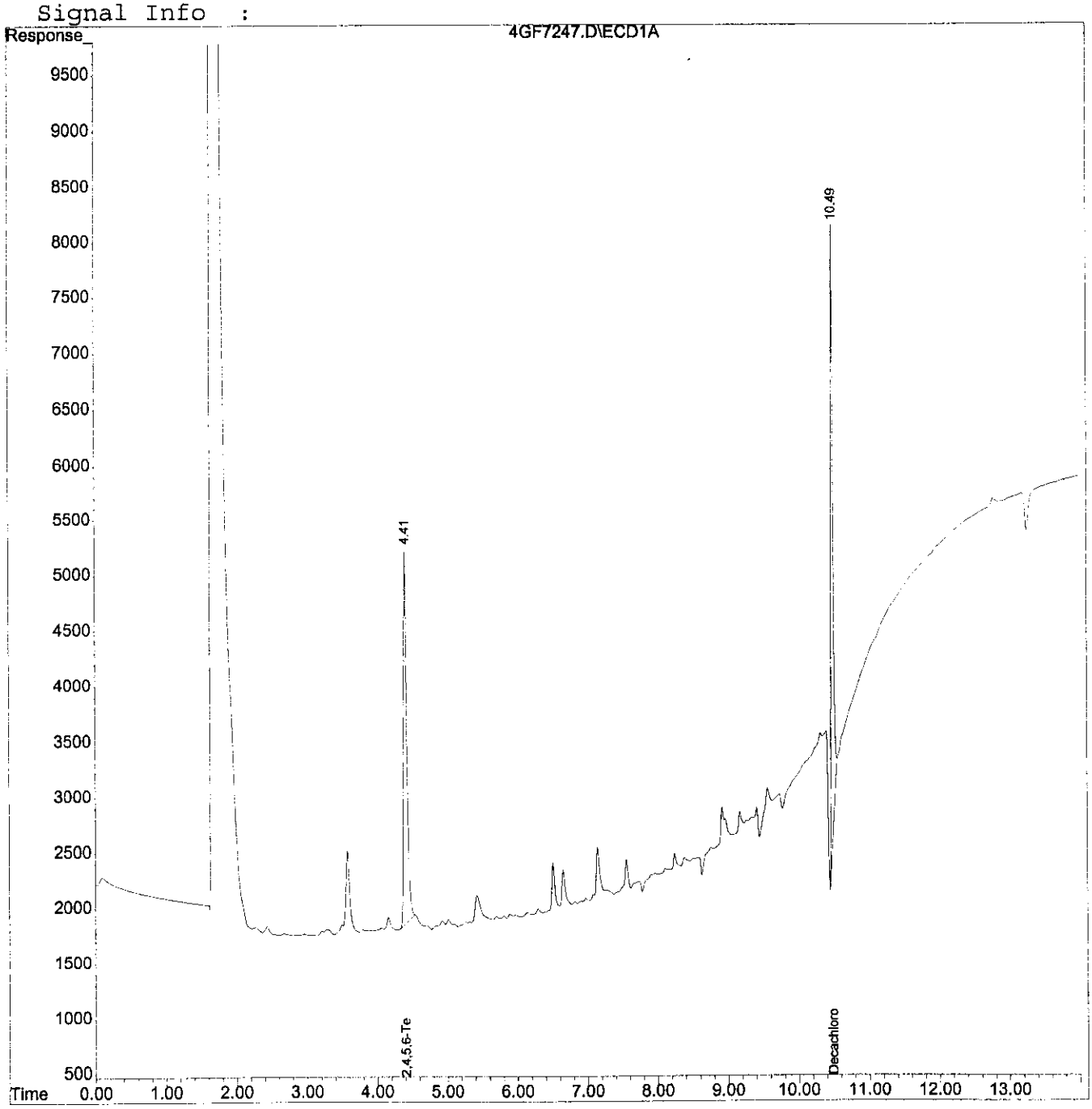
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.41	105615	10.446	UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	52.23%	
12) S Decachlorobiphenyl	10.49	117818	10.818	UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	54.09%	
Target Compounds				
2) L1 Aroclor-1016 (1)	0.00	0	N.D.	UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D.	UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D.	UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D.	UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1016 (1)		0	N.D.	UG/L
Average Aroclor-1016 (1)			0.000	UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D.	UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D.	UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D.	UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D.	UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1260 (1)		0	N.D.	UG/L
Average Aroclor-1260 (1)			0.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7247.D Vial: 10
Acq On : 22 May 2001 14:35 Operator: ECL
Sample : L0105404-07 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:32:54 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7248.D Vial: 11
Acq On : 22 May 2001 14:53 Operator: ECL
Sample : L0105404-08 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.39	113544	11.231 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	56.16%
12) S Decachlorobiphenyl	10.48	156598	14.379 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	71.89%
Target Compounds			
2) L1 Aroclor-1016 (1)	4.99	90507	171.462 UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		90507	171.462 UG/L
Average Aroclor-1016 (1)			171.462 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7248.D 1660F.M Wed May 23 11:39:00 2001 Page 1

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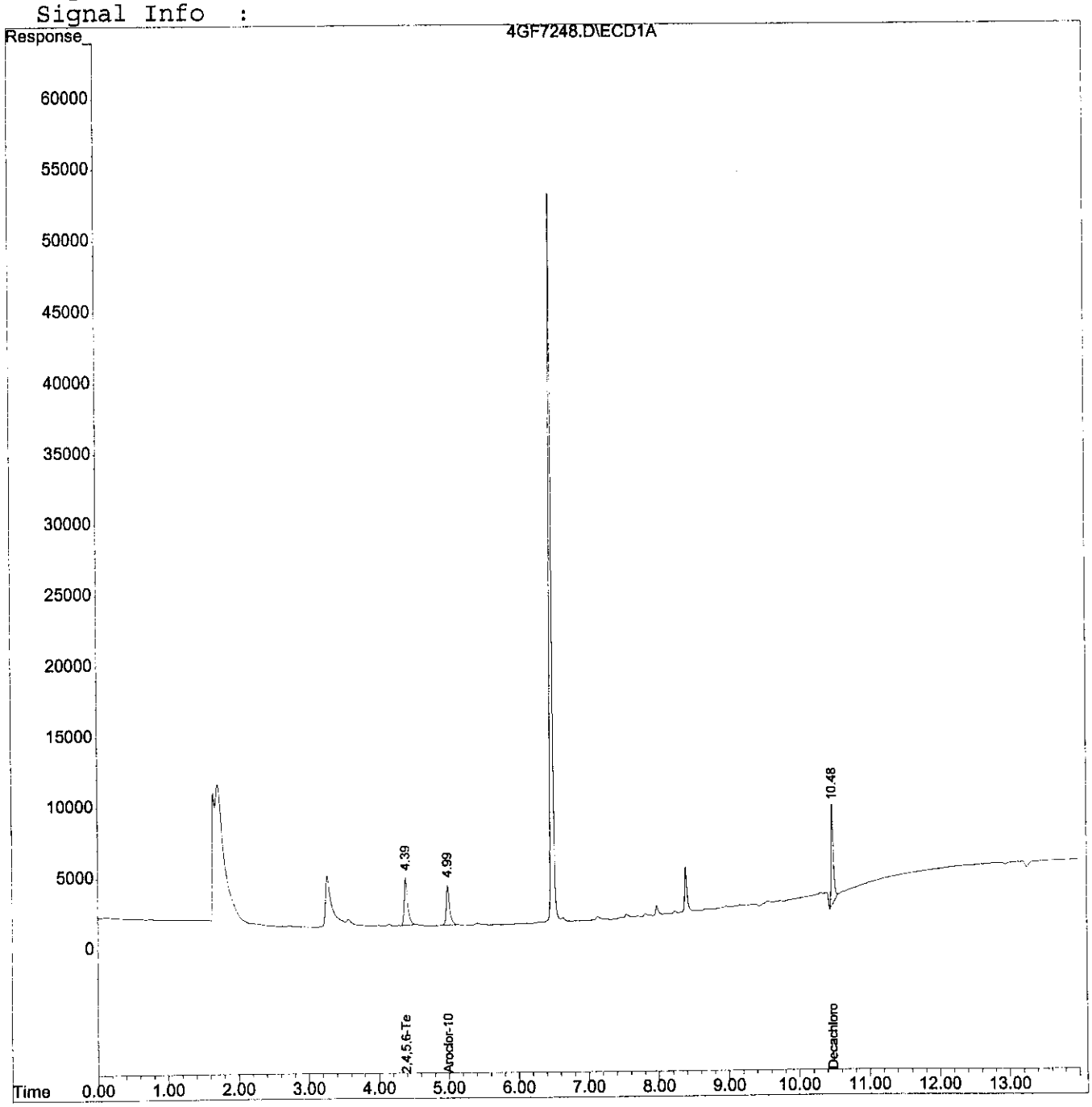
Data File : C:\HPCHEM\2\DATA\052201\4GF7248.D
Acq On : 22 May 2001 14:53
Sample : L0105404-08
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:33 2001 Quant Results File: 1660F.RES

Vial: 11
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7250.D Vial: 13
Acq On : 22 May 2001 15:29 Operator: ECL
Sample : L0105404-09 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

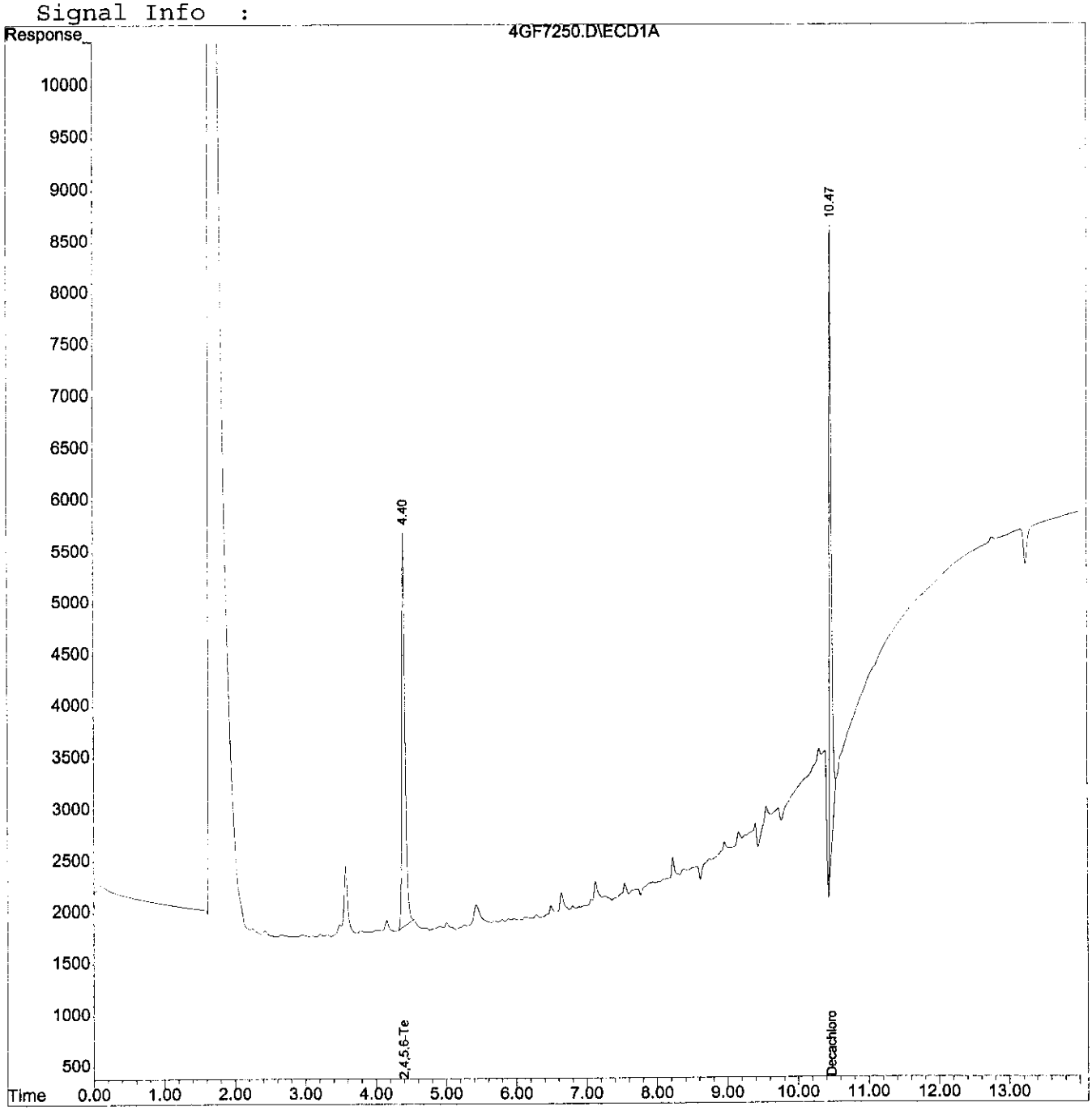
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.40	117441	11.616 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	58.08%
12) S Decachlorobiphenyl	10.48	129237	11.867 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	59.34%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7250.D 1660F.M Wed May 23 11:39:02 2001 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7250.D Vial: 13
Acq On : 22 May 2001 15:29 Operator: ECL
Sample : L0105404-09 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7251.D Vial: 14
Acq On : 22 May 2001 15:47 Operator: ECL
Sample : L0105404-10 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

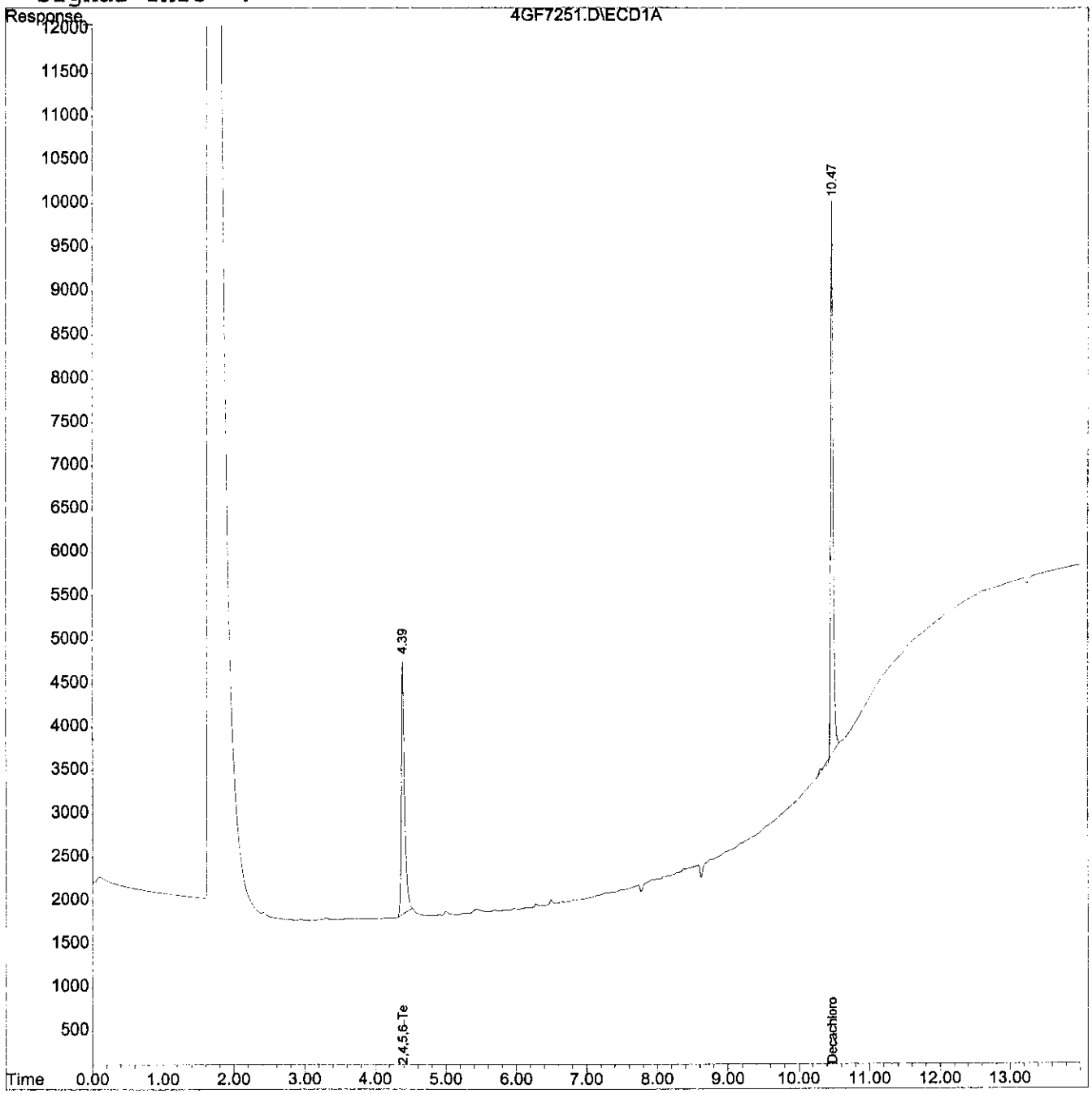
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.39	93612	9.259 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	46.30%
12) S Decachlorobiphenyl	10.47	142041	13.043 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	65.22%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7251.D Vial: 14
Acq On : 22 May 2001 15:47 Operator: ECL
Sample : L0105404-10 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7254.D Vial: 17
Acq On : 22 May 2001 16:40 Operator: ECL
Sample : L0105404-11 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:35 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

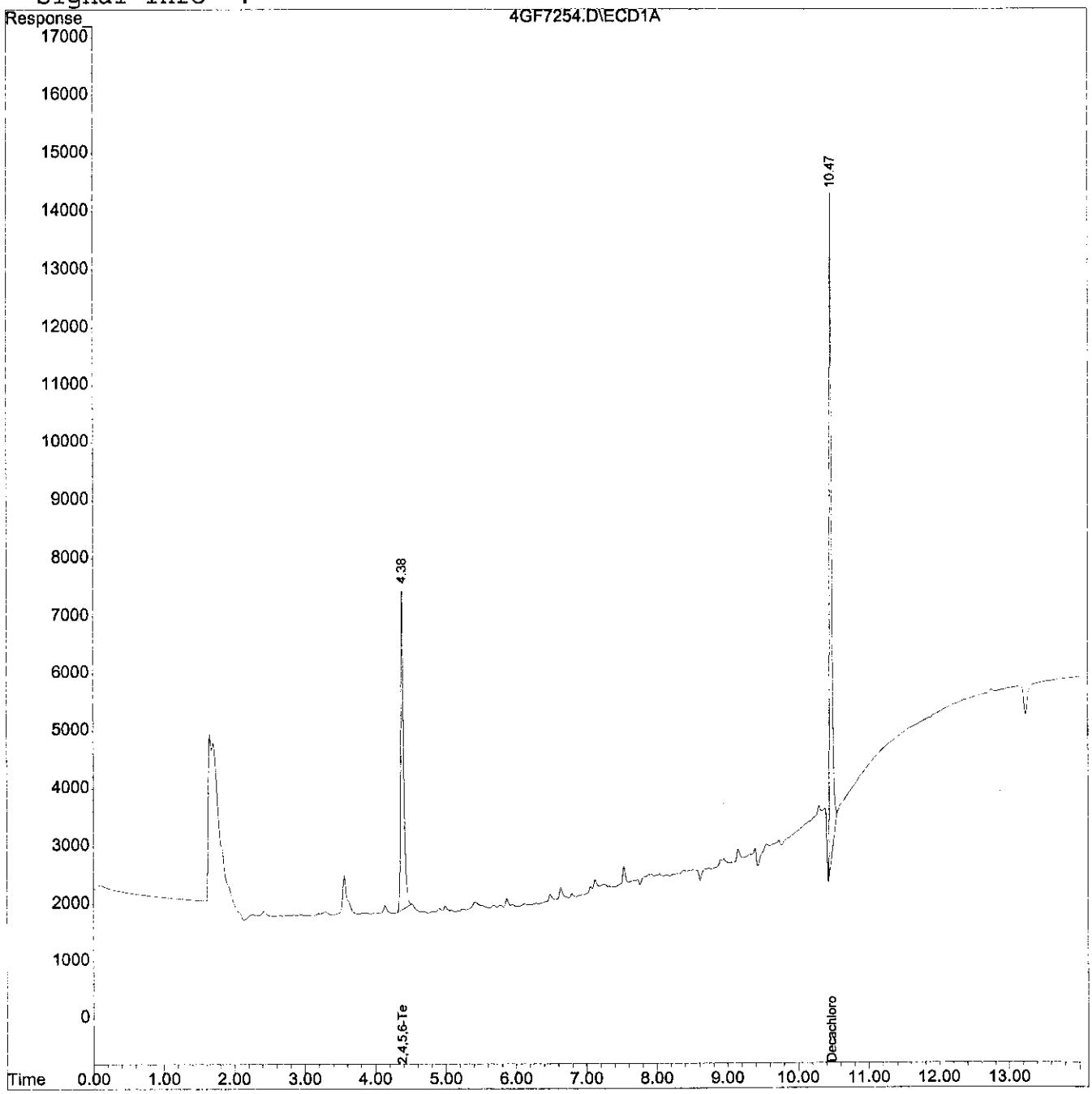
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.38	162911	16.113	UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	80.56%	
12) S Decachlorobiphenyl	10.47	248026	22.774	UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	113.87%	
Target Compounds				
2) L1 Aroclor-1016 (1)	0.00	0	N.D.	UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D.	UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D.	UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D.	UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1016 (1)		0	N.D.	UG/L
Average Aroclor-1016 (1)			0.000	UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D.	UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D.	UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D.	UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D.	UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1260 (1)		0	N.D.	UG/L
Average Aroclor-1260 (1)			0.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7254.D 1660F.M Wed May 23 11:39:13 2001 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7254.D Vial: 17
Acq On : 22 May 2001 16:40 Operator: ECL
Sample : L0105404-11 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:35 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.3 Standards Data

Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001

Calibration Files
2000 =4GF7048.D 1000 =4GF7049.D 500 =4GF7050.D
250 =4GF7051.D 100 =4GF7052.D 50 =4GF7053.D

		Compound	2000	1000	500	250	100	50	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M	1.075	1.182	0.989	1.051	0.881	0.889	1.011#E4	11.48
2)	L1	PCB 1016-1	1.456	1.702	1.568	1.762	1.920	2.044	1.742#E2	12.52
3)	L1	PCB 1016-2	3.467	4.091	3.828	4.304	4.892	5.172	4.292#E2	14.99
4)	L1	PCB 1016-3	2.210	2.524	2.262	2.519	2.739	2.772	2.504#E2	9.33
5)	L1	PCB 1016-4	5.822	6.706	5.970	6.576	7.313	7.682	6.678#E2	10.91
6)	L1	PCB 1016-5	1.656	1.924	1.714	1.825	2.117	2.150	1.898#E2	10.80
7)	L2	PCB 1260-1	3.433	4.059	3.831	4.282	4.980	4.386	4.162#E2	12.65
8)	L2	PCB 1260-2	5.457	6.262	5.612	6.077	6.714	6.958	6.180#E2	9.58
9)	L2	PCB 1260-3	1.446	1.651	1.574	1.666	2.040	2.121	1.750#E2	15.38
10)	L2	PCB 1260-4	0.821	0.929	0.848	0.947	1.035	1.108	0.948#E3	11.51
11)	L2	PCB 1260-5	3.261	3.629	3.240	3.514	3.655	3.689	3.498#E2	5.74
12)	S	DECACHLOROBIPHENYL	0.941	1.081	1.000	1.106	1.177	1.229	1.089#E4	9.86

(#) = Out of Range
1660F.M Fri May 04 08:06:47 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7048.D Vial: 1
Acq On : 3 May 2001 11:27 Operator: ECL
Sample : 1660 ICAL 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	1074758	106.303 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	531.51%#
12) S DECACHLOROBIPHENYL	10.67	941196	86.423 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	432.12%#
Target Compounds			
2) L1 PCB 1016-1	5.22	291143	1671.392 UG/L
3) L1 PCB 1016-2	5.74	693440	1615.524 UG/L
4) L1 PCB 1016-3	6.01	441929	1764.722 UG/L
5) L1 PCB 1016-4	6.35	1164310	1743.471 UG/L
6) L1 PCB 1016-5	6.52	331105	1744.884 UG/L
Sum PCB 1016-1		2921926	8539.993 UG/L
Average PCB 1016-1			1707.999 UG/L
7) L2 PCB 1260-1	8.30	686567	1649.682 UG/L
8) L2 PCB 1260-2	8.83	1091443	1766.109 UG/L
9) L2 PCB 1260-3	8.94	289222	1653.088 UG/L
10) L2 PCB 1260-4	9.44	1641990	1732.297 UG/L
11) L2 PCB 1260-5	10.25	652238	1864.543 UG/L
Sum PCB 1260-1		4361461	8665.720 UG/L
Average PCB 1260-1			1733.144 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7048.D 1660F.M Fri May 04 08:07:08 2001 Page 1

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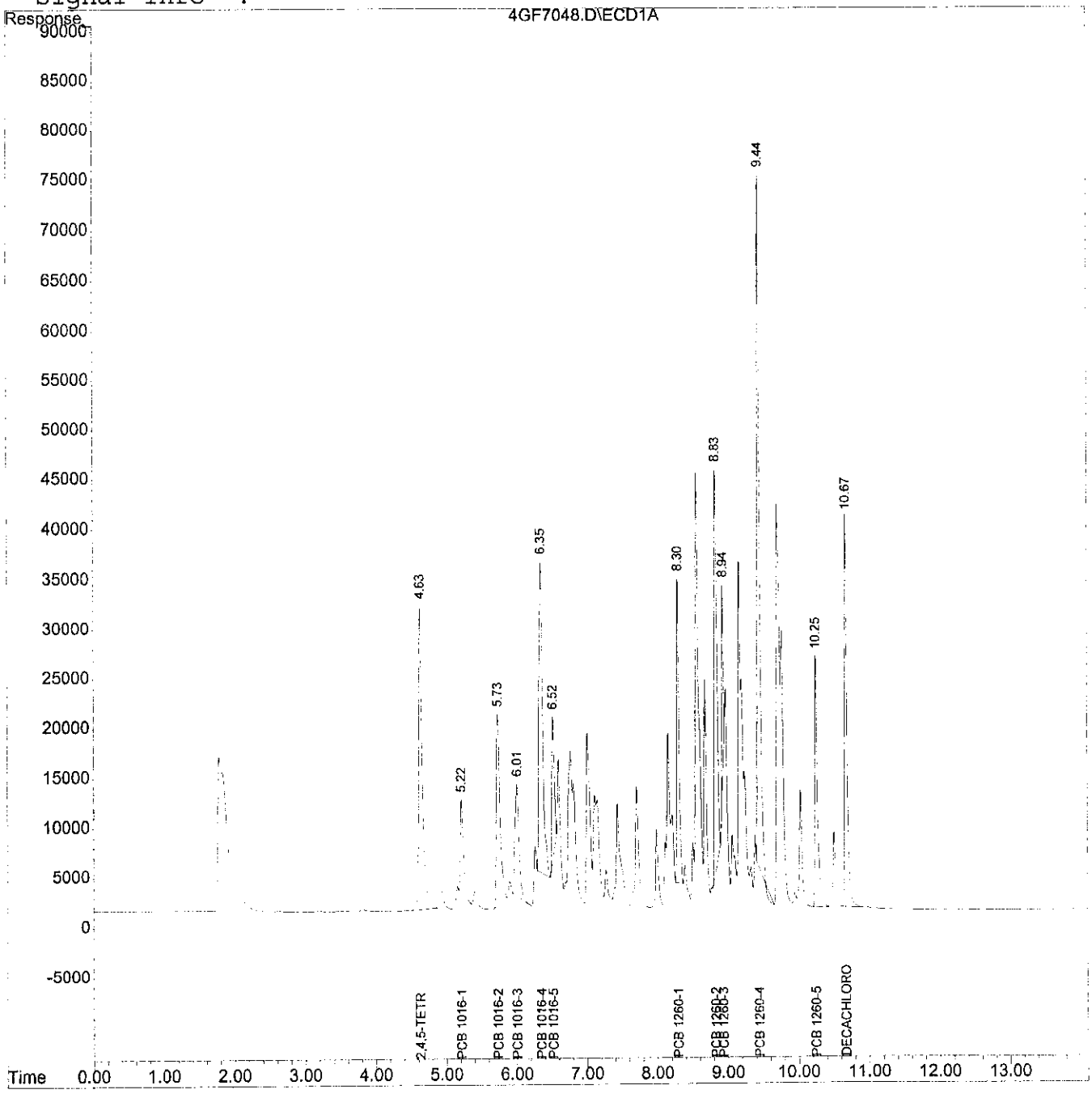
Data File : C:\HPCHEM\2\DATA\050301\4GF7048.D Vial: 1
Acq On : 3 May 2001 11:27 Operator: ECL
Sample : 1660 ICAL 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7049.D Vial: 2
Acq On : 3 May 2001 11:45 Operator: ECL
Sample : 1660 ICAL 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

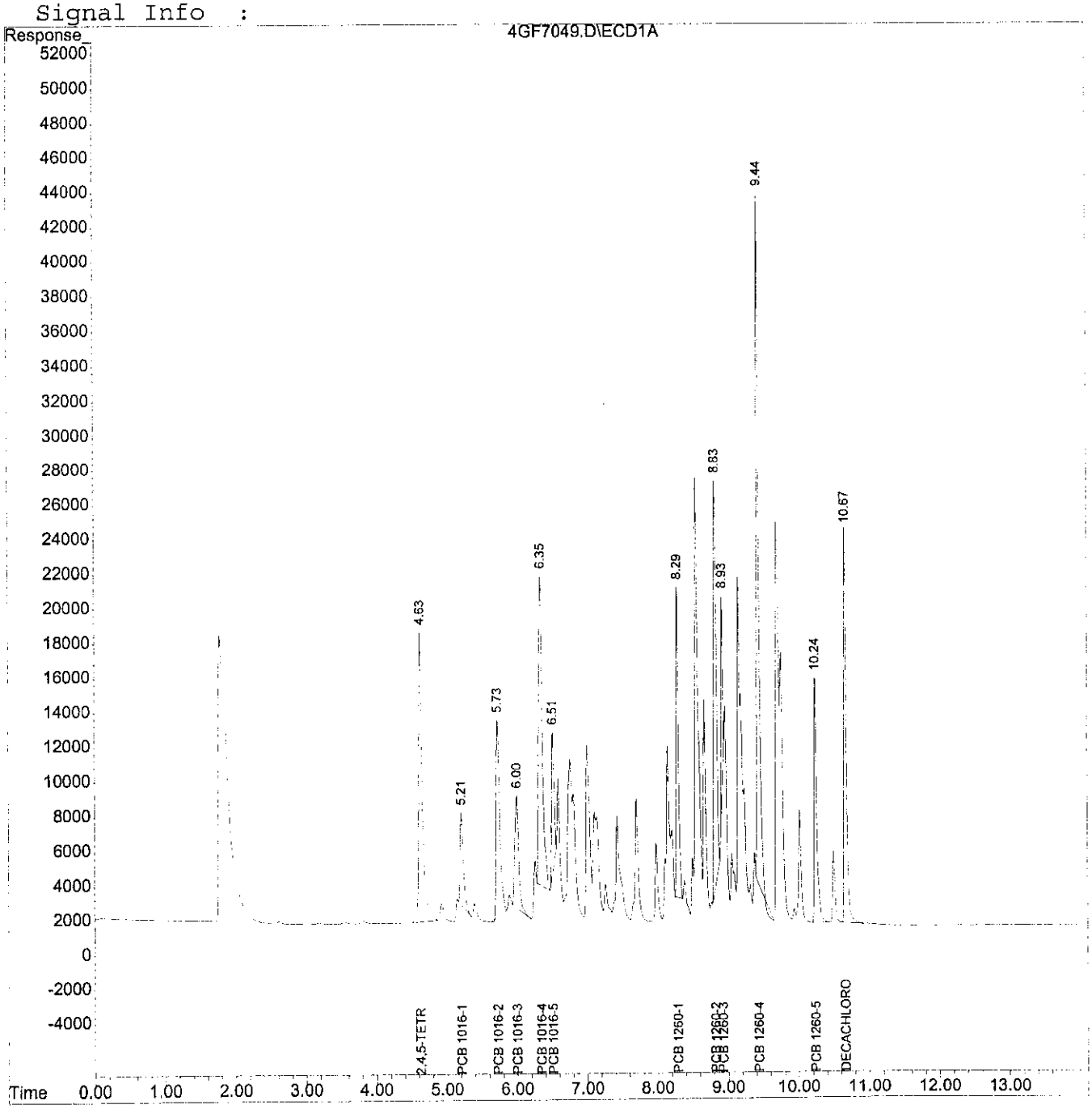
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	591112	58.466 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	292.33%#
12) S DECACHLOROBIPHENYL	10.67	540649	49.644 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	248.22%#
Target Compounds			
2) L1 PCB 1016-1	5.21	170174	976.935 UG/L
3) L1 PCB 1016-2	5.73	409150	953.206 UG/L
4) L1 PCB 1016-3	6.00	252359	1007.725 UG/L
5) L1 PCB 1016-4	6.35	670636	1004.229 UG/L
6) L1 PCB 1016-5	6.52	192412	1013.985 UG/L
Sum PCB 1016-1		1694730	4956.080 UG/L
Average PCB 1016-1			991.216 UG/L
7) L2 PCB 1260-1	8.29	405905	975.307 UG/L
8) L2 PCB 1260-2	8.83	626221	1013.314 UG/L
9) L2 PCB 1260-3	8.93	165074	943.504 UG/L
10) L2 PCB 1260-4	9.44	929419	980.536 UG/L
11) L2 PCB 1260-5	10.25	362921	1037.477 UG/L
Sum PCB 1260-1		2489540	4950.136 UG/L
Average PCB 1260-1			990.027 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7049.D 1660F.M Fri May 04 08:07:13 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7049.D Vial: 2
Acq On : 3 May 2001 11:45 Operator: ECL
Sample : 1660 ICAL 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7050.D Vial: 3
Acq On : 3 May 2001 12:07 Operator: ECL
Sample : 1660 ICAL 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

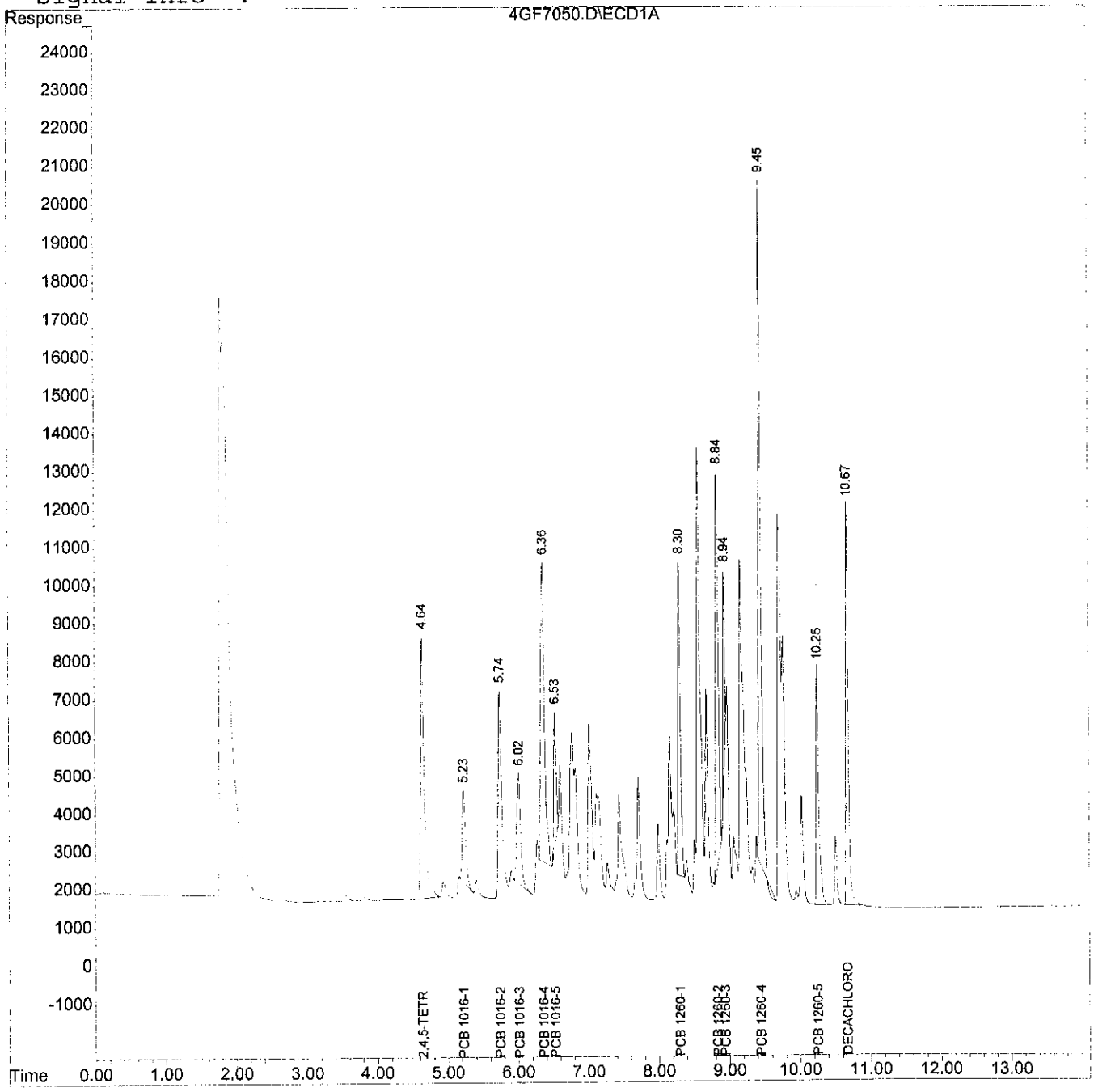
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.64	247219	24.452 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	122.26%
12) S DECACHLOROBIPHENYL	10.68	249926	22.949 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	114.75%
Target Compounds			
2) L1 PCB 1016-1	5.23	78376	449.942 UG/L
3) L1 PCB 1016-2	5.74	191376	445.854 UG/L
4) L1 PCB 1016-3	6.02	113099	451.630 UG/L
5) L1 PCB 1016-4	6.36	298520	447.013 UG/L
6) L1 PCB 1016-5	6.53	85717	451.718 UG/L
Sum PCB 1016-1		767088	2246.157 UG/L
Average PCB 1016-1			449.231 UG/L
7) L2 PCB 1260-1	8.30	191555	460.268 UG/L
8) L2 PCB 1260-2	8.84	280587	454.030 UG/L
9) L2 PCB 1260-3	8.94	78686	449.739 UG/L
10) L2 PCB 1260-4	9.45	423799	447.108 UG/L
11) L2 PCB 1260-5	10.26	161982	463.054 UG/L
Sum PCB 1260-1		1136609	2274.198 UG/L
Average PCB 1260-1			454.840 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7050.D 1660F.M Fri May 04 08:07:19 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7050.D Vial: 3
Acq On : 3 May 2001 12:07 Operator: ECL
Sample : 1660 ICAL 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7051.D Vial: 4
Acq On : 3 May 2001 12:25 Operator: ECL
Sample : 1660 ICAL 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

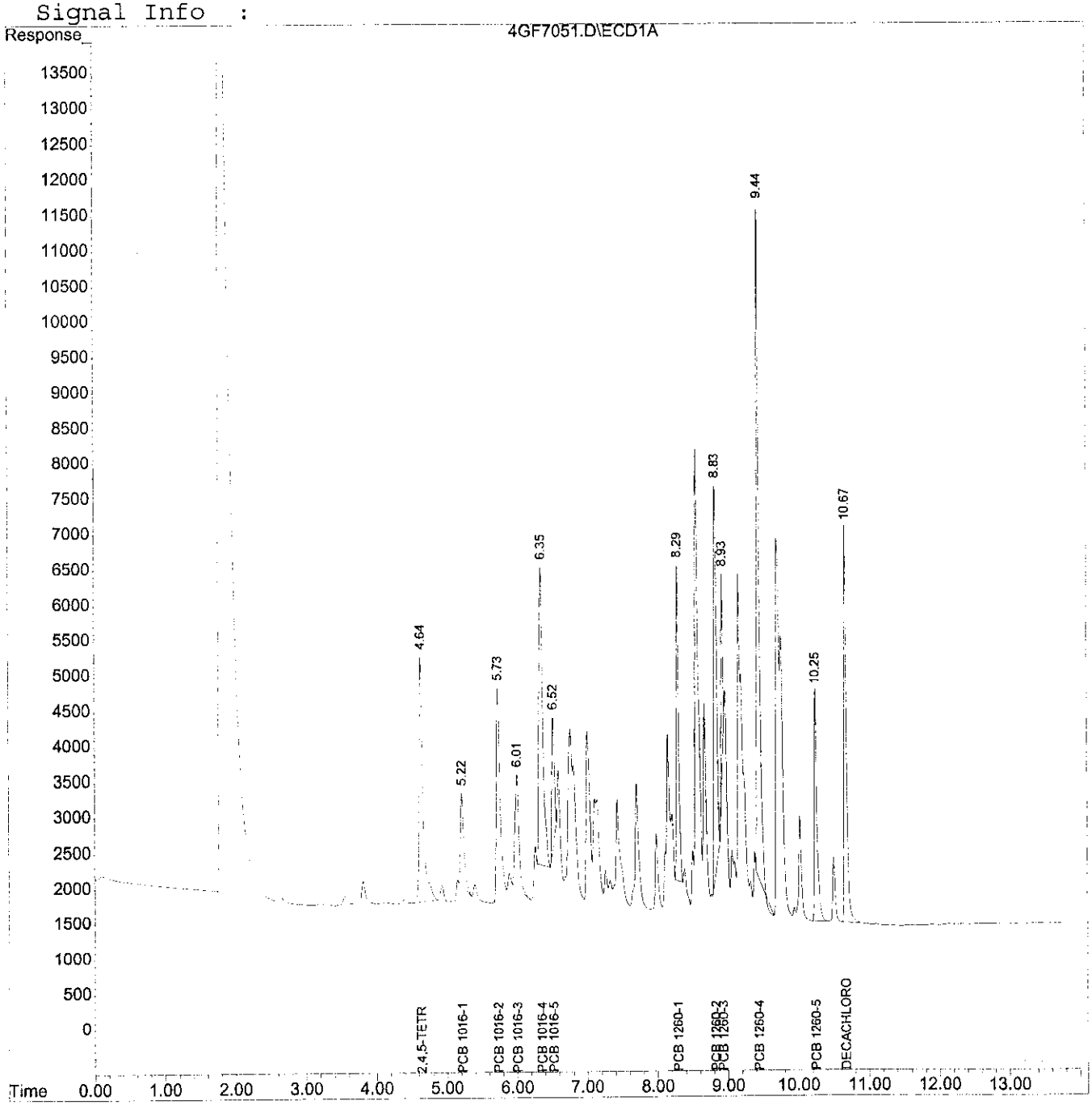
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.64	131341	12.991 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	64.95%
12) S DECACHLOROBIPHENYL	10.67	138225	12.692 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	63.46%
Target Compounds			
2) L1 PCB 1016-1	5.22	44043	252.844 UG/L
3) L1 PCB 1016-2	5.74	107606	250.693 UG/L
4) L1 PCB 1016-3	6.01	62971	251.456 UG/L
5) L1 PCB 1016-4	6.35	164405	246.185 UG/L
6) L1 PCB 1016-5	6.52	45622	240.421 UG/L
Sum PCB 1016-1		424647	1241.600 UG/L
Average PCB 1016-1			248.320 UG/L
7) L2 PCB 1260-1	8.30	107054	257.229 UG/L
8) L2 PCB 1260-2	8.83	151920	245.829 UG/L
9) L2 PCB 1260-3	8.93	41651	238.064 UG/L
10) L2 PCB 1260-4	9.44	236750	249.771 UG/L
11) L2 PCB 1260-5	10.25	87850	251.136 UG/L
Sum PCB 1260-1		625226	1242.030 UG/L
Average PCB 1260-1			248.406 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7051.D 1660F.M Fri May 04 08:07:24 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7051.D Vial: 4
Acq On : 3 May 2001 12:25 Operator: ECL
Sample : 1660 ICAL 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7052.D Vial: 5
Acq On : 3 May 2001 12:44 Operator: ECL
Sample : 1660 ICAL 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

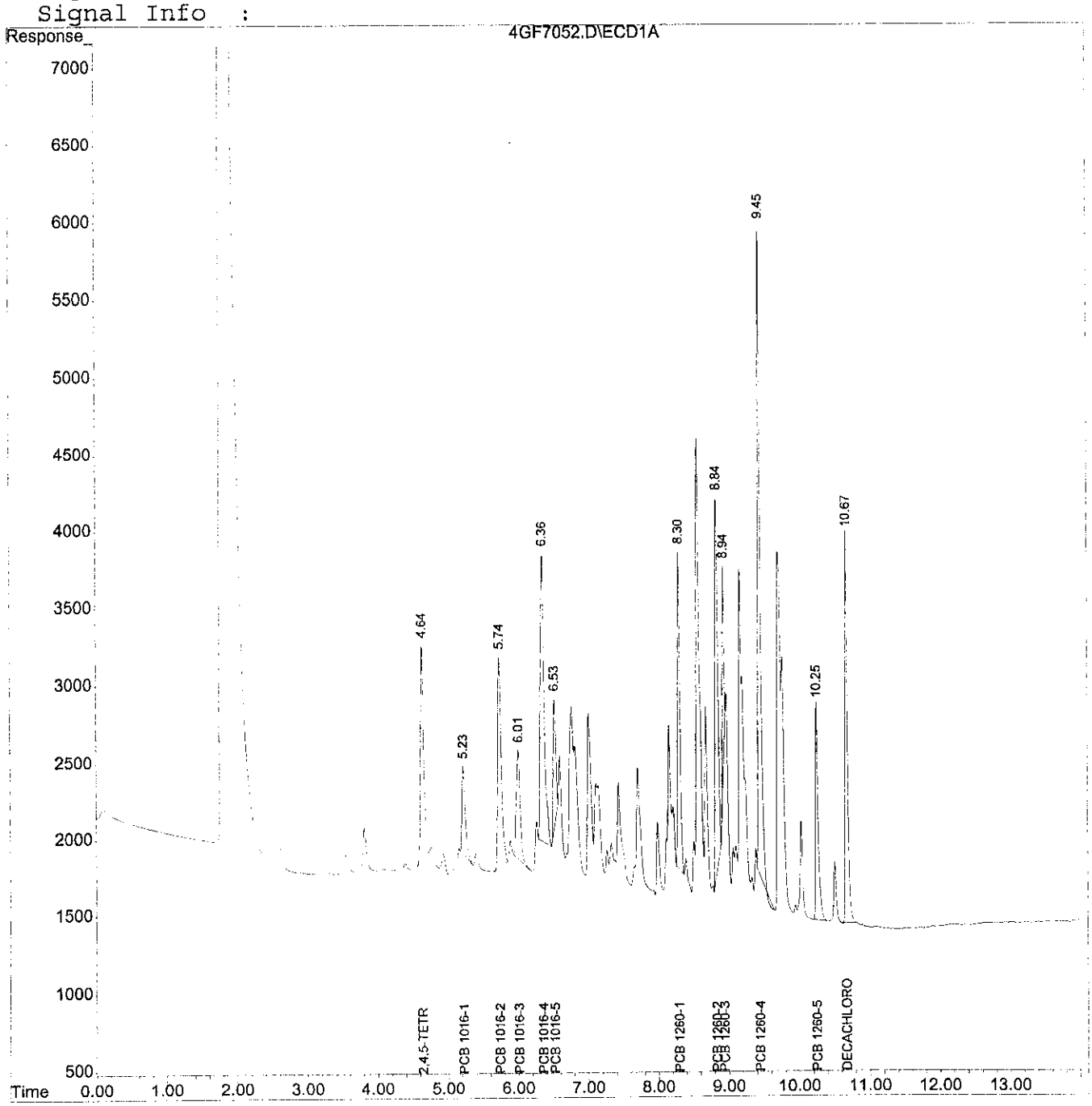
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.64	44051	4.357 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	21.79%
12) S DECACHLOROBIPHENYL	10.68	58842	5.403 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	27.02%
Target Compounds			
2) L1 PCB 1016-1	5.23	19203	110.242 UG/L
3) L1 PCB 1016-2	5.74	48918	113.966 UG/L
4) L1 PCB 1016-3	6.01	27394	109.389 UG/L
5) L1 PCB 1016-4	6.36	73127	109.502 UG/L
6) L1 PCB 1016-5	6.53	21166	111.543 UG/L
Sum PCB 1016-1		189808	554.642 UG/L
Average PCB 1016-1			110.928 UG/L
7) L2 PCB 1260-1	8.30	49802	119.665 UG/L
8) L2 PCB 1260-2	8.84	67136	108.636 UG/L
9) L2 PCB 1260-3	8.94	20395	116.571 UG/L
10) L2 PCB 1260-4	9.45	103464	109.155 UG/L
11) L2 PCB 1260-5	10.25	36555	104.499 UG/L
Sum PCB 1260-1		277353	558.525 UG/L
Average PCB 1260-1			111.705 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7052.D 1660F.M Fri May 04 08:07:29 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7052.D Vial: 5
Acq On : 3 May 2001 12:44 Operator: ECL
Sample : 1660 ICAL 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7053.D Vial: 6
Acq On : 3 May 2001 13:03 Operator: ECL
Sample : 1660 ICAL 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:05 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:05:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.64	22214	2.197 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	10.98%#
12) S DECACHLOROBIPHENYL	10.67	30737	2.822 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	14.11%#
Target Compounds			
2) L1 PCB 1016-1	5.22	10222	54.348 UG/L
3) L1 PCB 1016-2	5.74	25859	60.245 UG/L
4) L1 PCB 1016-3	6.01	13860	55.347 UG/L
5) L1 PCB 1016-4	6.36	38408	57.513 UG/L
6) L1 PCB 1016-5	6.53	10750	56.651 UG/L
Sum PCB 1016-1		99099	284.103 UG/L
Average PCB 1016-1			56.821 UG/L
7) L2 PCB 1260-1	8.30	21928	52.688 UG/L
8) L2 PCB 1260-2	8.84	34790	56.295 UG/L
9) L2 PCB 1260-3	8.94	10607	60.625 UG/L
10) L2 PCB 1260-4	9.44	55378	58.423 UG/L
11) L2 PCB 1260-5	10.25	18446	52.730 UG/L
Sum PCB 1260-1		141148	280.762 UG/L
Average PCB 1260-1			56.152 UG/L

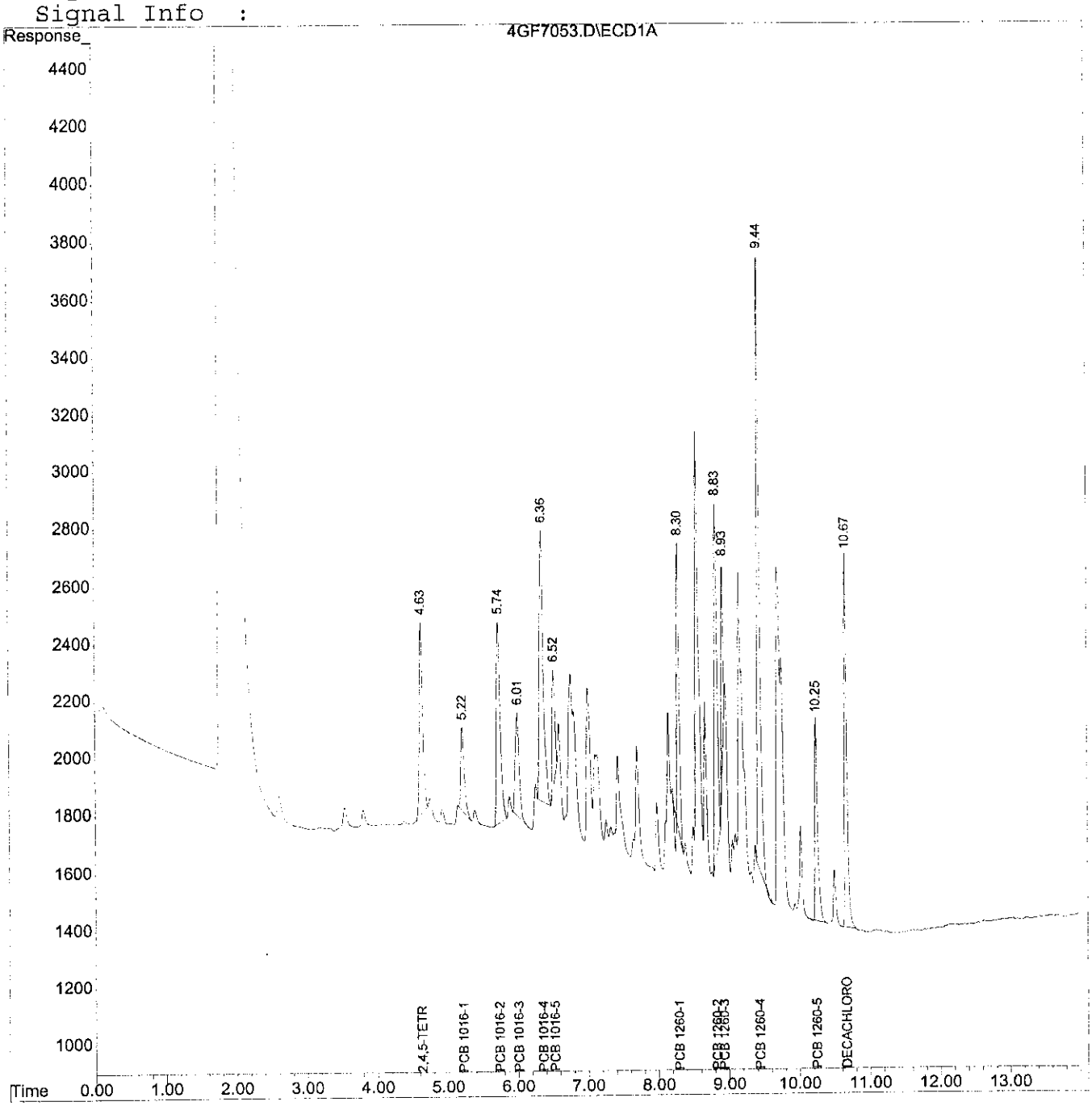
(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7053.D 1660F.M Fri May 04 08:06:53 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7053.D
Acq On : 3 May 2001 13:03
Sample : 1660 ICAL 0.05 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:05 2001 Quant Results File: 1660F.RES

Vial: 6
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:05:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



4GF7053.D 1660F.M Fri May 04 08:06:54 2001 Page 2

Data File : C:\HPCHEM\2\DATA\050301\4GF7054.D
Acq On : 3 May 2001 13:21
Sample : 1660 ALT ICV 0.5 PPM
Misc :
IntFile : events.e

Vial: 7
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	23.244	7.0	95	0.00
2	L1	PCB 1016-1	500.000	450.601	9.9	100	0.00
3	L1	PCB 1016-2	500.000	441.837	11.6	99	0.00
4	L1	PCB 1016-3	500.000	452.837	9.4	100	0.00
5	L1	PCB 1016-4	500.000	442.661	11.5	99	0.00
6	L1	PCB 1016-5	500.000	435.751	12.8	96	0.00
7	L2	PCB 1260-1	500.000	460.841	7.8	100	0.00
8	L2	PCB 1260-2	500.000	498.510	0.3	110	0.00
9	L2	PCB 1260-3	500.000	428.491	14.3	95	0.00
10	L2	PCB 1260-4	500.000	425.112	15.0	95	0.00
11	L2	PCB 1260-5	500.000	387.764	22.4#	84	0.00
12	S	DECACHLOROBIPHENYL	25.000	25.241	-1.0	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7054.D 1660F.M Fri May 04 08:13:49 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7054.D Vial: 7
Acq On : 3 May 2001 13:21 Operator: ECL
Sample : 1660 ALT ICV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:13 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

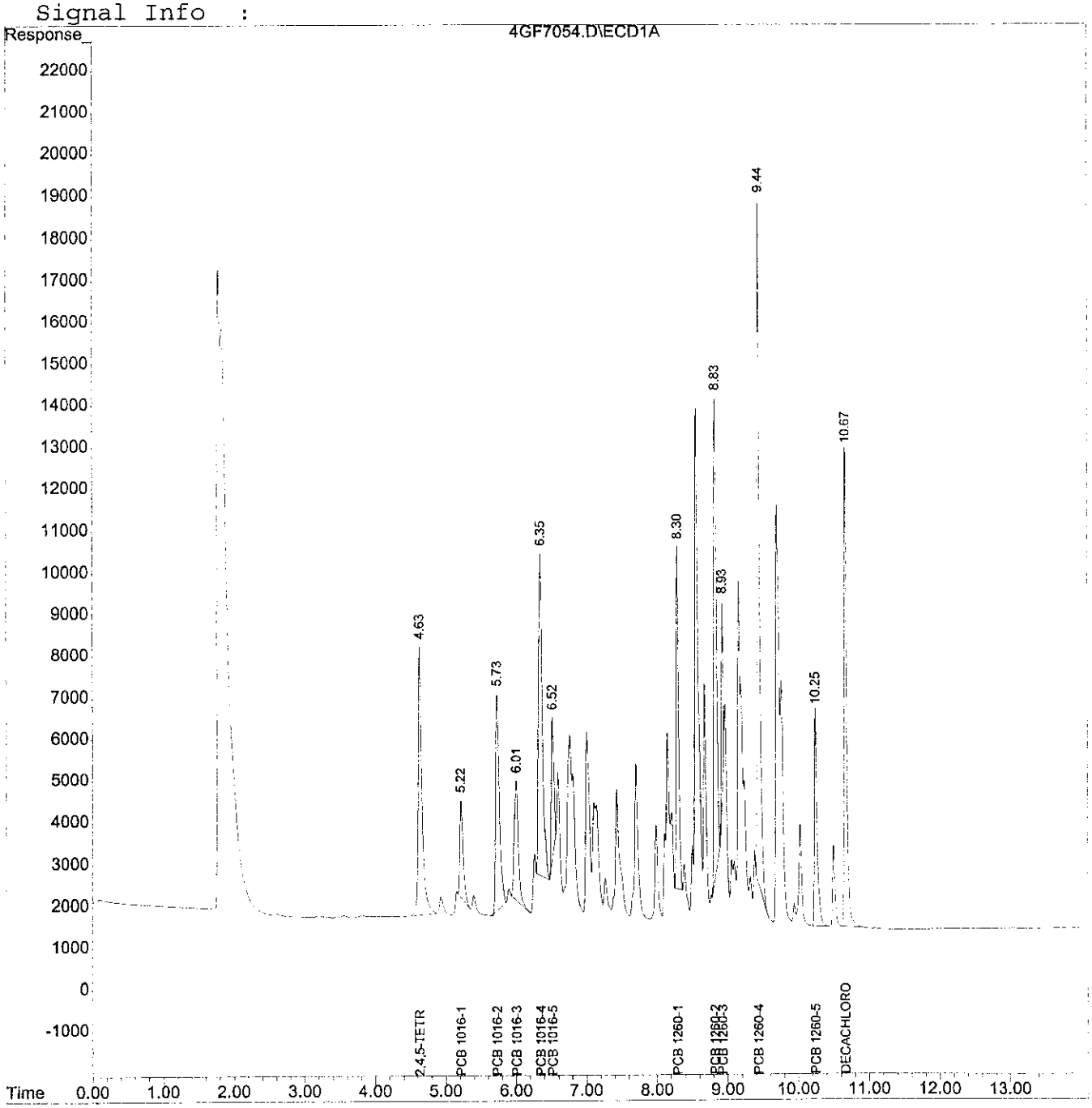
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.64	235008	23.244 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 116.22%	
12) S DECACHLOROBIPHENYL	10.67	274887	25.241 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 126.20%	
Target Compounds			
2) L1 PCB 1016-1	5.22	78491	450.601 UG/L
3) L1 PCB 1016-2	5.74	189652	441.837 UG/L
4) L1 PCB 1016-3	6.01	113401	452.837 UG/L
5) L1 PCB 1016-4	6.35	295614	442.661 UG/L
6) L1 PCB 1016-5	6.52	82687	435.751 UG/L
Sum PCB 1016-1		759846	2223.688 UG/L
Average PCB 1016-1			444.738 UG/L
7) L2 PCB 1260-1	8.30	191794	460.841 UG/L
8) L2 PCB 1260-2	8.83	308076	498.510 UG/L
9) L2 PCB 1260-3	8.93	74968	428.491 UG/L
10) L2 PCB 1260-4	9.44	402951	425.112 UG/L
11) L2 PCB 1260-5	10.25	135644	387.764 UG/L
Sum PCB 1260-1		1113432	2200.718 UG/L
Average PCB 1260-1			440.144 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\050301\4GF7054.D Vial: 7
Acq On : 3 May 2001 13:21 Operator: ECL
Sample : 1660 ALT ICV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:13 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:06:08 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:21:25 2001

Calibration Files
2000 =4GF7055.D 1000 =4GF7056.D 500 =4GF7057.D
250 =4GF7058.D 100 =4GF7059.D 50 =4GF7060.D

		Compound	2000	1000	500	250	100	50	Avg		%RSD
1)	S	2,4,5-TETRACHLORO-M	1.012	1.044	0.982	1.063	0.761	0.795	0.943	E4	13.91
2)	L1	PCB 1254-1	2.420	2.762	2.838	2.172	2.284	3.533	2.668	E2	18.67
3)	L1	PCB 1254-2	0.711	0.803	0.804	0.931	1.012	1.018	0.880	E3	14.32
4)	L1	PCB 1254-3	4.818	5.323	5.319	5.572	5.714	6.040	5.464	E2	7.61
5)	L1	PCB 1254-4	3.197	3.596	3.743	4.025	4.239	4.542	3.890	E2	12.34
6)	L1	PCB 1254-5	4.572	5.010	4.990	5.240	5.306	5.538	5.109	E2	6.50
7)	S	DECACHLOROBIPHENYL	1.077	1.213	1.203	1.306	1.324	1.368	1.249	E4	8.47

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\050301\4GF7055.D Vial: 8
Acq On : 3 May 2001 13:40 Operator: ECL
Sample : 1254 ICAL 2.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	1012042	107.366 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	536.83%#
7) S DECACHLOROBIPHENYL	10.67	1077481	86.290 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	431.45%#
Target Compounds			
2) L1 PCB 1254-1	6.74	484020	1906.982 UG/L
3) L1 PCB 1254-2	7.70	1421980	1615.772 UG/L
4) L1 PCB 1254-3	8.11	963691	1763.581 UG/L
5) L1 PCB 1254-4	8.56	639444	1643.669 UG/L
6) L1 PCB 1254-5	8.83	914411	1789.685 UG/L
Sum PCB 1254-1		4423547	8719.689 UG/L
Average PCB 1254-1			1743.938 UG/L

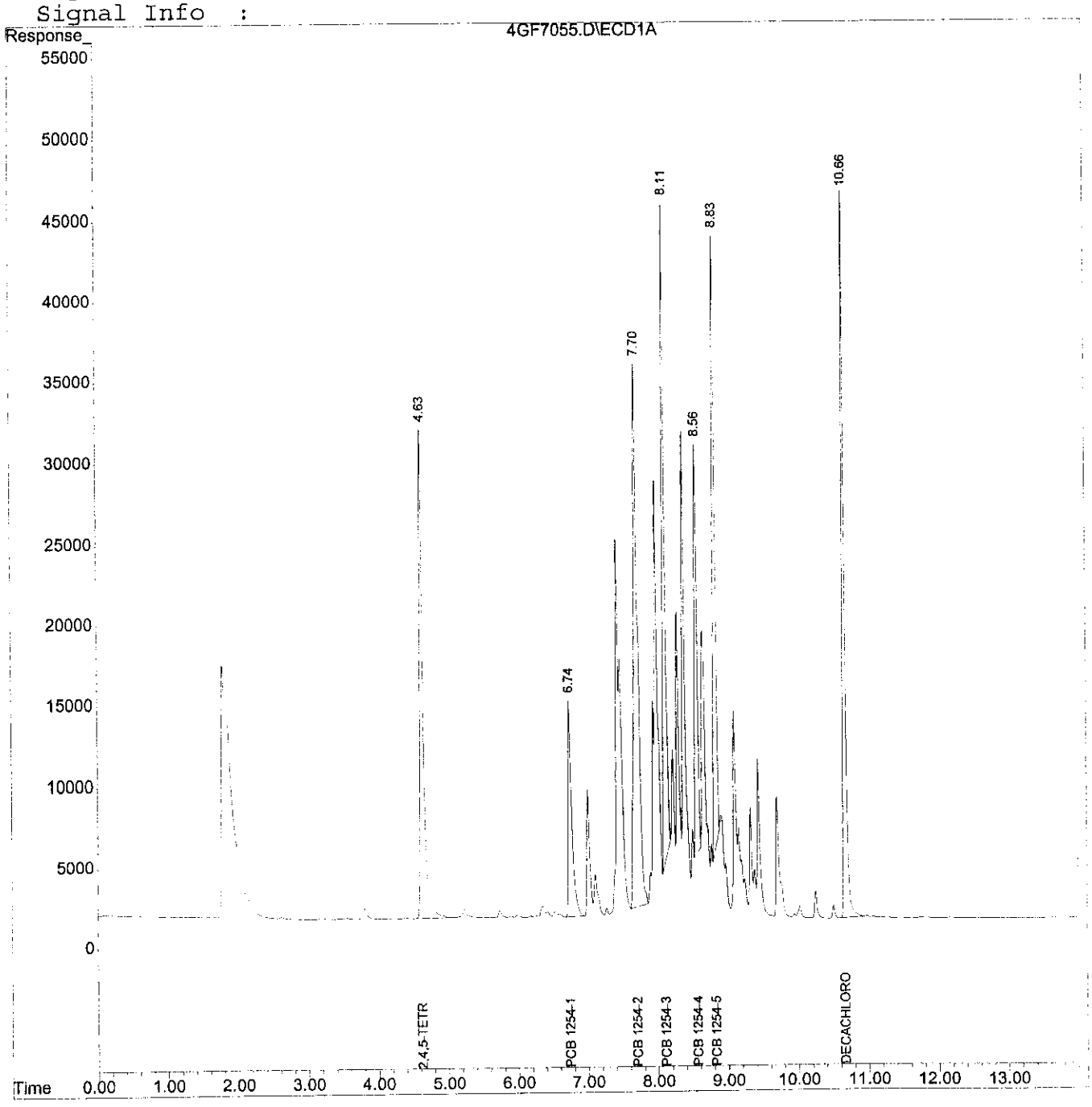
(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7055.D 1254F.M Fri May 04 08:19:46 2001 Page 167

Data File : C:\HPCHEM\2\DATA\050301\4GF7055.D
Acq On : 3 May 2001 13:40
Sample : 1254 ICAL 2.0 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Vial: 8
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7056.D Vial: 9
Acq On : 3 May 2001 13:58 Operator: ECL
Sample : 1254 ICAL 1.0 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	521997	55.378 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	276.89%#
7) S DECACHLOROBIPHENYL	10.66	606548	48.575 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	242.88%#
Target Compounds			
2) L1 PCB 1254-1	6.74	276202	1088.201 UG/L
3) L1 PCB 1254-2	7.70	803421	912.913 UG/L
4) L1 PCB 1254-3	8.11	532317	974.155 UG/L
5) L1 PCB 1254-4	8.56	359555	924.223 UG/L
6) L1 PCB 1254-5	8.82	501033	980.621 UG/L
Sum PCB 1254-1		2472527	4880.113 UG/L
Average PCB 1254-1			976.023 UG/L

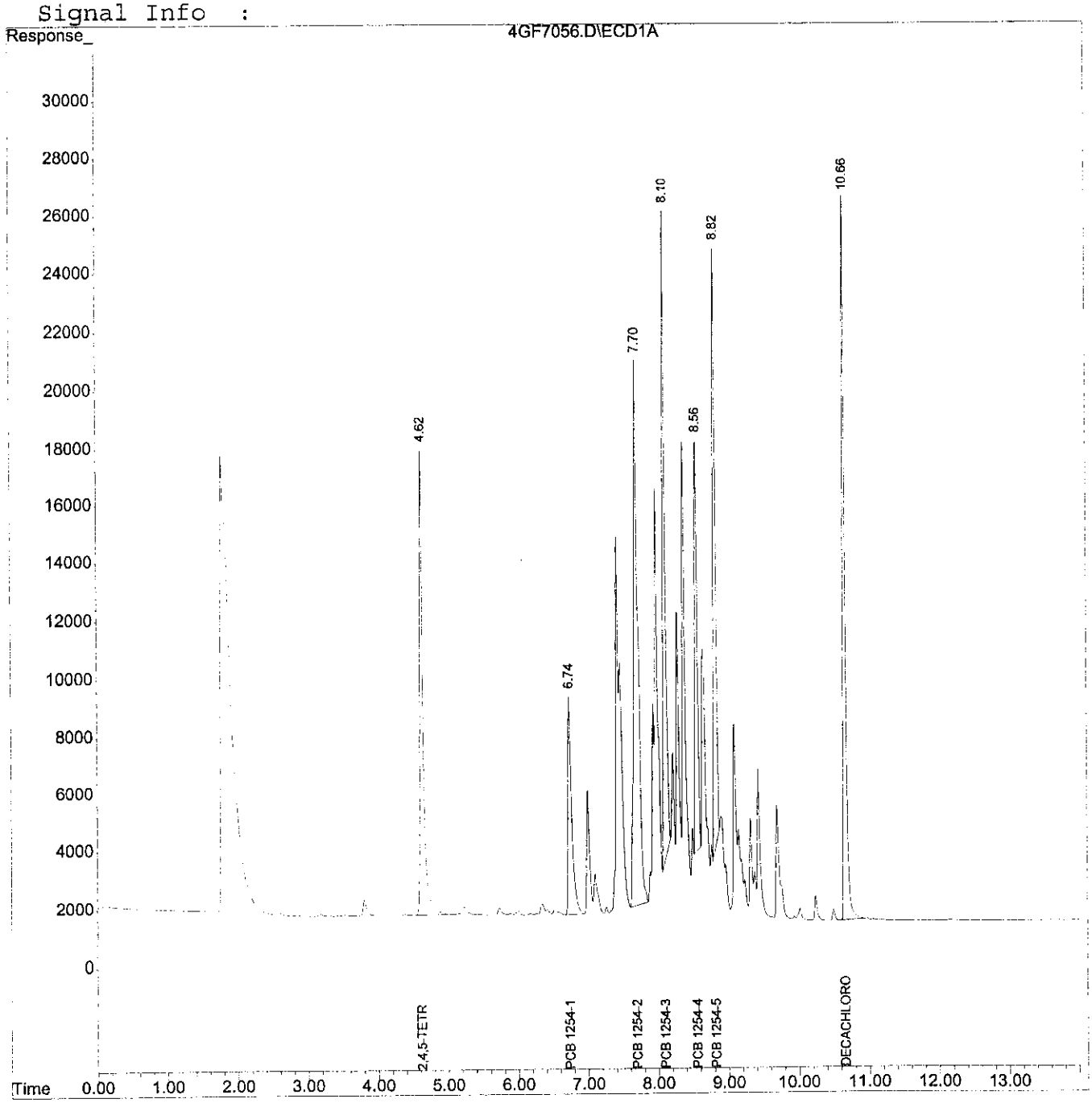
(f)=RT Delta > 1/2 Window (m)=manual int...
4GF7056.D 1254F.M Fri May 04 08:19:50 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7056.D
Acq On : 3 May 2001 13:58
Sample : 1254 ICAL 1.0 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Vial: 9
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7057.D Vial: 10
Acq On : 3 May 2001 14:17 Operator: ECL
Sample : 1254 ICAL 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.62	245385	26.032 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	130.16%
7) S DECACHLOROBIPHENYL	10.66	300805	24.090 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	120.45%
Target Compounds			
2) L1 PCB 1254-1	6.74	141910	559.107 UG/L
3) L1 PCB 1254-2	7.70	402093	456.892 UG/L
4) L1 PCB 1254-3	8.11	265933	486.664 UG/L
5) L1 PCB 1254-4	8.56	187161	481.090 UG/L
6) L1 PCB 1254-5	8.82	249508	488.337 UG/L
Sum PCB 1254-1		1246605	2472.090 UG/L
Average PCB 1254-1			494.418 UG/L

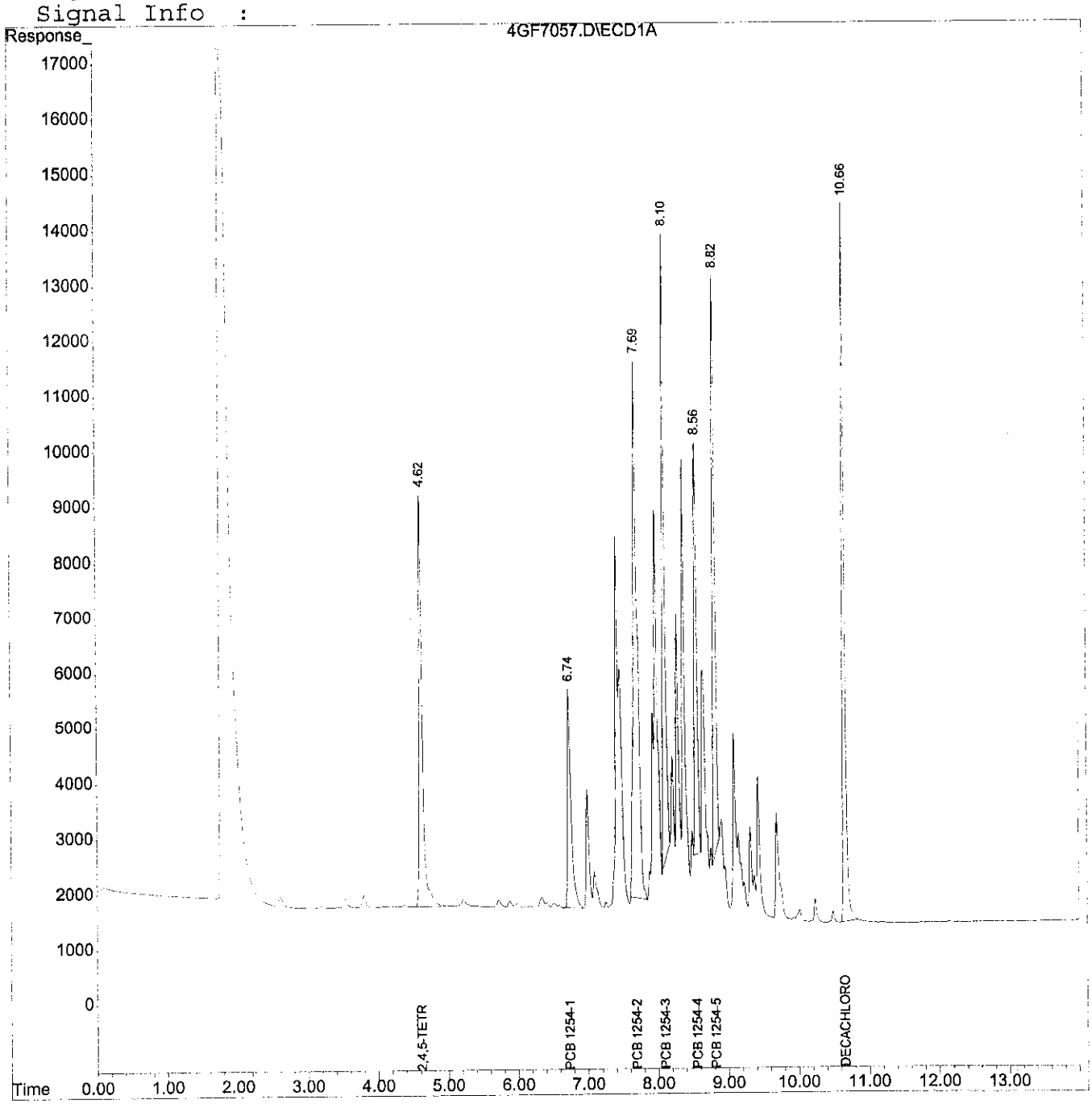
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\050301\4GF7057.D
Acq On : 3 May 2001 14:17
Sample : 1254 ICAL 0.5 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Vial: 10
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7058.D Vial: 11
Acq On : 3 May 2001 14:36 Operator: ECL
Sample : 1254 ICAL 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	132836	14.092 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	70.46%
7) S DECACHLOROBIPHENYL	10.67	163307	13.078 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	65.39%
Target Compounds			
2) L1 PCB 1254-1	6.74	54295	213.915 UG/L
3) L1 PCB 1254-2	7.70	232791	264.517 UG/L
4) L1 PCB 1254-3	8.11	139298	254.919 UG/L
5) L1 PCB 1254-4	8.56	100632	258.670 UG/L
6) L1 PCB 1254-5	8.83	130992	256.378 UG/L
Sum PCB 1254-1		658008	1248.399 UG/L
Average PCB 1254-1			249.680 UG/L

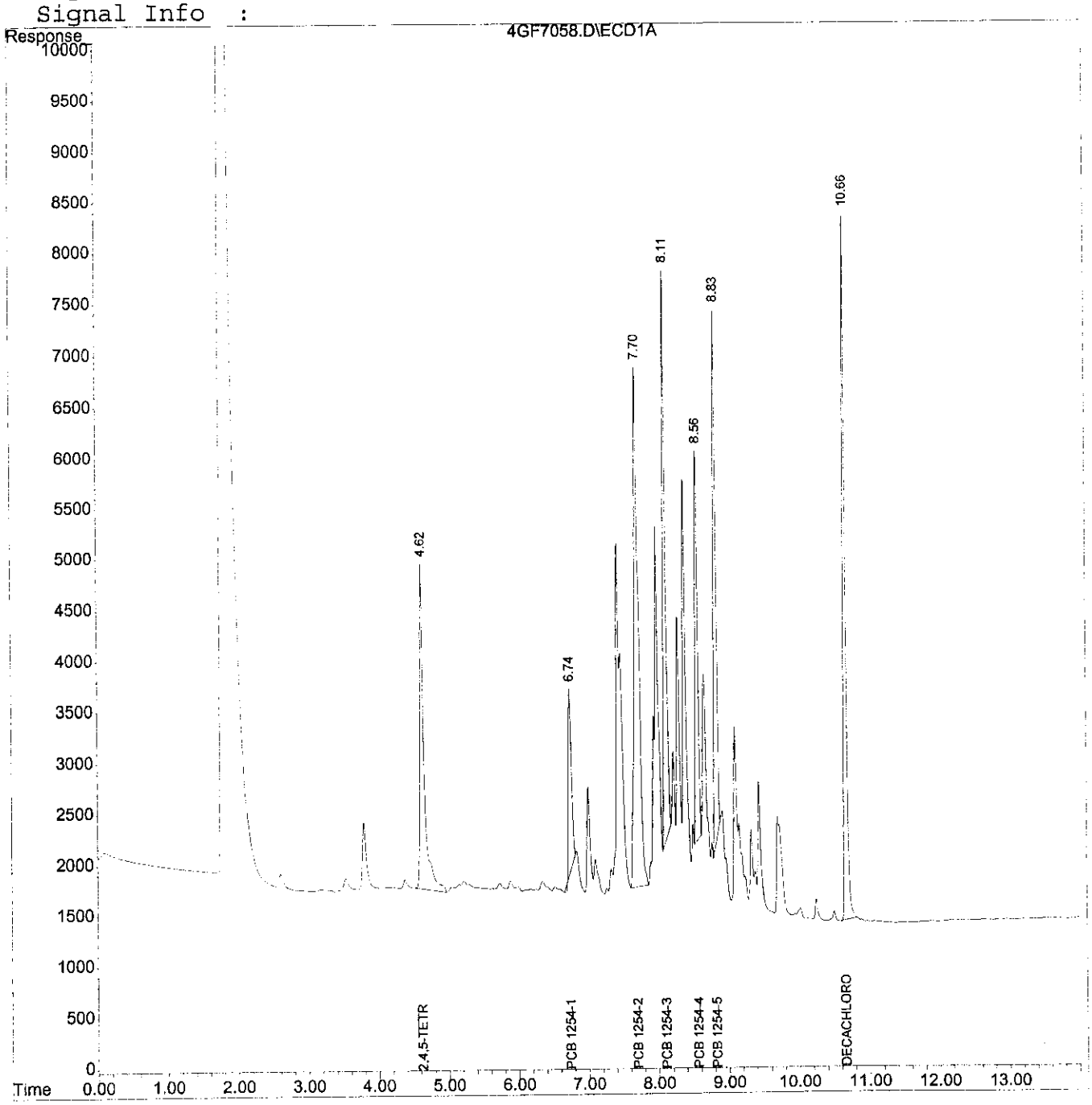
(f)=RT Delta > 1/2 Window (m)=manual int
4GF7058.D 1254F.M Fri May 04 08:19:59 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7058.D
Acq On : 3 May 2001 14:36
Sample : 1254 ICAL 0.25 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:19 2001 Quant Results File: 1254F.RES

Vial: 11
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7059.D Vial: 12
Acq On : 3 May 2001 14:54 Operator: ECL
Sample : 1254 ICAL 0.1 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:20 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	38031	4.035 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	20.18%#
7) S DECACHLOROBIPHENYL	10.67	66183	5.300 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	26.50%#
Target Compounds			
2) L1 PCB 1254-1	6.75	22837	89.975 UG/L
3) L1 PCB 1254-2	7.71	101229	115.024 UG/L
4) L1 PCB 1254-3	8.12	57145	104.577 UG/L
5) L1 PCB 1254-4	8.57	42391	108.964 UG/L
6) L1 PCB 1254-5	8.83	53061	103.851 UG/L
Sum PCB 1254-1		276662	522.391 UG/L
Average PCB 1254-1			104.478 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7059.D 1254F.M Fri May 04 08:20:03 2001 Page 1

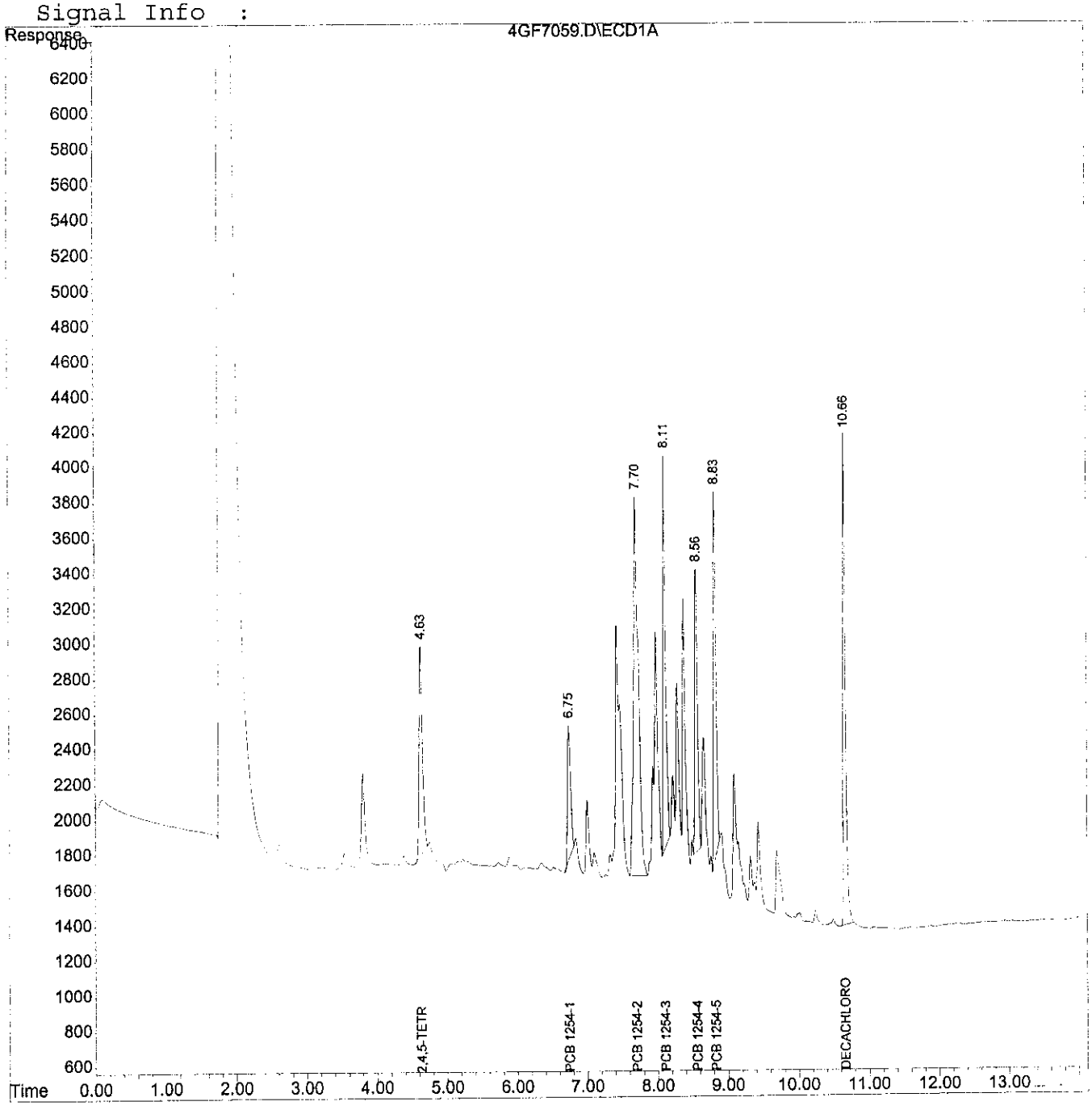
975

Data File : C:\HPCHEM\2\DATA\050301\4GF7059.D
Acq On : 3 May 2001 14:54
Sample : 1254 ICAL 0.1 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:20 2001 Quant Results File: 1254F.RES

Vial: 12
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



976

Data File : C:\HPCHEM\2\DATA\050301\4GF7060.D Vial: 13
Acq On : 3 May 2001 15:32 Operator: ECL
Sample : 1254 ICAL 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:21 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

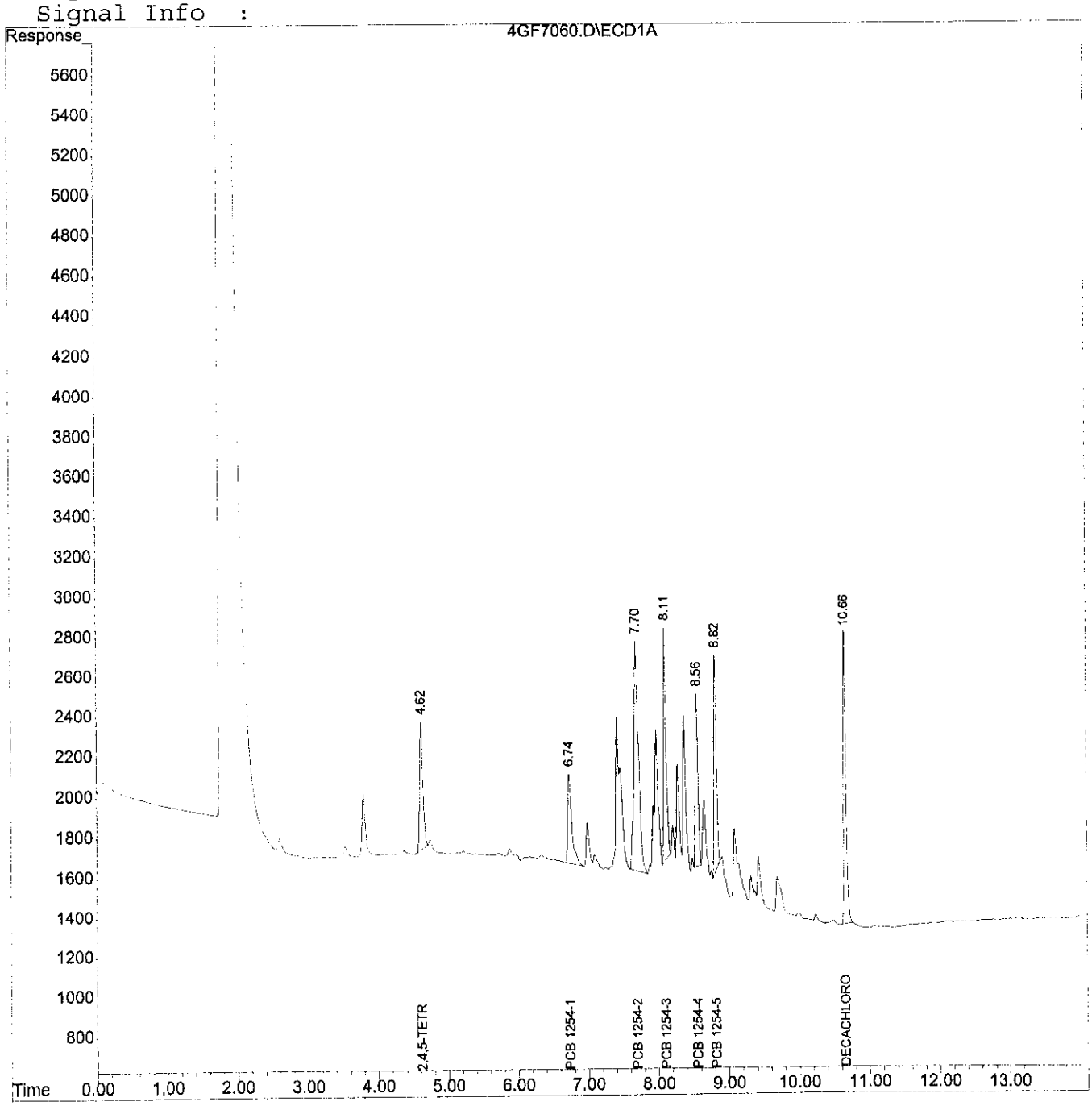
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	19870	2.108 UG/L
Spiked Amount 20.000 Range 30 - 132		Recovery =	10.54%#
7) S DECACHLOROBIPHENYL	10.66	34203	2.739 UG/L
Spiked Amount 20.000 Range 36 - 144		Recovery =	13.69%#
Target Compounds			
2) L1 PCB 1254-1	6.74	17663	69.589 UG/L
3) L1 PCB 1254-2	7.70	50916	57.855 UG/L
4) L1 PCB 1254-3	8.11	30199	55.264 UG/L
5) L1 PCB 1254-4	8.56	22709	58.372 UG/L
6) L1 PCB 1254-5	8.82	27689	54.192 UG/L
Sum PCB 1254-1		149175	295.273 UG/L
Average PCB 1254-1			59.055 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7060.D 1254F.M Fri May 04 08:21:37 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7060.D Vial: 13
Acq On : 3 May 2001 15:32 Operator: ECL
Sample : 1254 ICAL 0.05 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:21 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:19:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7061.D Vial: 14
Acq On : 3 May 2001 15:51 Operator: ECL
Sample : 1254 ALT ICV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:21:25 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5-TETRACHLORO-M-XYLENE	25.000	26.209	-4.8	101	0.00
2	L1	PCB 1254-1	500.000	555.823	-11.2	105	0.00
3	L1	PCB 1254-2	500.000	476.209	4.8	104	0.00
4	L1	PCB 1254-3	500.000	477.324	4.5	98	0.00
5	L1	PCB 1254-4	500.000	429.169	14.2	89	0.00
6	L1	PCB 1254-5	500.000	450.030	10.0	92	0.00
7	S	DECACHLOROBIPHENYL	25.000	24.872	0.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7061.D 1254F.M Fri May 04 08:22:10 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7061.D Vial: 14
Acq On : 3 May 2001 15:51 Operator: ECL
Sample : 1254 ALT ICV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:21 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:21:25 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

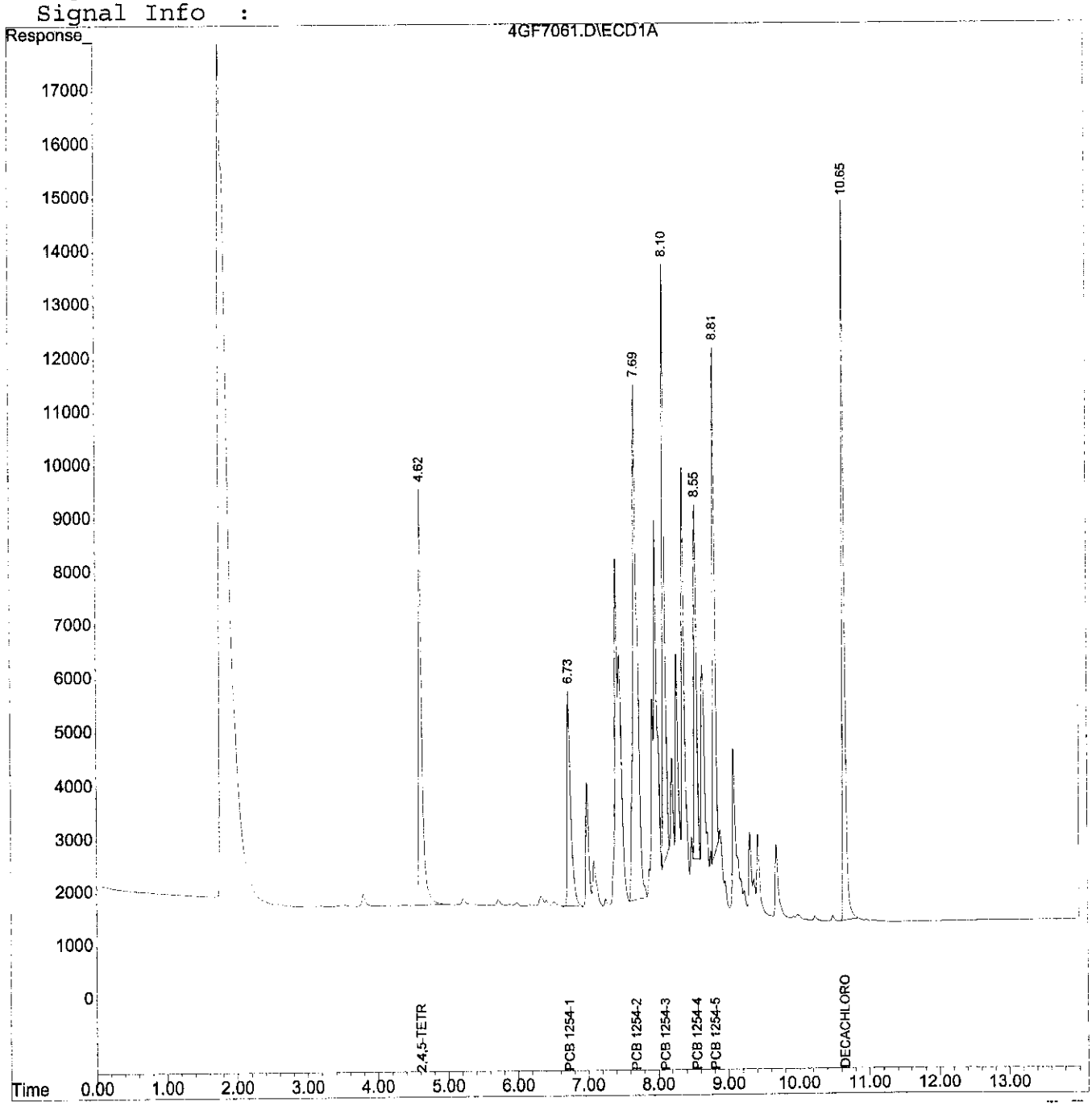
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.62	247053	26.209 UG/L
Spiked Amount 20.000	Range 30 - 132	Recovery =	131.04%
7) S DECACHLOROBIPHENYL	10.65	310564	24.872 UG/L
Spiked Amount 20.000	Range 36 - 144	Recovery =	124.36%
Target Compounds			
2) L1 PCB 1254-1	6.73	148297	555.823 UG/L
3) L1 PCB 1254-2	7.69	419094	476.209 UG/L
4) L1 PCB 1254-3	8.10	260829	477.324 UG/L
5) L1 PCB 1254-4	8.55	166962	429.169 UG/L
6) L1 PCB 1254-5	8.82	229936	450.030 UG/L
Sum PCB 1254-1		1225117	2388.555 UG/L
Average PCB 1254-1			477.711 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7061.D 1254F.M Fri May 04 08:22:14 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7061.D Vial: 14
Acq On : 3 May 2001 15:51 Operator: ECL
Sample : 1254 ALT ICV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:21 2001 Quant Results File: 1254F.RES

Quant Method : C:\HPCHEM\2\METHODS\1254F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:21:25 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report

Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:23:54 2001

Calibration Files
500 =4GF7062.D = =
= =

		Compound	500	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M-X	9.393	9.393#E3	0.00
2)	L1	PCB 1248-1	1.701	1.701#E2	0.00
3)	L1	PCB 1248-2	4.513	4.513#E2	0.00
4)	L1	PCB 1248-3	2.692	2.692#E2	0.00
5)	L1	PCB 1248-4	4.924	4.924#E2	0.00
6)	L1	PCB 1248-5	5.485	5.485#E2	0.00
7)	S	DECACHLOROBIPHENYL	1.213	1.213#E4	0.00

(#) = Out of Range
1248SF.M Fri May 04 08:24:27 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7062.D Vial: 15
Acq On : 3 May 2001 16:12 Operator: ECL
Sample : 1248 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:23 2001 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:23:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.63	234827	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
7) S DECACHLOROBIPHENYL	10.66	303151	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
Target Compounds				
2) L1 PCB 1248-1	5.72	85036	500.000	UG/L
3) L1 PCB 1248-2	6.34	225628	500.000	UG/L
4) L1 PCB 1248-3	7.00	134606	500.000	UG/L
5) L1 PCB 1248-4	7.49	246191	500.000	UG/L
6) L1 PCB 1248-5	7.70	274249	500.000	UG/L
Sum PCB 1248-1		965711	2500.000	UG/L
Average PCB 1248-1			500.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7062.D 1248SF.M Fri May 04 08:24:31 2001 Page 1

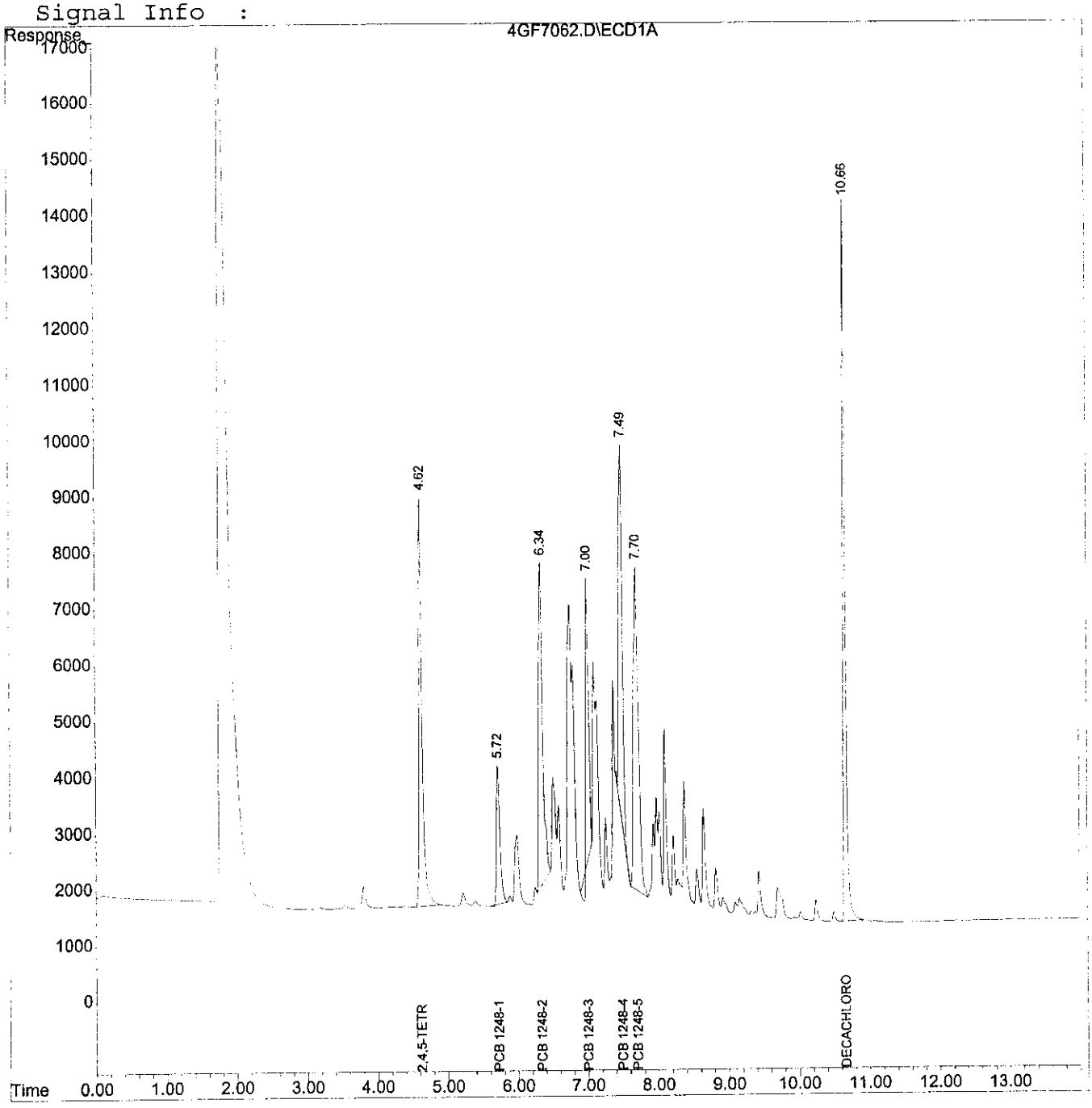
983

Data File : C:\HPCHEM\2\DATA\050301\4GF7062.D
Acq On : 3 May 2001 16:12
Sample : 1248 0.5 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:23 2001 Quant Results File: 1248SF.RES

Vial: 15
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:23:54 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7063.D Vial: 16
Acq On : 3 May 2001 16:30 Operator: ECL
Sample : 1248 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:23:54 2001
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB 1248-1	500.000	469.762	6.0	94	0.00
3	L1	PCB 1248-2	500.000	403.888	19.2#	81	0.00
4	L1	PCB 1248-3	500.000	505.188	-1.0	101	0.00
5	L1	PCB 1248-4	500.000	446.104	10.8	89	0.00
6	L1	PCB 1248-5	500.000	516.726	-3.3	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7063.D 1248SF.M Fri May 04 08:25:33 2001 Page 1

985

Data File : C:\HPCHEM\2\DATA\050301\4GF7063.D Vial: 16
Acq On : 3 May 2001 16:30 Operator: ECL
Sample : 1248 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:25 2001 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:23:54 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

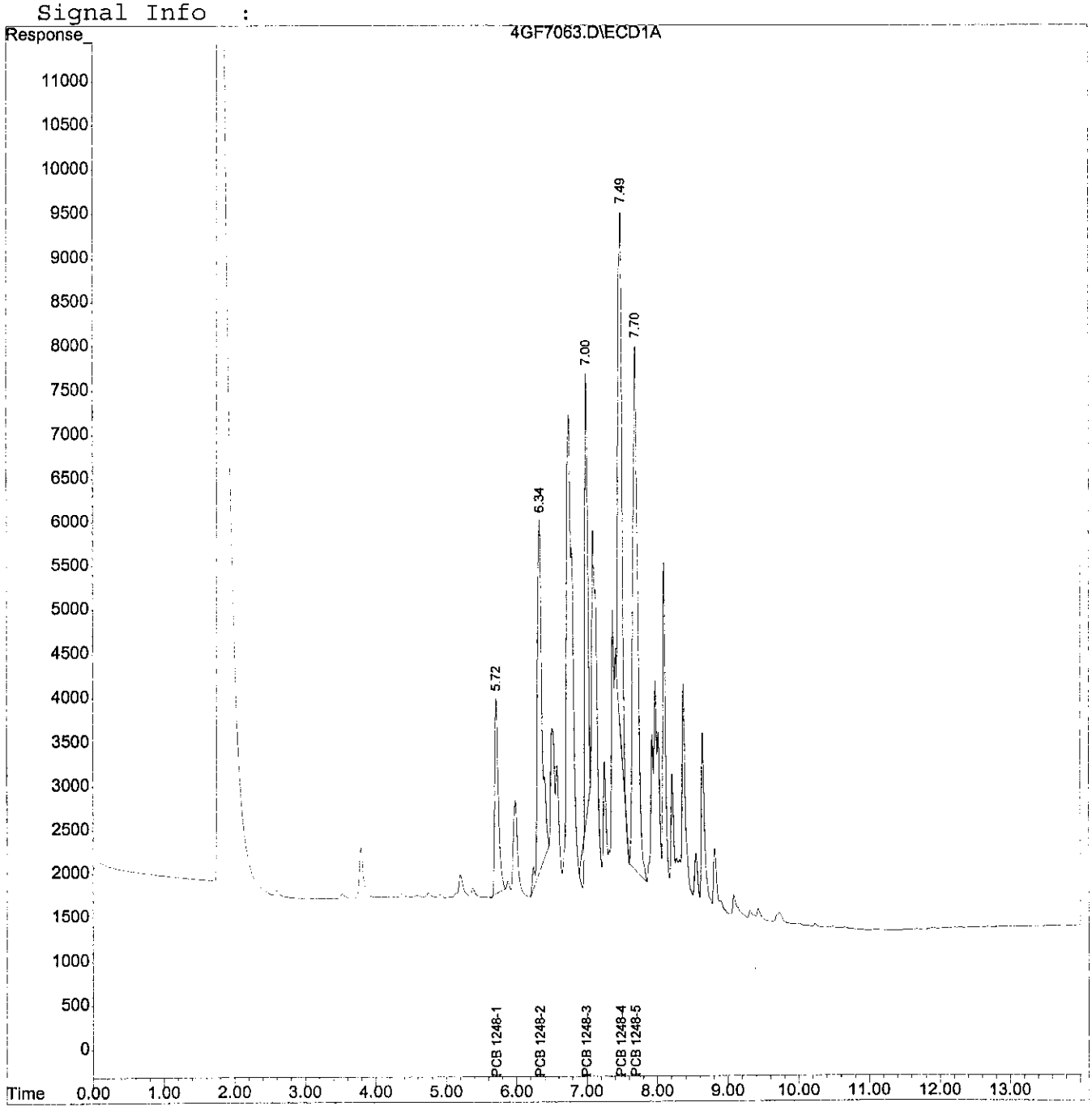
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1248-1	5.72	79894	469.762	UG/L
3) L1 PCB 1248-2	6.34	182257	403.888	UG/L
4) L1 PCB 1248-3	7.00	136003	505.188	UG/L
5) L1 PCB 1248-4	7.49	219654	446.104	UG/L
6) L1 PCB 1248-5	7.70	283423	516.726	UG/L
Sum PCB 1248-1		901230	2341.668	UG/L
Average PCB 1248-1			468.334	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7063.D 1248SF.M Fri May 04 08:25:40 2001 Page 486

Data File : C:\HPCHEM\2\DATA\050301\4GF7063.D Vial: 16
Acq On : 3 May 2001 16:30 Operator: ECL
Sample : 1248 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:25 2001 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:23:54 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:26:26 2001

Calibration Files
500 =4GF7064.D = =
= =

		Compound	500	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M-X	9.648	9.648#E3	0.00
2)	L1	PCB 1242-1	1.361	1.361#E2	0.00
3)	L1	PCB 1242-2	3.135	3.135#E2	0.00
4)	L1	PCB 1242-3	1.821	1.821#E2	0.00
5)	L1	PCB 1242-4	4.899	4.899#E2	0.00
6)	L1	PCB 1242-5	2.067	2.067#E2	0.00
7)	S	DECACHLOROBIPHENYL	8.450	8.450#E3	0.00

(#) = Out of Range
1242SF.M Fri May 04 08:26:53 2001 988 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7064.D Vial: 17
Acq On : 3 May 2001 16:49 Operator: ECL
Sample : 1242 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:26 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:26:26 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.62	241203	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
7) S DECACHLOROBIPHENYL	10.66	211262	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
Target Compounds				
2) L1 PCB 1242-1	5.21	68038	500.000	UG/L
3) L1 PCB 1242-2	5.72	156732	500.000	UG/L
4) L1 PCB 1242-3	6.00	91070	500.000	UG/L
5) L1 PCB 1242-4	6.34	244928	500.000	UG/L
6) L1 PCB 1242-5	7.00	103353	500.000	UG/L
Sum PCB 1242-1		664121	2500.000	UG/L
Average PCB 1242-1			500.000	UG/L

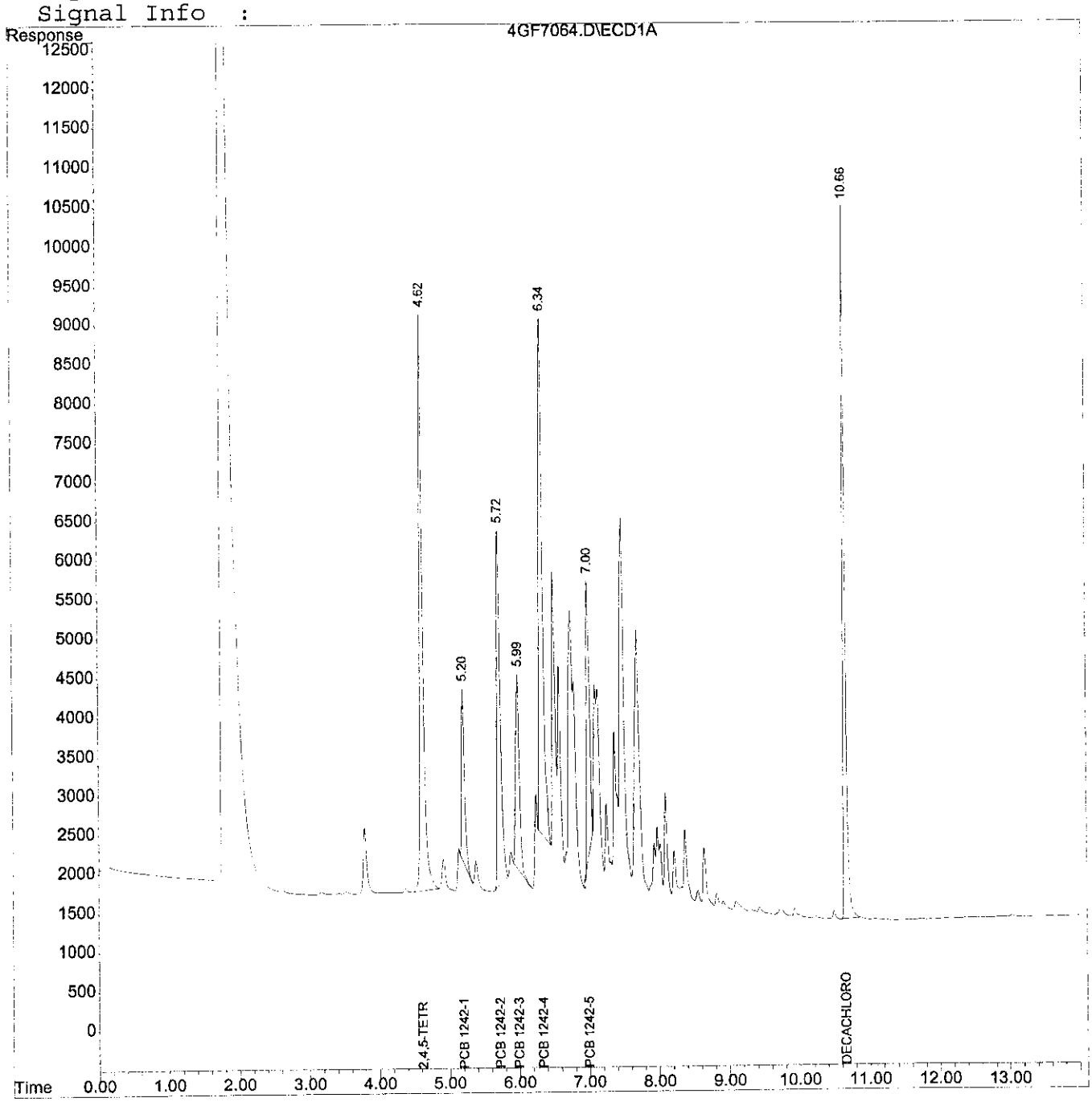
(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7064.D 1242SF.M Fri May 04 08:26:57 2001 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7064.D
Acq On : 3 May 2001 16:49
Sample : 1242 0.5 PPM
Misc :
IntFile : events.e
Quant Time: May 4 8:26 2001 Quant Results File: 1242SF.RES

Vial: 17
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:26:26 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



990

Data File : C:\HPCHEM\2\DATA\050301\4GF7065.D Vial: 18
Acq On : 3 May 2001 17:08 Operator: ECL
Sample : 1242 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:26:26 2001
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB 1242-1	500.000	491.745	1.7	98	0.00
3	L1	PCB 1242-2	500.000	512.571	-2.5	103	0.00
4	L1	PCB 1242-3	500.000	515.965	-3.2	103	0.00
5	L1	PCB 1242-4	500.000	502.325	-0.5	100	0.00
6	L1	PCB 1242-5	500.000	506.594	-1.3	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7065.D 1242SF.M Fri May 04 08:27:45 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7065.D Vial: 18
Acq On : 3 May 2001 17:08 Operator: ECL
Sample : 1242 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:27 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:26:26 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1242-1	5.20	66915	491.745	UG/L
3) L1 PCB 1242-2	5.72	160672	512.571	UG/L
4) L1 PCB 1242-3	5.99	93978	515.965	UG/L
5) L1 PCB 1242-4	6.34	246066	502.325	UG/L
6) L1 PCB 1242-5	7.00	104716	506.594	UG/L
Sum PCB 1242-1		672348	2529.199	UG/L
Average PCB 1242-1			505.840	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7065.D 1242SF.M Fri May 04 08:27:50 2001 Page 1

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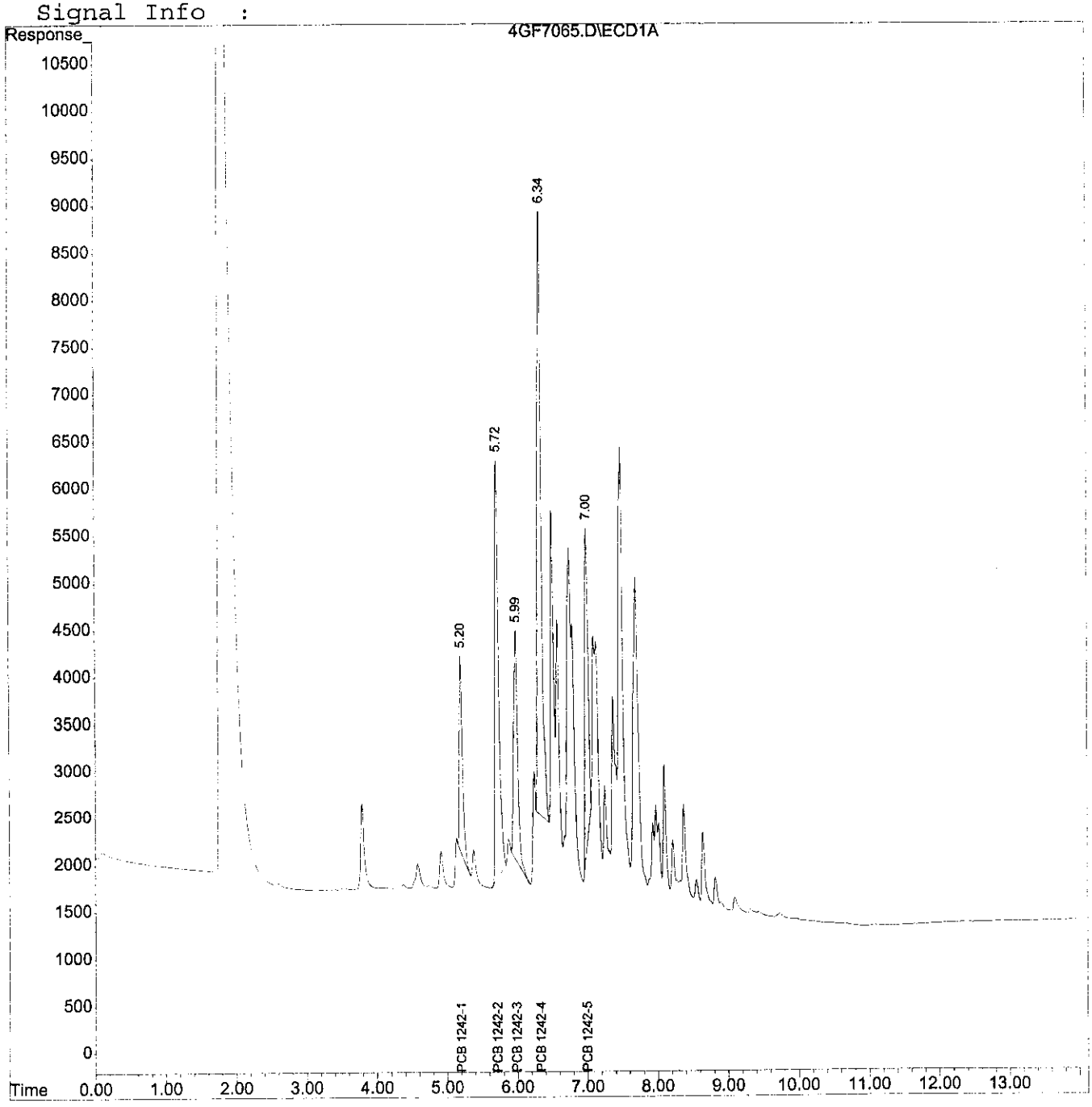
Data File : C:\HPCHEM\2\DATA\050301\4GF7065.D Vial: 18
Acq On : 3 May 2001 17:08 Operator: ECL
Sample : 1242 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:27 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:26:26 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:29:19 2001

Calibration Files
500 =4GF7066.D = =
= =

		Compound	500	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M-X	9.289	9.289#E3	0.00
2)	L1	PCB 1232-1	1.433	1.433#E2	0.00
3)	L1	PCB 1232-2	1.694	1.694#E2	0.00
4)	L1	PCB 1232-3	8.304	8.304#E1	0.00
5)	L1	PCB 1232-4	2.618	2.618#E2	0.00
6)	L1	PCB 1232-5	1.251	1.251#E2	0.00
7)	S	DECACHLOROBIPHENYL	1.161	1.161#E4	0.00

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\050301\4GF7066.D Vial: 19
Acq On : 3 May 2001 17:26 Operator: ECL
Sample : 1232 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:29 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

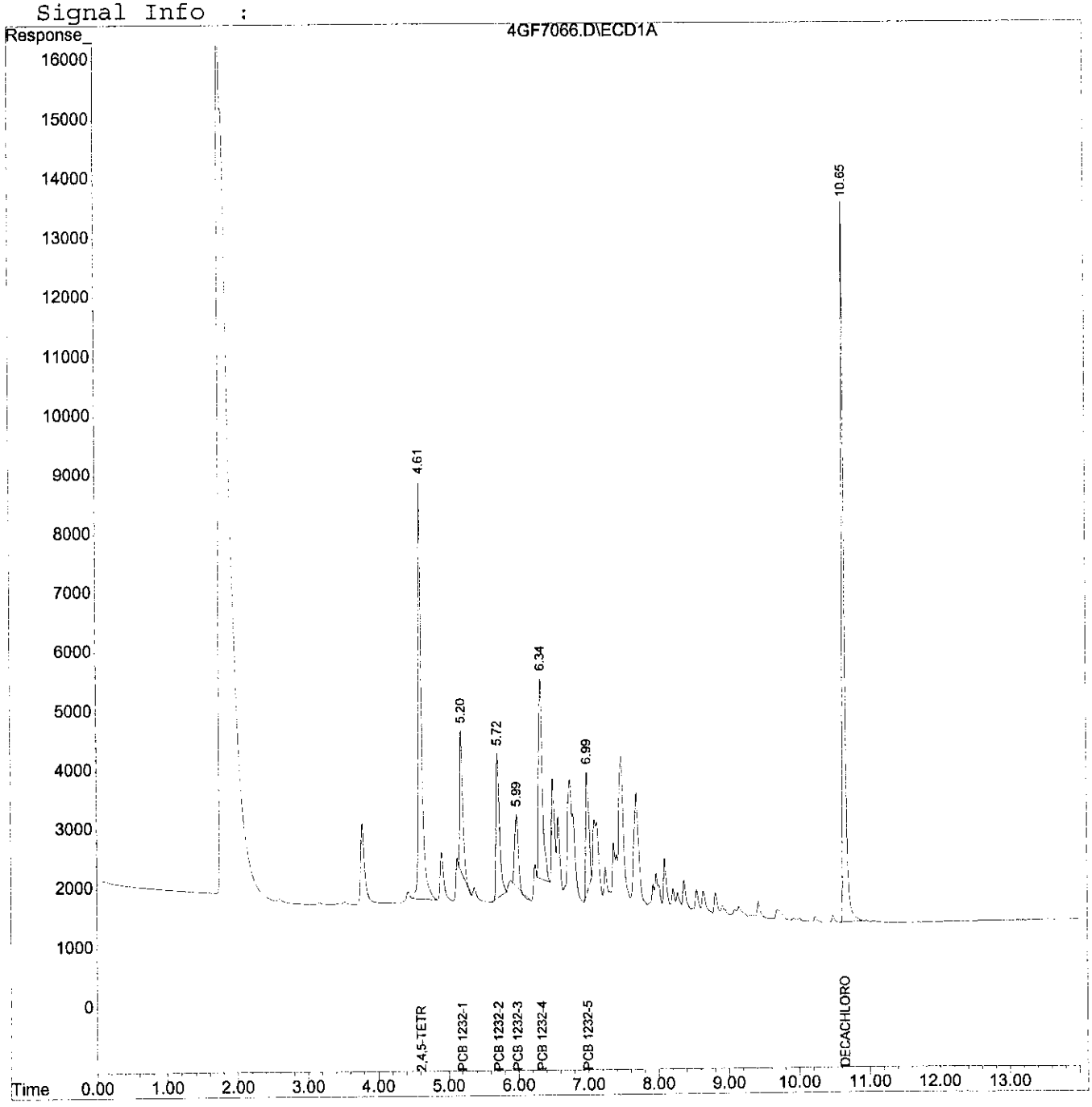
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.62	232218	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
7) S DECACHLOROBIPHENYL	10.65	290188	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
Target Compounds				
2) L1 PCB 1232-1	5.20	71642	500.000	UG/L
3) L1 PCB 1232-2	5.72	84684	500.000	UG/L
4) L1 PCB 1232-3	5.99	41522	500.000	UG/L
5) L1 PCB 1232-4	6.34	130880	500.000	UG/L
6) L1 PCB 1232-5	7.00	62571	500.000	UG/L
Sum PCB 1232-1		391300	2500.000	UG/L
Average PCB 1232-1			500.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\050301\4GF7066.D Vial: 19
Acq On : 3 May 2001 17:26 Operator: ECL
Sample : 1232 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:29 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:29:19 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7067.D
Acq On : 3 May 2001 17:45
Sample : 1232 ALT 0.5 PPM
Misc :
IntFile : events.e

Vial: 20
Operator: ECL
Inst : HP 4
Multiplr: 1.00

Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:29:19 2001
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB 1232-1	500.000	572.414	-14.5	114	0.00
3	L1	PCB 1232-2	500.000	511.765	-2.4	102	0.00
4	L1	PCB 1232-3	500.000	492.312	1.5	98	0.00
5	L1	PCB 1232-4	500.000	508.602	-1.7	102	0.00
6	L1	PCB 1232-5	500.000	429.302	14.1	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7067.D 1232SF.M Fri May 04 08:31:59 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7067.D Vial: 20
Acq On : 3 May 2001 17:45 Operator: ECL
Sample : 1232 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:31 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

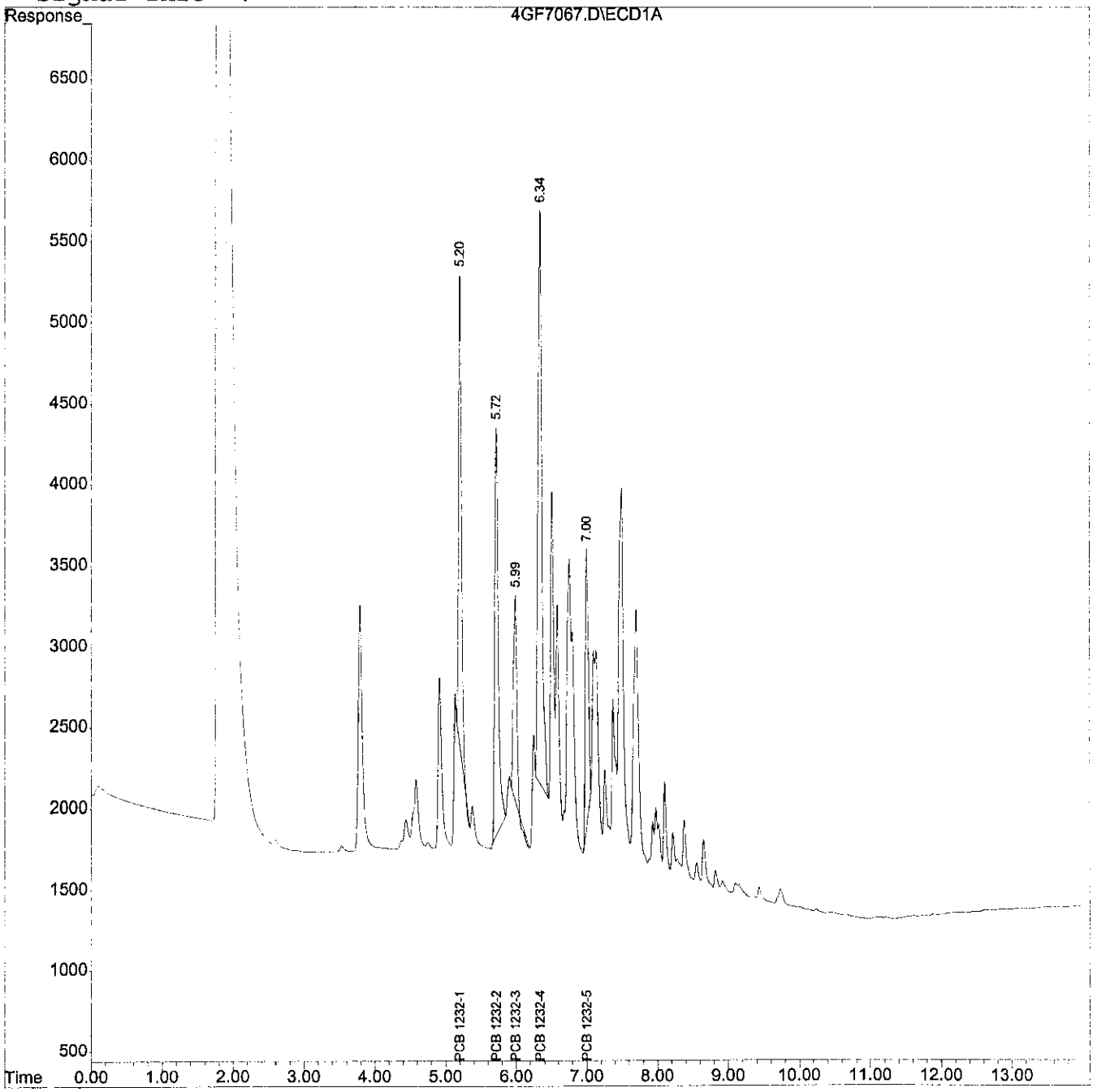
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1232-1	5.20	82018	572.414	UG/L
3) L1 PCB 1232-2	5.72	86676	511.765	UG/L
4) L1 PCB 1232-3	6.00	40884	492.312	UG/L
5) L1 PCB 1232-4	6.34	133132	508.602	UG/L
6) L1 PCB 1232-5	7.00	53724	429.302	UG/L
Sum PCB 1232-1		396434	2514.394	UG/L
Average PCB 1232-1			502.879	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7067.D 1232SF.M Fri May 04 08:32:03 2001 998 Page 1

Data File : C:\HPCHEM\2\DATA\050301\4GF7067.D Vial: 20
Acq On : 3 May 2001 17:45 Operator: ECL
Sample : 1232 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:31 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Fri May 04 08:29:19 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001

Calibration Files
500 =4GF7068.D = =
= =

		Compound	500	Avg	%RSD
1)	S	2,4,5-TETRACHLORO-M-X	9.858	9.858#E3	0.00
2)	L1	PCB 1221-1	1.431	1.431#E2	0.00
3)	L1	PCB 1221-2	1.073	1.073#E2	0.00
4)	L1	PCB 1221-3	1.875	1.875#E2	0.00
5)	L1	PCB 1221-4	1.941	1.941#E1	0.00
6)	L1	PCB 1221-5	3.967	3.967#E1	0.00
7)	S	DECACHLOROBIPHENYL	1.110	1.110#E4	0.00

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\050301\4GF7068.D Vial: 21
Acq On : 3 May 2001 18:03 Operator: ECL
Sample : 1221 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:32 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	4.61	246451	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
7) S DECACHLOROBIPHENYL	10.65	277542	25.000	UG/L
Spiked Amount 20.000		Recovery =	125.00%	
Target Compounds				
2) L1 PCB 1221-1	3.77	71532	500.000	UG/L
3) L1 PCB 1221-2	4.90	53628	500.000	UG/L
4) L1 PCB 1221-3	5.19	93746	500.000	UG/L
5) L1 PCB 1221-4	5.71	9706	500.000	UG/L
6) L1 PCB 1221-5	6.33	19836	500.000	UG/L
Sum PCB 1221-1		248448	2500.000	UG/L
Average PCB 1221-1			500.000	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7068.D 1221SF.M Fri May 04 08:33:04 2001 Page 1

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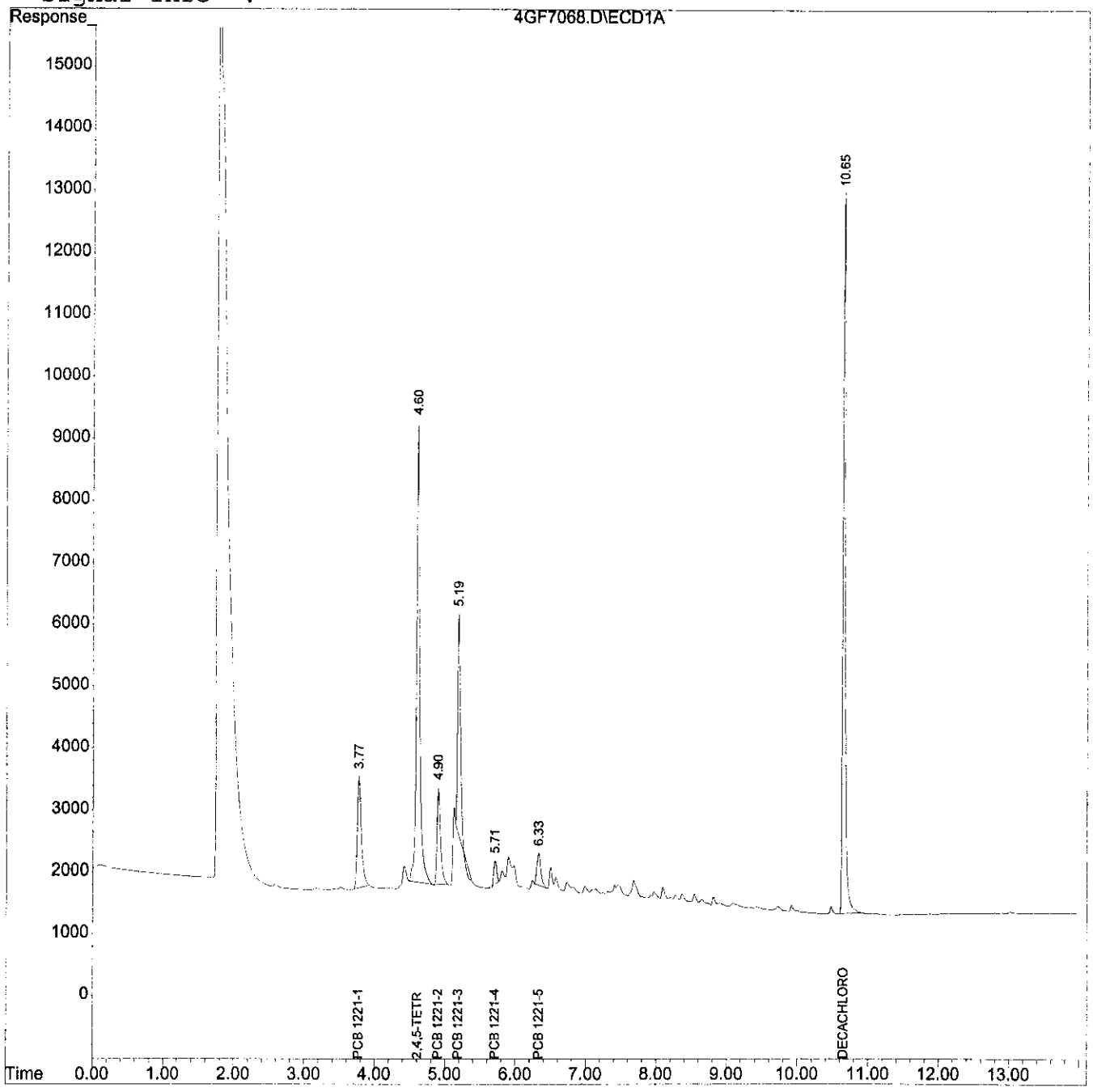
Data File : C:\HPCHEM\2\DATA\050301\4GF7068.D Vial: 21
Acq On : 3 May 2001 18:03 Operator: ECL
Sample : 1221 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:32 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\050301\4GF7069.D Vial: 22
Acq On : 3 May 2001 18:22 Operator: ECL
Sample : 1221 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001
Response via : Single Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB 1221-1	500.000	536.492	-7.3	107	0.00
3	L1	PCB 1221-2	500.000	498.931	0.2	100	0.00
4	L1	PCB 1221-3	500.000	489.959	2.0	98	0.00
5	L1	PCB 1221-4	500.000	560.917	-12.2	112	0.00
6	L1	PCB 1221-5	500.000	488.847	2.2	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7069.D 1221SF.M Fri May 04 08:33:43 2001 Page 1

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Data File : C:\HPCHEM\2\DATA\050301\4GF7069.D Vial: 22
Acq On : 3 May 2001 18:22 Operator: ECL
Sample : 1221 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:33 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

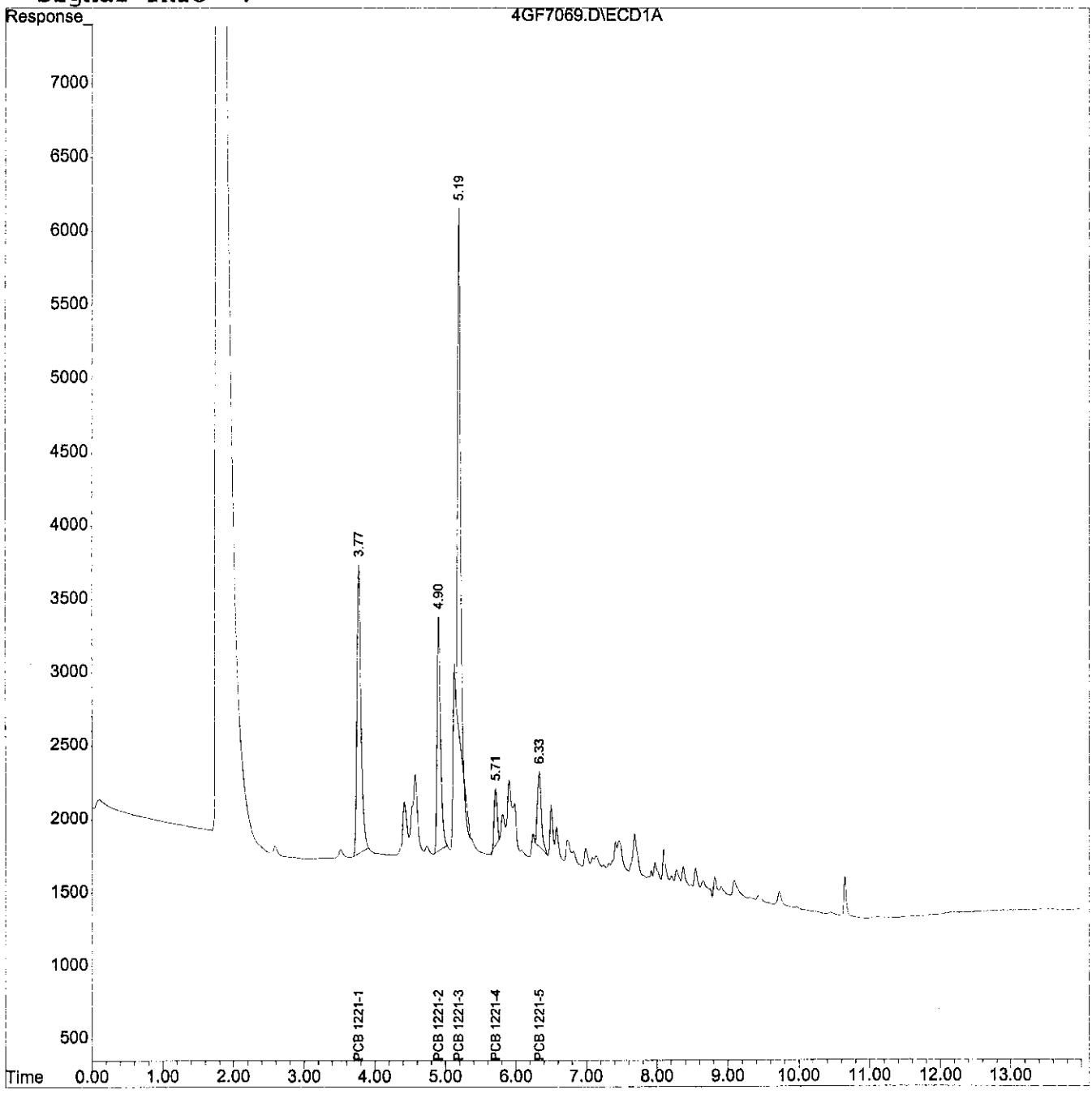
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5-TETRACHLORO-M-XYLENE	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
7) S DECACHLOROBIPHENYL	0.00	0	N.D.	UG/L
Spiked Amount 20.000	Recovery	=	0.00%	
Target Compounds				
2) L1 PCB 1221-1	3.77	76752	536.492	UG/L
3) L1 PCB 1221-2	4.90	53513	498.931	UG/L
4) L1 PCB 1221-3	5.19	91864	489.959	UG/L
5) L1 PCB 1221-4	5.71	10888	560.917	UG/L
6) L1 PCB 1221-5	6.34	19394	488.847	UG/L
Sum PCB 1221-1		252411	2575.146	UG/L
Average PCB 1221-1			515.029	UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7069.D 1221SF.M Fri May 04 08:33:47 2001 1004 Page 1

Acq On : 3 May 2001 18:22 Operator: ECL
Sample : 1221 ALT 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 4 8:33 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : CALIBRATION April 25, 2001
Last Update : Fri May 04 08:32:41 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7238.D Vial: 1
Acq On : 22 May 2001 11:35 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Tue May 22 11:53:13 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	25.000	26.686	-6.7	109	-0.02
2	L1	Aroclor-1016 (1)	500.000	500.606	-0.1	111	-0.02
3	L1	Aroclor-1016 (2)	500.000	516.506	-3.3	116	-0.01
4	L1	Aroclor-1016 (3)	500.000	521.895	-4.4	116	0.00
5	L1	Aroclor-1016 (4)	500.000	516.934	-3.4	116	0.00
6	L1	Aroclor-1016 (5)	500.000	563.782	-12.8	125	0.00
7	L2	Aroclor-1260 (1)	500.000	517.246	-3.4	112	0.00
8	L2	Aroclor-1260 (2)	500.000	508.154	-1.6	112	0.00
9	L2	Aroclor-1260 (3)	500.000	528.711	-5.7	118	0.01
10	L2	Aroclor-1260 (4)	500.000	485.747	2.9	109	0.01
11	L2	Aroclor-1260 (5)	500.000	493.681	1.3	107	0.01
12	S	Decachlorobiphenyl	25.000	23.887	4.5	104	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7238.D 1660F.M Tue May 22 11:53:38 2001 1006 Page 1

Data File : C:\HPCHEM\2\DATA\052201\4GF7238.D Vial: 1
Acq On : 22 May 2001 11:35 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 22 11:53 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Tue May 22 11:53:13 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

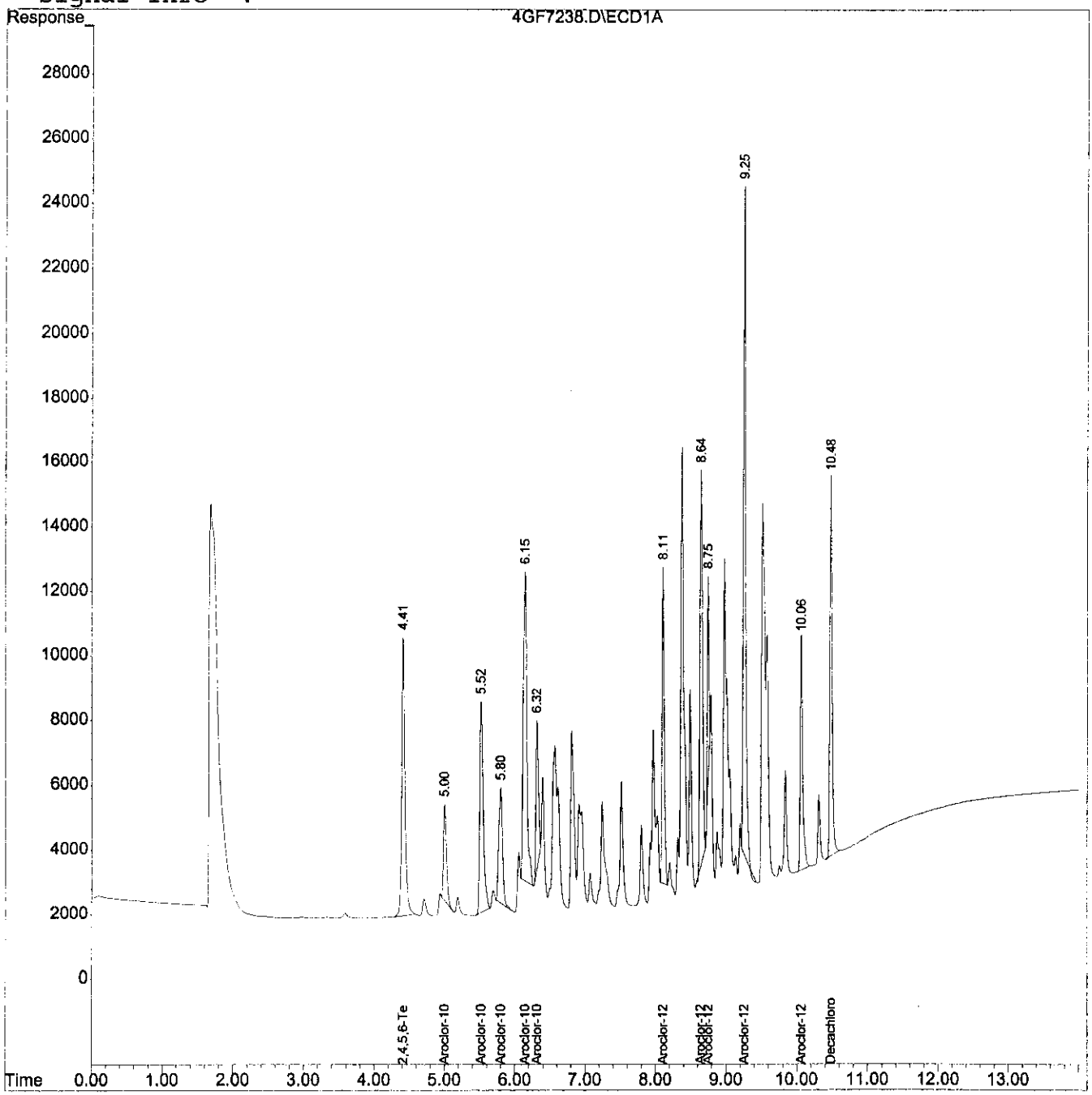
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.41	269808	26.686 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 133.43%	
12) S Decachlorobiphenyl	10.48	260148	23.887 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 119.44%	
Target Compounds			
2) L1 Aroclor-1016 (1)	5.00	87201	500.606 UG/L
3) L1 Aroclor-1016 (2)	5.52	221703	516.506 UG/L
4) L1 Aroclor-1016 (3)	5.80	130695	521.895 UG/L
5) L1 Aroclor-1016 (4)	6.15	345214	516.934 UG/L
6) L1 Aroclor-1016 (5)	6.32	106982	563.782 UG/L
Sum Aroclor-1016 (1)		891796	2619.723 UG/L
Average Aroclor-1016 (1)			523.945 UG/L
7) L2 Aroclor-1260 (1)	8.11	215268	517.246 UG/L
8) L2 Aroclor-1260 (2)	8.64	314036	508.154 UG/L
9) L2 Aroclor-1260 (3)	8.75	92502	528.711 UG/L
10) L2 Aroclor-1260 (4)	9.25	460424	485.747 UG/L
11) L2 Aroclor-1260 (5)	10.06	172695	493.681 UG/L
Sum Aroclor-1260 (1)		1254926	2533.539 UG/L
Average Aroclor-1260 (1)			506.708 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7238.D Vial: 1
Acq On : 22 May 2001 11:35 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 22 11:53 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Tue May 22 11:53:13 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7249.D Vial: 12
Acq On : 22 May 2001 15:11 Operator: ECL
Sample : 1660 CCV 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	12.500	12.466	0.3	96	0.00
2	L1	Aroclor-1016 (1)	250.000	281.069	-12.4	111	0.00
3	L1	Aroclor-1016 (2)	250.000	277.764	-11.1	111	0.00
4	L1	Aroclor-1016 (3)	250.000	250.049	-0.0	99	0.00
5	L1	Aroclor-1016 (4)	250.000	277.095	-10.8	113	0.00
6	L1	Aroclor-1016 (5)	250.000	265.226	-6.1	110	0.00
7	L2	Aroclor-1260 (1)	250.000	277.770	-11.1	108	0.00
8	L2	Aroclor-1260 (2)	250.000	260.785	-4.3	106	0.00
9	L2	Aroclor-1260 (3)	250.000	257.870	-3.1	108	0.00
10	L2	Aroclor-1260 (4)	250.000	273.609	-9.4	110	0.00
11	L2	Aroclor-1260 (5)	250.000	269.531	-7.8	107	0.00
12	S	Decachlorobiphenyl	12.500	13.244	-6.0	104	0.00

Data File : C:\HPCHEM\2\DATA\052201\4GF7249.D Vial: 12
Acq On : 22 May 2001 15:11 Operator: ECL
Sample : 1660 CCV 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 23 10:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

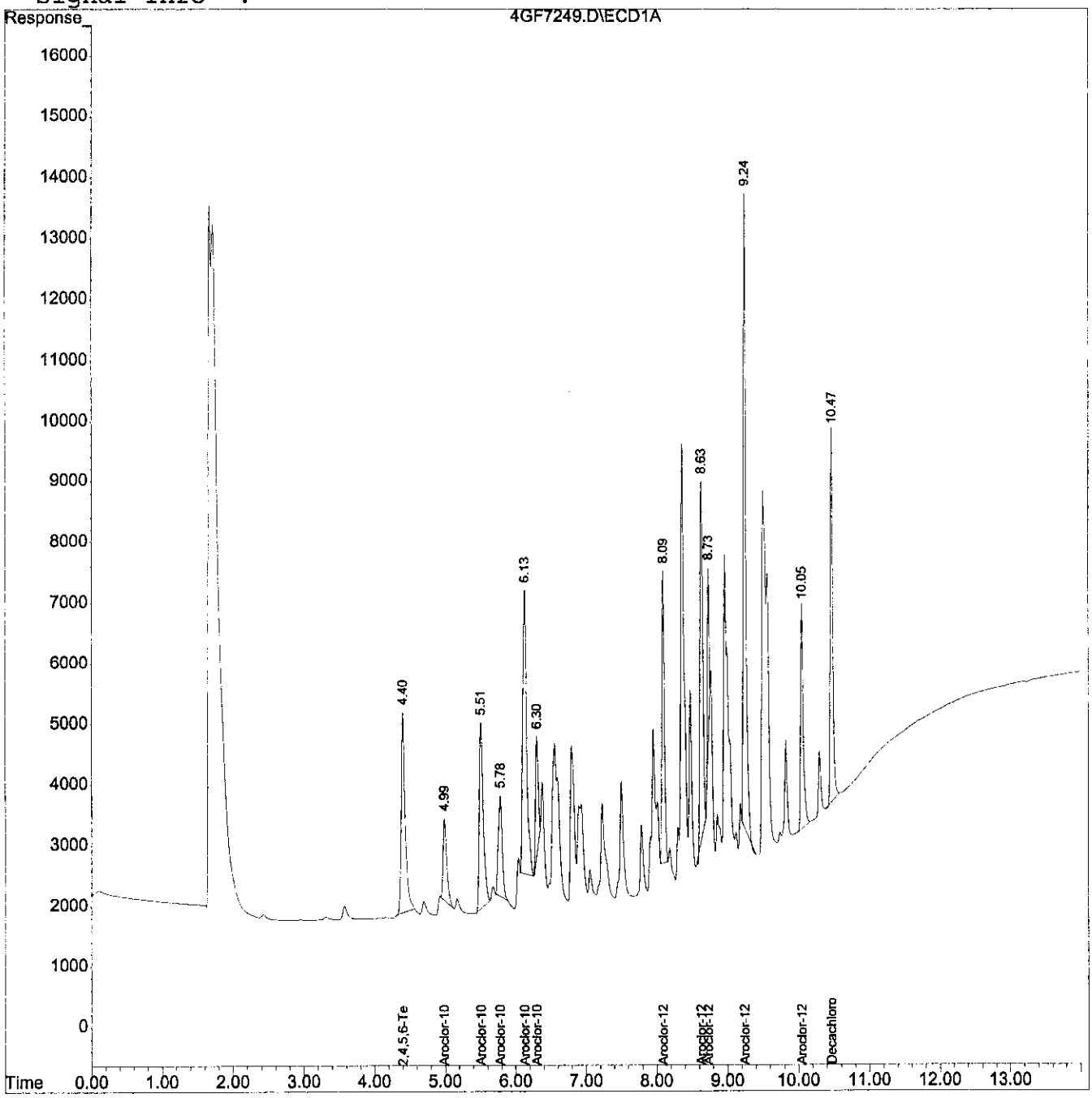
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.40	126039	12.466 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.33%
12) S Decachlorobiphenyl	10.47	144231	13.244 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	66.22%
Target Compounds			
2) L1 Aroclor-1016 (1)	4.99	48960	281.069 UG/L
3) L1 Aroclor-1016 (2)	5.51	119226	277.764 UG/L
4) L1 Aroclor-1016 (3)	5.79	62618	250.049 UG/L
5) L1 Aroclor-1016 (4)	6.13	185047	277.095 UG/L
6) L1 Aroclor-1016 (5)	6.30	50329	265.226 UG/L
Sum Aroclor-1016 (1)		466180	1351.203 UG/L
Average Aroclor-1016 (1)			270.241 UG/L
7) L2 Aroclor-1260 (1)	8.10	115603	277.770 UG/L
8) L2 Aroclor-1260 (2)	8.63	161163	260.785 UG/L
9) L2 Aroclor-1260 (3)	8.74	45117	257.870 UG/L
10) L2 Aroclor-1260 (4)	9.24	259345	273.609 UG/L
11) L2 Aroclor-1260 (5)	10.05	94285	269.531 UG/L
Sum Aroclor-1260 (1)		675513	1339.566 UG/L
Average Aroclor-1260 (1)			267.913 UG/L

Data File : C:\HPCHEM\2\DATA\052201\4GF7249.D Vial: 12
Acq On : 22 May 2001 15:11 Operator: ECL
Sample : 1660 CCV 0.25 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 23 10:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7255.D Vial: 18
Acq On : 22 May 2001 16:58 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Multiple Level Calibration

Min. RRF : 15.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	25.000	26.870	-7.5	110	0.00
2	L1	Aroclor-1016 (1)	500.000	508.917	-1.8	113	0.00
3	L1	Aroclor-1016 (2)	500.000	511.070	-2.2	115	0.00
4	L1	Aroclor-1016 (3)	500.000	501.500	-0.3	111	0.00
5	L1	Aroclor-1016 (4)	500.000	526.447	-5.3	118	0.00
6	L1	Aroclor-1016 (5)	500.000	540.676	-8.1	120	0.00
7	L2	Aroclor-1260 (1)	500.000	508.878	-1.8	111	0.00
8	L2	Aroclor-1260 (2)	500.000	494.368	1.1	109	0.00
9	L2	Aroclor-1260 (3)	500.000	507.626	-1.5	113	0.00
10	L2	Aroclor-1260 (4)	500.000	501.030	-0.2	112	0.00
11	L2	Aroclor-1260 (5)	500.000	514.483	-2.9	111	0.00
12	S	Decachlorobiphenyl	25.000	24.388	2.4	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4GF7255.D 1660F.M Wed May 23 10:08:07 2001 Page 1

1012

Data File : C:\HPCHEM\2\DATA\052201\4GF7255.D Vial: 18
Acq On : 22 May 2001 16:58 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 23 10:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

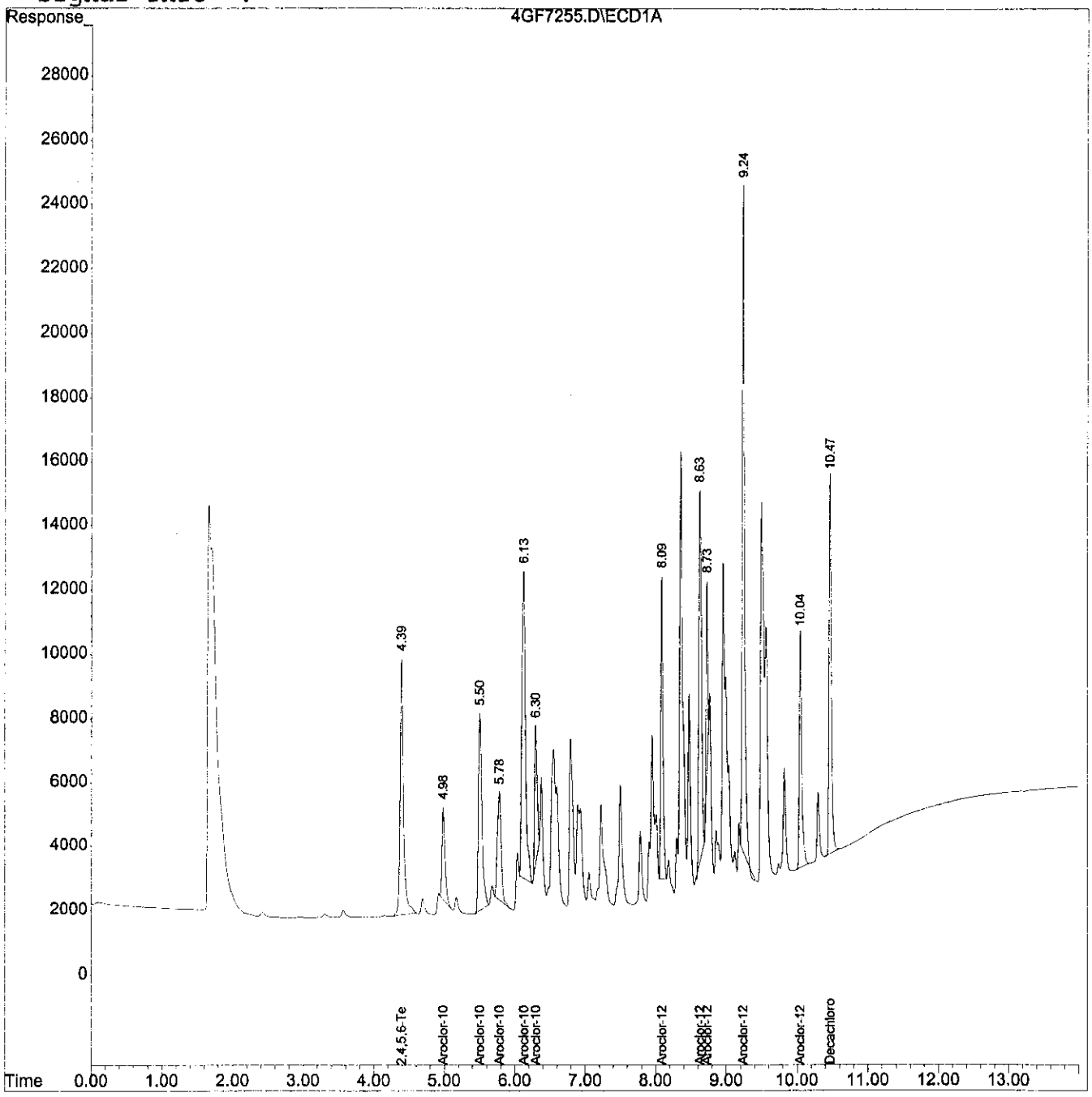
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.39	271660	26.870 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery = 134.35%	
12) S Decachlorobiphenyl	10.47	265595	24.388 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery = 121.94%	
Target Compounds			
2) L1 Aroclor-1016 (1)	4.98	88649	508.917 UG/L
3) L1 Aroclor-1016 (2)	5.51	219369	511.070 UG/L
4) L1 Aroclor-1016 (3)	5.78	125588	501.500 UG/L
5) L1 Aroclor-1016 (4)	6.13	351568	526.447 UG/L
6) L1 Aroclor-1016 (5)	6.30	102598	540.676 UG/L
Sum Aroclor-1016 (1)		887771	2588.611 UG/L
Average Aroclor-1016 (1)			517.722 UG/L
7) L2 Aroclor-1260 (1)	8.09	211786	508.878 UG/L
8) L2 Aroclor-1260 (2)	8.63	305516	494.368 UG/L
9) L2 Aroclor-1260 (3)	8.73	88814	507.626 UG/L
10) L2 Aroclor-1260 (4)	9.24	474911	501.030 UG/L
11) L2 Aroclor-1260 (5)	10.05	179972	514.483 UG/L
Sum Aroclor-1260 (1)		1260998	2526.386 UG/L
Average Aroclor-1260 (1)			505.277 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7255.D Vial: 18
Acq On : 22 May 2001 16:58 Operator: ECL
Sample : 1660 CCV 0.5 PPM Inst : HP 4
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: May 23 10:07 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 10:06:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-4

GC Column: RTx-CLP

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	05/17/00	05/18/00	05/19/00
File #	4GF3932	4GF3951	4GF3982

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
AR 1016 #1	4.49	4.46	4.45	0.062
AR 1016 #2	4.79	4.76	4.76	0.052
AR 1016 #3	5.17	5.14	5.14	0.052
AR 1016 #4	5.35	5.33	5.32	0.046
AR 1016 #5	5.87	5.85	5.85	0.035
AR 1260 #1	7.21	7.20	7.20	0.017
AR 1260 #2	7.49	7.47	7.47	0.035
AR 1260 #3	7.76	7.74	7.74	0.035
AR 1260 #4	8.38	8.37	8.37	0.017
AR 1260 #5	9.20	9.19	9.18	0.030

2.2.3.4 Raw QC Data

Data File : C:\HPCHEM\2\DATA\052201\4GF7239.D Vial: 2
Acq On : 22 May 2001 12:12 Operator: ECL
Sample : WG97755-02 BLANK V163 P147 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.44	114546	11.330	UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	56.65%	
12) S Decachlorobiphenyl	10.52	141601	13.002	UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	65.01%	
Target Compounds				
2) L1 Aroclor-1016 (1)	0.00	0	N.D.	UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D.	UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D.	UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D.	UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1016 (1)		0	N.D.	UG/L
Average Aroclor-1016 (1)			0.000	UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D.	UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D.	UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D.	UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D.	UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D.	UG/L
Sum Aroclor-1260 (1)		0	N.D.	UG/L
Average Aroclor-1260 (1)			0.000	UG/L

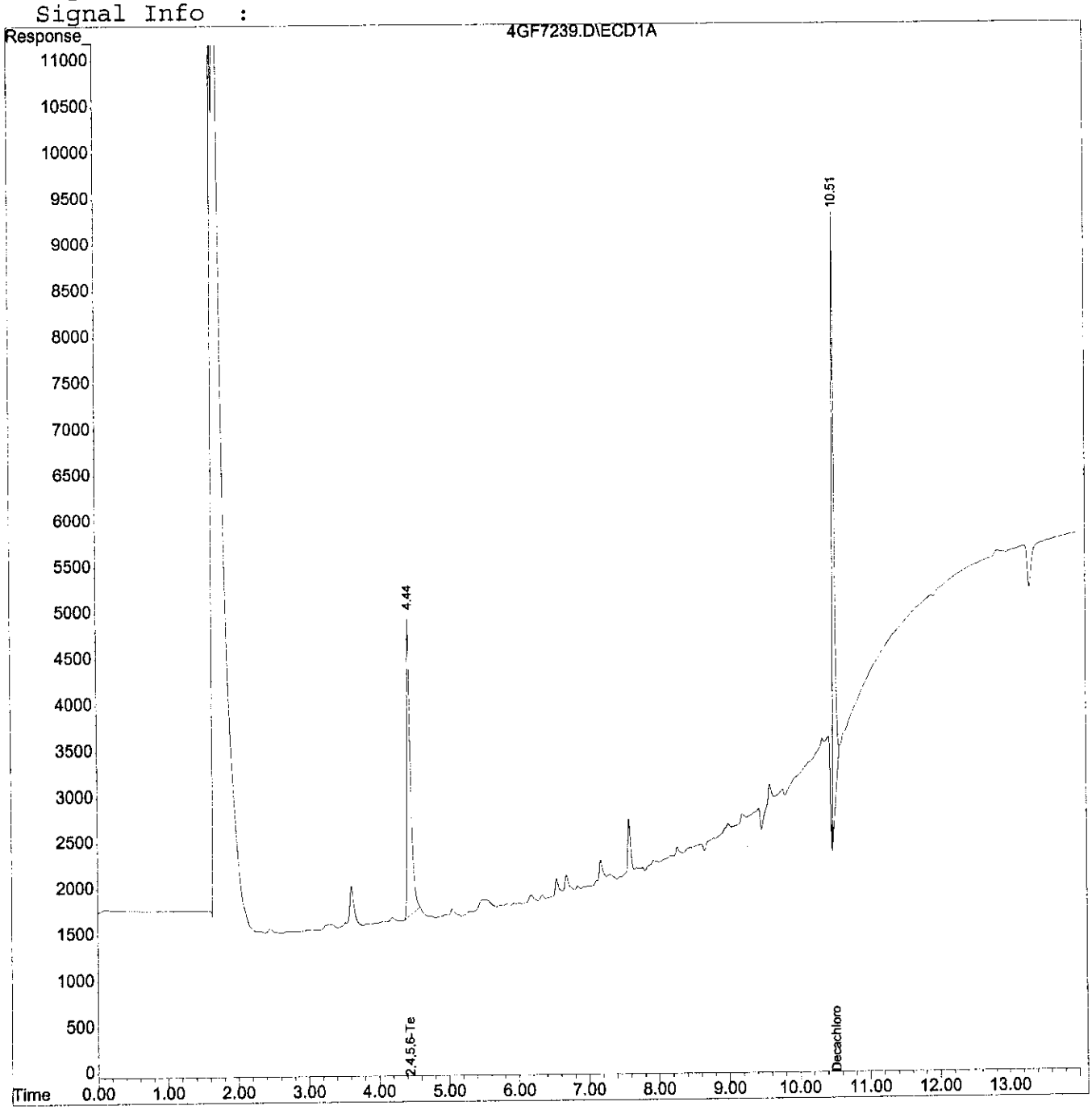
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7239.D
Acq On : 22 May 2001 12:12
Sample : WG97755-02 BLANK V163 P147
Misc : 7,1
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Vial: 2
Operator: ECL
Inst : HP 4
Multiplr: 0.33

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7252.D Vial: 15
Acq On : 22 May 2001 16:04 Operator: ECL
Sample : WG97759-01 BLANK V163 P141 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

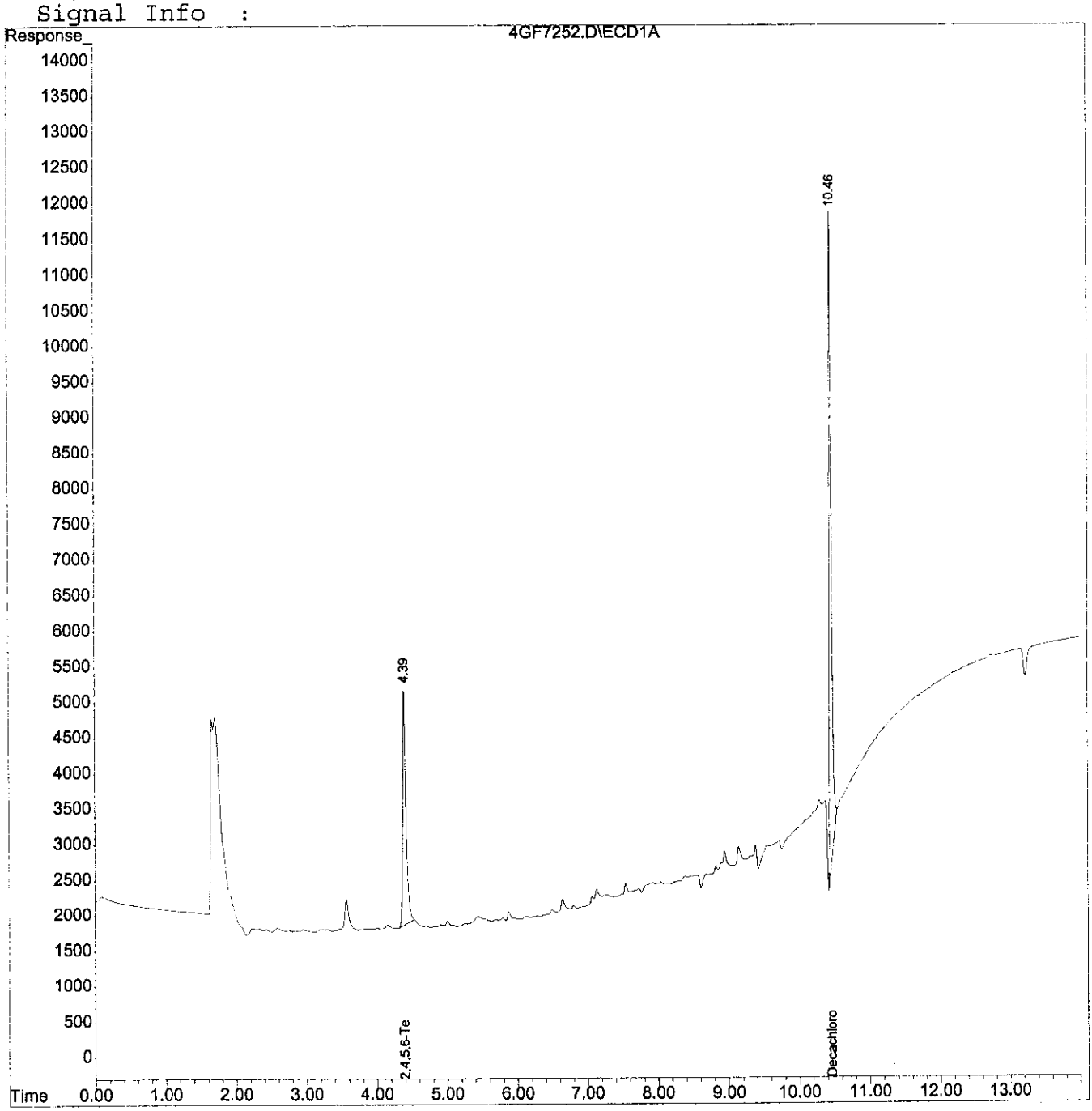
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.39	105634	10.448 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	52.24%
12) S Decachlorobiphenyl	10.46	200339	18.396 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	91.98%
Target Compounds			
2) L1 Aroclor-1016 (1)	0.00	0	N.D. UG/L
3) L1 Aroclor-1016 (2)	0.00	0	N.D. UG/L
4) L1 Aroclor-1016 (3)	0.00	0	N.D. UG/L
5) L1 Aroclor-1016 (4)	0.00	0	N.D. UG/L
6) L1 Aroclor-1016 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1016 (1)		0	N.D. UG/L
Average Aroclor-1016 (1)			0.000 UG/L
7) L2 Aroclor-1260 (1)	0.00	0	N.D. UG/L
8) L2 Aroclor-1260 (2)	0.00	0	N.D. UG/L
9) L2 Aroclor-1260 (3)	0.00	0	N.D. UG/L
10) L2 Aroclor-1260 (4)	0.00	0	N.D. UG/L
11) L2 Aroclor-1260 (5)	0.00	0	N.D. UG/L
Sum Aroclor-1260 (1)		0	N.D. UG/L
Average Aroclor-1260 (1)			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\052201\4GF7252.D Vial: 15
Acq On : 22 May 2001 16:04 Operator: ECL
Sample : WG97759-01 BLANK V163 P141 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7240.D Vial: 3
Acq On : 22 May 2001 12:30 Operator: ECL
Sample : WG97755-03 LCS V163 P147 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.44	162333	16.056 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	80.28%
12) S Decachlorobiphenyl	10.51	204685	18.795 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	93.98%
Target Compounds			
2) L1 Aroclor-1016 (1)	5.03	43997	83.351 UG/L
3) L1 Aroclor-1016 (2)	5.56	114450	87.990 UG/L
4) L1 Aroclor-1016 (3)	5.83	60228	79.366 UG/L
5) L1 Aroclor-1016 (4)	6.18	169992	84.002 UG/L
6) L1 Aroclor-1016 (5)	6.35	48995	85.205 UG/L
Sum Aroclor-1016 (1)		437663	419.915 UG/L
Average Aroclor-1016 (1)			83.983 UG/L
7) L2 Aroclor-1260 (1)	8.14	112471	89.181 UG/L
8) L2 Aroclor-1260 (2)	8.68	172279	91.995 UG/L
9) L2 Aroclor-1260 (3)	8.78	38381	72.393 UG/L
10) L2 Aroclor-1260 (4)	9.29	226816	78.966 UG/L
11) L2 Aroclor-1260 (5)	10.09	74661	70.432 UG/L
Sum Aroclor-1260 (1)		624608	402.967 UG/L
Average Aroclor-1260 (1)			80.593 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7240.D 1660F.M Wed May 23 11:38:35 2001 Page 1

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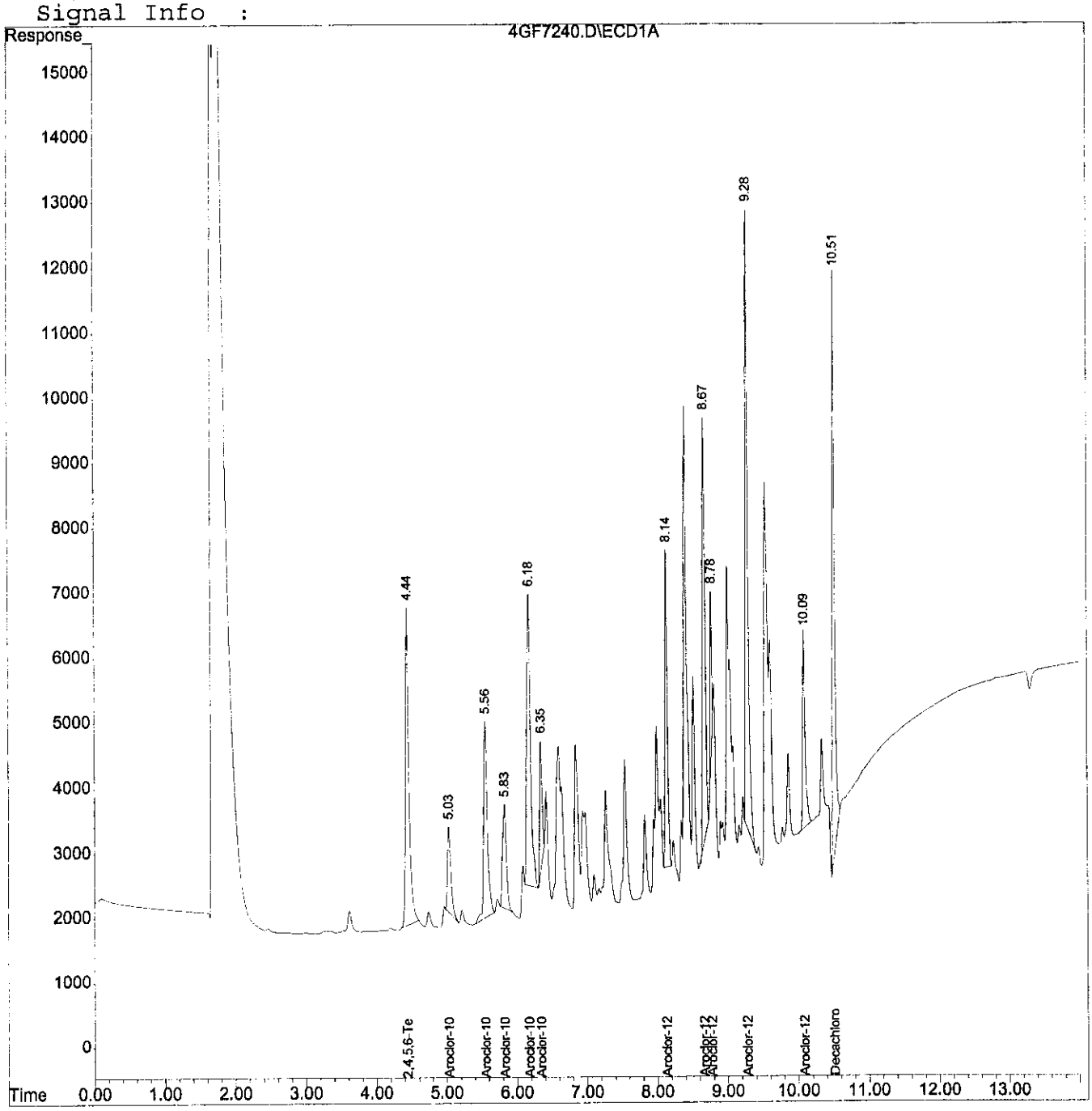
Data File : C:\HPCHEM\2\DATA\052201\4GF7240.D Vial: 3
Acq On : 22 May 2001 12:30 Operator: ECL
Sample : WG97755-03 LCS V163 P147 Inst : HP 4
Misc : 7,1 Multiplr: 0.33
IntFile : events.e
Quant Time: May 23 11:30 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:29:19 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\052201\4GF7253.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: ECL
Sample : WG97759-02 LCS V163 P141 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Initial Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 2,4,5,6-Tetrachloro-M-Xyle	4.40	151163	14.951 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	74.76%
12) S Decachlorobiphenyl	10.47	252795	23.212 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	116.06%
Target Compounds			
2) L1 Aroclor-1016 (1)	4.99	52749	3.028 UG/L
3) L1 Aroclor-1016 (2)	5.51	136682	3.184 UG/L
4) L1 Aroclor-1016 (3)	5.79	76426	3.052 UG/L
5) L1 Aroclor-1016 (4)	6.14	237234	3.552 UG/L
6) L1 Aroclor-1016 (5)	6.31	73601	3.879 UG/L
Sum Aroclor-1016 (1)		576693	16.696 UG/L
Average Aroclor-1016 (1)			3.339 UG/L
7) L2 Aroclor-1260 (1)	8.10	168869	4.058 UG/L
8) L2 Aroclor-1260 (2)	8.64	261813	4.237 UG/L
9) L2 Aroclor-1260 (3)	8.74	63217	3.613 UG/L
10) L2 Aroclor-1260 (4)	9.25	342172	3.610 UG/L
11) L2 Aroclor-1260 (5)	10.05	113125	3.234 UG/L
Sum Aroclor-1260 (1)		949197	18.751 UG/L
Average Aroclor-1260 (1)			3.750 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
4GF7253.D 1660F.M Wed May 23 11:39:10 2001 Page 1

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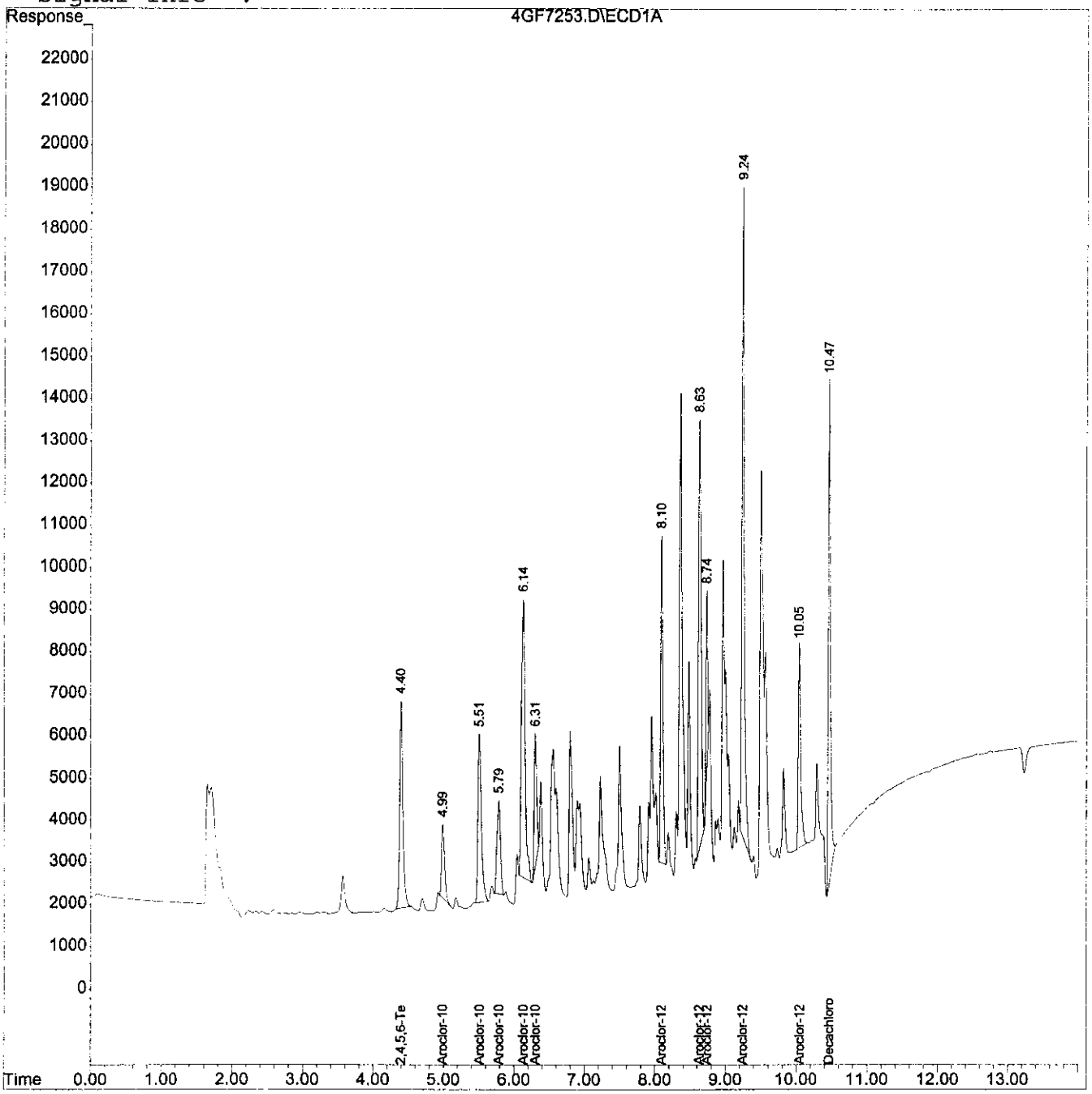
Data File : C:\HPCHEM\2\DATA\052201\4GF7253.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: ECL
Sample : WG97759-02 LCS V163 P141 Inst : HP 4
Misc : 1,1 Multiplr: 0.01
IntFile : events.e
Quant Time: May 23 11:34 2001 Quant Results File: 1660F.RES

Quant Method : C:\HPCHEM\2\METHODS\1660F.M (Chemstation Integrator)
Title : CALIBRATION May 3, 2001
Last Update : Wed May 23 11:33:44 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082F.M

Volume Inj. :
Signal Phase :
Signal Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/3/01 Instrument ID HP4 Column ID RTX-CLP Front Data Subdirectory 050301

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
4GF7048	PCB 1660 ICAL 2.0 PPM	NA	SV52-41		✓
49	1.0				
50	0.5				
51	0.25				
52	0.1				
53	0.05				
54	Alt. ICV 0.5 PPM		SV51-32		✓
55	PCB 1254 ICAL 2.0 PPM		SV53-13		✓
56	1.0				
57	0.5				
58	0.25				
59	0.1				
60	0.05				
61	Alt ICV 0.5 PPM		SV51-08		✓
62	PCB 1248 0.5 PPM		SV53-12		✓
63	Alt. ✓ 0.5 PPM		SV52-35		
64	PCB 1242 0.5 PPM		SV53-11		
65	Alt. ✓ 0.5 PPM		SV51-09		
66	PCB 1232 0.5 PPM		SV53-03		
67	Alt. ✓ 0.5 PPM		SV53-04		
68	PCB 1221 0.5 PPM		SV52-36		
69	Alt. ✓ 0.5 PPM		SV53-14		✓
70	PCB 1660 CCV 0.5 PPM		SV52-41		✓
71	Blank V162 P65 WG96652-02				
72	LCS -03				
73	L0104532-02 -01				
74	02MS -04				
75	02MSD -05				
76	03				
77	L0104565-04				
78	05				
79	08				
80	L0105031-01				
81	PCB 1660 CCV 0.25 PPM	—	SV52-41		✓

ECL 5/4/01

Reviewed By: SMW 5-7-01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/3/01 **Instrument ID** HP4 **Column ID** RTx-CLP **Data Subdirectory** 050301

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: SMW 5-7-01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HP 4 Column ID RTX-CLP (Front) Data Subdirectory 052201

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 3 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
46F7238	PCB 1660 CCV 0.5 PPM	NA	SV52-41		✓
39	Blank V163 P147 WG97755-02				
40	LCS " " -03				
41	L0105404-01 ECL 5/23/01 -04				
42	02 WG97755-01				
43	03 MS -04				
44	04 MSD -05				
45	05				
46	06				
47	07				
48	08				✓
49	PCB 1660 CCV 0.25 PPM		SV52-41		✓
50	L0105404-09				
51	" 10				
52	Blank V163 P141 WG97759-01				
53	LCS " " 02				
54	L0105404-11				✓
55	PCB 1660 CCV 0.5 PPM		SV52-41		✓
56	Instrument Blank		SV49-47		✓
57	Blank V163 P159 WG97828-01				
58	LCS " " -02				
59	L0105 367-17				
60	368-09				
61	369-21				
62	370-23				
63	453-23				
64	456-17				
65	457-17				✓
66	PCB 1254 CCV 0.5 PPM		SV 50-02		✓
67	Instrument Blank		SV49-47		✓
68	L0105458-11				✓
69	" 25				✓
70	PCB 1660 CCV 0.5 PPM		SV52-41		✓
71	Instrument Blank		SV49-47		✓

ECL 5/23/01

Reviewed By: [signature] 5/23/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 **Instrument ID** HP4 **Column ID** RTx-CLP **Data Subdirectory** 052201

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: [signature] 5/23/01

Parameter: PCB-H2O SOP #: EXP01 Revision #: 9
Extraction Analyst(s): JW, DP TV/KD Analyst(s): JW, DP
Date/Time Extracted: 5-21-01 / 11:30 Date TV/KD: 5-21-01
Spike/Surrogate Analyst: JW/DP Witness: DP / JW
Surrogate #: ES5003714 Earliest Hold Date: 5/24/01
Spike #: A = ES5003L6-35 Spike #: B = ———

Extraction Work Group WG 97759
Analytical Work Group WG 97876

Extract Relinquished By: JW
Extract Received By & Date: EC 5/21/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	200ul		10ml	T				WG97759-0
2	LCS			✓		1	1	100ul	1	1				WG 1 -02
5/25 3	05-404-11	8082		✓		940ml	1		1	1				
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

JW 5-21-01

Methylene Chloride Lot #: 41016
Hexane Lot #: 41053
Ether Lot #: ———
Methanol Lot #: ———
Solvent: ——— Lot #: ———
Reagent: 9416 Lot #: ER1729
Reagent: ——— Lot #: ———
Reagent: ——— Lot #: ———
Acid: Conc. H2SO4 Lot #: V03057
Florisil Lot #: 149556
Silica Gel Lot #: ———
IR Analyst / Date / Time: ———
Dried Na_2SO_4 Lot #: ER1653

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	✓	N/A	
Sulfur 3660B			

Peer Reviewed By: Deanna Tuson Date: 05/24/01

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Extraction Notes For Volume # 163 Page # 141

General Comments: Nothing to report.

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report.

Supervisor Review: _____ Date: _____

1030

Parameter: PCB-5 SOP #: EXP02 Revision #: 10
Extraction Analyst(s): TM TV/KD Analyst(s): TM
Date/Time Extracted: 5/21/01 10:20 Date TV/KD: 5/22/01
Spike/Surrogate Analyst: TM Witness: DT
Surrogate #: ESS00 37.14 Earliest Hold Date: 5/31/01
Spike #: A = ~~ESS00 35.14~~ DCW 5/21 Spike #: B = —
ESS0036.35

Extraction Work Group WG 97755
Analytical Work Group WG 97878

Extract Relinquished By: RM
Extract Received By & Date: mls 5/22/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					30.03g	200ul		10 ml	T				WG 97755-02
2	LCS					.04		100ul						WG ⊥ -03
5/25 3	05-404-01	8082				.01								
4	-02					.02								WG 97755-01
5	-03MS					.00		100ul					T	WG ⊥ -04
6	-04MSD					.07		⊥					A	WG ⊥ -05
7	-05					.03								
8	-06					.06								
9	-07					.07								
10	-08					.03								
11	-09					.04								
12	-10	⊥				.05	⊥		⊥	⊥				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/21/01 TJQ

Methylene Chloride Lot #: —
Hexane Lot #: 41053
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 9416 Lot #: ER 1729
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: con. H_2SO_4 Lot #: V03057
Florisil Lot #: TY9556
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER 1705

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	✓	N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/24/01

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Extraction Notes For Volume # 163 Page # 147

General Comments: * MS of 05-404-02
* MSO of 1

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

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Example 8082 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
Where:	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.5 DRO GC Data (8015)

REPORT NARRATIVE
GC DIESEL RANGE ORGANICS

KEMRON Report No.: L0105404

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED: Stephanie Logan DATE: 6/1/01

Rev. 7/14/00

1035

Date: 5/23/01 | 5/22/01
Analyst: HV
Method: 8014 - PRO soil Val. Con 404 - level 4
Instrument: HP5
Work Group: WG 97877

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	N/A
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	
Special Standards	
Blanks	✓
MTBE's	
Surrogates	
LCS (Laboratory Control Sample)	✓
Recoveries	
Surrogates	
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked HV 5/25/01

Secondary Reviewer Initials & Date Checked PR 5/25/01

- ✓ • Check for compliance with Method and project-specific requirements
- ✓ • Check the completeness of the reported information
- ✓ • Check the information for the report narrative
- ✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/25/01

Comments: There was no MS and MSD associated with water sample and no other anomalies with the analysis

✓ - Checked & OK
NA - Not Applicable

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DRO-GC DATA (8015)

Login Number: L0105404

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

NA Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: HV Date: 5/29/01

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2.2.5.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES , OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG97873 | EXT DATE : 5/21/01 | RUN DATE : 5/22/01
METHOD : 8015-PRO | EXT BENCH SHEET : V163-P161 | SMPL ID : NA
MATRIX : WATER | BLK FILENAME : 2G12437 | SMPL FLNM : NA
CONCENTRATION UNITS : ug / l | LCS FILENAME : 2G12438 | MS FLNM : NA
PREP WORK GRP : WG97843 | INSTRUMENT : HP 2 | MSD FLNM : NA

ANALYTE	CONCENTRATION , ug / L									PERCENT RECOVERY , %										PERCENT		
	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPL	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS ULC	SAMPL	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
PRO (C8 - C40)	500	ND	3400	2547	NA	ND	7140	NA	NA	NA	74.9	NA	55	116	ND	NA	NA	41	101	NA	NA	20
SURROGATE																						
o-TERPHENYL		16.6	20	19.1	NA	18.2	20	NA	NA	82.9	95	NA	49	174	91.1	NA	NA	49	174	NA	NA	20

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

KEMRON ENVIRONMENTAL SERVICES , OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG97877 EXT DATE : 05-21-01 RUN DATE : 05-22-01
METHOD : 8015-PRO EXT BENCH SHEET : V163-P143 SMPL ID : L0105404-02
MATRIX : soil BLK FILENAME : 2G12442 SMPL FLNM : 2G12445
CONCENTRATION UNITS : ug / kg LCS FILENAME : 2G12443 MS FLNM : 2G12446
PREP WORK GRP : WG97758 INSTRUMENT : HP2 MSD FLNM : 2G12447

ANALYTE	CONCENTRATION , ug / kg									PERCENT RECOVERY , %										PERCENT		
	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPL	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS UCL	SAMPL	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
PRO (C8 - C40)	10000	ND	136000	99092	NA	ND	136000	96572	94805	NA	72.9	NA	63	153	ND	73.2	69.6	62	204	NA	5	25
SURROGATE																						
o-TERPHENYL		628	800	769	NA	615	800	806	734	78.5	96.1	NA	62	109	76.8	101	91.8	62	109	NA	10	25

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

2.2.5.2 Sample Data

Data File : C:\HPCHEM\1\DATA\052201A\2G12444.D Vial: 11
Acq On : 22 May 2001 15:10 Operator: HV
Sample : L0105404-01 FLA PRO SOIL Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

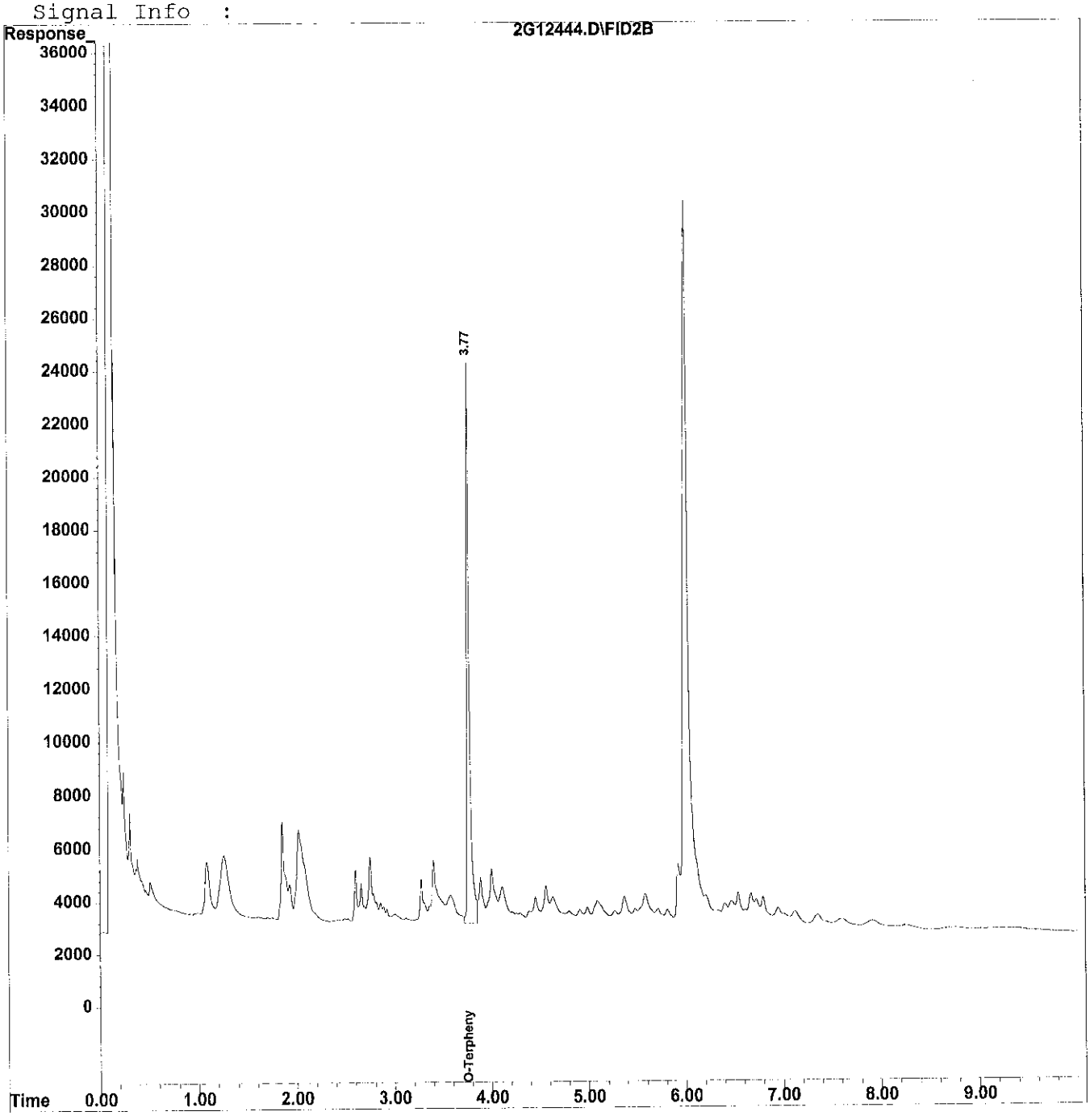
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	403765	602.732 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	75.34%
Target Compounds			
1) H Petroleum Range	3.60	3965921	8004.731 ppb F

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12444.D FLASHPRO.M Wed May 23 10:08:20 2001 Page 1042

Data File : C:\HPCHEM\1\DATA\052201A\2G12444.D Vial: 11
Acq On : 22 May 2001 15:10 Operator: HV
Sample : L0105404-01 FLA PRO SOIL Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12445.D Vial: 12
Acq On : 22 May 2001 15:25 Operator: HV
Sample : L0105404-02 FLA PRO SOIL Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	411710	614.592 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	76.82%
Target Compounds			
1) H Petroleum Range	3.60	4007570	8088.796 ppb

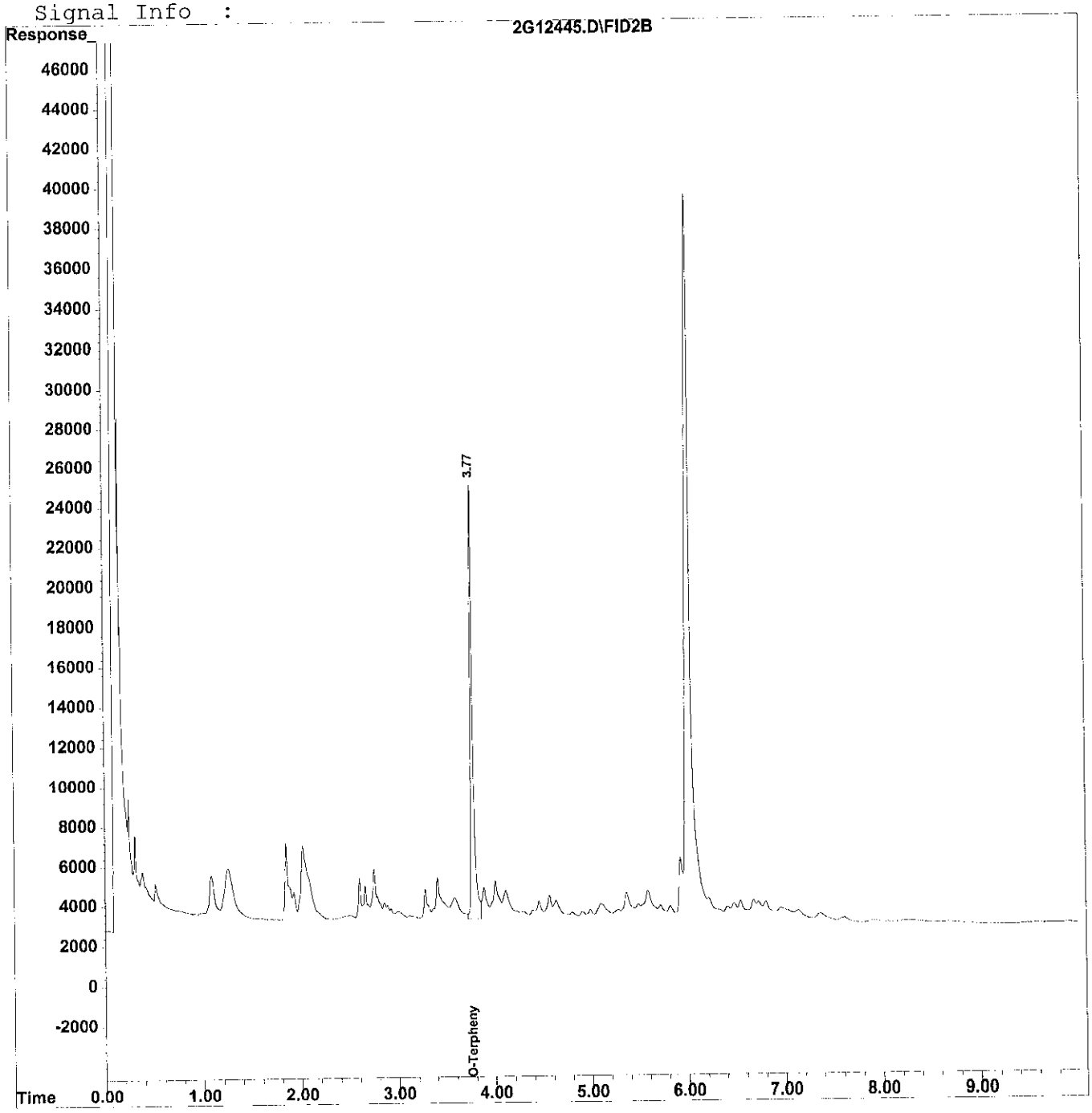
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12445.D
Acq On : 22 May 2001 15:25
Sample : L0105404-02 FLA PRO SOIL
Misc : SOIL
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Vial: 12
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12446.D
Acq On : 22 May 2001 15:39
Sample : L0105404-03 MS FLA PRO SOIL
Misc : SOIL
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Vial: 13
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	541022	807.626 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery = 100.95%	
Target Compounds			
1) H Petroleum Range	3.60	49332898	99572.487 ppb

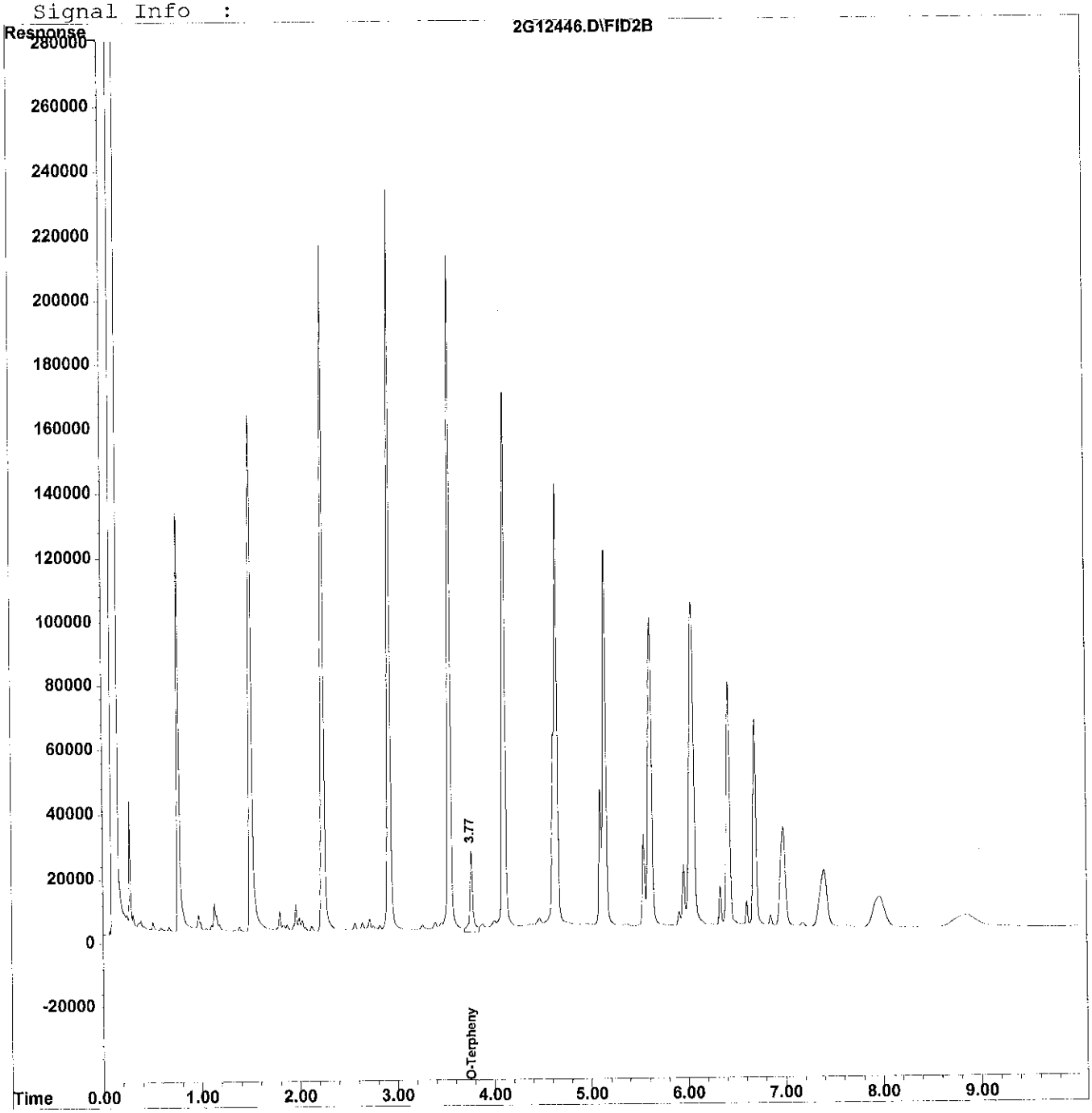
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12446.D
Acq On : 22 May 2001 15:39
Sample : L0105404-03 MS FLA PRO SOIL
Misc : SOIL
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Vial: 13
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12447.D Vial: 14
Acq On : 22 May 2001 15:53 Operator: HV
Sample : L0105404-04 MSD FLA PRO SOIL Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

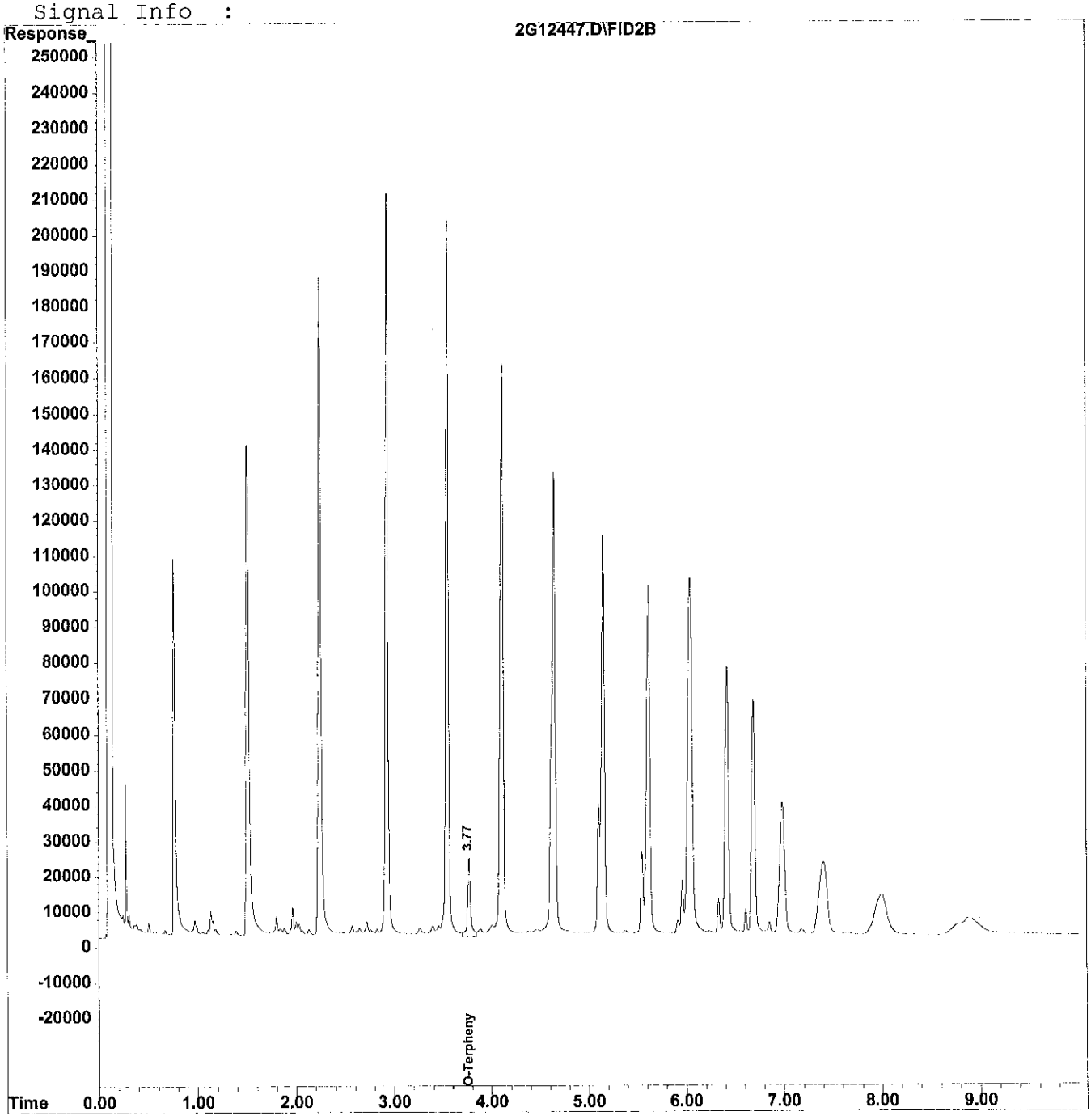
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	491809	734.162 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	91.77%
Target Compounds			
1) H Petroleum Range	3.60	46871948	94605.356 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12447.D Vial: 14
Acq On : 22 May 2001 15:53 Operator: HV
Sample : L0105404-04 MSD FLA PRO SOIL Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12455.D Vial: 4
Acq On : 23 May 2001 9:29 Operator: HV
Sample : L0105404-05 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.75	365691	545.896 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	68.24%
Target Compounds			
1) H Petroleum Range	3.60	3762363	7593.875 ppb

BRL

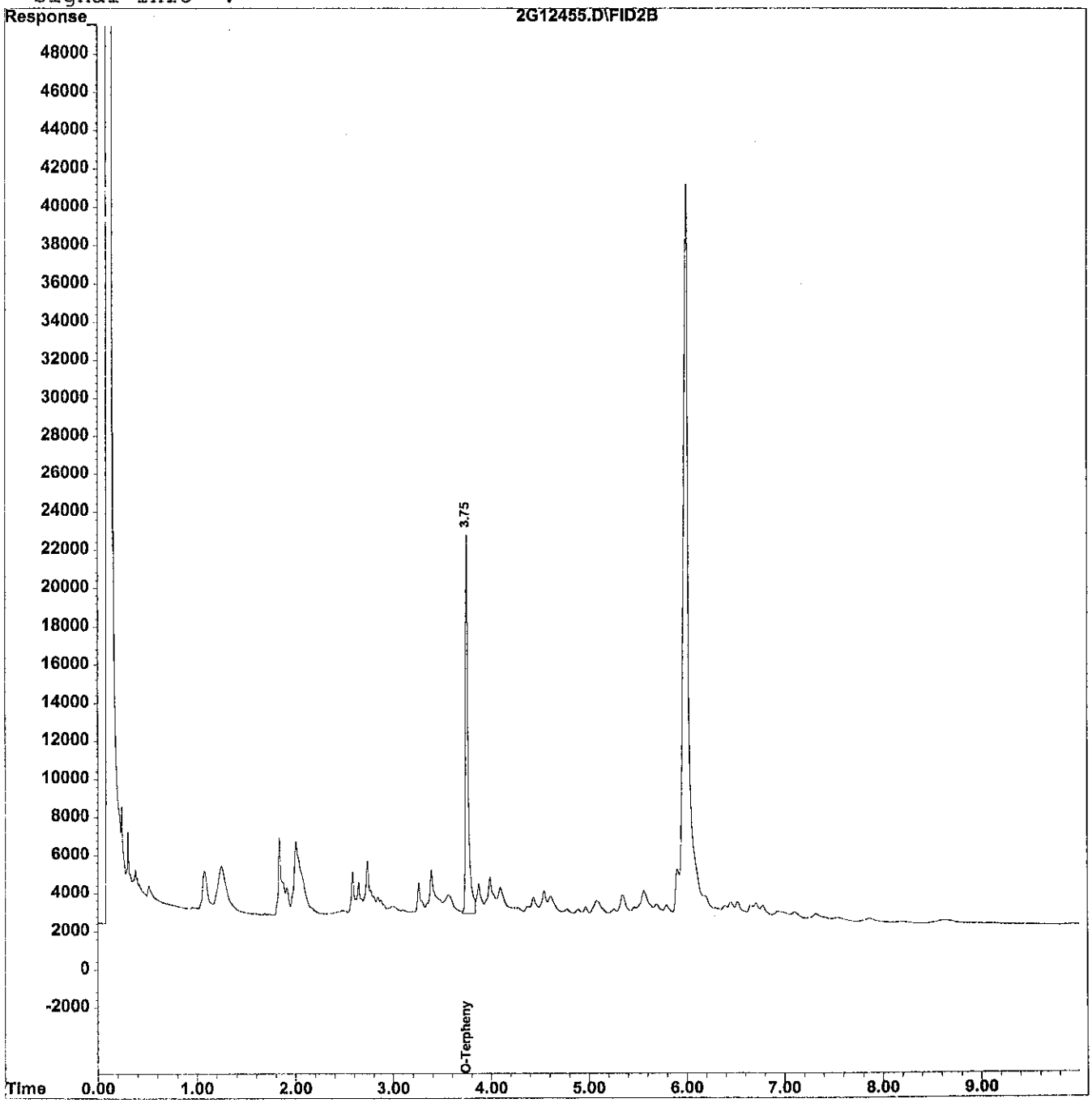
(f)=RT Delta > 1/2 Window (m)=manual int.
2G12455.D FLASHPRO.M Wed May 23 17:05:19 2001 Page 1

1050

Data File : C:\HPCHEM\1\DATA\052301\2G12455.D Vial: 4
Acq On : 23 May 2001 9:29 Operator: HV
Sample : L0105404-05 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12456.D Vial: 5
Acq On : 23 May 2001 9:43 Operator: HV
Sample : L0105404-06 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.76	392424	585.802 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	73.23%
Target Compounds			
1) H Petroleum Range	3.60	3454829	6973.154 ppb

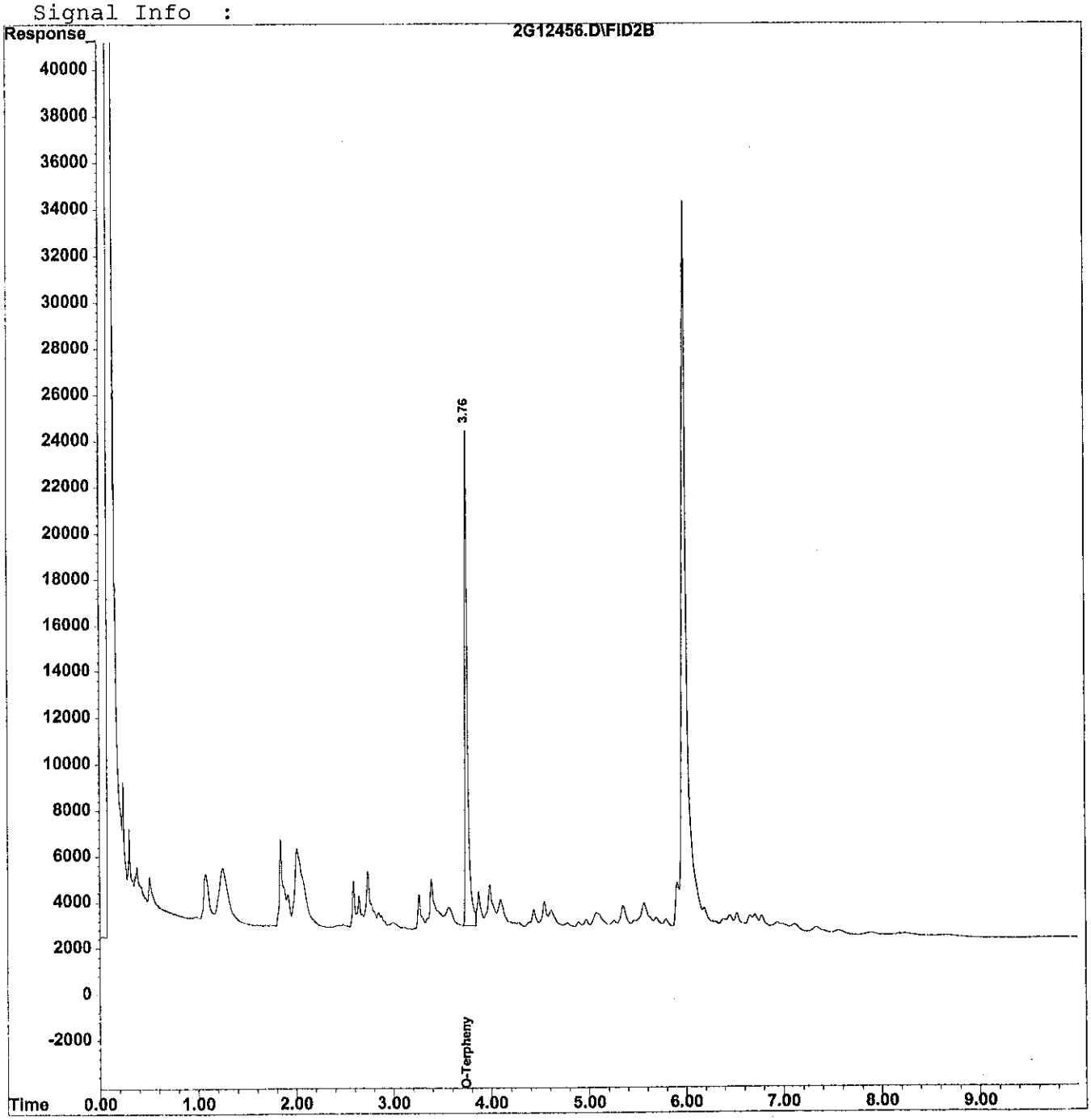
BAT

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12456.D FLASHPRO.M Wed May 23 17:05:41 2001 Page 1052

Data File : C:\HPCHEM\1\DATA\052301\2G12456.D Vial: 5
Acq On : 23 May 2001 9:43 Operator: HV
Sample : L0105404-06 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12457.D Vial: 6
Acq On : 23 May 2001 9:57 Operator: HV
Sample : L0105404-07 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

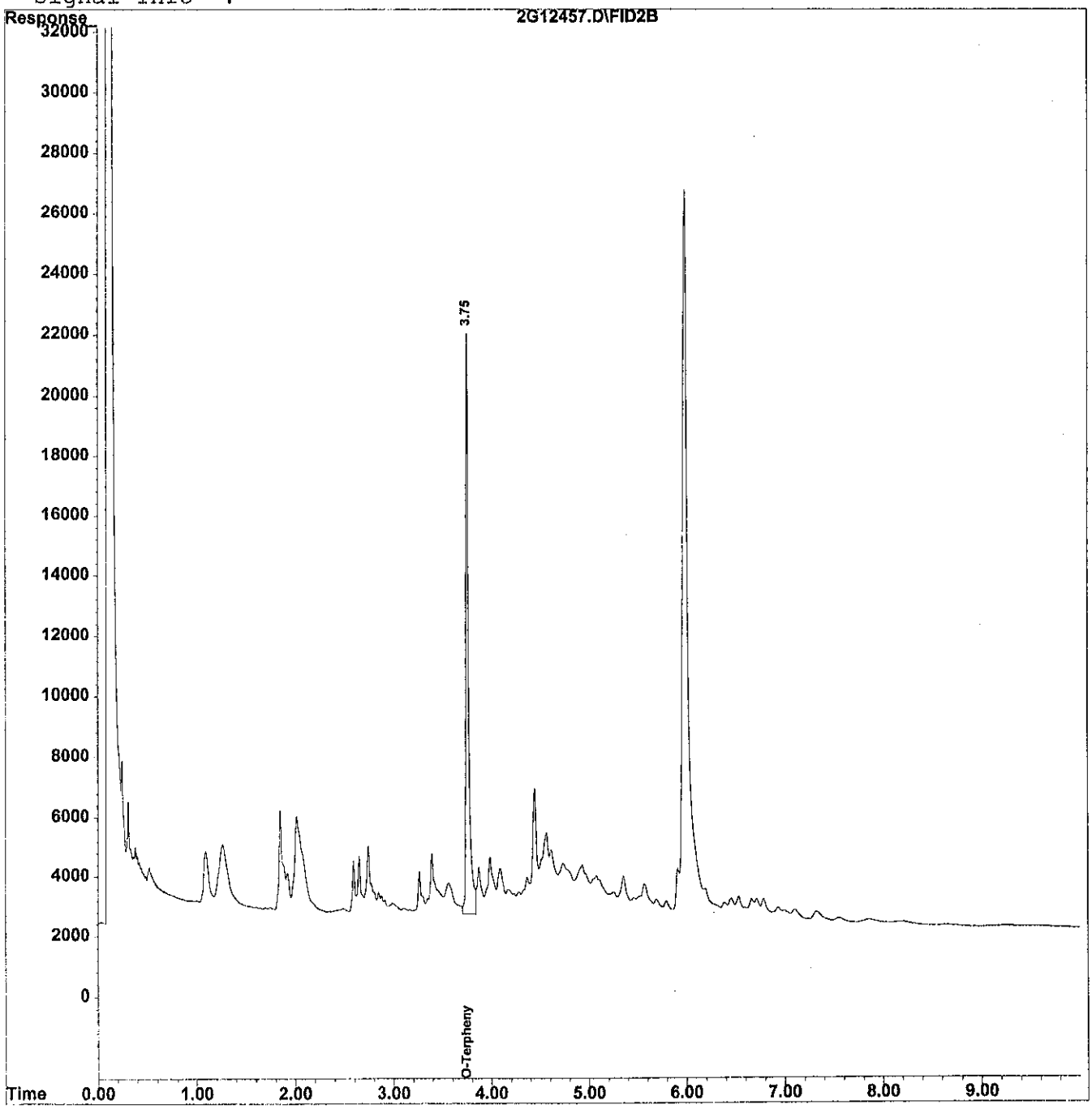
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.76	365641	545.821 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	68.23%
Target Compounds			
1) H Petroleum Range	3.60	4103246	8281.906 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052301\2G12457.D Vial: 6
Acq On : 23 May 2001 9:57 Operator: HV
Sample : L0105404-07 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:05 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12458.D Vial: 7
Acq On : 23 May 2001 10:12 Operator: HV
Sample : L0105404-08 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

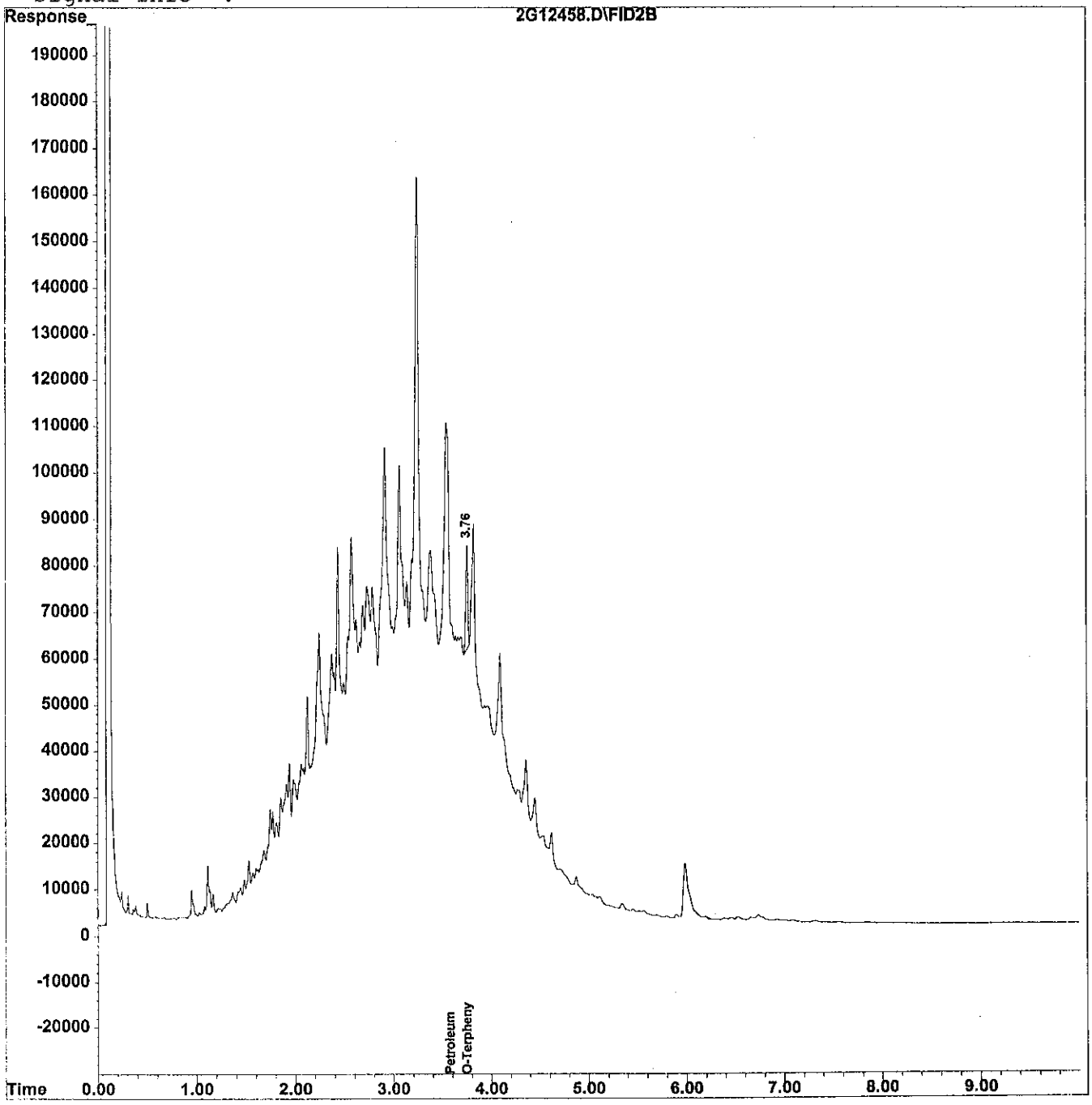
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.76	321407	479.790 ppb m
Spiked Amount 800.000	Range 43 - 136	Recovery = 59.97%	
Target Compounds			
1) H Petroleum Range	3.60	98801646	199419.169 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052301\2G12458.D Vial: 7
Acq On : 23 May 2001 10:12 Operator: HV
Sample : L0105404-08 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

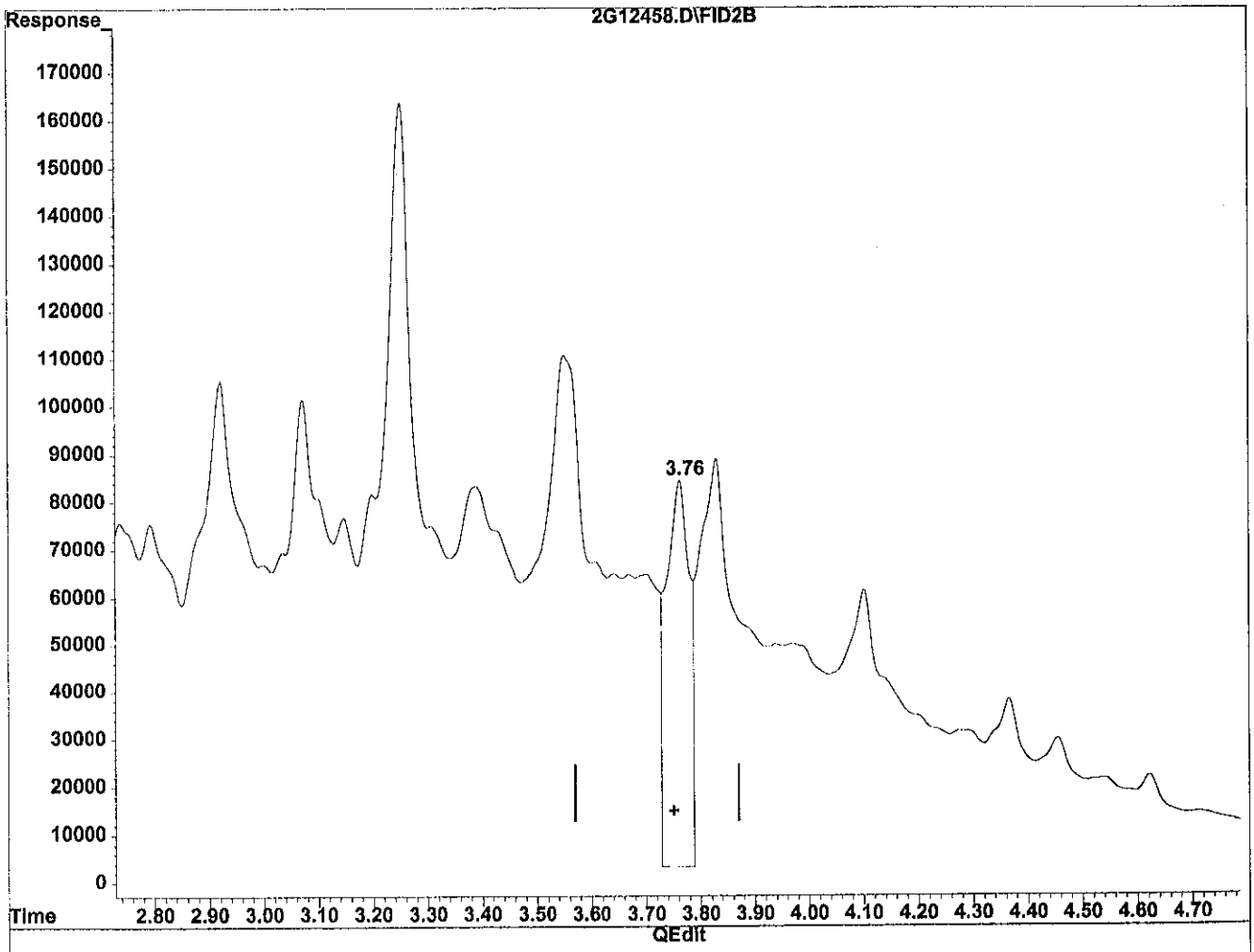
Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12458.D Vial: 7
Acq On : 23 May 2001 10:12 Operator: HV
Sample : L0105404-08 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration



(2) O-Terphenyl (S)

3.76min 3596.154ppb

response 2409032

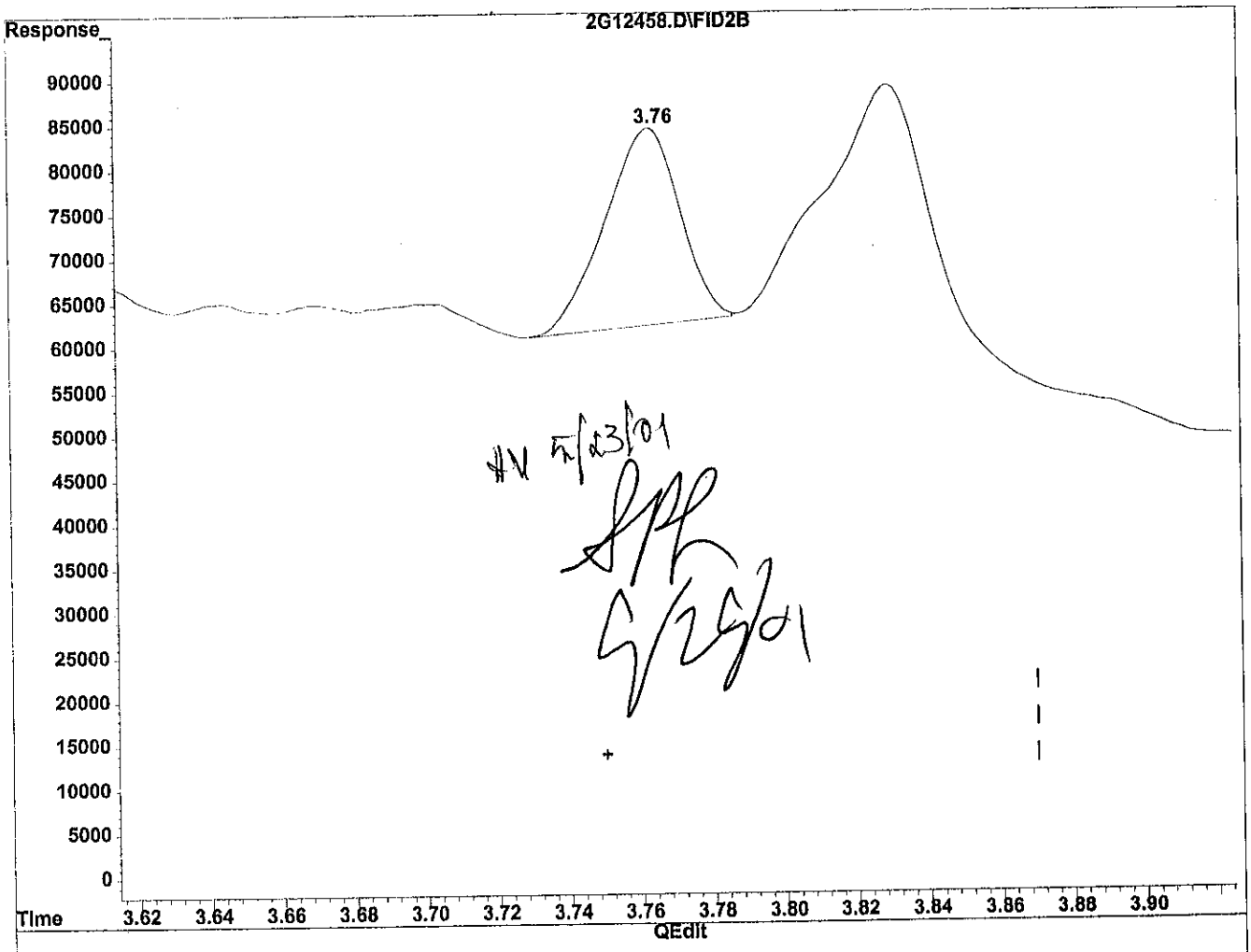
(+) = Expected Retention Time
2G12458.D FLASHPRO.M Wed May 23 17:06:18 2001

1058

Data File : C:\HPCHEM\1\DATA\052301\2G12458.D
Acq On : 23 May 2001 10:12
Sample : L0105404-08 FLA PRO soil
Misc : soil
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

Vial: 7
Operator: HV
Inst : hp2
Multiplr: 40.00

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration



(2) O-Terphenyl (S)

3.76min 479.790ppb m

response 321407

(+) = Expected Retention Time
2G12458.D FLASHPRO.M Wed May 23 17:06:28 2001

1059

Data File : C:\HPCHEM\1\DATA\052301\2G12459.D
Acq On : 23 May 2001 10:26 Operator: HV
Sample : L0105404-09 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.76	344006	513.525 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	64.19%
Target Compounds			
1) H Petroleum Range	3.60	2916999	5887.609 ppb

BRL

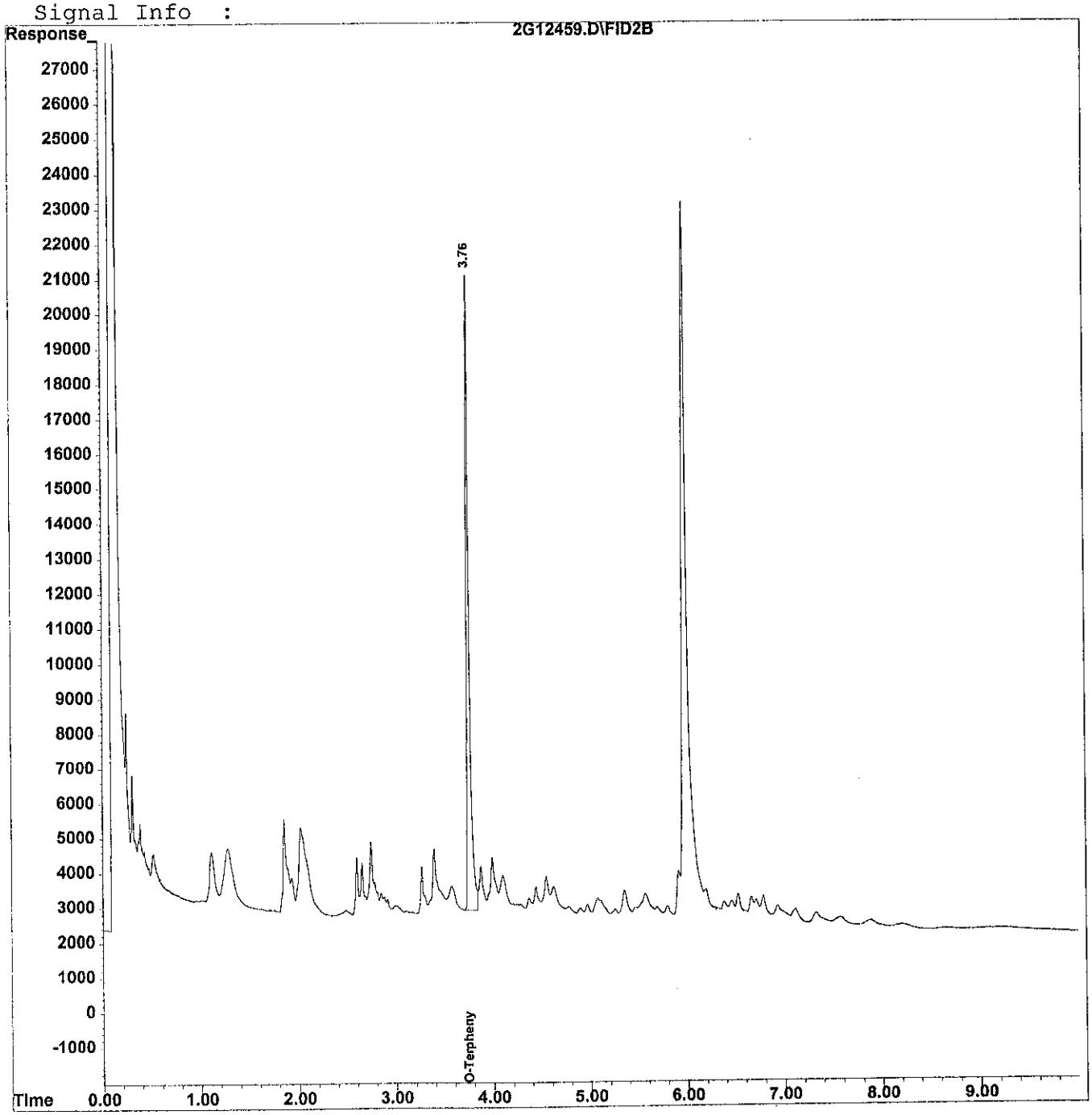
(f)=RT Delta > 1/2 Window (m)=manual int.
2G12459.D FLASHPRO.M Wed May 23 17:06:58 2001 Page 1

1060

Data File : C:\HPCHEM\1\DATA\052301\2G12459.D Vial: 8
Acq On : 23 May 2001 10:26 Operator: HV
Sample : L0105404-09 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:06 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12460.D Vial: 9
Acq On : 23 May 2001 10:40 Operator: HV
Sample : L0105404-10 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.75	370302	552.780 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	69.10%
Target Compounds			
1) H Petroleum Range	3.60	3214567	6488.214 ppb

BRL

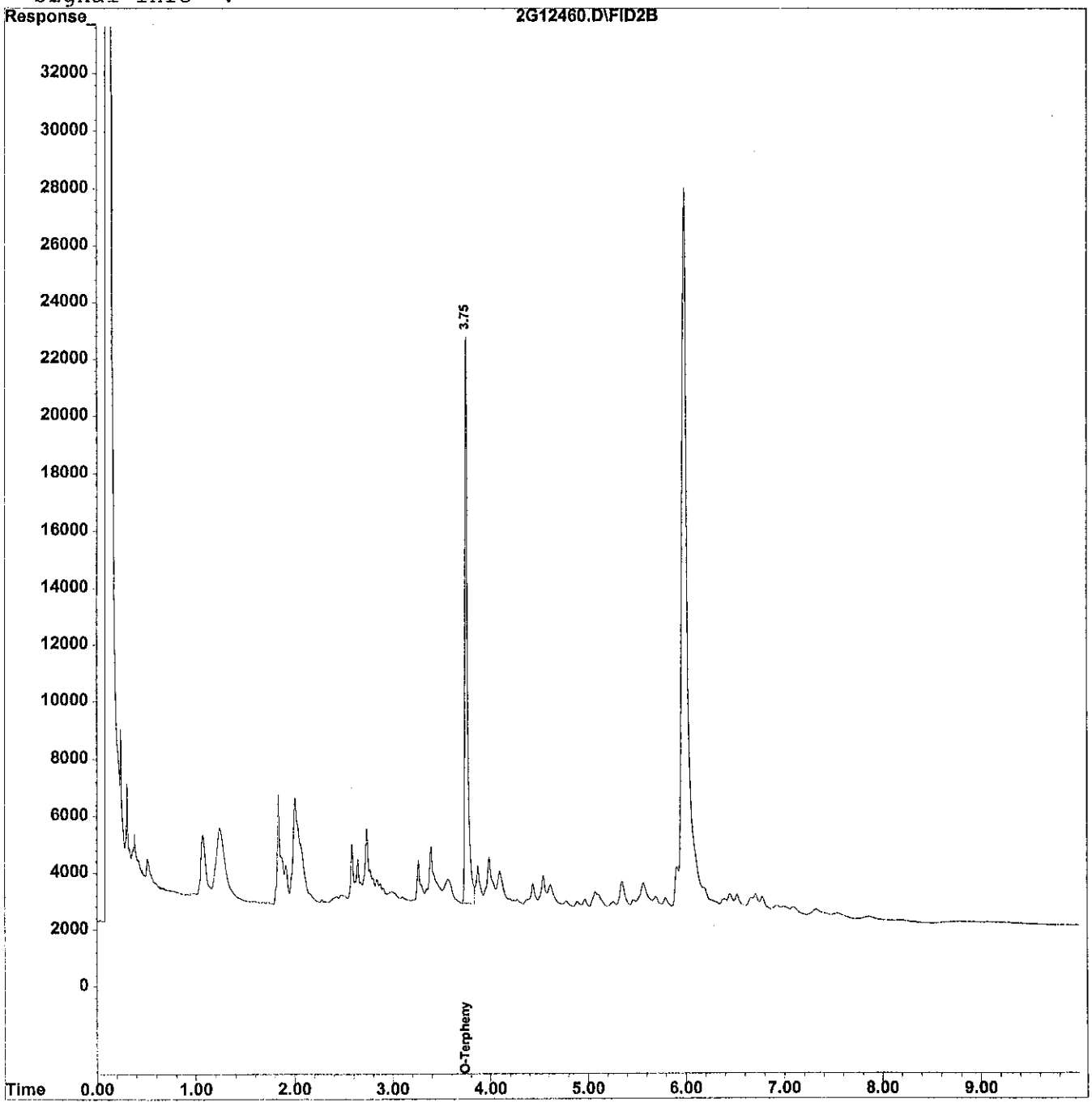
(f)=RT Delta > 1/2 Window (m)=manual int.
2G12460.D FLASHPRO.M Wed May 23 17:07:10 2001 Page 1

1062

Acq On : 23 May 2001 10:40 Operator: HV
Sample : L0105404-10 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 23 17:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 23 17:05:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12439.D Vial: 6
Acq On : 22 May 2001 13:34 Operator: HV
Sample : L0105404-11 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.04
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

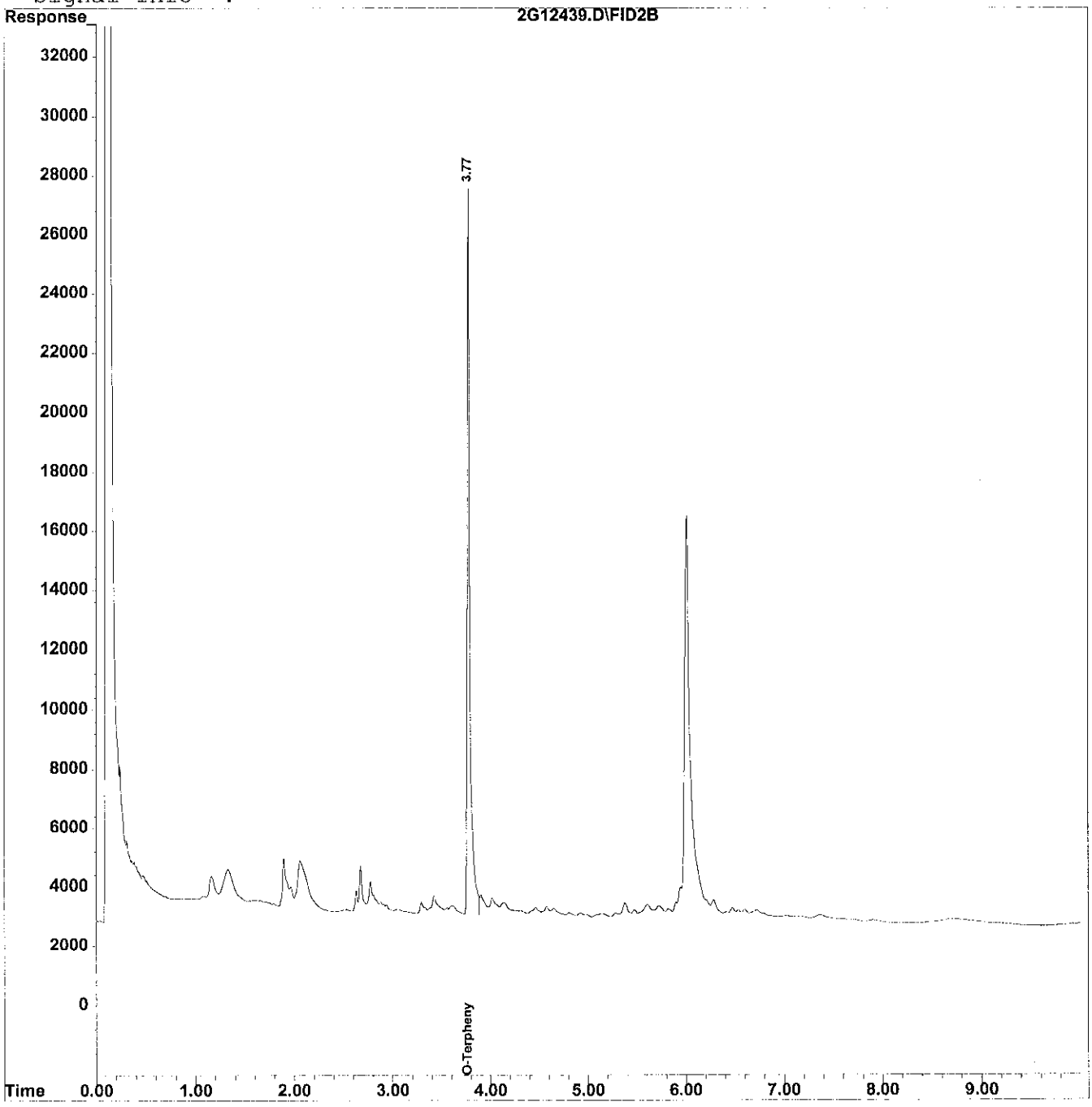
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.78	487985	18.940 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	94.70%
Target Compounds			
1) H Petroleum Range	3.60	1594522	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12439.D Vial: 6
Acq On : 22 May 2001 13:34 Operator: HV
Sample : L0105404-11 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.04
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.3 Standards Data

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 16 14:48:49 2001

Calibration Files
5 =2G12361.D 50 =2G12360.D 100 =2G12359.D
200 =2G12356.D 400 =2G12358.D 600 =2G12357.D

	Compound	5	50	100	200	400	600	Avg	%RSD
1) H	Petroleum Range	2.375	2.048	2.010	2.068	1.792	1.598	1.982 E4	13.38
2) S	O-Terphenyl	2.788	2.805	2.711	2.948	2.540	2.285	2.680 E4	8.77

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\051601A\2G12356.D Vial: 3
Acq On : 16 May 2001 13:21 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

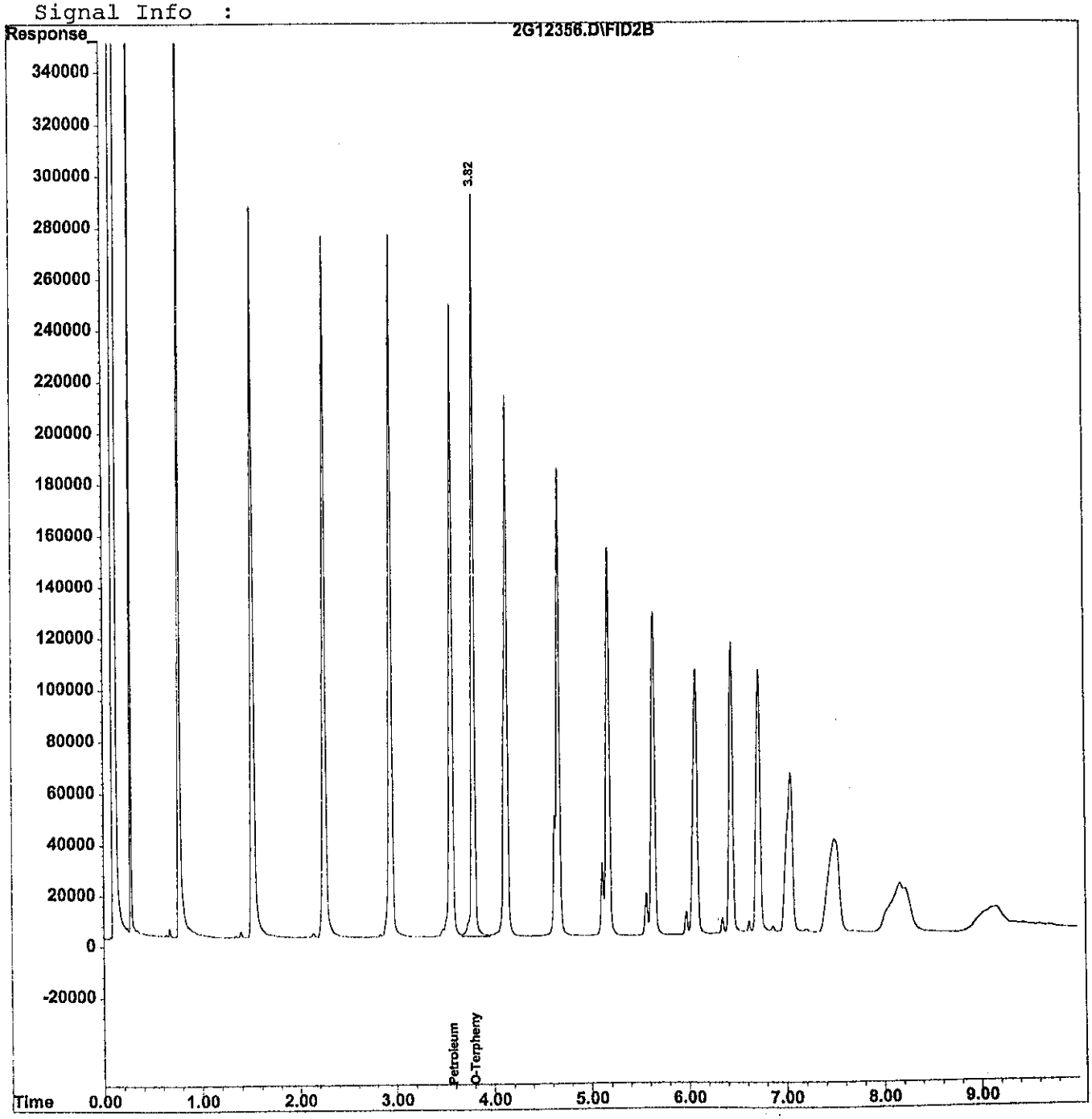
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.82	5896052	254.553 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1272.77%#
Target Compounds			
1) H Petroleum Range	3.60	70324135	3936.603 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12356.D Vial: 3
Acq On : 16 May 2001 13:21 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12357.D Vial: 4
Acq On : 16 May 2001 13:36 Operator: HV
Sample : PRO STD 600ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

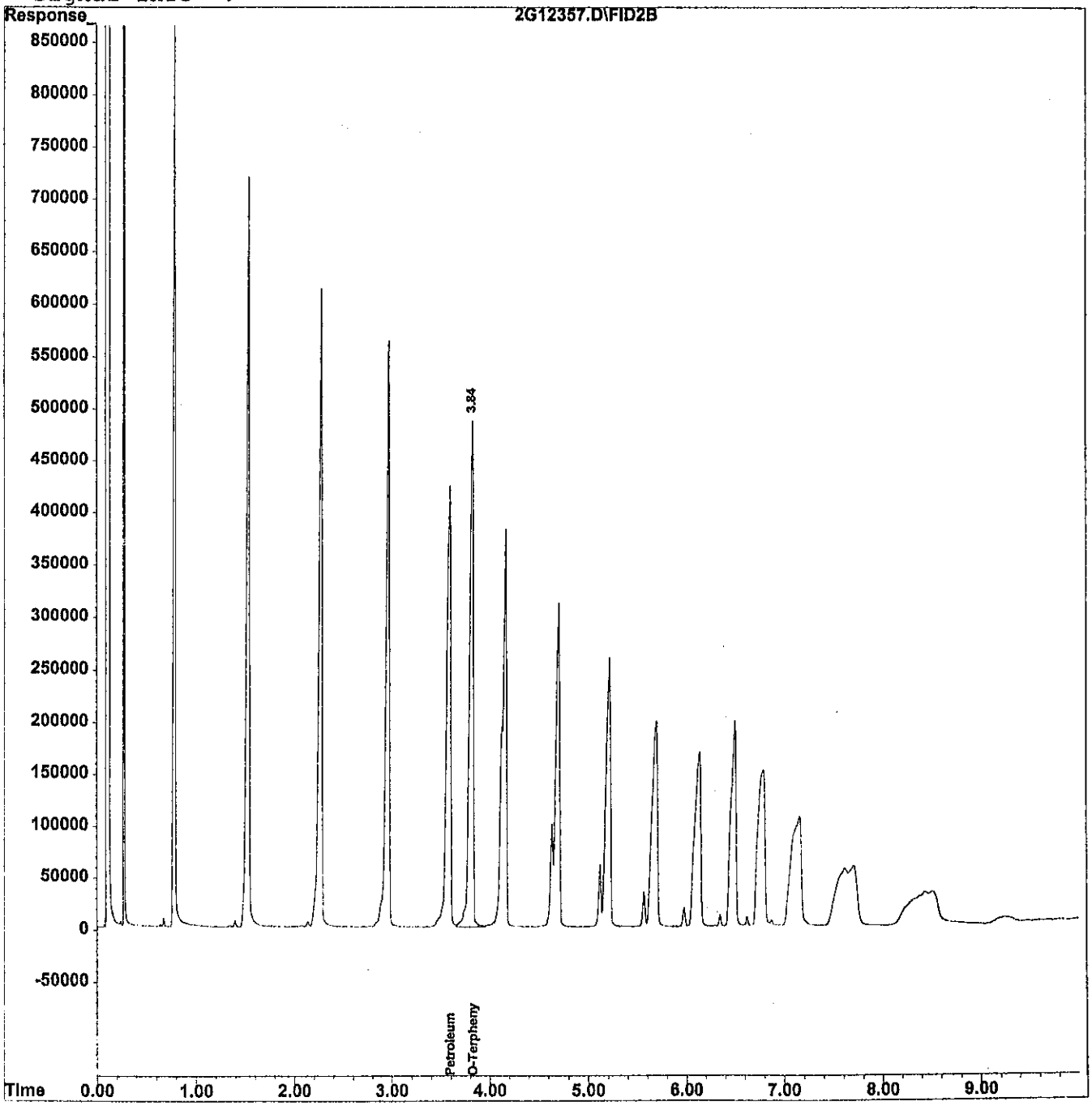
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.84	13709213	591.874 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 2959.37%#	
Target Compounds			
1) H Petroleum Range	3.60	162958400	9122.083 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12357.D Vial: 4
Acq On : 16 May 2001 13:36 Operator: HV
Sample : PRO STD 600ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12358.D Vial: 5
Acq On : 16 May 2001 13:50 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

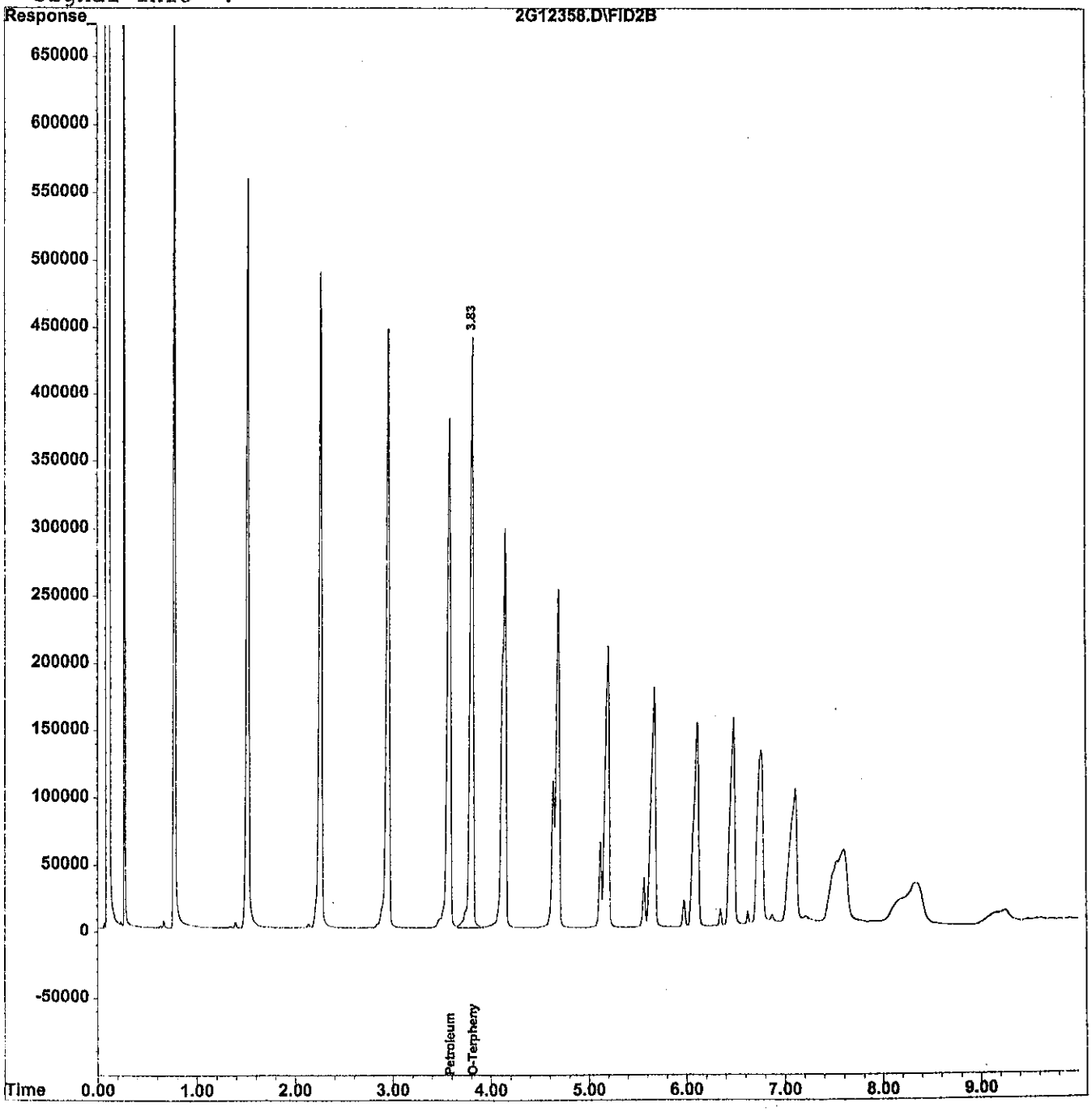
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.83	10160155	438.649 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 2193.25%#
Target Compounds			
1) H Petroleum Range	3.60	121826151	6819.583 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12358.D Vial: 5
Acq On : 16 May 2001 13:50 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12359.D Vial: 6
Acq On : 16 May 2001 14:04 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

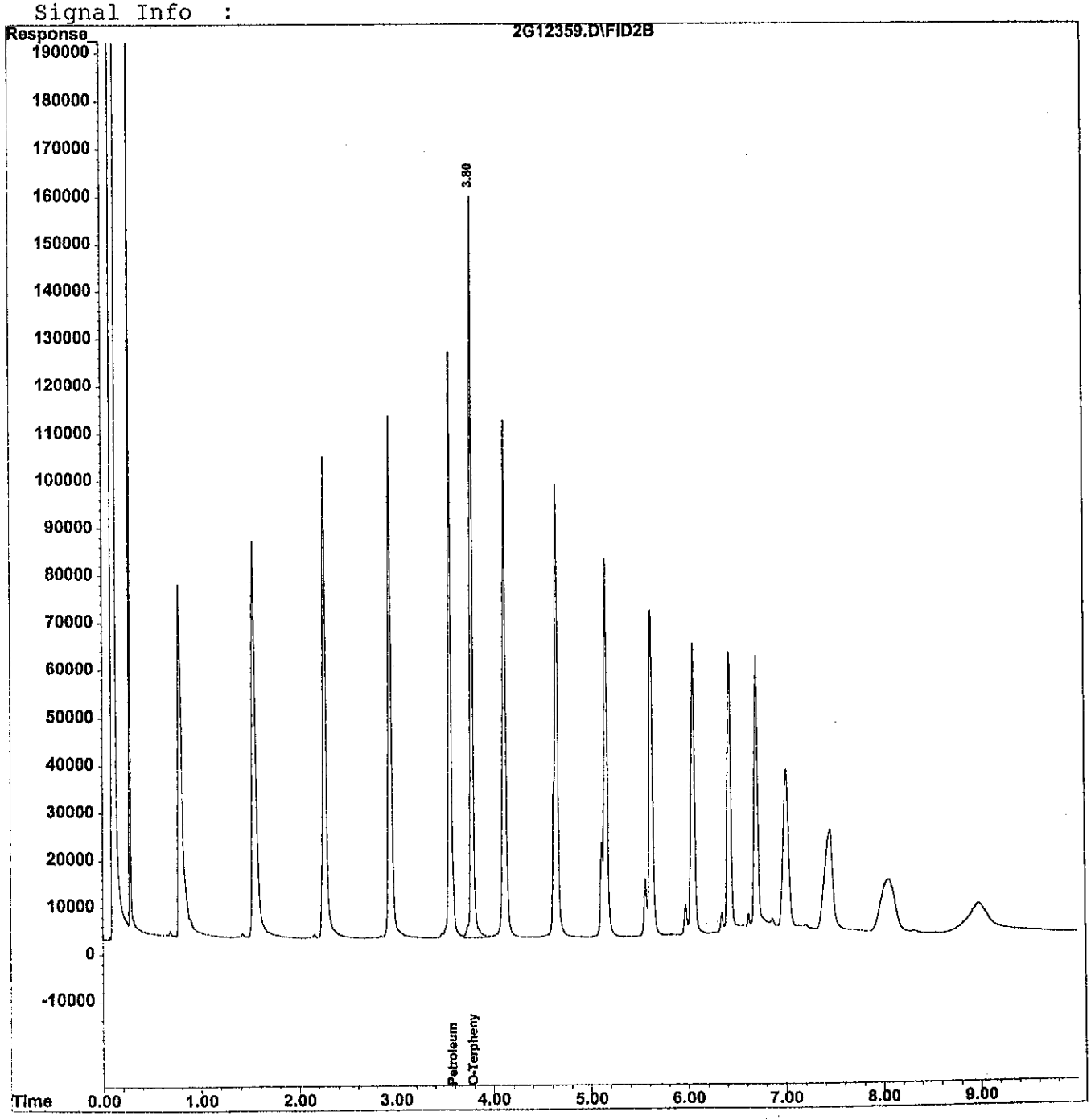
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	2711175	117.051 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 585.26%#	
Target Compounds			
1) H Petroleum Range	3.60	34171288	1912.840 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12359.D Vial: 6
Acq On : 16 May 2001 14:04 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12360.D Vial: 7
Acq On : 16 May 2001 14:19 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:38 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

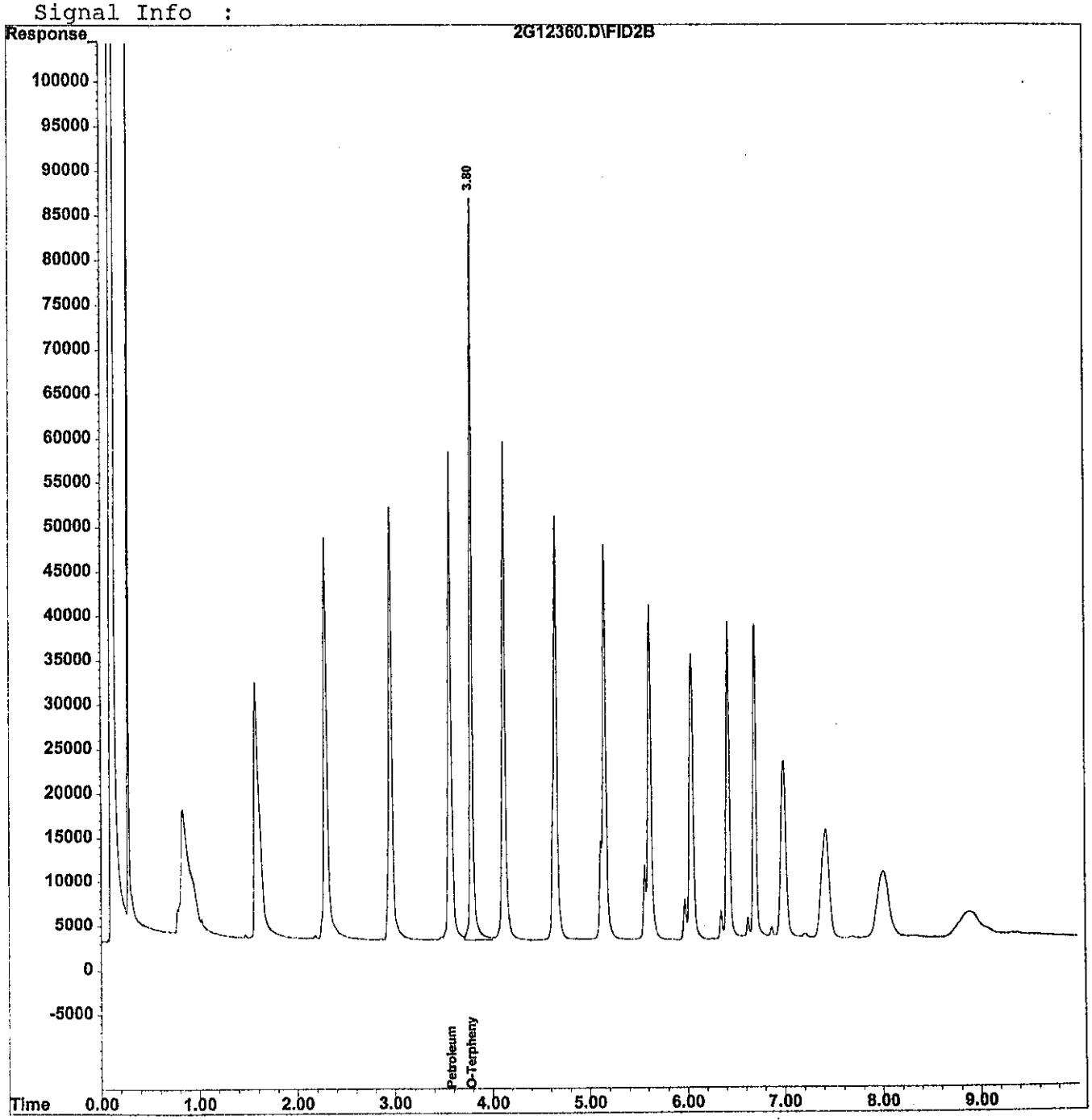
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	1402432	60.548 ppb
Spiked Amount 20.000 Range 49 - 174	Recovery = 302.74%#		
Target Compounds			
1) H Petroleum Range	3.60	17405467	974.323 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12360.D Vial: 7
Acq On : 16 May 2001 14:19 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:38 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12361.D Vial: 8
Acq On : 16 May 2001 14:33 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:51 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

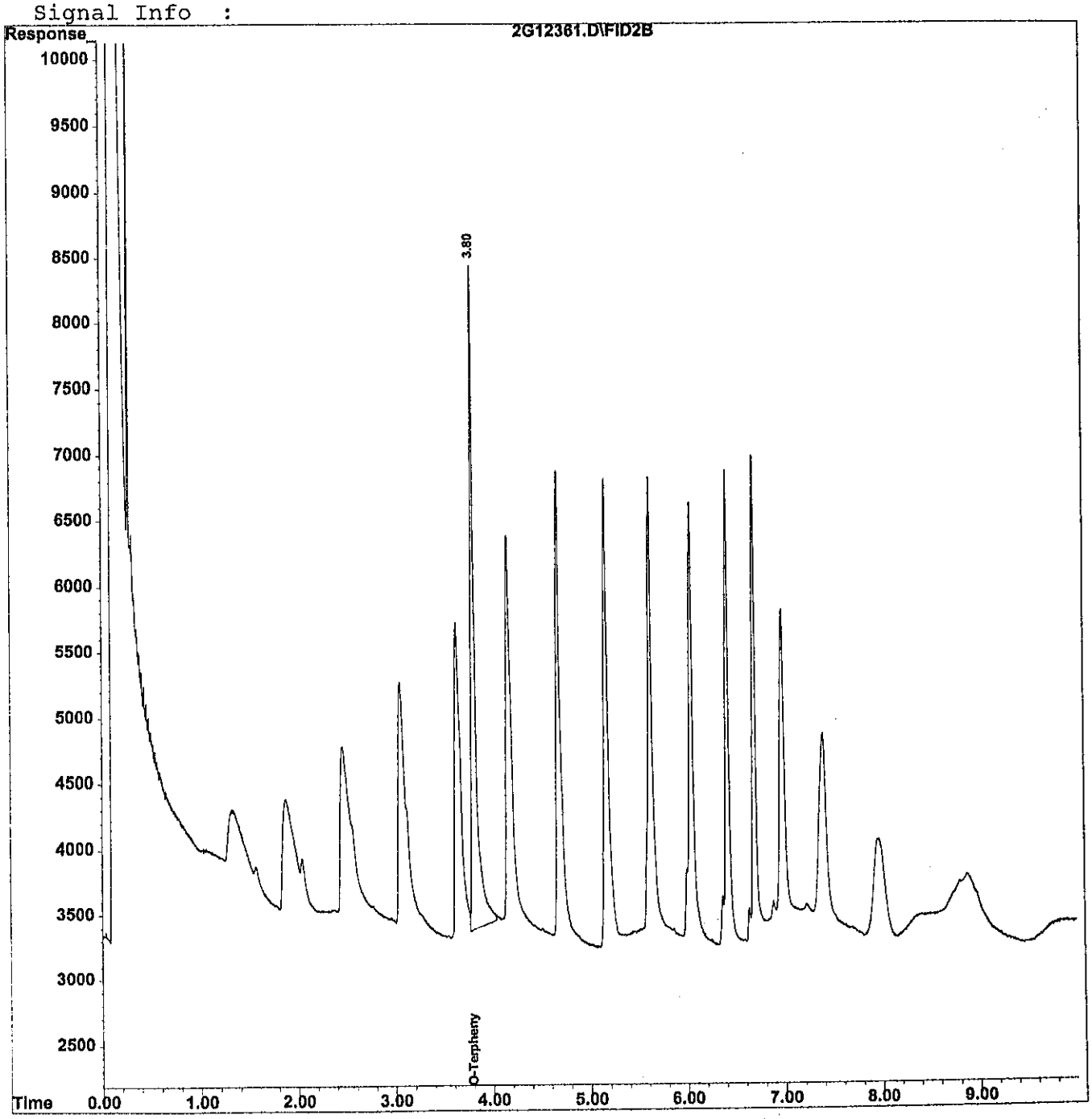
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	139421	5.203 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	26.02%#
Target Compounds			
1) H Petroleum Range	3.60	2019092	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12361.D Vial: 8
Acq On : 16 May 2001 14:33 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:51 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D Vial: 9
Acq On : 16 May 2001 15:06 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 52-07 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3261.889	4.1	92	0.00
2	S	O-Terphenyl	200.000	1.079	99.5#	0	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12362.D FLASHPRO.M Thu May 17 08:22:21 2001 Page 1

Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D
Acq On : 16 May 2001 15:06
Sample : ALT PRO @200ppm
Misc : SV 52-07
IntFile : PETRO.E
Quant Time: May 16 15:17 2001 Quant Results File: FLASHPRO.RES

Operator: HV
Inst : hp2
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

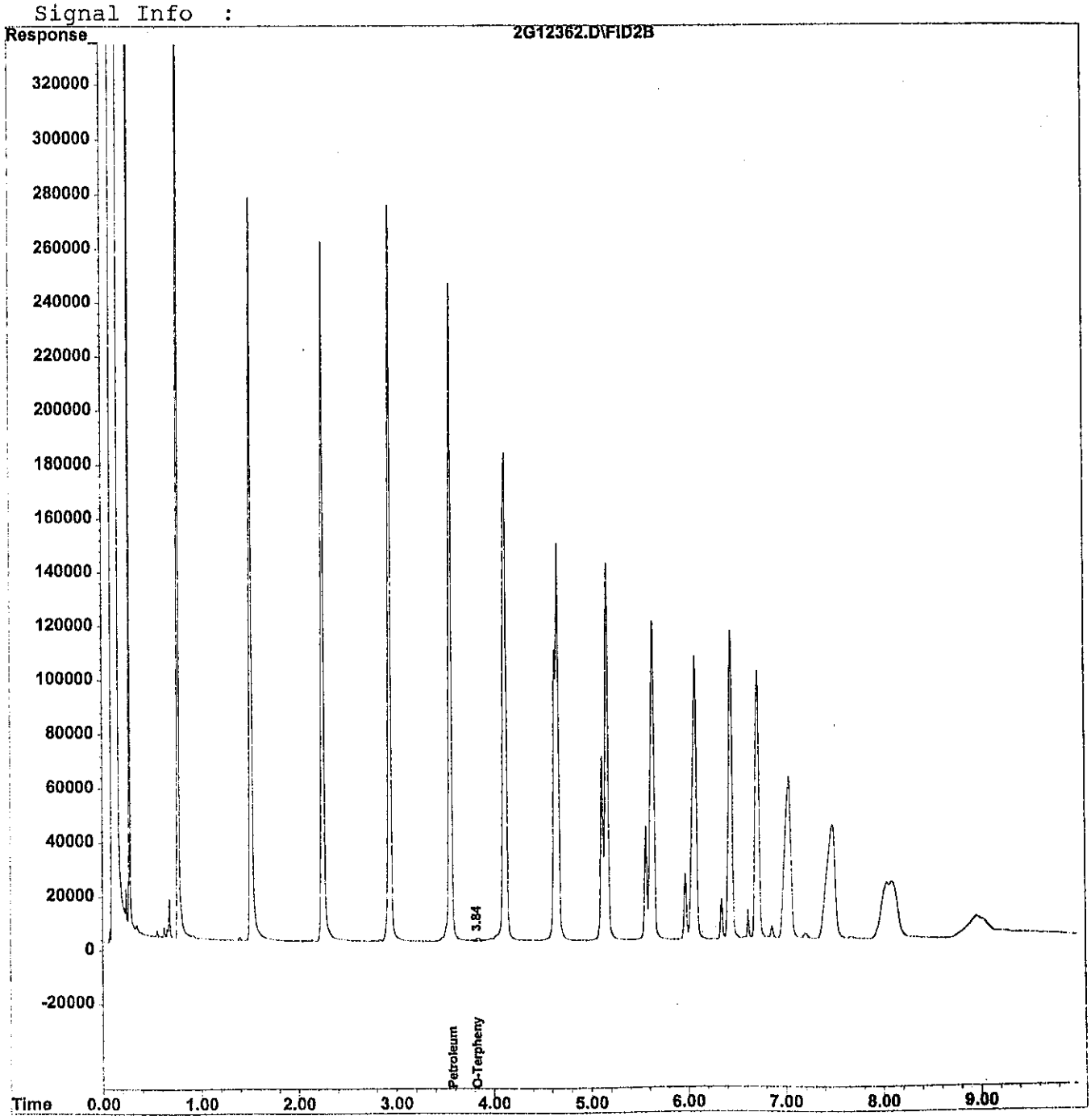
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.84	28902	1.079 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	5.40%#
Target Compounds			
1) H Petroleum Range	3.60	64643730	3261.889 ppb

(f)=RT Delta > 1/2 Window
(m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D Vial: 9
Acq On : 16 May 2001 15:06 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 52-07 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 15:17 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12436.D Vial: 3
Acq On : 22 May 2001 12:48 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : WATER Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3320.851	2.3	94	0.00
2	S	O-Terphenyl	200.000	197.527	1.2	90	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12436.D FLASHPRO.M Wed May 23 10:11:16 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052201A\2G12436.D Vial: 3
Acq On : 22 May 2001 12:48 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : WATER Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12436.D FLASHPRO.M Wed May 23 10:11:16 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052201A\2G12436.D Vial: 3
Acq On : 22 May 2001 12:48 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : WATER Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

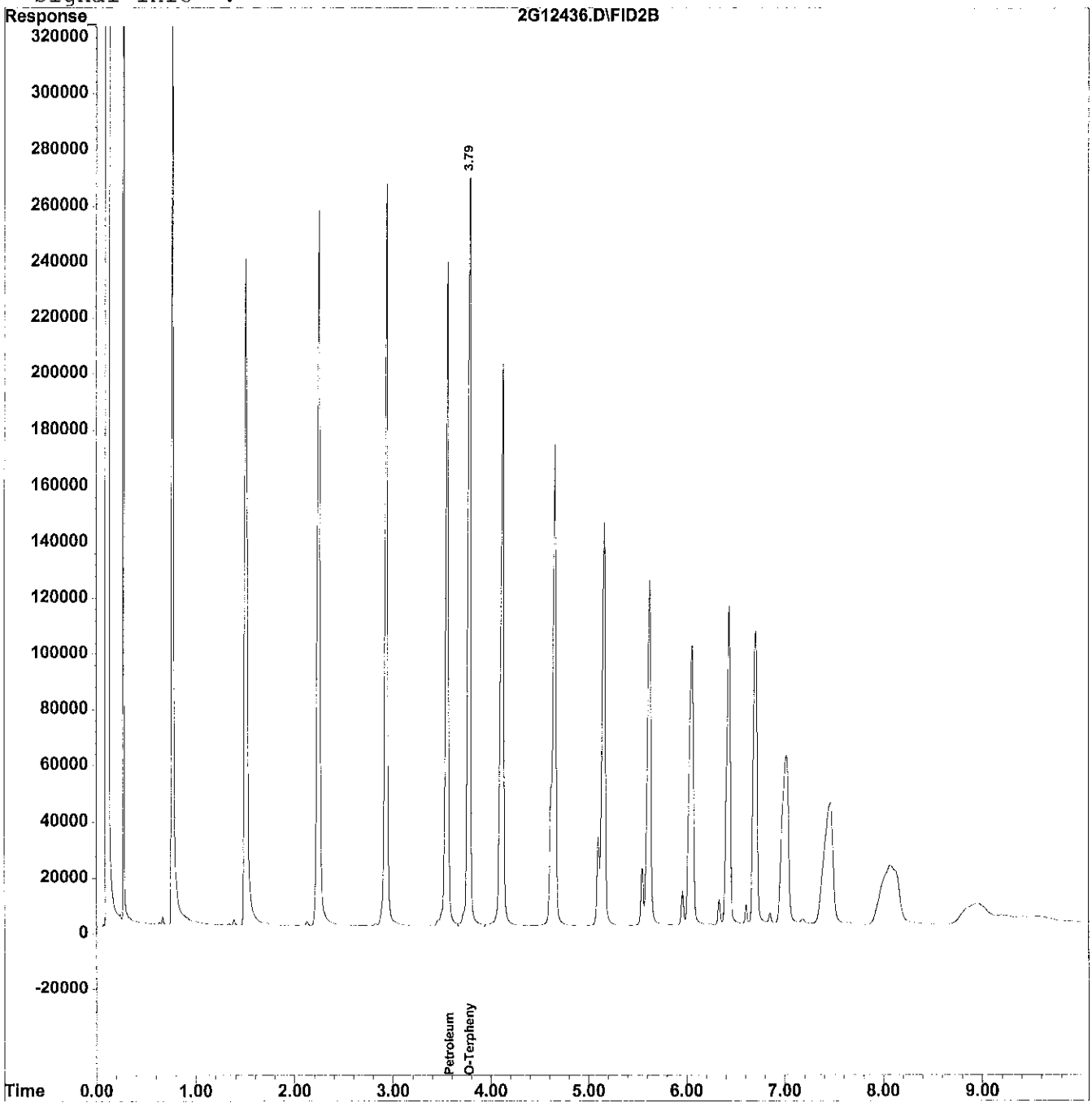
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.79	5292857	197.527 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 987.63%#	
Target Compounds			
1) H Petroleum Range	3.60	65812243	3320.851 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12436.D Vial: 3
Acq On : 22 May 2001 12:48 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : WATER Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12441.D Vial: 8
Acq On : 22 May 2001 14:02 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3338.595	1.8	94	0.00
2	S	O-Terphenyl	200.000	200.286	-0.1	91	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12441.D FLASHPRO.M Wed May 23 10:07:11 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052201A\2G12441.D Vial: 8
Acq On : 22 May 2001 14:02 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\052201A\2G12441.D Vial: 8
Acq On : 22 May 2001 14:02 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 22 15:42 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

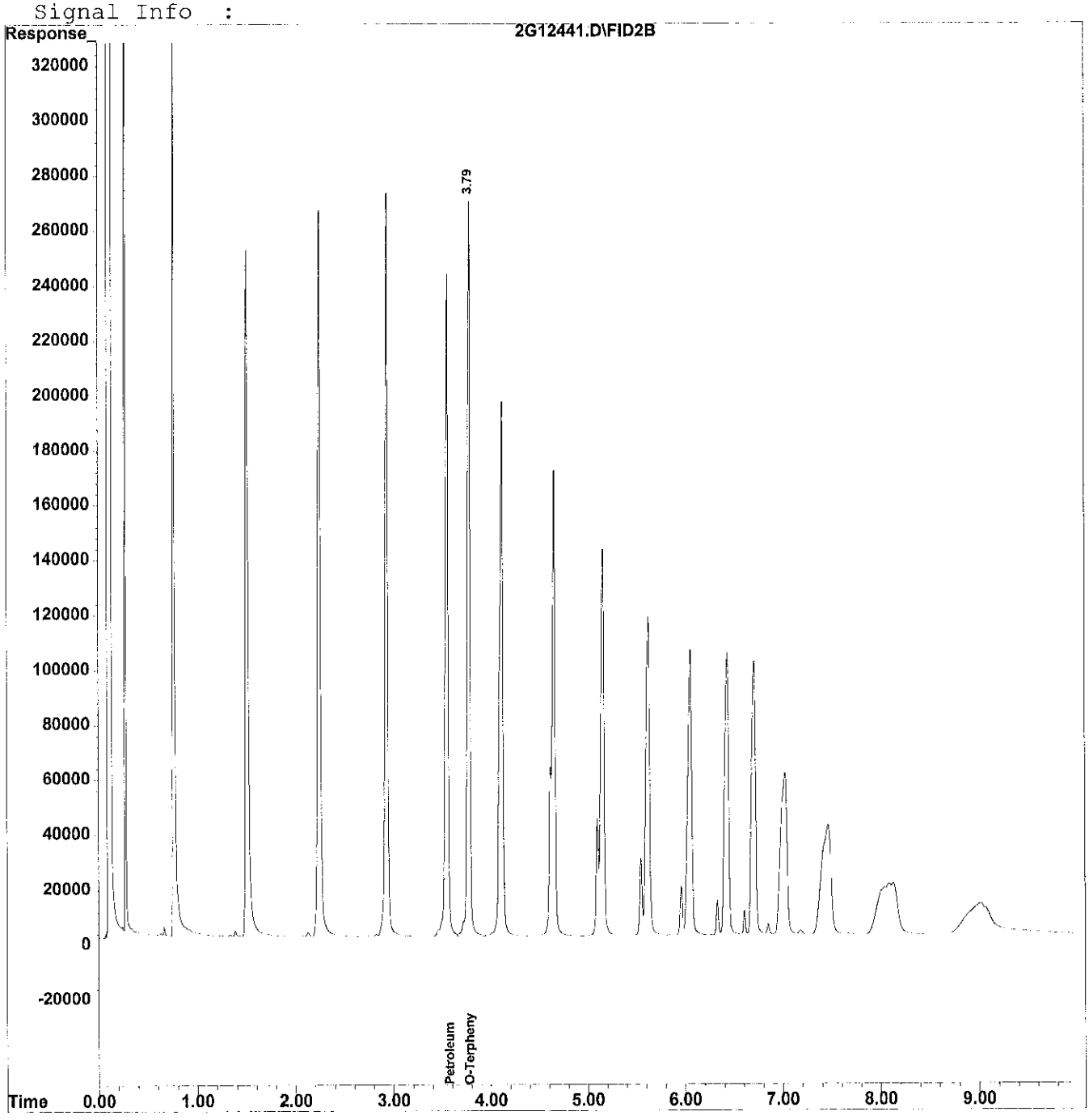
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.79	5366783	200.286 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1001.43%#
Target Compounds			
1) H Petroleum Range	3.60	66163891	3338.595 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12441.D Vial: 8
Acq On : 22 May 2001 14:02 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 22 15:42 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12449.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3422.334	-0.7	96	0.00
2	S	O-Terphenyl	200.000	204.173	-2.1	93	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12449.D FLASHPRO.M Tue May 22 16:33:24 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052201A\2G12449.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\052201A\2G12449.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 22 16:33 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

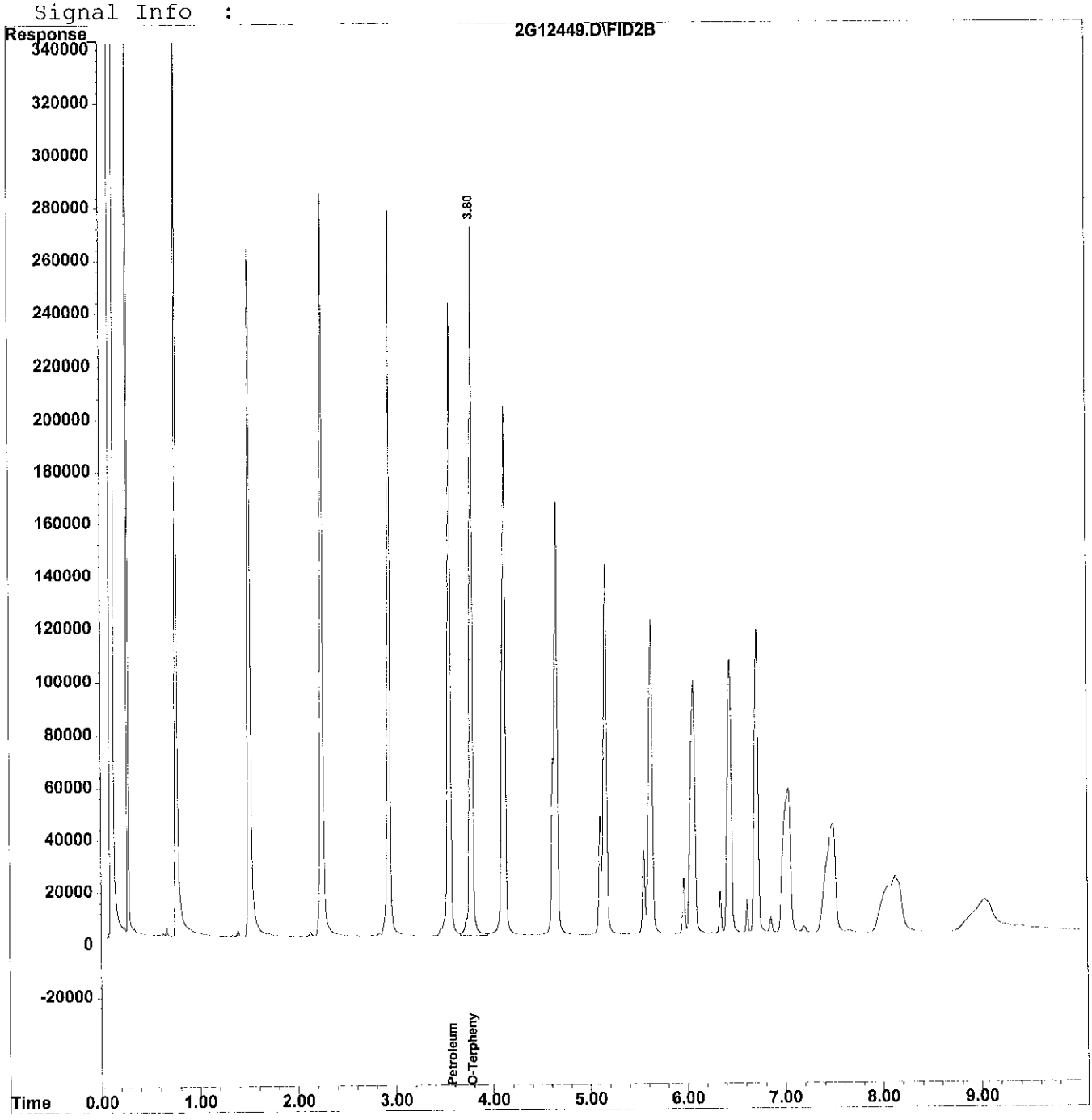
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	5470943	204.173 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1020.87%#
Target Compounds			
1) H Petroleum Range	3.60	67823413	3422.334 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12449.D Vial: 16
Acq On : 22 May 2001 16:22 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 22 16:33 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12454.D Vial: 3
Acq On : 23 May 2001 9:12 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3031.826	10.8	85	0.00
2	S	O-Terphenyl	200.000	178.397	10.8	81	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12454.D FLASHPRO.M Wed May 23 17:07:22 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052301\2G12454.D Vial: 3
Acq On : 23 May 2001 9:12 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\052301\2G12454.D Vial: 3
Acq On : 23 May 2001 9:12 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 11:28 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

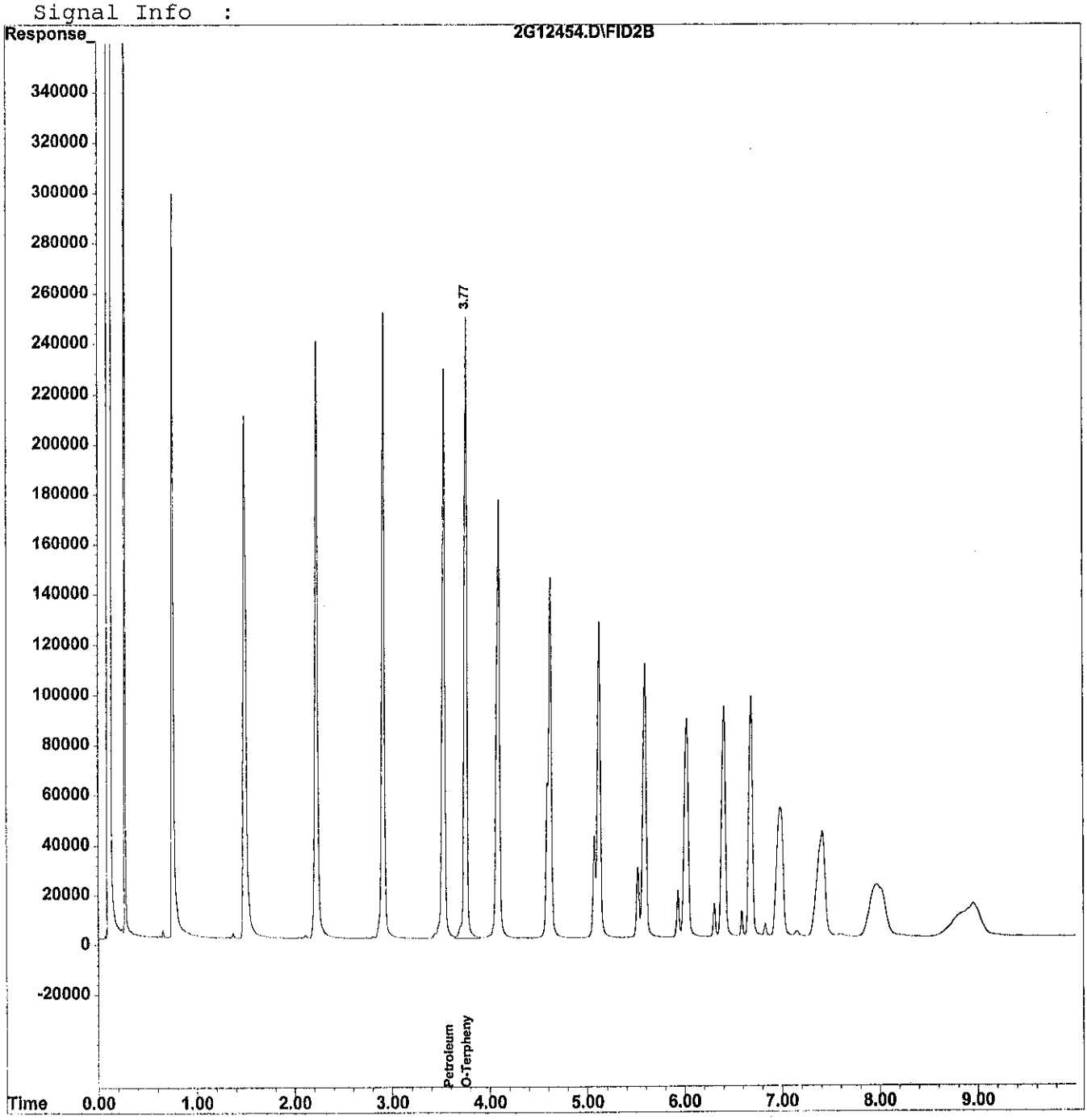
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	4780273	178.397 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 891.99%#	
Target Compounds			
1) H Petroleum Range	3.60	60084365	3031.826 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052301\2G12454.D Vial: 3
Acq On : 23 May 2001 9:12 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 11:28 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052301\2G12462.D Vial: 11
Acq On : 23 May 2001 11:09 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3102.573	8.7	87	0.00
2	S	O-Terphenyl	200.000	185.190	7.4	84	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12462.D FLASHPRO.M Wed May 23 11:20:43 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052301\2G12462.D Vial: 11
Acq On : 23 May 2001 11:09 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\052301\2G12462.D Vial: 11
Acq On : 23 May 2001 11:09 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 11:20 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

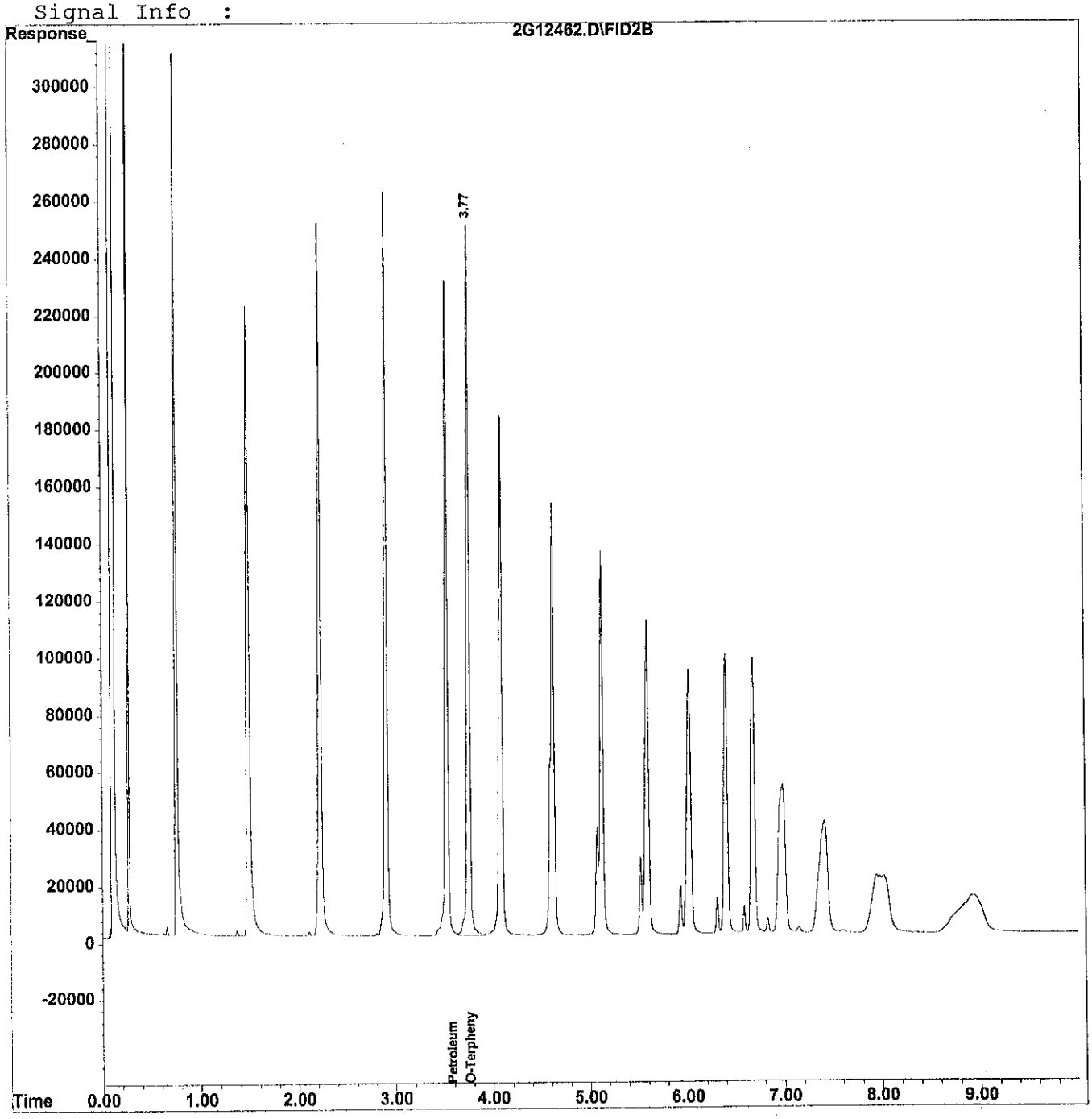
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	4962296	185.190 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 925.95%#	
Target Compounds			
1) H Petroleum Range	3.60	61486438	3102.573 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052301\2G12462.D Vial: 11
Acq On : 23 May 2001 11:09 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 11:20 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\052201A\2G12437.D Vial: 4
Acq On : 22 May 2001 13:06 Operator: HV
Sample : PRO water BLK V163-P161 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

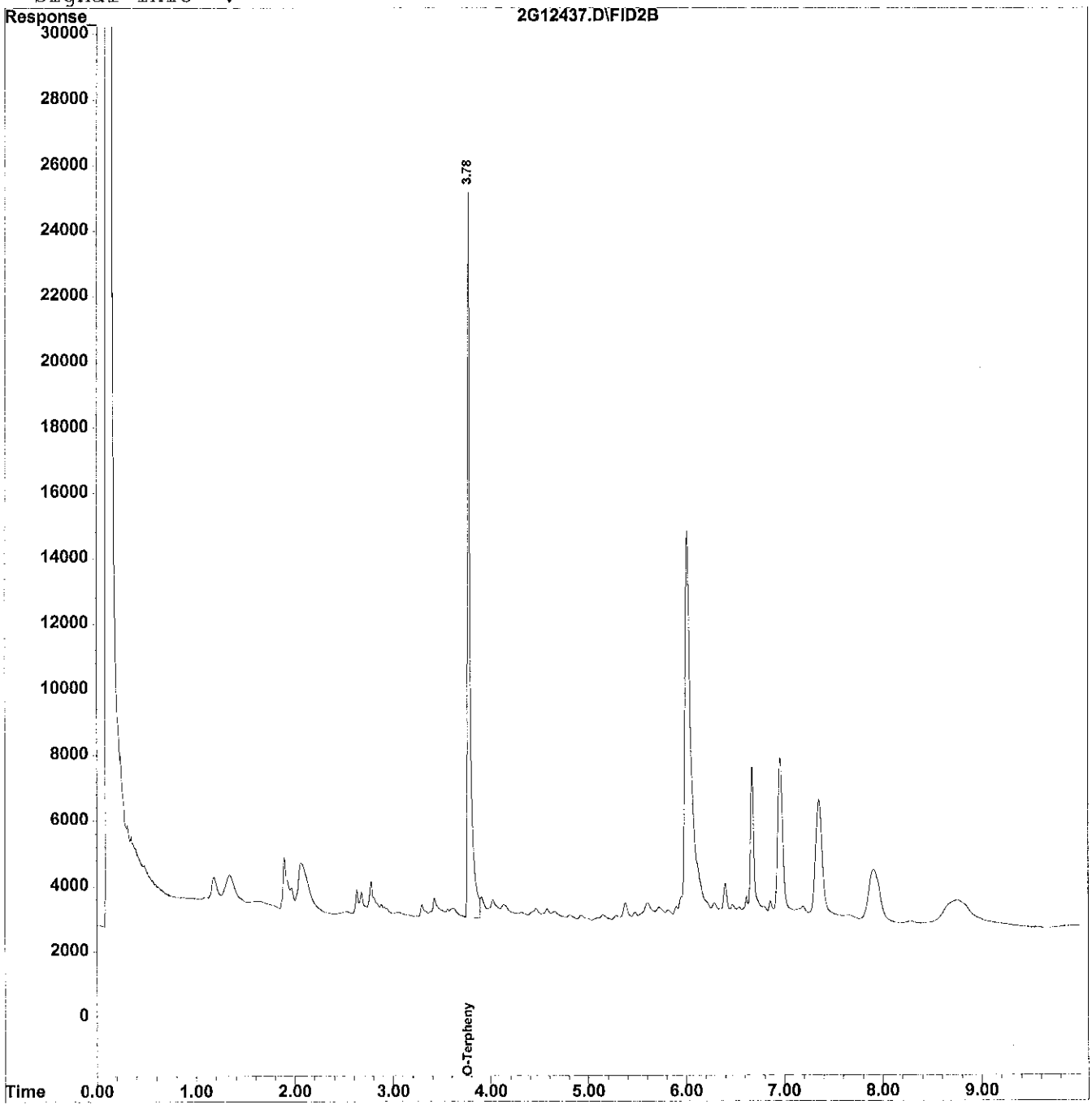
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.78	444369	16.584 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	82.92%
Target Compounds			
1) H Petroleum Range	3.60	2547198	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12437.D FLASHPRO.M Wed May 23 10:07:56 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052201A\2G12437.D Vial: 4
Acq On : 22 May 2001 13:06 Operator: HV
Sample : PRO water BLK V163-P161 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:07 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12438.D Vial: 5
Acq On : 22 May 2001 13:20 Operator: HV
Sample : PRO water LCS V163-P161 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

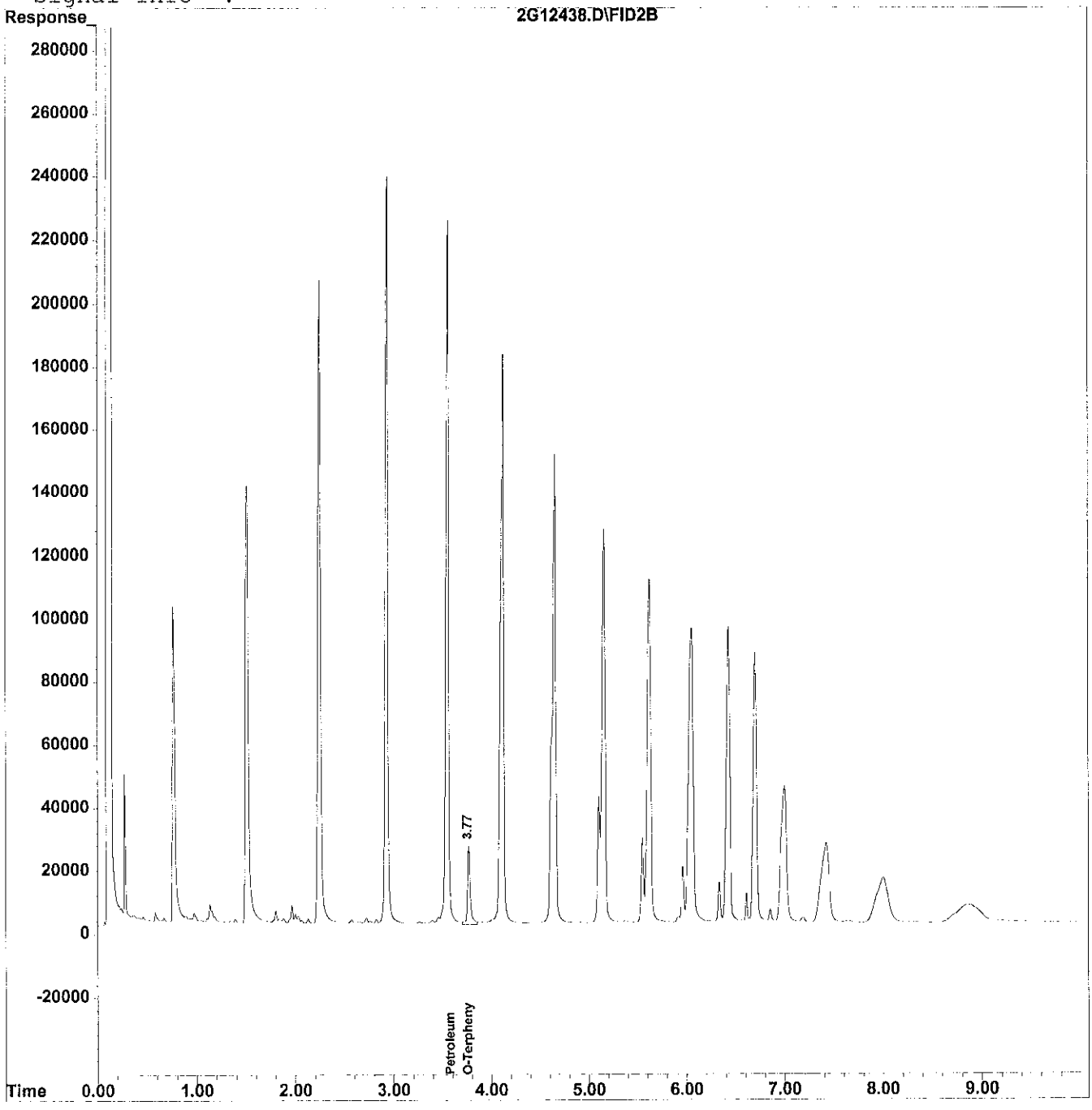
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	510993	19.070 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	95.35%
Target Compounds			
1) H Petroleum Range	3.60	50483498	2547.371 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12438.D Vial: 5
Acq On : 22 May 2001 13:20 Operator: HV
Sample : PRO water LCS V163-P161 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 23 10:08 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12442.D Vial: 9
Acq On : 22 May 2001 14:41 Operator: HV
Sample : PRO soil BLK V163-P143 Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

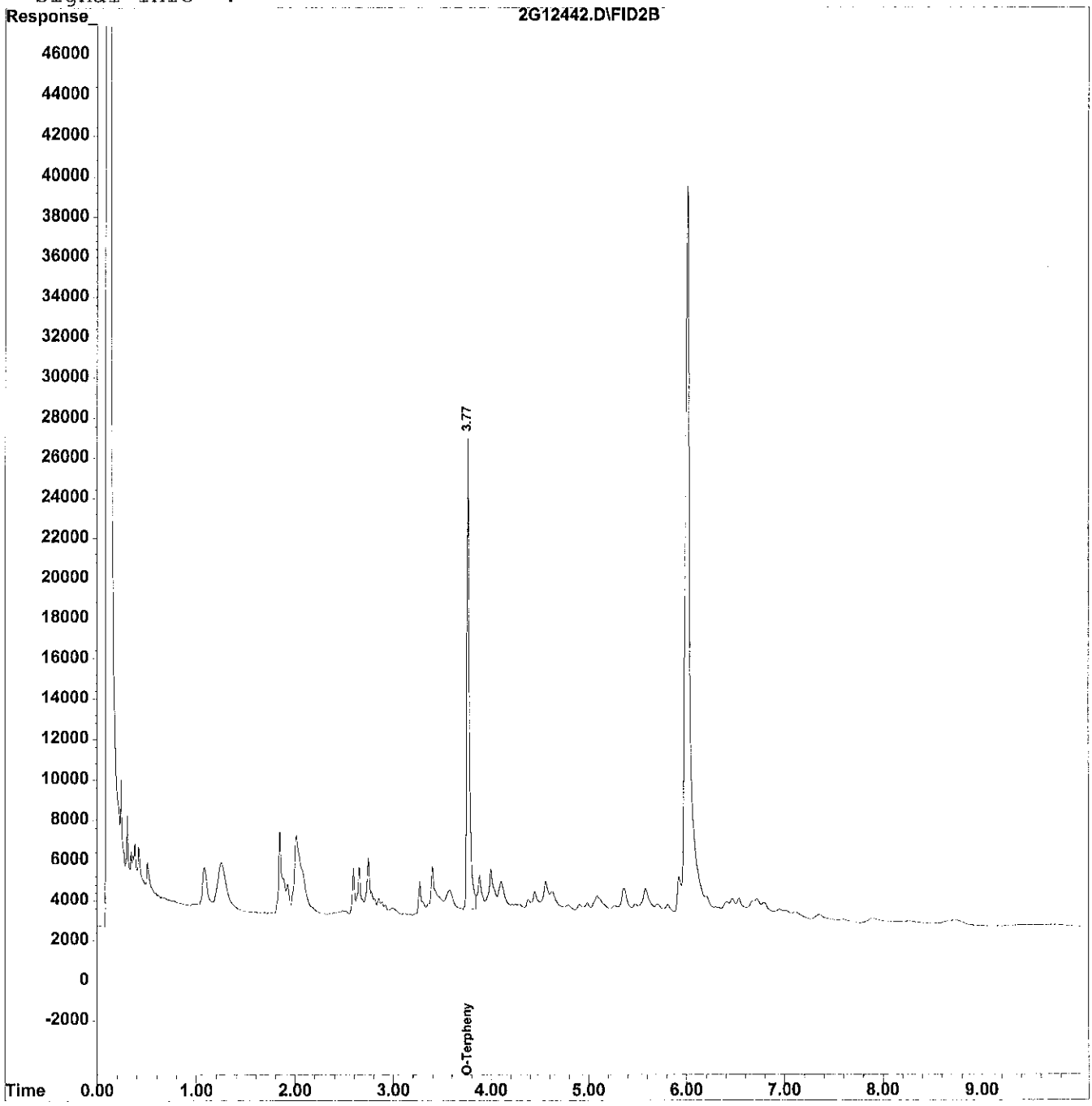
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	420833	628.211 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	78.53%
Target Compounds			
1) H Petroleum Range	3.60	4298183	8675.362 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052201A\2G12442.D Vial: 9
Acq On : 22 May 2001 14:41 Operator: HV
Sample : PRO soil BLK V163-P143 Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052201A\2G12443.D Vial: 10
Acq On : 22 May 2001 14:56 Operator: HV
Sample : PRO soil LCS V163-P143 Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

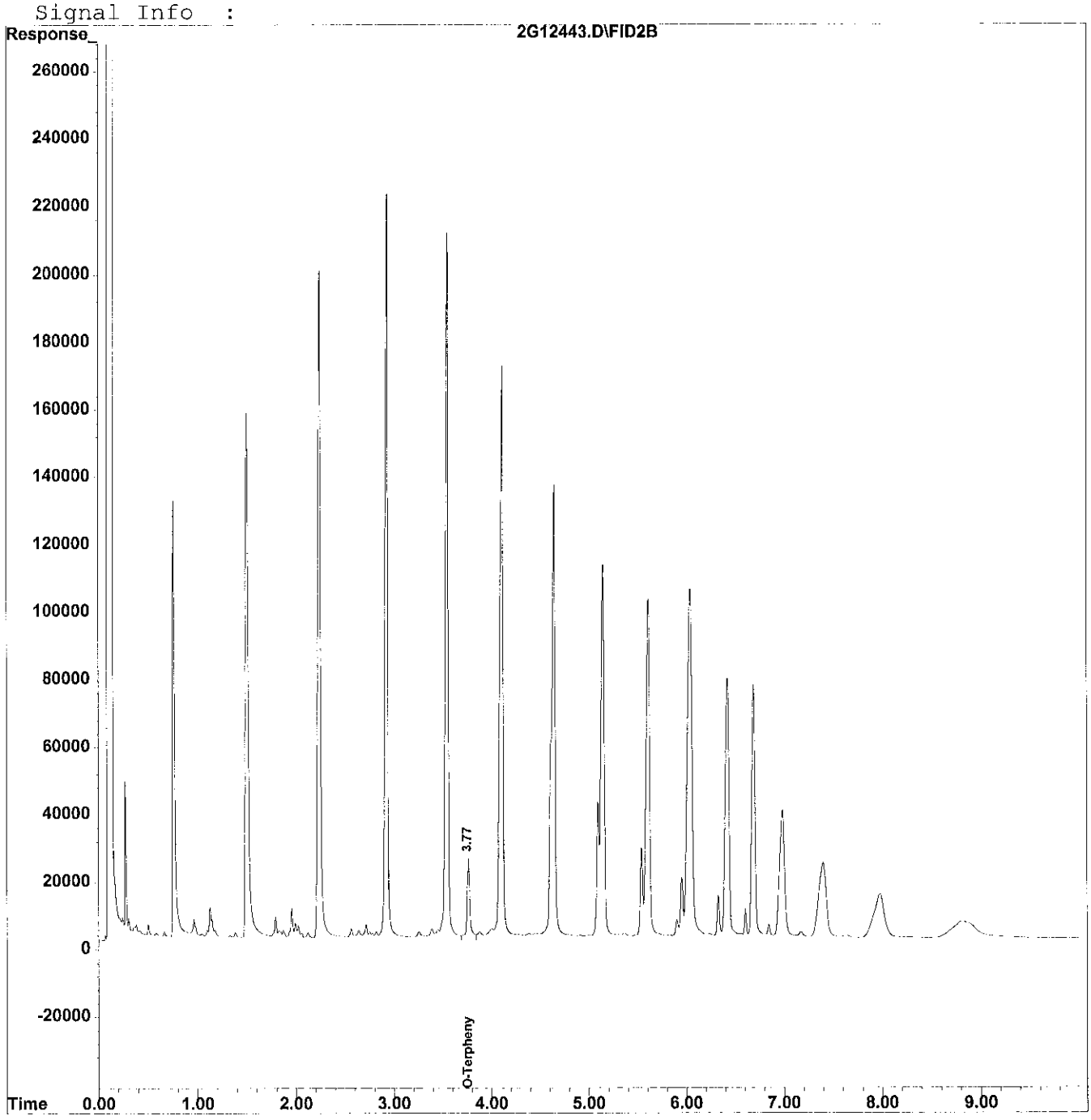
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.77	514837	768.538 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	96.07%
Target Compounds			
1) H Petroleum Range	3.60	49094619	99091.549 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12443.D FLASHPRO.M Tue May 22 16:34:19 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052201A\2G12443.D Vial: 10
Acq On : 22 May 2001 14:56 Operator: HV
Sample : PRO soil LCS V163-P143 Inst : hp2
Misc : SOIL Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 22 16:34 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time May 16 01 Instrument ID HP2 Column ID RTX-5 Data Subdirectory 051601A

Analyst Initials HV

SOP # GCS09 Rev. # 1	____ 8081A	SOP # GCS10 Rev. # 3	____ 8082
SOP # GCS04 Rev. # 2	____ 8151	SOP # GCS01 Rev. # 1	____ 8100
SOP # GCS03 Rev. # 0	✓ PRO	SOP # GCS02 Rev. # 2	____ 8015B Mod (DRO)
SOP # GCS02 Rev. # 2	____ 8015B Mod (Alcohol)	SOP # GCS07 Rev. # 4	____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
2q123n3	Meth2				✓
n4	"				
n5	WIN. Def. Std.		NS13-12		
n6	PRO CONT. Chk		SVN3-34		
n7	PRO STD. 600 ppm.				
n8	400				
n9	100				
60	50				
61	5				
62	ALT. PRO @ 200 ppm. Exp: 5/27/01		SVN1-12		
63	PRO Water BLK VN3-P73				
64	LCS				
65	1010n318-01 GLA PRO Wat.				
66	-02				
67	-03 MS				
68	-04 MSD				
69	-05				
70	Meth2				
71	PRO CONT. Chk		SVN3-34		

HV 5/17/01

Reviewed By: mdc 5/17/01

Status:

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SM1 = Sample matrix interference

RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed

RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required

* = See comments on opposite page

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HP 2 Column ID RTX-5 Data Subdirectory 0522a1s

Analyst Initials HY

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
26l2430	1-CHLOROOCTANE @ 20 ppm				✓
31	1-CHLOROOCTANE @ 1000 ppm				
32	TPH STD 1000 ppm				
33	" 50 ppm				
34	MECL2				
35	win def std		NS13-12		
36	PRO CONT CHK		SV53-34		
37	PRO Water BLK V1163-P1161				
38	" LCS "				
39	L0105404-11 ELA PRO water				
40	MECL2				
41	PRO CONT. CHK		SV53-34		
42	PRO soil BLK V1163-P1143				
43	" LCS "				
44	L0105404-01 ELA PRO soil				
45	-02				
46	-03 MS				
47	-04 MSD				
48	MECL2				
49	PRO CONT. CHK		SV53-34		
50	L0105404-05 ELA PRO soil				RR
51	" -06				"

HY 5/23/01

Reviewed By: RJC 5/23/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HP 2 Column ID RTX-5 Data Subdirectory 052201q

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☑ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

L01 2q0124-20 — 21 — RR - Sequence was stopped due to faulty signal on B2 & A5H

Reviewed By: Rec 5/23/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/23/01 Instrument ID HP2 Column ID RTX-5 Data Subdirectory 052301

Analyst Initials HV

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
2G12452	MECL2				✓
53	w/a det std		NS 12:50		
54	PRO CONT CHK		NS 13:39		
55	L01054H04-05 ELA PRO SOIL				
56	-06 ELA PRO SOIL				
57	-07				
58	-08				
59	-09				
60	-10				
61	MECL2				
62	PRO CONT CHK		NS 13:39		

CAB 5-23-01

Reviewed By: TWC 5/23/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

Volume 163
Page 161

Parameter: FLA-PRO H+O SOP #: EXPRO Revision #: 1
Extraction Analyst(s): JAQ TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/21/01 19:30 Date TV/KD: 5/21/01
Spike/Surrogate Analyst: JAQ Witness: DCJ
Surrogate #: E550036.50 Earliest Hold Date: 5/24
Spike #: A = E550037.15 Spike #: B = —

Extraction Work Group WG 97843
Analytical Work Group WG 97873
Extract Relinquished By: pd
Extract Received By & Date: WJ 5/22/01

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank		✓			1L	1ml		1ml	T				WG 97843-01
2	LCS		✓			1	1	1ml	1	1				WG 97843-02
3	05-401-11	FLA-PRO	✓			965 ml	1	1	1	1				
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/21/01 JAQ

Methylene Chloride Lot #: 91516
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: 1:1 HCl Lot #: ER1610
Florisil Lot #: —
Silica Gel Lot #: 134556
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1735

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C	✓	Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: _____ Date: 05/24/01

Extraction Notes For Volume # 163 Page # 161

General Comments: Nothing to report

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

Parameter: Pro-S SOP #: EXPRO Revision #: 1
Extraction Analyst(s): TM TV/KD Analyst(s): TM DCU
Date/Time Extracted: 5/21-01/1530 Date TV/KD: 5/21/01
Spike/Surrogate Analyst: TM Witness: DP
Surrogate #: ESSC0346-50 Earliest Hold Date: 5/31/01
Spike #: A = ESSC0337-13 Spike #: B = —

Extraction Work Group WG 97756
Analytical Work Group WG 97817
Extract Relinquished By: DCU
Extract Received By & Date: MW 5/22/01

	Sample ID	Test Code	pH / <2	pH / N	pH / >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					25.10 g	1 ml		1 ml	T				WG 97756-02
2	LCS					.02		1 ml						WG " -03
3	05-404-01	FIA-PRO				.02				"				
4	-02					.00				C				WG 97756-01
5	-03ms					.04		1 ml		T				* WG " -04
6	-04MSD					.06		"						* WG " -05
7	-05					.02								
8	-06					.02								
9	-07					.05				"				
10	-08					.08				C				
11	-09					.05				T				
12	" -10	"				.07	"		"	"				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/20

DCU 5/21/01

Methylene Chloride Lot #: 410/6
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: 130556
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1705

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C	✓	Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/22/01

Extraction Notes For Volume # 163 Page # 143

General Comments: * MS of 05-404-02
* MSD of 1

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

Example DRO Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
Where:	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
Where:	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.3 Metals

2.3.1 Metals I C P Data

REPORT NARRATIVE
METALS

KEMRON Login No:L0105404

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: WG97846 - The method blank associated with this sample batch yielded a positive result for aluminum of 9.48 mg/kg. All reported sample results exceeded the blank value by a factor of 10x or greater.
Laboratory Control Sample: All acceptance criteria were met
MS/MSD: WG97792 - A post digestion spike was performed for lead with 110 % recovery.
WG97846 - A post digestion spike was performed for antimony with 97.3% recovery and for magnesium with 94.5% recovery. A serial dilution was performed for aluminum and iron with results within 10% of the original determinations.

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SLP, JYH REVIEWED: Kathy R Albert DATE: 06/05/01

Rev. 6/00

METALS - ICP DATA
Login Number: L0105404

A. QC Summary
✓ Batch QC Summary Form

B. Raw Data
✓ Analyst checksheet
✓ Analysis runlog
✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- ICP Interference check sample
- ICP Serial dilutions (as needed)
- Post digestion spike sample (if applicable)
- Standard addition results (as needed)

C. Preparation log(s)

D. Sample Calculations

Checked By: MMB Date: 05/30/01

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2.3.1.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98120 **RUN DATE:** 5/24/2001
METHOD: 6010B **PREP DATE:** 5/20/2001
MATRIX: Water **ANALYST:** KHR
UNITS: mg/L **DUPLICATE:** L0105429-03
INSTRUMENT: Perkin Elmer Optima 3000 DV **MS/MSD:** L0105429-02

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	0.004	ND	0.200	0.193	ND	ND	ND	0.200	0.196	0.198	96.5	80.0	120.0	98.0	99.0	75.0	125.0	NA	1.0	20
Aluminum	0.100	ND	10.000	9.800	ND	ND	ND	10.000	9.960	10.000	98.0	80.0	120.0	99.6	100.0	75.0	125.0	NA	0.4	20
Arsenic	0.004	ND	1.000	0.950	ND	ND	ND	1.000	0.936	0.936	95.0	80.0	120.0	93.6	93.6	75.0	125.0	NA	0.0	20
Barium	0.010	ND	10.000	9.130	0.063	0.062	0.065	10.000	8.380	8.410	91.3	80.0	120.0	83.2	83.5	75.0	125.0	1.4	0.4	20
Beryllium	0.00400	ND	1.000	0.971	ND	ND	ND	1.000	0.963	0.968	97.1	80.0	120.0	96.3	96.8	75.0	125.0	NA	0.5	20
Calcium	0.1000	0.0399	10.000	9.970	106.000	105.000	110.000	10.000	113.000	113.000	99.7	80.0	120.0	30.0	30.0	75.0	125.0	0.9	0.0	20
Cadmium	0.00050	ND	1.000	0.929	ND	ND	ND	1.000	0.916	0.922	92.9	80.0	120.0	91.6	92.2	75.0	125.0	NA	0.7	20
Cobalt	0.020	ND	1.000	0.956	ND	ND	0.033	1.000	0.901	0.907	95.6	80.0	120.0	86.8	87.4	75.0	125.0	NA	0.7	20
Chromium	0.005	ND	1.000	0.972	ND	ND	ND	1.000	0.917	0.924	97.2	80.0	120.0	91.7	92.4	75.0	125.0	NA	0.8	20
Copper	0.020	ND	1.000	0.951	0.388	0.384	0.350	1.000	1.290	1.300	95.1	80.0	120.0	94.0	95.0	75.0	125.0	1.0	0.8	20
Iron	0.040	0.0198	1.000	0.998	0.790	0.742	ND	1.000	0.848	0.857	99.8	80.0	120.0	84.8	85.7	75.0	125.0	6.3	1.1	20
Potassium	0.500	ND	50.000	49.700	2.160	2.130	1.660	50.000	51.200	51.000	99.4	80.0	120.0	99.1	98.7	75.0	125.0	1.4	0.4	20
Magnesium	0.100	ND	10.000	9.480	7.910	7.790	7.710	10.000	16.800	16.800	94.8	80.0	120.0	90.9	90.9	75.0	125.0	1.5	0.0	20
Manganese	0.010	0.0003	1.000	0.981	ND	ND	ND	1.000	0.923	0.927	98.1	80.0	120.0	92.3	92.7	75.0	125.0	NA	0.4	20
Molybdenum	0.100	ND	1.000	0.909	ND	ND	ND	1.000	0.873	0.887	90.9	80.0	120.0	87.3	88.7	75.0	125.0	NA	1.6	20
Sodium	0.500	ND	50.000	49.100	64.500	62.800	21.400	50.000	70.200	70.000	98.2	80.0	120.0	97.6	97.2	75.0	125.0	2.7	0.3	20
Nickel	0.040	ND	1.000	0.961	ND	ND	ND	1.000	0.878	0.884	96.1	80.0	120.0	87.8	88.4	75.0	125.0	NA	0.7	20
Lead	0.005	ND	1.000	0.971	ND	ND	0.037	1.000	0.935	0.936	97.1	80.0	120.0	89.9	90.0	75.0	125.0	NA	0.1	20
Vanadium	0.010	ND	1.000	0.956	ND	ND	ND	1.000	0.936	0.941	95.6	80.0	120.0	93.6	94.1	75.0	125.0	NA	0.5	20
Zinc	0.020	0.0039	1.000	0.957	0.031	0.028	0.079	1.000	0.941	0.940	95.7	80.0	120.0	86.3	86.2	75.0	125.0	9.4	0.1	20
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MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP:	WG97743	**RUN DATE:**	5/21/01
METHOD:	6010B	**PREP DATE:**	5/18/01
MATRIX:	Soil	**ANALYST:**	SLP
UNITS:	mg/kg	**DUPLICATE:**	L0105404-01
INSTRUMENT:	IRIS	**MS/MSD:**	L0105404-02

			CONCENTRATION PPM							PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	0.50	ND	10.000	9.930	0.112	ND	ND	10.000	8.620	9.610	99.3	80.0	120.0	86.2	96.1	75.0	125.0	NA	10.86	20
Aluminum	5.000	9.480	500.000	500.000	9070.000	8870.000	15400.000	500.000	18300.000	20800.000	100.0	80.0	120.0	580.0	1080.0	75.0	125.0	2.23	12.79	20
Arsenic	1.000	ND	50.000	48.600	ND	ND	ND	50.000	40.800	46.700	97.2	80.0	120.0	81.6	93.4	75.0	125.0	NA	13.49	20
Barium	0.500	0.019	500.000	493.000	11.900	9.390	7.690	500.000	447.000	494.000	98.6	80.0	120.0	87.9	97.3	75.0	125.0	23.58	9.99	20
Beryllium	0.500	ND	50.000	49.500	0.050	0.046	0.033	50.000	45.900	49.800	99.0	80.0	120.0	91.7	99.5	75.0	125.0	8.95	8.15	20
Calcium	10.000	ND	500.000	502.000	328.000	317.000	750.000	500.000	1170.000	1240.000	100.4	80.0	120.0	84.0	98.0	75.0	125.0	3.41	5.81	20
Cadmium	0.100	0.042	50.000	49.100	ND	ND	ND	50.000	43.100	47.700	98.2	80.0	120.0	86.2	95.4	75.0	125.0	NA	10.13	20
Cobalt	1.000	ND	50.000	49.500	0.868	0.812	0.387	50.000	44.100	48.700	99.0	80.0	120.0	87.4	96.6	75.0	125.0	6.67	9.91	20
Chromium	1.000	ND	50.000	49.900	6.340	6.520	15.500	50.000	57.700	64.400	99.8	80.0	120.0	84.4	97.8	75.0	125.0	2.80	10.97	20
Copper	1.000	ND	50.000	49.100	0.285	0.317	ND	50.000	43.800	48.200	98.2	80.0	120.0	87.6	96.4	75.0	125.0	10.63	9.57	20
Iron	2.000	ND	50.000	55.900	1570.000	1910.000	1130.000	50.000	3420.000	6970.000	111.8	80.0	120.0	4580.0	11680.0	75.0	125.0	19.54	68.33	20
Potassium	50.000	ND	2500.000	2400.000	103.000	97.800	63.800	2500.000	2300.000	2540.000	96.0	80.0	120.0	89.4	99.0	75.0	125.0	5.18	9.92	20
Magnesium	25.000	ND	500.000	496.000	217.000	191.000	196.000	500.000	783.000	872.000	99.2	80.0	120.0	117.4	135.2	75.0	125.0	12.75	10.76	20
Manganese	0.500	ND	50.000	49.600	3.890	3.150	0.863	50.000	44.700	48.200	99.2	80.0	120.0	87.7	94.7	75.0	125.0	21.02	7.53	20
Molybdenum	5.000	ND	50.000	50.000	ND	0.269	ND	50.000	43.300	47.900	100.0	80.0	120.0	86.6	95.8	75.0	125.0	NA	10.09	20
Sodium	25.000	ND	2500.000	2490.000	11.300	10.200	10.600	2500.000	2230.000	2480.000	99.6	80.0	120.0	88.8	98.8	75.0	125.0	10.23	10.62	20
Nickel	2.000	ND	50.000	49.100	3.510	4.160	2.750	50.000	49.000	54.000	98.2	80.0	120.0	92.5	102.5	75.0	125.0	16.95	9.71	20
Lead	1.000	ND	50.000	50.000	3.810	3.360	4.030	50.000	48.600	54.000	100.0	80.0	120.0	89.1	99.9	75.0	125.0	12.55	10.53	20
Antimony	10.000	ND	50.000	49.600	ND	ND	ND	50.000	28.100	31.100	99.2	80.0	120.0	56.2	62.2	75.0	125.0	NA	10.14	20
Selenium	1.000	ND	50.000	47.300	1.140	1.070	1.460	50.000	43.100	48.400	94.6	80.0	120.0	83.3	93.9	75.0	125.0	6.33	11.58	20
Thallium	2.000	0.354	50.000	50.400	ND	ND	ND	50.000	43.800	47.900	100.8	80.0	120.0	87.6	95.8	75.0	125.0	NA	8.94	20
Vanadium	0.500	ND	50.000	50.500	7.880	11.000	9.800	50.000	58.500	67.200	101.0	80.0	120.0	97.4	114.8	75.0	125.0	33.05	13.84	20
Zinc	1.000	ND	50.000	49.500	2.610	2.500	0.796	50.000	46.100	50.900	99.0	80.0	120.0	90.6	100.2	75.0	125.0	4.31	9.90	20
																		0.00	0.00	
																		0.00	0.00	
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																		0.00	0.00	

NOTES & DEFINITIONS :

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SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
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UCL = UPPER CONTROL LIMIT

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MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98190
METHOD: 6020A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: ELAN 6100 ICP-MS

RUN DATE: 05/24/01
PREP DATE: 05/21/01
ANALYST: JYH
DUPLICATE: L0105433-17
MS/MSD: L0105433-18

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Antimony	0.00100	ND	0.125	0.116	ND	ND	ND	0.125	0.054	0.056	92.8	80.0	120.0	43.0	44.7	80.0	120.0	NA	4.0	20
Selenium	0.00100	ND	0.125	0.107	ND	ND	ND	0.125	0.089	0.088	85.6	80.0	120.0	71.4	70.5	75.0	125.0	NA	1.2	20
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	

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KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98190A
METHOD: 6020A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: ELAN 6100 ICP-MS

RUN DATE: 05/25/01
PREP DATE: 05/21/01
ANALYST: JYH
DUPLICATE: L0105433-17
MS/MSD: L0105433-18

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Lead	0.00100	ND	0.125	0.124	0.03060	0.02859	0.01360	0.125	0.124	0.123	99.2	80.0	120.0	88.3	87.5	75.0	125.0	7.1	0.8	20
Thallium	0.00020	ND	0.125	0.124	0.000	0.000	0.000	0.125	0.106	0.106	99.2	80.0	120.0	84.6	84.6	75.0	125.0	11.2	0.0	20
																		0.0	0.0	
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KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG97792
METHOD: 6020A
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: ELAN 6100 ICP-MS

RUN DATE: 5/21/01
PREP DATE: 5/20/01
ANALYST: JYH
DUPLICATE: L0105292-01
MS/MSD: L0105404-02

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Arsenic	0.500	ND	10.000	9.760	2.500	2.590	ND	10.000	8.440	8.830	97.6	80.0	120.0	84.4	88.3	75.0	125.0	3.5	4.5	20
Lead	0.500	ND	10.000	10.200	3.920	4.610	3.760	10.000	15.600	17.500	102.0	80.0	120.0	118.4	137.4	75.0	125.0	16.2	11.5	20
Antimony	0.200	ND	10.000	9.780	0.168	ND	ND	10.000	3.640	3.360	97.8	80.0	120.0	36.4	33.6	75.0	125.0	NA	7.4	20
Selenium	0.200	ND	10.000	9.890	0.217	0.235	0.151	10.000	7.050	7.460	98.9	80.0	120.0	69.0	73.1	75.0	125.0	8.0	5.7	20
Thallium	0.10000	ND	10.000	9.950	0.078	0.063	ND	10.000	10.900	11.000	99.5	80.0	120.0	109.0	110.0	75.0	125.0	21.0	0.9	20
																		0.0	0.0	
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2.3.1.2 Raw Data

Metals

Date: 5/21/01
Analyst: SLP
Method: 6010B
Instrument: IRIS-ICP
Work Group: 97846, 97848, 97849

	Analyst
Calibration/Linearity	✓ Y
ICV/CCV	✓ Y
ICB/CCB	✓ Y
icsa/icsab/cri	✓ Y
Blank/LCS	✓ X
MS/MSD	✓ X
Postspike/Serial Dilution	✓ X
Duplicate	✓ X
Record Results	✓ Y
Excel Spreadsheets	✓ X
Results Reporting / Data Qualifiers	X
Calculations & Correct Factors	X
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	✓ NA
QA Approval - Seedpak 3	NA
Check for Completeness	✓
Level IV Data	✓

5/22
05-298P
05-297P
05-350P
05-433P
05-432P

5/23
05-411P

5/25
05-404P

Primary Reviewer Initials & Date Checked SLP 5/21/01

Secondary Reviewer Initials & Date Checked JL 5/22/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/22

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1132

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST SLP DATE 05/21/01 TIME 1754
METHOD # 6010B SOP # ME600F Rev # 0 WORK GROUP # 97846, 97848, 97849
CAL STD SOURCE MI-9-47A ICV/CCV SOURCE MI-9-44A
ICS AB SOURCE MI-9-41B ICS A SOURCE MI-9-41A POST SPK SOURCE DSS-31-67
Instrument ID: TJA IRIS: ✓ Data File: 20010521.3 Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
cal 5/21	BT 60				27.	TC05-433-19		5/50	
	61 1/200				28.	W05-349-01		1/50	
	S2 1/100				29.	01S		↓	
	S3 1/4				30.	02		↓	
	S4 1/2				31.	TC BLK 5/20/01	0.1		CCV/CCB
	S5			ICV/ICB	32.	PBS ME			WG97838-03
	ICSA				33.	LCSS ME		1.00/50	04
	ICSAB			CCV/CCB	34.	05-432-02		1.02/50	02
1.	PBS B4			WG97743-03	35.	02DP		1.05/50	07
2.	LCSS B4		1.00/50	04	36.	01		1.04/50	01
3.	05-404-01		1.06/50	02	37.	01S		1.04/50	05
4.	01DP		0.98/50	07	38.	01SD		1.00/50	06
5.	02		1.09/50	01	39.	03		1.05/50	
6.	02SDL.2	0.2	↓		40.	03SDL.2	0.2	↓	
7.	02SDL.04	0.04	↓		41.	03PS.9	0.9	↓	CCV/CCB
8.	02PS.9	0.9	↓		42.	04		1.03/50	
9.	03S		1.10/50	05	43.	05		↓	
10.	04SD		1.02/50	CCV/CCB/06	44.	06		↓	
11.	298-01		1.10/50		45.	07		1.10/50	
12.	411-01		1.05/50	CCV/CCB	46.	08		1.01/50	
13.	PBW DS			WG97785-03	47.	09		1.06/50	
14.	LCSW DS			04	48.	10		1.00/50	
15.	TC05-297-01		5/50	02	49.	11		1.06/50	
16.	01DP		↓	07	50.	12		1.04/50	
17.	433-20		↓	01	51.	13		1.01/50	CCV/CCB
18.	20S		↓	05	52.	14		1.02/50	
19.	20SD		↓	06	53.	15		1.01/50	
20.	350-01		↓		54.	16		1.06/50	
21.	01S		↓		55.	17		1.00/50	
22.	TC BLK 5/18/01	0.1		CCV/CCB	56.	18		1.09/50	
23.	TC05-433-02		5/50		57.	19		1.05/50	
24.	02SDL.2	0.2	↓		58.	20		1.01/50	CCV/CCB
25.	02PS.9	0.9	↓		59.	PBS AB			WG97839-03
26.	03		↓		60.	LCSS AB		1.00/50	04

cont'd

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST GLP DATE 05/21/01 TIME 1754
METHOD # 6010B SOP # ME600F Rev # 0 WORK GROUP # 97846, 97848, 97849,
CAL STD SOURCE MI-9-47A ICV/CCV SOURCE MI-9-44A
ICS AB SOURCE MI-9-41B ICS A SOURCE MI-9-41A POST SPK SOURCE DSS-31-67
Instrument ID: TJA IRIS: ✓ Data File: 20010521.3 Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.				
					28.				
					29.				
					30.				
					31.				
					32.				
					33.				
					34.				
1.	05-432-22		1.06/50	WG97839-02	35.				
2.	22DP		1.02/50	07	36.				
3.	21		1.00/50	01	37.				
4.	21S		1.06/50	05	38.				
5.	21SD		1.01/50	06	39.				
6.	23		1.04/50		40.				
7.	23SDL.2	0.2	1		41.				
8.	23PS.9	0.9	1	CCN/CCB	42.				
9.	24		1.04/50		43.				
10.	25		1.10/50		44.				
11.	26		1.01/50		45.				
12.	27		1.04/50		46.				
13.	28		1.00/50		47.				
14.	29		1.01/50	CCN/CCB	48.				
15.					49.				
16.					50.				
17.					51.				
18.					52.				
19.					53.				
20.					54.				
21.					55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.				

GLP 5/21/01

GLP 5/22/01

GLP 5/22/01

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank

FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/21/2001 Initial Calibration ID: _____

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Thallium	0.00	-0.112	0.250	0.8637	0.5	1.8132	1.000	3.6855			0.99996	

Comments:

AFCEE FORM I-3A

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#:

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 5/21/01 Initial Calibration ID:

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5			r	Q
Cadmium	0	0.401	0.001	0.4772	0.025	1.879	0.05	3.3507	0.1	6.1504			0.99991	
Cobalt	0	-0.157	0.004	0.209	0.1	8.6678	0.2	17.462	0.4	34.534			0.99997	
Copper	0	-0.046	0.01	0.037	0.25	2.9216	0.5	6.0149	1	11.98			0.99998	
Magnesium	0	0.0901	0.2	0.2011	5	1.6572	10	3.2349	20	6.3401			0.99997	
Nickel	0	-0.17	0.01	0.5463	0.25	17.139	0.5	34.294	1	67.928			0.99998	
Selenium	0	0.0083	0.008	0.0541	0.2	0.6363	0.4	1.3343	0.8	2.7343			0.99966	
Silver	0	-0.083	0.008	0.0416	0.2	3.259	0.4	6.6084	0.8	13.359			1.00000	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

1136

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#:

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 5/21/2001 Initial Calibration ID:

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Aluminum	0	0.0312	0.10	0.1698	0.20	0.2738	5.00	3.3318	10.00	6.9408	20.00	13.8930	0.99987	
Antimony	0	-0.0200	0.012	0.0650	0.02	0.1199	0.6	3.3132	1.2	6.6981	2.4	13.4430	1.00000	
Barium	0	0.6447	0.01	3.1263	0.02	5.8274	0.5	123.5400	1	256.5400	2	507.9400	0.99995	
Beryllium	0	0.0762	0.0005	0.4159	0.001	0.7349	0.025	18.8400	0.05	38.6390	0.1	76.5520	0.99998	
Calcium	0	0.3327	0.1	0.9774	0.2	1.5738	5	34.1500	10	69.6580	20	137.8300	0.99998	
Chromium	0	-0.6096	0.005	0.0433	0.01	0.6180	0.25	30.7300	0.5	61.9620	1	124.9600	1.00000	
Iron	0	0.2024	0.04	0.5597	0.08	0.9553	2	18.4140	4	36.7840	8	73.7220	1.00000	
Manganese	0	-0.2096	0.005	4.0797	0.01	8.4197	0.25	225.9300	0.5	451.4000	1	892.5800	0.99998	
Potassium	0	-1.5217	0.5	2.2999	1	6.0713	25	183.2500	50	367.5400	100	746.7400	0.99998	
Sodium	0	-2.4509	0.5	8.9429	1	20.3670	25	576.6800	50	1154.9000	100	2308.5000	1.00000	
Vanadium	0	0.8618	0.01	0.9243	0.02	1.1186	0.5	8.5913	1	17.0310	2	33.3260	0.99994	
Zinc	0	0.1682	0.01	1.5324	0.02	2.8216	0.5	68.1260	1	137.1500	2	274.8400	1.00000	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/07

AFCEE FORM I-3B

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICV Time: 6:25 PM
CCV1 Time: 6:44 PM
CCV2 Time: 7:48 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10100	101.0	10000	10200	102.0	10100	101.0	
Antimony	1200	1210	100.8	1200	1230	102.5	1200	100.0	
Arsenic	400	396	99.0	400	401	100.3	390	97.5	
Barium	1000	1020	102.0	1000	1050	105.0	1010	101.0	
Beryllium	50	50.7	101.4	50	50.9	101.8	50.9	101.8	
Cadmium	50	51.0	102.0	50	52.4	104.8	50.8	101.6	
Calcium	10000	10100	101.0	10000	10300	103.0	10200	102.0	
Chromium	500	502	100.4	500	505	101.0	505	101.0	
Cobalt	200	206	103.0	200	210	105.0	205	102.5	
Copper	500	502	100.4	500	509	101.8	500	100.0	
Iron	4000	4020	100.5	4000	4060	101.5	4030	100.8	
Lead	500	505	101.0	500	515	103.0	507	101.4	
Magnesium	10000	10100	101.0	10000	10300	103.0	10000	100.0	
Manganese	500	504	100.8	500	507	101.4	505	101.0	
Nickel	500	509	101.8	500	516	103.2	508	101.6	
Potassium	50000	50100	100.2	50000	51200	102.4	49900	99.8	
Selenium	400	406	101.5	400	416	104.0	398	99.5	
Silver	400	393	98.3	400	403	100.8	392	98.0	
Sodium	50000	50300	100.6	50000	52100	104.2	49800	99.6	
Thallium	500	518	103.6	500	532	106.4	521	104.2	
Vanadium	1000	1020	102.0	1000	1030	103.0	1010	101.0	
Zinc	1000	1010	101.0	1000	1020	102.0	1010	101.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICV Time: 6:25 PM
CCV1 Time: 8:15 PM
CCV2 Time: 9:21 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10100	101.0	10000	10100	101.0	10200	102.0	
Antimony	1200	1210	100.8	1200	1190	99.2	1230	102.5	
Arsenic	400	396	99.0	400	391	97.8	402	100.5	
Barium	1000	1020	102.0	1000	1010	101.0	1030	103.0	
Beryllium	50	50.7	101.4	50	51.3	102.6	51.1	102.2	
Cadmium	50	51.0	102.0	50	50.3	100.6	52.2	104.4	
Calcium	10000	10100	101.0	10000	10200	102.0	10300	103.0	
Chromium	500	502	100.4	500	502	100.4	505	101.0	
Cobalt	200	206	103.0	200	205	102.5	209	104.5	
Copper	500	502	100.4	500	500	100.0	504	100.8	
Iron	4000	4020	100.5	4000	4020	100.5	4050	101.3	
Lead	500	505	101.0	500	504	100.8	509	101.8	
Magnesium	10000	10100	101.0	10000	10100	101.0	10400	104.0	
Manganese	500	504	100.8	500	503	100.6	507	101.4	
Nickel	500	509	101.8	500	506	101.2	513	102.6	
Potassium	50000	50100	100.2	50000	50200	100.4	50500	101.0	
Selenium	400	406	101.5	400	393	98.3	409	102.3	
Silver	400	393	98.3	400	390	97.5	398	99.5	
Sodium	50000	50300	100.6	50000	50100	100.2	50800	101.6	
Thallium	500	518	103.6	500	522	104.4	530	106.0	
Vanadium	1000	1020	102.0	1000	1020	102.0	1020	102.0	
Zinc	1000	1010	101.0	1000	1000	100.0	1020	102.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICV Time: 6:25 PM
CCV1 Time: 10:15 PM
CCV2 Time: 11:21 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10100	101.0	10000	10300	103.0	10200	102.0	
Antimony	1200	1210	100.8	1200	1260	105.0	1260	105.0	
Arsenic	400	396	99.0	400	419	104.8	419	104.8	
Barium	1000	1070	102.0	1000	1060	106.0	1050	105.0	
Beryllium	50	50.7	101.4	50	50.2	100.4	49.9	99.8	
Cadmium	50	51.0	102.0	50	54.0	108.0	53.8	107.6	
Calcium	10000	10100	101.0	10000	10300	103.0	10300	103.0	
Chromium	500	502	100.4	500	504	100.8	502	100.4	
Cobalt	200	206	103.0	200	213	106.5	212	106.0	
Copper	500	502	100.4	500	515	103.0	515	103.0	
Iron	4000	4020	100.5	4000	4070	101.8	4050	101.3	
Lead	500	505	101.0	500	526	105.2	528	105.6	
Magnesium	10000	10100	101.0	10000	10400	104.0	10300	103.0	
Manganese	500	504	100.8	500	506	101.2	501	100.2	
Nickel	500	509	101.8	500	520	104.0	515	103.0	
Potassium	50000	50100	100.2	50000	51100	102.2	51100	102.2	
Selenium	400	406	101.5	400	408	102.0	422	105.5	
Silver	400	393	98.3	400	407	101.8	411	102.8	
Sodium	50000	50300	100.6	50000	52800	105.6	52900	105.8	
Thallium	500	518	103.6	500	540	108.0	537	107.4	
Vanadium	1000	1020	102.0	1000	1030	103.0	1030	103.0	
Zinc	1000	1010	101.0	1000	1040	104.0	1040	104.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICV Time: 6:25 PM
CCV1 Time: 12:20 AM
CCV2 Time: 1:05 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10100	101.0	10000	10200	102.0	10300	103.0	
Antimony	1200	1210	100.8	1200	1230	102.5	1260	105.0	
Arsenic	400	396	99.0	400	403	100.8	409	102.3	
Barium	1000	1020	102.0	1000	1030	103.0	1050	105.0	
Beryllium	50	50.7	101.4	50	50.4	100.8	49.6	99.2	
Cadmium	50	51.0	102.0	50	51.3	102.6	52.9	105.8	
Calcium	10000	10100	101.0	10000	10300	103.0	10200	102.0	
Chromium	500	502	100.4	500	501	100.2	499	99.8	
Cobalt	200	206	103.0	200	209	104.5	211	105.5	
Copper	500	502	100.4	500	502	100.4	507	101.4	
Iron	4000	4020	100.5	4000	4030	100.8	4030	100.8	
Lead	500	505	101.0	500	513	102.6	518	103.6	
Magnesium	10000	10100	101.0	10000	10200	102.0	10300	103.0	
Manganese	500	504	100.8	500	504	100.8	500	100.0	
Nickel	500	509	101.8	500	513	102.6	513	102.6	
Potassium	50000	50100	100.2	50000	50600	101.2	51100	102.2	
Selenium	400	406	101.5	400	407	101.8	405	101.3	
Silver	400	393	98.3	400	403	100.8	406	101.5	
Sodium	50000	50300	100.6	50000	51300	102.6	52900	105.8	
Thallium	500	518	103.6	500	530	106.0	534	106.8	
Vanadium	1000	1020	102.0	1000	1020	102.0	1020	102.0	
Zinc	1000	1010	101.0	1000	1020	102.0	1030	103.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICV Time: 6:25 PM
CCV1 Time: 2:08 AM
CCV2 Time: 2:47 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10100	101.0	10000	10200	102.0	10100	101.0	
Antimony	1200	1210	100.8	1200	1240	103.3	1230	102.5	
Arsenic	400	396	99.0	400	403	100.8	399	99.8	
Barium	1000	1020	102.0	1000	1040	104.0	1040	104.0	
Beryllium	50	50.7	101.4	50	49.5	99.0	50.0	100.0	
Cadmium	50	51.0	102.0	50	52.2	104.4	51.0	102.0	
Calcium	10000	10100	101.0	10000	10200	102.0	10200	102.0	
Chromium	500	502	100.4	500	496	99.2	495	99.0	
Cobalt	200	206	103.0	200	209	104.5	206	103.0	
Copper	500	502	100.4	500	516	103.2	518	103.6	
Iron	4000	4020	100.5	4000	4010	100.3	3990	99.8	
Lead	500	505	101.0	500	512	102.4	504	100.8	
Magnesium	10000	10100	101.0	10000	10200	102.0	10200	102.0	
Manganese	500	504	100.8	500	498	99.6	498	99.6	
Nickel	500	509	101.8	500	509	101.8	506	101.2	
Potassium	50000	50100	100.2	50000	50600	101.2	50500	101.0	
Selenium	400	406	101.5	400	404	101.0	402	100.5	
Silver	400	393	98.3	400	401	100.3	404	101.0	
Sodium	50000	50300	100.6	50000	52000	104.0	51400	102.8	
Thallium	500	518	103.6	500	528	105.6	527	105.4	
Vanadium	1000	1020	102.0	1000	1020	102.0	1010	101.0	
Zinc	1000	1010	101.0	1000	1020	102.0	1010	101.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	IRIS - Jarrell Ash
METHOD:	6010B
ANALYST:	slp
DATE:	5/21/2001
UNITS:	ug/L
ICB Time:	18:30
CCB1 Time:	18:49
CCB2 Time:	19:53
CCB3 Time:	20:20

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	58.8	88.9	175	149
Antimony	-0.63	1.45	1.16	-0.92
Arsenic	4.03	5.39	3.70	4.71
Barium	-0.22	0.44	0.32	0.26
Beryllium	0.03	-0.01	-0.05	0
Cadmium	0.33	0.40	0.80	0.33
Calcium	-15.5	-9.94	-19.5	-25.1
Chromium	0.05	0.52	0	-0.11
Cobalt	0.34	0.20	0.33	0.45
Copper	-7.19	2.47	-4.72	-2.63
Iron	-5.26	3.65	2.27	1.03
Lead	0.71	3.15	0.66	4.25
Magnesium	-23.2	108	42.8	-1.06
Manganese	-0.02	-0.01	0.02	-0.03
Nickel	-0.18	0.60	0.51	0.43
Potassium	-5.13	26.7	37.3	46.5
Selenium	-1.55	0.20	3.19	0.2
Silver	2.39	-3.24	0.80	1.21
Sodium	6.74	6.64	-5.10	10.2
Thallium	4.83	8.15	6.10	7.36
Vanadium	-3.94	-2.50	-1.61	-0.47
Zinc	0.30	0.35	0.44	-0.42

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICB Time: 18:30
CCB1 Time: 21:26
CCB2 Time: 22:20
CCB3 Time: 23:26

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	58.8	98.9	99.0	83.8
Antimony	-0.63	-0.33	4.42	3.54
Arsenic	4.03	6.74	10.1	8.1
Barium	-0.22	0.29	-0.03	0.7
Beryllium	0.03	-0.01	-0.05	0
Cadmium	0.33	0.39	0.52	-0.14
Calcium	-16.5	-14.5	-19.0	8.75
Chromium	0.05	0.53	0.62	0.11
Cobalt	0.34	0.11	0.04	0.55
Copper	-7.19	-3.76	-3.01	-3.95
Iron	-5.26	5.51	7.19	7.49
Lead	0.71	1.81	1.69	3.88
Magnesium	-23.2	-111	87.0	109
Manganese	-0.02	0	0.10	-0.05
Nickel	-0.18	0.46	0.60	0.29
Potassium	-5.13	29.8	7.16	42.2
Selenium	-1.55	-4.02	1.69	0.45
Silver	2.39	0.82	0.80	2.02
Sodium	6.74	44.7	41.8	24.3
Thallium	4.83	3.25	5.70	8.6
Vanadium	-3.94	0.08	-1.48	-0.48
Zinc	0.30	-0.37	-0.38	-0.38

U = Result is less than MDL
B = Result is between MDL and RL

1144

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	IRIS - Jarrell Ash
METHOD:	6010B
ANALYST:	slp
DATE:	5/21/2001
UNITS:	ug/L
ICB Time:	18:30
CCB1 Time:	0:25
CCB2 Time:	1:10
CCB3 Time:	2:13

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	58.8	94.0	58.8	190
Antimony	-0.63	3.83	3.82	2.04
Arsenic	4.03	6.07	7.08	4.37
Barium	-0.22	-0.44	-0.05	-0.35
Beryllium	0.03	0	0.06	-0.09
Cadmium	0.33	0.71	0.78	0.76
Calcium	-15.5	1.67	-8.43	-15.5
Chromium	0.05	0.37	0.43	0.91
Cobalt	0.34	0.21	-0.12	0.23
Copper	-7.19	-5.48	-6.64	-6.82
Iron	-5.26	4.63	3.83	5.85
Lead	0.71	4.36	1.86	-0.8
Magnesium	-23.2	20.8	-66.9	42.7
Manganese	-0.02	-0.02	0.01	0.09
Nickel	-0.18	1.14	0.33	0.77
Potassium	-5.13	91.6	51.3	-11.5
Selenium	-1.55	-4.02	4.93	-0.04
Silver	2.39	2.80	-0.05	-2.06
Sodium	6.74	10.5	25.3	5.05
Thallium	4.83	4.42	7.26	6.45
Vanadium	-3.94	-3.22	-5.81	-4.94
Zinc	0.30	-0.51	-0.60	-0.14

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

ICB Time: 18:30
CCB1 Time: 2:52
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	58.8		154					
Antimony	-0.63		-1.53					
Arsenic	4.03		5.39					
Barium	-0.22		0.33					
Beryllium	0.03		0					
Cadmium	0.33		0.69					
Calcium	15.5		-22.0					
Chromium	0.05		1.19					
Cobalt	0.34		0.20					
Copper	-7.19		-0.76					
Iron	-5.26		2.54					
Lead	0.71		-2.94					
Magnesium	-23.2		64.8					
Manganese	-0.02		0.09					
Nickel	-0.18		0.82					
Potassium	-5.13		30.5					
Selenium	-1.55		-0.54					
Silver	2.39		0.37					
Sodium	6.74		1.36					
Thallium	4.83		6.89					
Vanadium	-3.94		-3.77					
Zinc	0.30		-0.06					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

Initial ICSA Time: 6:35 PM
Initial ICSAB Time: 6:40 PM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	250000	250000	243000	244000	97.6				
Antimony	0	500	15.5	525	105.0				
Arsenic	0	250	14.2	261	104.4				
Barium	0	250	1.11	240	96.0				
Beryllium	0	250	-0.14	244	97.6				
Cadmium	0	500	2.21	493	98.6				
Calcium	250000	250000	235000	236000	94.4				
Chromium	0	250	1.73	238	95.2				
Cobalt	0	250	2.98	238	95.2				
Copper	0	250	0.90	234	93.6				
Iron	100000	100000	85100	90100	90.1				
Lead	0	500	-28.2	442	88.4				
Magnesium	250000	250000	231000	233000	93.2				
Manganese	0	250	-1.99	226	90.4				
Nickel	0	500	1.79	463	92.6				
Potassium	0	2500	65.8	2640	105.6				
Selenium	0	250	21.5	255	102.0				
Silver	0	500	2.73	479	95.8				
Sodium	0	1250	60.9	1250	100.0				
Thallium	0	500	0.31	470	94.0				
Vanadium	0	250	-10.6	233	93.2				
Zinc	0	500	-0.77	488	97.6				

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: ug/L

Spiked Sample Time: 7:34 PM
Sample Time: 7:19 PM

Sample ID: 0540402PS.9

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	322000		302400		10000	196.0	N
Antimony	75-125	973		6.4	U	1000	97.3	
Arsenic	75-125	938		11.07	B	1000	92.7	
Barium	75-125	9530		151.2		10000	93.8	
Beryllium	75-125	980		0.6471	B	1000	97.9	
Cadmium	75-125	929		0.71	U	1000	92.9	
Calcium	75-125	24800		14670		10000	101.3	
Chromium	75-125	1280		303.3		1000	97.7	
Cobalt	75-125	945		7.596	B	1000	93.7	
Copper	75-125	930		1.9	U	1000	93.0	
Iron	75-125	24300		22230		1000	207.0	N
Lead	75-125	1020		79.02	B	1000	94.1	
Magnesium	75-125	13300		3852		10000	94.5	
Manganese	75-125	957		16.92		1000	94.0	
Nickel	75-125	986		54		1000	93.2	
Potassium	75-125	47600		1251		50000	92.7	
Selenium	75-125	937		28.62	B	1000	90.8	
Silver	75-125	190		0.45	U	200	95.0	
Sodium	75-125	47500		207.9	B	50000	94.6	
Thallium	75-125	952	B	11	U	1000	95.2	
Vanadium	75-125	1170		192.6		1000	97.7	
Zinc	75-125	969		15.57	B	1000	95.3	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 8 - ICP-AES AND ICP-MS SERIAL DILUTIONS

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/21/2001

UNITS: mg/kg

Initial Sample Time: 7:19 PM
Serial Dilution Time: 7:24 PM

Sample ID: 0540402 WG97743-01

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q
Aluminum	15400		16100		4.5	
Antimony	0.45	U	1.85	B	311.1	
Arsenic	0.563	B	0.919	B	63.2	
Barium	7.69		8.35		8.6	
Beryllium	0.033	B	0.0482	B	46.1	
Cadmium	0.032	U	0.109	B	240.6	
Calcium	750		796		6.1	
Chromium	15.5		16.7		7.7	
Cobalt	0.387	B	0.355	B	8.3	
Copper	0.145	U	0.145	U	0.0	
Iron	1130		1200		6.2	
Lead	4.03	B	4.91	B	21.8	
Magnesium	196		241		23.0	E
Manganese	0.863		0.961		11.4	E
Nickel	2.75		3.19		16.0	
Potassium	63.8		76.8		20.4	
Selenium	1.46	B	0.738	B	49.5	
Silver	0.103	U	0.103	U	0.0	
Sodium	10.6	B	6.60	B	37.7	
Thallium	0.348	U	0.348	U	0.0	
Vanadium	9.80		10.3		5.1	
Zinc	0.796	B	0.875	B	9.9	

U = Result is below MDL
B = Result is between MDL and RL
E = %RPD exceeds control limit of 10% when initial sample result is greater than or equal to 50 times the MDL

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KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: IRIS-Jarrel Ash

Units: mg/kg

Analyte	Wave-length /Mass	Analysis Date	CRQL	MDL
Aluminum	308.20	11/20/00	5	3.16
Antimony	206.80	9/28/00	10	0.45
Arsenic	189.00	10/15/00	5	0.35
Barium	455.40	11/16/00	0.5	0.014
Beryllium	313.00	9/28/00	0.5	0.008
Cadmium	228.80	9/28/00	0.5	0.032
Calcium	373.60	9/28/00	10	2.822
Chromium	267.70	9/28/00	1	0.060
Cobalt	228.60	9/28/00	1	0.043
Copper	324.70	9/28/00	1	0.145
Iron	271.40	9/28/00	2	1.12
Lead	220.30	9/28/00	5	0.331
Magnesium	277.90	10/15/00	25	4.57
Manganese	257.60	11/16/00	0.5	0.007
Nickel	231.60	9/28/00	2	0.104
Potassium	766.40	9/28/00	50	5.9
Selenium	196.00	11/16/00	1	0.256
Silver	328.00	9/28/00	2	0.103
Sodium	589.50	11/16/00	25	0.859
Thallium	190.80	9/28/00	2	0.348
Vanadium	292.40	9/28/00	0.5	0.228
Zinc	213.80	10/15/00	1	0.465

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Ba
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000550	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0015000	-0.0003500
Calcium	373.70	0.0000000	0.0000000	0.0014000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000250	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	-0.0000250	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0002070	-0.0035600	0.0000000
Lead	220.30	-0.0002000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	-0.0597000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	-0.0000520	0.0000000	-0.0003530	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000760	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/00

Analyte	Wave-length (nm)	Interelement Correction Factors for: Be	Co	Cr	Cu	Mn	Mo
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0018000	0.0202000
Antimony	206.80	0.0000000	0.0000000	0.0086800	0.0000000	0.0000000	-0.0014800
Arsenic	189.00	0.0000000	0.0000000	-0.0087000	0.0000000	0.0000000	-0.0006880
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	-0.0030000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0016000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0003400	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0001260	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	-0.0000890	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0760000	0.0000000	0.0000000	0.0000800	-0.0137000
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017000
Magnesium	277.90	0.0000000	0.0000000	-0.0008000	0.0000000	0.0013200	-0.0236000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0128000	0.0004420	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0004300	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000540	0.0000000	0.0000900	-0.0004900
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0060000	0.0004000	0.0000000	0.0000000	-0.0069800
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0009000	0.0002790	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Ti	V	Zn	
Aluminum	308.20	0.0000000	0.0013000	0.0600000	0.0000000	
Antimony	206.80	-0.0023400	0.0000000	-0.0010740	0.0000000	
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	228.80	0.0000000	0.0000000	0.0000720	0.0000000	
Calcium	373.70	0.0041400	0.0000000	0.0000000	0.0000000	
Chromium	267.70	0.0000000	0.0000000	-0.0005000	0.0000000	
Cobalt	228.60	0.0000000	0.0014800	0.0000000	-0.0010000	
Copper	324.70	0.0000000	-0.0007090	-0.0070000	0.0000000	
Iron	271.40	0.0000000	0.0000000	-0.1980000	0.0000000	
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.60	0.0000000	0.0000000	-0.0000750	0.0000000	
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	
Silver	328.00	0.0000000	0.0060000	0.0000000	0.0000000	
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.80	0.0000000	-0.0024000	-0.0220000	0.0000000	
Vanadium	292.40	-0.0034600	0.0000000	0.0000000	0.0000000	
Zinc	213.80	0.0030000	0.0000000	0.0000000	0.0000000	

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: IRIS-Jarrel Ash

Date: 11/22/2000

Analyte	Integ. Time (Sec.)	Concentration (mg/kg)
Aluminum	15.00	50000.0
Antimony	55.00	2500.0
Arsenic	55.00	5000.0
Barium	15.00	1000.0
Beryllium	15.00	250.0
Boron	15.00	5000.0
Cadmium	55.00	1500.0
Calcium	15.00	50000.0
Chromium	55.00	5000.0
Cobalt	55.00	5000.0
Copper	15.00	2500.0
Iron	55.00	50000.0
Lead	55.00	10000.0
Magnesium	55.00	50000.0
Manganese	55.00	2500.0
Nickel	55.00	5000.0
Potassium	15.00	20000.0
Selenium	55.00	1000.0
Silver	15.00	500.0
Sodium	15.00	20000.0
Thallium	55.00	1000.0
Vanadium	15.00	5000.0
Zinc	55.00	2000.0

Comments:

Rack	Pos	Set	Name & comment
L	1		S0
L	2		S1
L	3		S2
L	4		S3
L	5		S4
L	6		S5
L	7		ICV
L	8		ICSA
L	9		ICSAB
L	10		CCV
L	11		CCB
L	12		CCB
L	13-19		-- not used
1	1	2	PBS BU WG97743-03
1	2	2	LCSS BU WG97743-04
1	3	2	0540401 WG97743-02
1	4	2	0540401DP WG97743-07
1	5	2	0540402 WG97743-01
1	6	2	0540402SDL.2
1	7	2	0540402SDL.04
1	8	2	0540402PS.9
1	9	2	0540403S WG97743-05
1	10	2	0540404SD WG97743-06
1	11	2	0529801 054101
1	12-48		-- not used
2	1-48		-- not used
3	1-48		-- not used
4	1-48		-- not used

Sheri L. Pollard
5/21/01

Method: CLP5 Sample Name: S0 Operator:
Comment:
Run Time: 05/21/01 17:54 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03119	-.08320	.01166	.13159	.64471
Stddev	.00492	.05886	.01178	.02591	.17680
%RSD	15.767	70.750	101.02	19.691	27.422
#1	.03467	-.12482	.00333	.14991	.76973
#2	.02772	-.04158	.01999	.11327	.51970

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.07624	.33272	.40101	-.15741	-.60964
Stddev	.02937	.01943	.00530	.01531	.02827
%RSD	38.521	5.8395	1.3214	9.7267	4.6370
#1	.05548	.31898	.40476	-.16823	-.58965
#2	.09701	.34646	.39726	-.14658	-.62963

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.04621	.20239	-1.5217	3.2723	.09011
Stddev	.02612	.04594	.1837	.4689	.00976
%RSD	56.525	22.697	12.070	14.330	10.826
#1	-.02774	.23487	-1.3918	2.9407	.08321
#2	-.06467	.16990	-1.6516	3.6039	.09701

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.20960	-.00833	-2.4509	-.16990	.01166
Stddev	.00432	.00942	.2353	.03298	.00707
%RSD	2.0597	113.14	9.5989	19.410	60.593
#1	-.20654	-.01499	-2.6172	-.19322	.01666
#2	-.21265	-.00167	-2.2845	-.14658	.00666

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.01999	.00833	.03248	.12159	-.00083
Stddev	.02827	.01178	.01531	.01649	.02709
%RSD	141.42	141.42	47.139	13.561	3251.0
#1	.00000	.01666	.04331	.13325	-.01999
#2	-.03998	.00000	.02165	.10993	.01832

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.18369	-.08550	-.11243	.86184	.16823
Stddev	.01461	.01638	.00118	.06163	.01178
%RSD	7.9520	19.164	1.0475	7.1508	7.0011
#1	-.17336	-.09708	-.11160	.81827	.15990
#2	-.19402	-.07391	-.11327	.90542	.17656

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Method: CLP5 Sample Name: S1 Operator:
Comment:
Run Time: 05/21/01 17:59 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	B_2496	Ba4554	Be3130	Ca3736
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16983	1.6515	3.1263	.41592	.97742
Stddev	.03423	.0391	.0966	.00019	.00045
%RSD	20.158	2.3660	3.0892	.04653	.04643
#1	.19403	1.6238	3.1946	.41579	.97710
#2	.14562	1.6791	3.0580	.41606	.97774

Elem	Cr2677	Fe2714	K_7664	Li6707	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04331	.55967	2.2999	7.1412	4.0797
Stddev	.00471	.04247	.1093	.1928	.0034
%RSD	10.866	7.5892	4.7508	2.7003	.08361
#1	.04663	.52964	2.2227	7.2776	4.0821
#2	.03998	.58971	2.3772	7.0049	4.0772

Elem	Mo2020	Na5895	Sb2068	Si2516	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.26483	8.9429	.06496	.70872	.19821
Stddev	.02352	.1771	.01179	.01287	.00238
%RSD	8.8819	1.9803	18.143	1.8156	1.2010
#1	.28146	8.8177	.05663	.71782	.19653
#2	.24820	9.0681	.07329	.69962	.19989

Elem	Sr2152	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11826	-.03812	.38357	.92427	1.5324
Stddev	.01647	.03429	.03250	.02571	.0163
%RSD	13.931	89.969	8.4733	2.7820	1.0635
#1	.12991	-.06237	.40655	.94245	1.5439
#2	.10661	-.01387	.36059	.90609	1.5208

Method: CLP5 Sample Name: S2 Operator:
Comment:
Run Time: 05/21/01 18:04 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.27384	.04161	.06496	3.2605	5.8274
Stddev	.07341	.05885	.00707	.0389	.2037
%RSD	26.808	141.42	10.877	1.1934	3.4948
#1	.32575	.00000	.05996	3.2880	5.6834
#2	.22193	.08323	.06996	3.2329	5.9714

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.73492	1.5738	.47720	.20903	.61795
Stddev	.01995	.0007	.00707	.04829	.00706
%RSD	2.7139	.04559	1.4821	23.102	1.1423
#1	.72082	1.5733	.48220	.24318	.61296
#2	.74903	1.5743	.47220	.17489	.62294

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03697	.95527	6.0713	11.109	.20106
Stddev	.02613	.03652	.2271	.495	.02932
%RSD	70.676	3.8234	3.7397	4.4602	14.585
#1	.05545	.98110	6.2318	10.759	.22179
#2	.01849	.92945	5.9107	11.459	.18032

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.4197	.54799	20.367	.54632	.18655
Stddev	.0022	.01648	.297	.05652	.00706
%RSD	.02667	3.0077	1.4587	10.346	3.7869
#1	8.4181	.53633	20.157	.50635	.18155
#2	8.4213	.55964	20.578	.58629	.19154

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11992	.05413	1.4682	.29315	.24901
Stddev	.02826	.00589	.0035	.00000	.03415
%RSD	23.569	10.877	.23929	.00127	13.715
#1	.09994	.04997	1.4658	.29315	.22486
#2	.13991	.05830	1.4707	.29315	.27316

Elem	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02427	.98913	1.1186	2.8216
Stddev	.00491	.01262	.0191	.0424
%RSD	20.252	1.2762	1.7075	1.5014
#1	.02079	.99806	1.1321	2.7916
#2	.02774	.98021	1.1050	2.8515

Method: CLP5 Sample Name: S3 Operator:
Comment:
Run Time: 05/21/01 18:09 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3318	3.2590	.98946	79.981	123.54
Stddev	.0138	.1953	.00472	.172	.57
%RSD	.41554	5.9921	.47653	.21533	.45826
#1	3.3416	3.3971	.99279	80.103	123.94
#2	3.3220	3.1209	.98613	79.860	123.14

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	18.840	34.150	1.8790	8.6678	30.730
Stddev	.044	.246	.0353	.0483	.038
%RSD	.23433	.72066	1.8809	.55747	.12297
#1	18.871	34.324	1.9040	8.7019	30.757
#2	18.809	33.976	1.8540	8.6336	30.703

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9216	18.414	183.25	202.20	1.6572
Stddev	.0058	.006	1.39	.77	.0299
%RSD	.19786	.03169	.75911	.38103	1.8011
#1	2.9256	18.410	184.23	202.75	1.6361
#2	2.9175	18.418	182.26	201.66	1.6784

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	225.93	14.204	576.68	17.139	3.5164
Stddev	.49	.009	3.54	.078	.0424
%RSD	.21824	.06666	.61312	.45389	1.2056
#1	226.28	14.211	579.18	17.194	3.4864
#2	225.58	14.197	574.18	17.084	3.5464

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.3132	.63632	36.499	4.5159	5.6827
Stddev	.0448	.00707	.065	.0023	.0460
%RSD	1.3512	1.1110	.17781	.05183	.80868
#1	3.3448	.64132	36.545	4.5142	5.7152
#2	3.2815	.63132	36.453	4.5175	5.6502

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.5730	25.802	.86370	8.5913	68.126
Stddev	.0724	.134	.02002	.0599	.262
%RSD	1.5824	.51884	2.3180	.69698	.38414
#1	4.6242	25.896	.84954	8.6337	68.311
#2	4.5218	25.707	.87785	8.5490	67.941

Method: CLP5 Sample Name: S4 Operator:
Comment:
Run Time: 05/21/01 18:14 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.9408	6.6084	1.9706	160.33	256.54
Stddev	.0856	.0171	.0165	.03	2.65
%RSD	1.2325	.25877	.83668	.02050	1.0327
#1	6.8803	6.5963	1.9590	160.30	254.66
#2	7.0013	6.6204	1.9823	160.35	258.41

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	38.639	69.658	3.3507	17.462	61.962
Stddev	.495	.561	.0212	.001	.068
%RSD	1.2807	.80609	.63288	.00690	.11011
#1	38.289	69.261	3.3657	17.462	61.914
#2	38.989	70.055	3.3357	17.461	62.011

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.0149	36.784	367.54	411.77	3.2349
Stddev	.0075	.012	2.25	6.88	.0478
%RSD	.12515	.03189	.61325	1.6705	1.4764
#1	6.0096	36.776	365.95	406.90	3.2011
#2	6.0203	36.792	369.14	416.63	3.2687

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	451.40	28.497	1154.9	34.294	6.7906
Stddev	.36	.028	8.1	.064	.0012
%RSD	.08023	.09905	.69957	.18533	.01747
#1	451.15	28.477	1149.1	34.249	6.7914
#2	451.66	28.517	1160.6	34.339	6.7897

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.6981	1.3343	73.683	8.9353	11.382
Stddev	.0542	.0094	.059	.0566	.053
%RSD	.80878	.70606	.08008	.63289	.46586
#1	6.6598	1.3276	73.725	8.9753	11.419
#2	6.7364	1.3410	73.641	8.8953	11.344

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.7255	53.183	1.8132	17.031	137.15
Stddev	.0943	.506	.0083	.150	.14
%RSD	.96955	.95081	.45488	.88259	.09991
#1	9.6588	52.826	1.8190	16.925	137.05
#2	9.7922	53.541	1.8074	17.137	137.24

Method: CLP5 Sample Name: S5 Operator:
Comment:
Run Time: 05/21/01 18:19 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.893	13.359	3.9245	320.67	507.94
Stddev	.019	.059	.0188	1.23	1.17
%RSD	.13885	.44231	.48010	.38211	.23025
#1	13.906	13.317	3.9112	321.53	508.77
#2	13.879	13.401	3.9379	319.80	507.11

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	76.552	137.83	6.1504	34.534	124.96
Stddev	.119	.00	.0159	.032	.23
%RSD	.15583	.00134	.25845	.09200	.18178
#1	76.468	137.83	6.1392	34.511	124.80
#2	76.637	137.83	6.1617	34.556	125.12

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.980	73.722	746.74	831.06	6.3401
Stddev	.049	.092	5.62	.74	.0687
%RSD	.40675	.12472	.75318	.08906	1.0841
#1	12.015	73.787	742.76	831.59	6.2915
#2	11.946	73.657	750.71	830.54	6.3887

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	892.58	56.702	2308.5	67.928	13.528
Stddev	.06	.084	19.8	.092	.024
%RSD	.00619	.14759	.85633	.13536	.17423
#1	892.55	56.761	2294.5	67.993	13.544
#2	892.62	56.643	2322.4	67.863	13.511

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.443	2.7343	147.35	17.615	22.644
Stddev	.047	.0129	.34	.054	.199
%RSD	.35060	.47375	.22792	.30768	.87920
#1	13.476	2.7252	147.59	17.654	22.784
#2	13.409	2.7435	147.11	17.577	22.503

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	19.294	106.06	3.6855	33.326	274.84
Stddev	.064	.02	.0318	.068	.45
%RSD	.33235	.01934	.86281	.20361	.16509
#1	19.249	106.07	3.6630	33.374	275.16
#2	19.339	106.04	3.7080	33.278	274.52

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El Name	Slope	Y-int	Correlation	Date Stdized
Al3082	0.6889	0.0324	0.9968742	05/21/01 18:22:38

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	-0.0016882	0	0	0.031195
S1	0.1	0.19954	0.0995	99.5	0.16983
S2	0.2	0.35051	0.151	75.3	0.27384
S3	5	4.7891	-0.211	-4.22	3.3318
S4	10	10.028	0.0276	0.276	6.9408
S5	20	20.118	0.118	0.591	13.893

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	17.1841	-0.0833	0.9999836	05/21/01 18:22:38

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	5.5515e-06	0	0	-0.083198
S2	0.008	0.0072687	-0.000731	-9.14	0.041613
S3	0.2	0.1945	-0.0055	-2.75	3.259
S4	0.4	0.38941	-0.0106	-2.65	6.6084
S5	0.8	0.78227	-0.0177	-2.22	13.359

El Name	Slope	Y-int	Correlation	Date Stdized
As1890	4.9213	0.0118	0.9996350	05/21/01 18:22:38

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	-2.7839e-05	0	0	0.01166
S2	0.008	0.010803	0.0028	35	0.064959
S3	0.2	0.19866	-0.00134	-0.671	0.98946
S4	0.4	0.39803	-0.00197	-0.493	1.9706
S5	0.8	0.79506	-0.00494	-0.618	3.9245

El Name	Slope	Y-int	Correlation	Date Stdized
B_2496	16.0169	0.1304	0.9999942	05/21/01 18:22:38

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	7.3891e-05	0	0	0.13159
S1	0.1	0.094966	-0.00503	-5.03	1.6515
S2	0.2	0.19542	-0.00458	-2.29	3.2605
S3	5	4.9854	-0.0146	-0.292	79.981
S4	10	10.002	0.00161	0.0161	160.33
S5	20	20.012	0.0123	0.0614	320.67

El Name	Slope	Y-int	Correlation	Date Stdized
Ba4554	253.1872	0.6444	0.9999204	05/21/01 18:22:38

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	1.2842e-06	0	0	0.64471
S1	0.01	0.0098028	-0.000197	-1.97	3.1263
S2	0.02	0.020471	0.000471	2.36	5.8274
S3	0.5	0.48541	-0.0146	-2.92	123.54
S4	1	1.0107	0.0107	1.07	256.54
S5	2	2.0036	0.00363	0.182	507.94

El Name	Slope	Y-int	Correlation	Date Stdized
Be3130	763.7692	0.0753	0.9998946	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.2524e-060		0	0.076242
S1	0.0005	0.000446	-5.4e-05	-10.8	0.41592
S2	0.001	0.00086366	-0.000136	-13.6	0.73492
S3	0.025	0.024568	-0.000432	-1.73	18.84
S4	0.05	0.050491	0.000491	0.982	38.639
S5	0.1	0.10013	0.000131	0.131	76.552

El Name	Slope	Y-int	Correlation	Date Stdized
Ca3736	6.8647	0.3316	0.9999396	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.00016181	0		0.33272
S1	0.1	0.094076	-0.00592	-5.92	0.97742
S2	0.2	0.18096	-0.019	-9.52	1.5738
S3	5	4.9264	-0.0736	-1.47	34.15
S4	10	10.099	0.0989	0.989	69.658
S5	20	20.03	0.0296	0.148	137.83

El Name	Slope	Y-int	Correlation	Date Stdized
Cd2288	58.5787	0.4012	0.9996465	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-3.1726e-060		0	0.40101
S2	0.001	0.0012975	0.000297	29.7	0.4772
S3	0.025	0.025227	0.000227	0.909	1.879
S4	0.05	0.050352	0.000352	0.703	3.3507
S5	0.1	0.098145	-0.00185	-1.85	6.1504

El Name	Slope	Y-int	Correlation	Date Stdized
Co2286	87.1664	-0.1572	0.9999610	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-2.3827e-060		0	-0.15741
S2	0.004	0.0042016	0.000202	5.04	0.20903
S3	0.1	0.10124	0.00124	1.24	8.6678
S4	0.2	0.20213	0.00213	1.06	17.462
S5	0.4	0.39799	-0.00201	-0.504	34.534

El Name	Slope	Y-int	Correlation	Date Stdized
Cr2677	125.4737	-0.6095	0.9999952	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-9.173e-070		0	-0.60964
S1	0.005	0.0052029	0.000203	4.06	0.043305
S2	0.01	0.0097827	-0.000217	-2.17	0.61795
S3	0.25	0.24977	-0.000231	-0.0924	30.73
S4	0.5	0.49869	-0.00131	-0.263	61.962
S5	1	1.0007	0.000748	0.0748	124.96

El Name	Slope	Y-int	Correlation	Date Stdized
Cu3247	12.2006	-0.0466	0.9997116	05/21/01 18:22:38

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	3.0071e-050		0	-0.046206
S2	0.01	0.0068475	-0.00315	-31.5	0.036971
S3	0.25	0.24328	-0.00672	-2.69	2.9216
S4	0.5	0.49682	-0.00318	-0.636	6.0149
S5	1	0.98576	-0.0142	-1.42	11.98

El Name	Slope	Y-int	Correlation	Date Stdized
Fe2714	9.6378	0.2024	0.9999917	05/21/01 18:22:38

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	3.386e-07	0	0	0.20239
S1	0.04	0.037072	-0.00293	-7.32	0.55967
S2	0.08	0.078118	-0.00188	-2.35	0.95527
S3	2	1.8896	-0.11	-5.52	18.414
S4	4	3.7956	-0.204	-5.11	36.784
S5	8	7.6282	-0.372	-4.65	73.722

El Name	Slope	Y-int	Correlation	Date Stdized
K_7664	7.4419	-1.5203	0.9999766	05/21/01 18:22:38

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-0.00018609	0		-1.5217
S1	0.5	0.51334	0.0133	2.67	2.2999
S2	1	1.0201	0.0201	2.01	6.0713
S3	25	24.828	-0.172	-0.688	183.25
S4	50	49.593	-0.407	-0.815	367.54
S5	100	100.55	0.546	0.546	746.74

El Name	Slope	Y-int	Correlation	Date Stdized
Li6707	410.1052	3.2673	0.9999006	05/21/01 18:22:38

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	1.2131e-050		0	3.2723
S1	0.01	0.0094462	-0.000554	-5.54	7.1412
S2	0.02	0.019121	-0.000879	-4.39	11.109
S3	0.5	0.48509	-0.0149	-2.98	202.2
S4	1	0.99608	-0.00392	-0.392	411.77
S5	2	2.0185	0.0185	0.925	831.06

El Name	Slope	Y-int	Correlation	Date Stdized
Mg2779	0.3160	0.0906	0.9983490	05/21/01 18:22:38

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-0.0014845	0		0.090112
S2	0.2	0.3496	0.15	74.8	0.20106
S3	5	4.9577	-0.0423	-0.846	1.6572
S4	10	9.9501	-0.0499	-0.499	3.2349
S5	20	19.776	-0.224	-1.12	6.3401

El Name	Slope	Y-int	Correlation	Date Stdized
Mn2576	896.9433	-0.2128	0.9999753	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	3.5176e-060		0	-0.2096
S1	0.005	0.0047856	-0.000214	-4.29	4.0797
S2	0.01	0.0096243	-0.000376	-3.76	8.4197
S3	0.25	0.25212	0.00212	0.85	225.93
S4	0.5	0.5035	0.0035	0.701	451.4
S5	1	0.99538	-0.00462	-0.462	892.58

El Name	Slope	Y-int	Correlation	Date Stdized
Mo2020	28.4086	-0.0085	0.9999941	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	5.5173e-060		0	-0.0083282
S1	0.01	0.0096209	-0.000379	-3.79	0.26483
S2	0.02	0.019588	-0.000412	-2.06	0.54799
S3	0.5	0.50029	0.000286	0.0571	14.204
S4	1	1.0034	0.0034	0.34	28.497
S5	2	1.9962	-0.00376	-0.188	56.702

El Name	Slope	Y-int	Correlation	Date Stdized
Na5895	23.1250	-2.4538	0.9999987	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.000127520		0	-2.4509
S1	0.5	0.49283	-0.00717	-1.43	8.9429
S2	1	0.98687	-0.0131	-1.31	20.367
S3	25	25.044	0.0437	0.175	576.68
S4	50	50.045	0.0455	0.091	1154.9
S5	100	99.931	-0.0689	-0.0689	2308.5

El Name	Slope	Y-int	Correlation	Date Stdized
Ni2316	68.4255	-0.1695	0.9999707	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-5.5316e-060		0	-0.1699
S2	0.01	0.010462	0.000462	4.62	0.54632
S3	0.25	0.25295	0.00295	1.18	17.139
S4	0.5	0.50366	0.00366	0.732	34.294
S5	1	0.99521	-0.00479	-0.479	67.928

El Name	Slope	Y-int	Correlation	Date Stdized
Pb2203	13.6784	0.0121	0.9996927	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-2.9641e-050		0	0.01166
S2	0.01	0.012756	0.00276	27.6	0.18655
S3	0.25	0.2562	0.0062	2.48	3.5164
S4	0.5	0.49556	-0.00444	-0.888	6.7906
S5	1	0.98809	-0.0119	-1.19	13.528

El Name	Slope	Y-int	Correlation	Date Stdized
Sb2068	5.5999	-0.0198	0.9998935	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-3.477e-050		0	-0.019988
S1	0.012	0.015135	0.00313	26.1	0.06496
S2	0.024	0.02495	0.00095	3.96	0.11992
S3	0.6	0.59518	-0.00482	-0.803	3.3132
S4	1.2	1.1996	-0.000354	-0.0295	6.6981
S5	2.4	2.404	0.00405	0.169	13.443

El Name	Slope	Y-int	Correlation	Date Stdized
Se1960	3.3493	0.0085	0.9982159	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S2	0.008	0.013625	0.00562	70.3	0.054133
S3	0.2	0.18745	-0.0126	-6.28	0.63632
S4	0.4	0.39584	-0.00416	-1.04	1.3343
S0	0	-5.115e-050		0	0.0083283
S5	0.8	0.81385	0.0138	1.73	2.7343

El Name	Slope	Y-int	Correlation	Date Stdized
Si2516	14.6623	0.0317	0.9999835	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	5.3591e-050		0	0.032481
S1	0.05	0.046175	-0.00383	-7.65	0.70872
S2	0.1	0.097976	-0.00202	-2.02	1.4682
S3	2.5	2.4872	-0.0128	-0.514	36.499
S4	5	5.0232	0.0232	0.463	73.683
S5	10	10.047	0.0472	0.472	147.35

El Name	Slope	Y-int	Correlation	Date Stdized
Sn1899	8.7679	0.1215	0.9999705	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.4052e-050		0	0.12159
S1	0.01	0.0087522	-0.00125	-12.5	0.19821
S2	0.02	0.01958	-0.00042	-2.1	0.29315
S3	0.5	0.50119	0.00119	0.239	4.5159
S4	1	1.0052	0.00524	0.524	8.9353
S5	2	1.9952	-0.00477	-0.238	17.615

El Name	Slope	Y-int	Correlation	Date Stdized
Sr2152	11.3717	-0.0007	0.9999652	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-1.4781e-050		0	-0.00083327
S1	0.01	0.010458	0.000458	4.58	0.11826
S2	0.02	0.021956	0.00196	9.78	0.24901
S3	0.5	0.49978	-0.000215	-0.043	5.6827
S4	1	1.0009	0.000921	0.0921	11.382
S5	2	1.9913	-0.00872	-0.436	22.644

El Name	Slope	Y-int	Correlation	Date Stdized
Sr3464	9.7718	-0.1832	0.9995720	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-5.2988e-050		0	-0.18369
S1	0.01	0.014844	0.00484	48.4	-0.038118
S2	0.02	0.021228	0.00123	6.14	0.024267
S3	0.5	0.48673	-0.0133	-2.65	4.573
S4	1	1.014	0.014	1.4	9.7255
S5	2	1.9932	-0.0068	-0.34	19.294

El Name	Slope	Y-int	Correlation	Date Stdized
Ti3349	52.9018	-0.0861	0.9999396	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.0959e-050		0	-0.085497
S1	0.01	0.0088777	-0.00112	-11.2	0.38357
S2	0.02	0.020325	0.000325	1.62	0.98913
S3	0.5	0.48936	-0.0106	-2.13	25.802
S4	1	1.0069	0.00694	0.694	53.183
S5	2	2.0064	0.00645	0.322	106.06

El Name	Slope	Y-int	Correlation	Date Stdized
Tl1908	4.0462	-0.1123	0.9999481	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-4.2144e-050		0	-0.11243
S3	0.25	0.2412	-0.0088	-3.52	0.8637
S4	0.5	0.47587	-0.0241	-4.83	1.8132
S5	1	0.9386	-0.0614	-6.14	3.6855

El Name	Slope	Y-int	Correlation	Date Stdized
V_3102	16.0870	0.8605	0.9992260	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	8.1984e-050		0	0.86184
S1	0.01	0.0039626	-0.00604	-60.4	0.92427
S2	0.02	0.016039	-0.00396	-19.8	1.1186
S3	0.5	0.48056	-0.0194	-3.89	8.5913
S4	1	1.0052	0.0052	0.52	17.031
S5	2	2.0181	0.0181	0.907	33.326

El Name	Slope	Y-int	Correlation	Date Stdized
Zn2138	136.6781	0.1677	0.9999911	05/21/01 18:22:38

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	3.9201e-060		0	0.16823
S1	0.01	0.0099846	-1.54e-05	-0.154	1.5324
S2	0.02	0.019417	-0.000583	-2.92	2.8216
S3	0.5	0.49722	-0.00278	-0.557	68.126
S4	1	1.0022	0.00221	0.221	137.15
S5	2	2.0096	0.00961	0.48	274.84

Method: CLP5 Sample Name: ICV Operator:
Comment:
Run Time: 05/21/01 18:25 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.113	.39345	.39620	10.112	1.0206
Stddev	.106	.00288	.00047	.047	.0047
%RSD	1.0509	.73236	.11854	.46677	.45866
#1	10.038	.39141	.39653	10.078	1.0173
#2	10.188	.39548	.39587	10.145	1.0239
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05074	10.148	.05104	.20606	.50238
Stddev	.00013	.023	.00012	.00062	.00132
%RSD	.25079	.22298	.22722	.29849	.26329
#1	.05065	10.132	.05112	.20563	.50145
#2	.05083	10.164	.05096	.20650	.50332
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50238	4.0247	50.076	.98913	10.110
Stddev	.01073	.0006	.207	.00199	.062
%RSD	2.1364	.01588	.41296	.20095	.61169
#1	.49479	4.0252	49.930	.98772	10.066
#2	.50997	4.0243	50.222	.99053	10.154
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50436	1.0135	50.313	.50879	.50475
Stddev	.00043	.0027	.162	.00059	.00097
%RSD	.08454	.27143	.32263	.11599	.19155
#1	.50406	1.0115	50.198	.50837	.50406
#2	.50467	1.0154	50.428	.50920	.50543
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

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Sample Name: ICV Run Time: 05/21/01 18:25

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2060	.40622	4.9661	.99972	1.0092
Stddev	.0156	.00528	.0167	.00240	.0085
%RSD	1.2919	1.2995	.33630	.24052	.84285
#1	1.1950	.40249	4.9543	1.0014	1.0032
#2	1.2170	.40995	4.9779	.99802	1.0152
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0058	1.0093	.51800	1.0153	1.0085
Stddev	.0110	.0079	.00624	.0040	.0027
%RSD	1.0947	.78686	1.2042	.39800	.26982
#1	.99801	1.0037	.51359	1.0125	1.0066
#2	1.0136	1.0149	.52241	1.0182	1.0105
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/21/01 18:30 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	H .05876	.00239	.00403	.01676	-.00022
Stddev	.00708	.00000	.00335	.00654	.00012
%RSD	12.052	.18230	83.059	39.035	53.670
#1	.06377	.00239	.00640	.02139	-.00030
#2	.05376	.00239	.00166	.01213	-.00014
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-.01548	.00033	.00034	.00005
Stddev	.00005	.00784	.00033	.00020	.00049
%RSD	180.10	50.661	97.575	58.500	970.53
#1	.00006	-.00994	.00056	.00020	.00040
#2	-.00001	-.02103	.00010	.00048	-.00030
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00719	-.00526	-.00513	-.00050	-.02317
Stddev	.00589	.00096	.00563	.00057	.24831
%RSD	81.933	18.280	109.66	115.39	1071.8
#1	-.01136	-.00458	-.00115	-.00009	.15242
#2	-.00303	-.00594	-.00911	-.00090	-.19875
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.00168	.00674	-.00018	.00071
Stddev	.00004	.00087	.01444	.00024	.00207
%RSD	166.24	51.942	214.42	136.60	292.05
#1	.00000	.00229	-.00348	-.00035	.00217
#2	-.00005	.00106	.01695	-.00001	-.00075
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/21/01 18:30

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00063	-.00155	.00084	-.00056	-.00141
Stddev	.00252	.00000	.00041	.00161	.00145
%RSD	398.69	.10587	48.464	290.39	102.84
#1	.00115	-.00155	.00112	-.00170	-.00244
#2	-.00241	-.00154	.00055	.00059	-.00038
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00065	-.00016	.00483	-.00394	.00030
Stddev	.00954	.00167	.00145	.00063	.00003
%RSD	1458.4	1029.1	29.941	15.913	9.4601
#1	.00740	-.00135	.00585	-.00438	.00028
#2	-.00609	.00102	.00381	-.00349	.00032
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Method: CLP5 Sample Name: ICSA Operator:
Comment:
Run Time: 05/21/01 18:35 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	242.79	.00273	.01421	-.08184	.00111
Stddev	.56	.00744	.00047	.00119	.00072
%RSD	.23113	272.41	3.3228	1.4528	64.498
#1	242.40	.00799	.01455	-.08268	.00060
#2	243.19	-.00253	.01388	-.08100	.00161
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.00000	.00000	.00000	.00000
Range	±50.000	±.01600	±.04000	±.20000	±.02000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00014	234.61	.00221	.00298	.00173
Stddev	.00004	.43	.00039	.00036	.00002
%RSD	26.738	.18479	17.772	12.053	1.4402
#1	-.00012	234.30	.00193	.00323	.00175
#2	-.00017	234.91	.00248	.00272	.00171
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	250.00	.00000	.00000	.00000
Range	±.00100	±50.000	±.00400	±.01000	±.01000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00090	85.110	.06582	.01782	230.77
Stddev	.00243	.194	.04374	.00003	1.56
%RSD	270.57	.22772	66.454	.16504	.67502
#1	.00261	84.973	.09675	.01784	229.67
#2	-.00082	85.247	.03489	.01780	231.87
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	100.00	.00000	.00000	250.00
Range	±.01000	±20.000	±1.0000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00199	-.00143	.06094	.00179	-.02824
Stddev	.00002	.00112	.01850	.00069	.00022
%RSD	.84003	78.123	30.353	38.644	.78857
#1	-.00198	-.00064	.04786	.00130	-.02840
#2	-.00201	-.00223	.07403	.00228	-.02808
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.01000	±.20000	±1.0000	±.04000	±.04000

Sample Name: ICSA Run Time: 05/21/01 18:35

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01549	.02148	.47011	-.00416	Q -.09467
Stddev	.00504	.00538	.00289	.00027	.00094
%RSD	32.506	25.031	.61533	6.4608	.98772
#1	.01193	.01768	.46807	-.00397	-.09401
#2	.01905	.02528	.47216	-.00435	-.09533
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000
Range	±.04000	±.04000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01484	-.00886	.00031	-.01055	-.00077
Stddev	.00151	.00054	.00180	.00265	.00030
%RSD	10.141	6.0996	586.85	25.099	39.446
#1	.01378	-.00848	.00158	-.00868	-.00099
#2	.01591	-.00924	-.00097	-.01242	-.00056
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.02000	±.06000	±.08000	±.02000	±.02000

Method: CLP5 Sample Name: ICSAB Operator:
Comment:
Run Time: 05/21/01 18:40 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	243.78	.47910	.26082	-.13697	.24037
Stddev	.17	.00228	.00001	.00148	.00062
%RSD	.07145	.47676	.00513	1.0790	.25709
#1	243.90	.48071	.26081	-.13592	.23994
#2	243.66	.47748	.26083	-.13801	.24081
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.50000	.25000	.00000	.25000
Range	±50.000	±.10000	±.05000	±.20000	±.05000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24395	235.77	.49309	.23762	.23766
Stddev	.00093	.39	.00209	.00144	.00138
%RSD	.38208	.16731	.42290	.60642	.58077
#1	.24460	236.05	.49162	.23660	.23668
#2	.24329	235.49	.49457	.23864	.23863
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	250.00	.50000	.25000	.25000
Range	±.05000	±50.000	±.10000	±.05000	±.05000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23427	90.084	2.6447	.01875	232.87
Stddev	.00269	.269	.0059	.00087	.08
%RSD	1.1478	.29878	.22301	4.6182	.03263
#1	.23617	89.894	2.6405	.01814	232.92
#2	.23236	90.274	2.6488	.01936	232.81
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	100.00	2.5000	.00000	250.00
Range	±.05000	±20.000	±.50000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22568	-.00240	1.2491	.46326	.44175
Stddev	.00055	.00141	.0185	.00222	.00214
%RSD	.24245	58.702	1.4821	.47912	.48405
#1	.22530	-.00340	1.2360	.46169	.44024
#2	.22607	-.00140	1.2622	.46483	.44326
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	.00000	1.2500	.50000	.50000
Range	±.05000	±.20000	±.25000	±.10000	±.10000

Sample Name: ICSAB Run Time: 05/21/01 18:40

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52525	.25546	.00889	-.00321	Q -.09095
Stddev	.00881	.00465	.00023	.00484	.00252
%RSD	1.6773	1.8217	2.6118	150.44	2.7665
#1	.51902	.25217	.00872	.00020	-.09273
#2	.53148	.25875	.00905	-.00663	-.08917
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.50000	.25000	.00000	.00000	.00000
Range	±.10000	±.05000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01130	-.01009	.47007	.23268	.48840
Stddev	.00050	.00037	.00021	.00383	.00177
%RSD	4.4465	3.6608	.04570	1.6466	.36181
#1	.01165	-.00983	.46992	.23539	.48715
#2	.01094	-.01035	.47023	.22997	.48965
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.50000	.25000	.50000
Range	±.02000	±.06000	±.10000	±.05000	±.10000

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/21/01 18:44 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.248	.40330	.40062	10.410	1.0453
Stddev	.042	.00053	.00191	.061	.0011
%RSD	.41101	.13233	.47754	.58178	.10515
#1	10.218	.40292	.40198	10.367	1.0461
#2	10.278	.40367	.39927	10.453	1.0445
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05093	10.302	.05238	.21024	.50487
Stddev	.00043	.005	.00018	.00031	.00013
%RSD	.83643	.04672	.33903	.14841	.02555
#1	.05123	10.305	.05250	.21002	.50478
#2	.05063	10.299	.05225	.21047	.50496
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50932	4.0646	51.222	.99584	10.308
Stddev	.00585	.0002	.077	.00029	.154
%RSD	1.1489	.00527	.14949	.02920	1.4986
#1	.50518	4.0645	51.168	.99605	10.199
#2	.51346	4.0648	51.276	.99564	10.417
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50681	1.0373	52.075	.51604	.51514
Stddev	.00008	.0037	.181	.00037	.00336
%RSD	.01543	.35539	.34746	.07266	.65321
#1	.50686	1.0347	51.947	.51630	.51276
#2	.50675	1.0399	52.203	.51577	.51752
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Sample Name: CCV Run Time: 05/21/01 18:44

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2295	.41613	5.0798	1.0309	1.0565
Stddev	.0059	.00177	.0181	.0019	.0058
%RSD	.47884	.42451	.35646	.18215	.54871
#1	1.2254	.41738	5.0670	1.0295	1.0524
#2	1.2337	.41488	5.0926	1.0322	1.0606
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0182	1.0292	.53170	1.0333	1.0227
Stddev	.0056	.0006	.00784	.0019	.0027
%RSD	.54674	.05439	1.4751	.18236	.26180
#1	1.0221	1.0288	.52615	1.0346	1.0208
#2	1.0143	1.0295	.53724	1.0319	1.0246
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/21/01 18:49 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	H .08891	-.00324	.00539	.01063	.00044
Stddev	.04974	.00342	.00144	.00316	.00000
%RSD	55.946	105.56	26.632	29.752	.45832
#1	.05374	-.00082	.00437	.01287	.00044
#2	.12409	-.00567	.00640	.00840	.00044
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	-.00994	.00040	.00020	.00052
Stddev	.00000	.01283	.00024	.00032	.00009
%RSD	.78602	129.03	60.688	163.59	18.257
#1	-.00001	-.01902	.00023	-.00003	.00058
#2	-.00001	-.00087	.00057	.00043	.00045
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00247	.00365	.02674	.00037	H .10847
Stddev	.00026	.00059	.04270	.00032	.31004
%RSD	10.683	16.075	159.73	85.926	285.85
#1	.00229	.00406	.05693	.00059	-.11077
#2	.00266	.00323	-.00346	.00014	.32770
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.00086	.00664	.00060	.00315
Stddev	.00004	.00054	.00858	.00093	.00104
%RSD	426.97	63.057	129.23	154.18	32.965
#1	.00002	.00124	.00057	.00126	.00241
#2	-.00004	.00047	.01270	-.00005	.00388
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/21/01 18:49

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00145	.00020	.00090	-.00131	.00167
Stddev	.00042	.00247	.00032	.00215	.00145
%RSD	28.870	1224.0	36.156	163.51	86.863
#1	.00115	-.00154	.00067	.00021	.00270
#2	.00174	.00194	.00113	-.00283	.00064
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00456	.00027	.00815	-.00250	.00035
Stddev	.00101	.00018	.00086	.00065	.00000
%RSD	22.230	65.657	10.525	25.920	.72709
#1	.00384	.00014	.00754	-.00204	.00035
#2	.00527	.00039	.00875	-.00295	.00035
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Method: CLP5 Sample Name: PBS BU WG97743-03 Operator: SLP
Comment:
Run Time: 05/21/01 18:59 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	H 9.4808	-.04226	.28637	.05867	.01855
Stddev	2.4929	.11544	.04786	.01104	.00874
%RSD	26.295	273.21	16.713	18.824	47.110
#1	7.7180	.03938	.25252	.06648	.02473
#2	11.244	-.12389	.32021	.05086	.01237
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	5.0000	.50000	1.0000	5.0000	.50000
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00084	1.1183	.04217	.02052	-.00151
Stddev	.00064	.1433	.00757	.01219	.00744
%RSD	75.947	12.812	17.960	59.376	491.57
#1	-.00130	1.2196	.04752	.01191	-.00678
#2	-.00039	1.0170	.03681	.02914	.00375
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02500	10.000	.10000	.25000	.25000
Low Limit	-.02500	-10.000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -.27481	.48102	-1.4487	-.01874	1.0417
Stddev	.04111	.01224	1.3948	.04895	6.2047
%RSD	14.960	2.5436	96.282	261.20	595.62
#1	-.24574	.47237	-.46239	-.05335	-3.3456
#2	-.30388	.48968	-2.4350	.01587	5.4291
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.25000	2.0000	25.000	5.0000	25.000
Low Limit	-.25000	-2.0000	-25.000	-5.0000	-25.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.04126	.62775	.04842	.19122
Stddev	.00039	.01662	.24271	.03444	.08160
%RSD	26.613	40.278	38.664	71.132	42.675
#1	.00120	.05301	.79937	.07277	.24893
#2	.00176	.02951	.45612	.02406	.13352
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	5.0000	25.000	1.0000	1.0000
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: PBS BU WG97743-03 Run Time: 05/21/01 18:59

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.07620	-.06416	.76649	-.11325	.05435
Stddev	.35789	.43976	.06451	.04029	.14500
%RSD	469.68	685.40	8.4165	35.577	266.79
#1	.17687	-.37512	.72088	-.14175	-.04818
#2	-.32927	.24680	.81211	-.08476	.15688
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1.0000	1.0000	50.000	25.000	.50000
Low Limit	-1.0000	-1.0000	-50.000	-25.000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13913	-.01914	.35366	-.23247	.06303
Stddev	.12555	.01871	.25906	.14274	.00331
%RSD	90.239	97.742	73.251	61.399	5.2509
#1	.05035	-.00591	.17048	-.13154	.06537
#2	.22790	-.03237	.53684	-.33340	.06069
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	1.5000	2.0000	.50000	1.0000
Low Limit	-.50000	-1.5000	-2.0000	-.50000	-1.0000

Method: CLP5 Sample Name: LCSS BU WG97743-04 Operator: SLP
Comment:
Run Time: 05/21/01 19:04 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	500.11	9.9285	48.609	49.445	492.68
Stddev	4.60	.1137	.550	.010	.72
%RSD	.92008	1.1456	1.1315	.02118	.14530
#1	503.36	10.009	48.220	49.437	492.17
#2	496.85	9.8480	48.998	49.452	493.19
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	600.00	12.000	60.000	60.000	600.00
Low Limit	400.00	8.0000	40.000	40.000	400.00

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.536	502.11	49.129	49.522	49.850
Stddev	.196	1.69	.065	.048	.037
%RSD	.39541	.33672	.13299	.09737	.07502
#1	49.674	503.30	49.083	49.488	49.824
#2	49.397	500.91	49.175	49.556	49.877
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	600.00	60.000	60.000	60.000
Low Limit	40.000	400.00	40.000	40.000	40.000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.065	55.864	2401.4	508.14	496.23
Stddev	.109	.135	6.0	1.32	6.26
%RSD	.22225	.24104	.25174	.25891	1.2614
#1	48.988	55.769	2405.7	509.07	491.80
#2	49.142	55.960	2397.2	507.21	500.66
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	3000.0	600.00	600.00
Low Limit	40.000	40.000	2000.0	400.00	400.00

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.628	49.954	2488.9	49.087	50.024
Stddev	.003	.093	3.4	.008	.305
%RSD	.00517	.18555	.13816	.01717	.60930
#1	49.630	49.889	2491.3	49.093	49.808
#2	49.626	50.020	2486.4	49.081	50.239
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	3000.0	60.000	60.000
Low Limit	40.000	40.000	2000.0	40.000	40.000

Sample Name: LCSS BU WG97743-04 Run Time: 05/21/01 19:04

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.615	47.293	477.36	49.862	50.629
Stddev	.231	.105	.67	.268	.051
%RSD	.46467	.22099	.14014	.53763	.10092
#1	49.452	47.219	476.89	49.672	50.593
#2	49.778	47.367	477.84	50.052	50.665
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	600.00	60.000	60.000
Low Limit	40.000	40.000	400.00	40.000	40.000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	50.254	48.475	50.421	50.503	49.549
Stddev	.002	.106	.307	.018	.010
%RSD	.00434	.21890	.60847	.03562	.01949
#1	50.252	48.550	50.638	50.516	49.542
#2	50.256	48.400	50.204	50.490	49.556
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	60.000	60.000	60.000
Low Limit	40.000	40.000	40.000	40.000	40.000

Method: CLP5 Sample Name: 0540401 WG97743-02 Operator: SLP
Comment:
Run Time: 05/21/01 19:09 Type: Unk Mode: CONC Corr.Fact: 47.169815

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	9074.3	.11247	.62927	-2.2039	11.887
Stddev	36.9	.29684	.18038	.0547	.066
%RSD	.40651	263.94	28.665	2.4816	.55228
#1	9048.2	-.09743	.75681	-2.1652	11.841
#2	9100.4	.32236	.50172	-2.2425	11.934
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05017	328.11	-.00896	.86766	6.3371
Stddev	.00243	1.01	.01016	.02849	.0212
%RSD	4.8527	.30734	113.42	3.2838	.33392
#1	.04845	327.40	-.01614	.88780	6.3221
#2	.05189	328.83	-.00177	.84751	6.3520
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28473	1568.5	102.65	4.6969	217.36
Stddev	.02438	5.3	2.34	.0395	7.28
%RSD	8.5617	.33797	2.2762	.84123	3.3492
#1	.30197	1564.8	101.00	4.6690	222.51
#2	.26749	1572.3	104.30	4.7249	212.21
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.8918	.19720	11.268	3.5072	3.8084
Stddev	.0118	.01762	1.254	.0129	.0210
%RSD	.30405	8.9367	11.129	.36801	.55233
#1	3.8834	.18474	12.155	3.5163	3.8233
#2	3.9002	.20966	10.381	3.4981	3.7935
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540401 WG97743-02 Run Time: 05/21/01 19:09

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.33707	1.1383	240.21	.15306	.83474
Stddev	.09960	.0369	.81	.05070	.11019
%RSD	29.548	3.2433	.33643	33.122	13.201
#1	.40749	1.1122	239.64	.11721	.75682
#2	.26664	1.1644	240.78	.18891	.91266
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.2065	69.044	-.20147	7.8797	2.6125
Stddev	.3080	.391	.29863	.0885	.0037
%RSD	13.959	.56666	148.23	1.1230	.14234
#1	1.9887	68.767	.00969	7.8172	2.6099
#2	2.4243	69.320	-.41264	7.9423	2.6151
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540401DP WG97743-07 Operator: SLP
Comment:
Run Time: 05/21/01 19:14 Type: Unk Mode: CONC Corr.Fact: 51.020409

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8873.7	-.01549	.61964	-2.7704	9.3860
Stddev	22.6	.08836	.14673	.0155	.0245
%RSD	.25433	570.26	23.680	.55820	.26146
#1	8857.7	-.07797	.51589	-2.7595	9.4034
#2	8889.7	.04699	.72340	-2.7813	9.3687
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04591	316.75	.02127	.81200	6.5242
Stddev	.00134	.38	.01363	.00569	.0306
%RSD	2.9201	.12106	64.101	.70012	.46962
#1	.04686	317.02	.01163	.80798	6.5025
#2	.04497	316.47	.03091	.81602	6.5458
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31717	1909.5	97.819	3.8656	191.37
Stddev	.35590	4.2	2.350	.0026	.12
%RSD	112.21	.21844	2.4028	.06724	.06108
#1	.06551	1906.5	99.481	3.8674	191.45
#2	.56883	1912.4	96.157	3.8637	191.29
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.1495	.26925	10.180	4.1643	3.3604
Stddev	.0145	.03382	.308	.0440	.1118
%RSD	.45988	12.562	3.0207	1.0577	3.3283
#1	3.1393	.29317	10.398	4.1332	3.2814
#2	3.1598	.24533	9.9627	4.1955	3.4395
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540401DP WG97743-07 Run Time: 05/21/01 19:14

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07099	1.0674	260.81	.14616	-.06307
Stddev	.25791	.0511	.07	.02743	.29271
%RSD	363.32	4.7876	.02630	18.764	464.10
#1	.25336	1.1035	260.77	.12677	-.27005
#2	-.11138	1.0313	260.86	.16555	.14391
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9699	63.407	-.36069	10.998	2.5025
Stddev	.0506	.042	.14731	.085	.0014
%RSD	2.5674	.06557	40.843	.77397	.05783
#1	1.9341	63.437	-.25652	10.938	2.5015
#2	2.0056	63.378	-.46485	11.058	2.5035
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540402 WG97743-01 Operator: SLP
Comment:
Run Time: 05/21/01 19:19 Type: Unk Mode: CONC Corr.Fact: 45.871559

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	15395.	.00564	.56269	-1.9362	7.6874
Stddev	41.	.05358	.06582	.1149	.0048
%RSD	.26615	950.31	11.698	5.9326	.06233
#1	15366.	.04352	.60923	-1.8549	7.6840
#2	15424.	-.03225	.51615	-2.0174	7.6908
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03297	749.90	.00711	.38712	15.463
Stddev	.00471	2.81	.00267	.00508	.030
%RSD	14.277	.37430	37.544	1.3116	.19553
#1	.03629	747.92	.00900	.39071	15.442
#2	.02964	751.89	.00522	.38353	15.484
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00167	1130.8	63.797	2.4550	196.30
Stddev	.02540	.2	1.785	.0334	.03
%RSD	1518.4	.01499	2.7983	1.3619	.01527
#1	.01964	1130.9	62.534	2.4787	196.28
#2	-.01629	1130.7	65.059	2.4314	196.32
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.86315	.20442	10.592	2.7514	4.0272
Stddev	.00153	.03041	.485	.0126	.2013
%RSD	.17698	14.874	4.5772	.45621	4.9982
#1	.86423	.18292	10.935	2.7602	3.8848
#2	.86207	.22593	10.249	2.7425	4.1695
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540402 WG97743-01 Run Time: 05/21/01 19:19

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.03067	1.4589	163.10	.13152	15.836
Stddev	.32773	.3368	.24	.07397	.304
%RSD	1068.7	23.087	.14866	56.242	1.9209
#1	-.26241	1.6971	163.27	.07921	15.621
#2	.20108	1.2208	162.93	.18382	16.052
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	17.838	49.018	-.02891	9.7968	.79563
Stddev	.210	.079	.01515	.1193	.00285
%RSD	1.1766	.16038	52.408	1.2177	.35825
#1	17.689	48.962	-.01820	9.8812	.79361
#2	17.986	49.073	-.03962	9.7125	.79764
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540402SDL.2 Operator: SLP
Comment:
Run Time: 05/21/01 19:24 Type: Unk Mode: CONC Corr.Fact: 229.357788

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	16144.	L -1.2106	.91939	-2.3246	8.3518
Stddev	93.	1.3081	.21994	.1799	.0657
%RSD	.57515	108.05	23.923	7.7372	.78644
#1	16209.	-.28569	1.0749	-2.4518	8.3982
#2	16078.	-2.1356	.76387	-2.1974	8.3053
Check ?	LC Pass	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04817	796.30	.10895	.35489	16.655
Stddev	.04124	5.06	.03488	.03226	.053
%RSD	85.609	.63517	32.015	9.0900	.31635
#1	.07734	799.88	.08429	.33208	16.693
#2	.01901	792.73	.13362	.37770	16.618
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07440	1203.2	76.824	2.6676	241.22
Stddev	.67467	7.2	3.000	.2447	6.99
%RSD	906.83	.59637	3.9047	9.1746	2.8957
#1	-.40266	1208.3	74.703	2.4945	236.28
#2	.55146	1198.2	78.945	2.8406	246.16
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.96133	.34674	6.6011	3.1936	4.9103
Stddev	.01919	.18065	3.9177	.0156	.1269
%RSD	1.9958	52.098	59.349	.48881	2.5846
#1	.97490	.21901	3.8309	3.2046	5.0000
#2	.94777	.47448	9.3714	3.1826	4.8205
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540402SDL.2 Run Time: 05/21/01 19:24

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8470	.73798	203.62	-.03996	19.178
Stddev	1.5448	1.3791	1.69	.24674	.314
%RSD	83.635	186.87	.82848	617.50	1.6363
#1	.75472	1.7131	204.81	.13451	19.400
#2	2.9393	-.23719	202.42	-.21443	18.956
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	20.081	53.271	-.65306	10.275	.87519
Stddev	.927	.956	.33819	.102	.02362
%RSD	4.6142	1.7947	51.786	.99377	2.6987
#1	20.736	53.947	-.41392	10.347	.85849
#2	19.426	52.595	-.89220	10.203	.89189
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540402SDL.04 Operator: SLP
Comment:
Run Time: 05/21/01 19:29 Type: Unk Mode: CONC Corr.Fact: 1146.788940

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	15689.	1.4602	5.4721	-3.9189	8.1205
Stddev	2.	7.2030	6.0369	.0762	.0655
%RSD	.00980	493.28	110.32	1.9435	.80704
#1	15687.	-3.6331	9.7408	-3.8650	8.1668
#2	15690.	6.5535	1.2034	-3.9727	8.0741
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00148	763.60	L -.15464	.72468	16.277
Stddev	.07360	22.05	.39065	.40369	.108
%RSD	4988.0	2.8874	252.63	55.706	.66140
#1	.05352	779.19	-.43087	.43923	16.353
#2	-.05057	748.01	.12160	1.0101	16.201
Check ?	LC Pass	LC Pass	LC Fail	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -10.079	1183.6	80.128	1.9942	200.04
Stddev	5.221	10.9	53.569	.8777	107.05
%RSD	51.805	.91806	66.855	44.010	53.511
#1	-6.3866	1175.9	42.249	1.3736	275.74
#2	-13.771	1191.3	118.01	2.6148	124.35
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.97295	.61355	-9.5614	2.7249	5.7773
Stddev	.03322	.76079	9.1571	.0405	.4926
%RSD	3.4145	124.00	95.771	1.4848	8.5260
#1	.94946	.07559	-3.0864	2.6963	6.1256
#2	.99644	1.1515	-16.036	2.7535	5.4290
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540402SDL.04 Run Time: 05/21/01 19:29

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1348	5.1648	195.30	1.3223	17.370
Stddev	7.7200	.8085	2.39	.9243	2.263
%RSD	680.31	15.654	1.2247	69.899	13.029
#1	-4.3241	4.5931	193.61	.66873	15.770
#2	6.5936	5.7365	196.99	1.9758	18.970
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.937	54.109	.79117	8.5245	1.8995
Stddev	3.452	.346	5.0164	.4731	.0235
%RSD	14.421	.63900	634.04	5.5496	1.2381
#1	26.378	54.353	-2.7559	8.1900	1.8829
#2	21.496	53.864	4.3383	8.8590	1.9161
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540402PS.9 Operator: SLP
Comment:
Run Time: 05/21/01 19:34 Type: Unk Mode: CONC Corr.Fact: 45.871559

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	14770.	8.7067	43.009	40.974	436.97
Stddev	49.	.1667	.638	.357	11.23
%RSD	.33365	1.9150	1.4833	.87085	2.5707
#1	14735.	8.8246	42.558	40.722	429.03
#2	14804.	8.5888	43.460	41.227	444.91
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	44.974	1138.1	42.596	43.370	58.761
Stddev	1.132	10.4	.519	.398	.423
%RSD	2.5168	.91100	1.2193	.91733	.72072
#1	44.173	1130.8	42.229	43.088	58.462
#2	45.774	1145.5	42.964	43.651	59.060
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	42.681	1112.6	2183.0	454.06	611.37
Stddev	.934	9.4	38.9	11.05	13.27
%RSD	2.1882	.84759	1.7819	2.4336	2.1708
#1	42.021	1119.3	2155.5	446.25	601.99
#2	43.341	1106.0	2210.5	461.88	620.75
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	43.893	43.340	2178.6	45.244	47.009
Stddev	.542	.503	38.8	.488	.480
%RSD	1.2360	1.1607	1.7820	1.0787	1.0205
#1	43.509	42.984	2151.1	44.899	46.670
#2	44.277	43.696	2206.0	45.589	47.348
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540402PS.9 Run Time: 05/21/01 19:34

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	44.629	42.986	606.17	.23599	58.553
Stddev	.232	.192	.02	.27116	.138
%RSD	.52032	.44653	.00402	114.90	.23605
#1	44.465	42.850	606.18	.04425	58.455
#2	44.793	43.122	606.15	.42773	58.651
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	60.776	88.335	43.682	53.643	44.442
Stddev	.822	1.058	.348	1.167	.497
%RSD	1.3530	1.1983	.79566	2.1746	1.1184
#1	60.194	87.587	43.437	52.818	44.090
#2	61.357	89.084	43.928	54.468	44.793
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540403S WG97743-05 Operator: SLP
Comment:
Run Time: 05/21/01 19:39 Type: Unk Mode: CONC Corr.Fact: 45.454544

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	18268.	8.6164	40.833	31.468	446.83
Stddev	40.	.1053	.371	.104	1.37
%RSD	.22089	1.2224	.90819	.33174	.30687
#1	18240.	8.5419	40.571	31.542	445.86
#2	18297.	8.6909	41.096	31.394	447.80
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	45.939	1172.3	43.110	44.061	57.681
Stddev	.044	2.9	.131	.105	.071
%RSD	.09496	.24511	.30402	.23733	.12250
#1	45.908	1170.3	43.018	43.987	57.631
#2	45.970	1174.3	43.203	44.134	57.731
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	43.766	3423.0	2300.9	464.13	782.74
Stddev	.001	7.1	.1	.14	4.25
%RSD	.00269	.20667	.00431	.02927	.54274
#1	43.765	3418.0	2301.0	464.03	779.74
#2	43.767	3428.0	2300.8	464.22	785.74
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	44.711	43.282	2231.3	49.028	48.622
Stddev	.099	.005	3.3	.197	.117
%RSD	.22152	.01157	.14935	.40265	.24076
#1	44.641	43.285	2228.9	48.888	48.705
#2	44.781	43.278	2233.6	49.168	48.539
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540403S WG97743-05 Run Time: 05/21/01 19:39

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	28.121	43.139	495.63	43.654	56.680
Stddev	.363	.117	1.09	.318	.207
%RSD	1.2919	.27129	.21971	.72879	.36454
#1	28.378	43.056	496.40	43.429	56.534
#2	27.864	43.221	494.86	43.879	56.826
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	63.571	97.561	43.823	58.461	46.106
Stddev	.137	.067	.539	.176	.087
%RSD	.21485	.06862	1.2300	.30085	.18919
#1	63.475	97.514	44.204	58.337	46.044
#2	63.668	97.609	43.442	58.586	46.168
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540404SD WG97743-06 Operator: SLP
Comment:
Run Time: 05/21/01 19:43 Type: Unk Mode: CONC Corr.Fact: 49.019608

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	20778.	9.6069	46.710	30.768	494.23
Stddev	2.	.3360	.377	.364	.36
%RSD	.00730	3.4970	.80651	1.1835	.07354
#1	20779.	9.3693	46.976	31.026	493.97
#2	20777.	9.8444	46.443	30.511	494.48
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.838	1243.5	47.736	48.723	64.358
Stddev	.075	.5	.228	.221	.109
%RSD	.15148	.03837	.47760	.45338	.16861
#1	49.784	1243.8	47.897	48.879	64.435
#2	49.891	1243.2	47.575	48.567	64.282
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	48.174	6973.1	2537.1	508.96	872.30
Stddev	.305	18.2	10.4	.20	1.53
%RSD	.63214	.26158	.41171	.03835	.17591
#1	47.958	6986.0	2544.5	509.10	871.22
#2	48.389	6960.2	2529.7	508.83	873.39
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	48.207	47.939	2481.1	53.981	54.011
Stddev	.143	.104	2.7	.290	.018
%RSD	.29598	.21689	.10900	.53768	.03243
#1	48.308	48.013	2479.1	54.186	54.024
#2	48.106	47.866	2483.0	53.776	53.999
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Analysis Report

Sample Name: 0540404SD WG97743-06 Run Time: 05/21/01 19:43

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	31.142	48.355	425.75	48.298	58.665
Stddev	.247	.489	2.73	.277	.207
%RSD	.79160	1.0117	.64041	.57336	.35335
#1	31.317	48.701	427.68	48.494	58.811
#2	30.968	48.009	423.82	48.102	58.518
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	68.838	114.71	47.889	67.163	50.872
Stddev	.243	.51	.117	.032	.117
%RSD	.35268	.44509	.24485	.04756	.23095
#1	69.010	114.35	47.806	67.141	50.955
#2	68.667	115.07	47.972	67.186	50.789
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1100

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/21/01 19:48 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.108	.39181	.38977	9.9587	1.0100
Stddev	.042	.00624	.00001	.0422	.0009
%RSD	.42019	1.5939	.00159	.42365	.08527
#1	10.138	.39623	.38977	9.9289	1.0106
#2	10.078	.38740	.38978	9.9885	1.0094
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05093	10.171	.05085	.20538	.50476
Stddev	.00011	.019	.00082	.00050	.00107
%RSD	.22384	.18680	1.6043	.24219	.21274
#1	.05101	10.184	.05143	.20573	.50400
#2	.05085	10.157	.05028	.20503	.50551
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50046	4.0289	49.895	.99582	10.022
Stddev	.00319	.0113	.190	.00026	.186
%RSD	.63679	.28141	.38083	.02598	1.8530
#1	.50272	4.0209	50.030	.99600	10.153
#2	.49821	4.0369	49.761	.99564	9.8907
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50547	1.0088	49.839	.50803	.50687
Stddev	.00081	.0022	.050	.00069	.00069
%RSD	.15988	.22266	.10012	.13658	.13543
#1	.50490	1.0072	49.804	.50754	.50736
#2	.50604	1.0104	49.874	.50852	.50639
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Sample Name: CCV Run Time: 05/21/01 19:48

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1976	.39828	4.9313	.99402	.99240
Stddev	.0004	.00246	.0137	.00135	.00281
%RSD	.03554	.61845	.27744	.13583	.28304
#1	1.1973	.40002	4.9217	.99306	.99041
#2	1.1979	.39653	4.9410	.99497	.99439
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.99942	1.0001	.52099	1.0133	1.0075
Stddev	.00504	.0003	.00053	.0017	.0015
%RSD	.50451	.02807	.10204	.16355	.14606
#1	.99585	.99990	.52137	1.0121	1.0064
#2	1.0030	1.0003	.52062	1.0145	1.0085
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/21/01 19:53 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	H .17452	.00080	.00370	.01141	.00032
Stddev	.05685	.00460	.00096	.00368	.00033
%RSD	32.578	577.12	25.913	32.208	103.80
#1	.13432	-.00245	.00437	.01401	.00008
#2	.21472	.00405	.00302	.00881	.00055
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	-.01952	.00080	.00033	.00000
Stddev	.00001	.01501	.00039	.00027	.0003
%RSD	24.149	76.883	48.801	80.697	18434.
#1	-.00004	-.00891	.00108	.00052	.00024
#2	-.00006	-.03013	.00053	.00014	-.00024
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00472	.00227	.03732	-.00058	.04280
Stddev	.00614	.00294	.01171	.00084	.03099
%RSD	130.11	129.60	31.377	145.09	72.414
#1	-.00038	.00019	.04560	-.00117	.02088
#2	-.00906	.00435	.02904	.00001	.06472
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00112	-.00510	.00051	.00066
Stddev	.00005	.00025	.00580	.00052	.00301
%RSD	309.84	22.291	113.77	102.10	457.71
#1	-.00002	.00094	-.00100	.00014	.00278
#2	.00005	.00130	-.00920	.00087	-.00147
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/21/01 19:53

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00116	.00319	.00567	-.00132	.00006
Stddev	.00001	.00246	.00160	.00054	.00187
%RSD	.67931	77.303	28.278	40.803	3198.4
#1	.00115	.00145	.00680	-.00170	-.00126
#2	.00116	.00493	.00454	-.00094	.00138
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00491	-.00043	.00610	-.00161	.00044
Stddev	.00753	.00080	.00140	.00305	.00005
%RSD	153.44	187.89	22.880	189.09	10.649
#1	-.00042	.00014	.00709	-.00377	.00041
#2	.01023	-.00100	.00512	.00054	.00047
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Metals

5 404

Date: 5/21/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: 97292, 96997 Cal 2

	Analyst
Calibration/Linearity	Y
ICV/CCV	Y
ICB/CCB	Y
icsa/icsab/cri	Y
Blank/LCS	Y
MS/MSD	Y
Postspike/Serial Dilution	Y
Duplicate	Y
Record Results	Y
Excel Spreadsheets	Y
Results Reporting / Data Qualifiers	Y
Calculations & Correct Factors	Y
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	Y
QA Approval - Seedpak 3	NA
Check for Completeness	Y
Level IV Data	

Primary Reviewer Initials & Date Checked JYH 5/21/01

Secondary Reviewer Initials & Date Checked [illegible] 5/22/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked NB 5/22 5/23

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1204

Cal 2 4

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST JYH DATE 5-21-01 TIME 14:40
METHOD # 6020A SOP # ME700 Rev # 1 WORK GROUP # 97792 96997
CAL STD SOURCE M2-9-5uA ICV/CCV SOURCE M2-9-36B
ICS AB SOURCE M2-9-42B ICS A SOURCE M2-9-42A POST SPK SOURCE MS-1-8-6
Instrument ID: TJA IRIS: _____ Data File: 052101 Perkin Elmer Optima: _____ Perkin Elmer ELAN: ✓

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	50				27.				
	1 1/10				28.				
	2 1/5				29.				
	3				30.				
	ICV				31.				
	ICB				32.				
	ICSA				33.				
	ICSAB			cv/cb	34.				
1.	PBSLL	10	0.50 | 50		35.				
2.	LCSLL	10	0.50		36.				
3.	052901		0.48		37.				
4.	1 01DP		0.50		38.				
5.	0540402		0.48		39.				
6.	03S		0.49		40.				
7.	04SD		0.49		41.				
8.	02PS		0.48		42.				
9.	02SDL	50	0.48	cv/cb	43.				
10.	05/1010	200	40		44.				
11.	1 10PS	200	40		45.				
12.	052901	10	0.48		46.				
13.	01SDL	50	0.48		47.				
14.	01PS	10	0.48		48.				
15.	ICSA				49.				
16.	ICSAB			cv/cb	50.				
17.	0540401	10	0.51 | 50		51.				
18.	05		0.50		52.				
19.	06		0.52		53.				
20.	07		0.52		54.				
21.	08		0.52		55.				
22.	09		0.51		56.				
23.	10DP		0.46		57.				
24.	ICSA				58.				
25.	ICSAB			cv/cb	59.				
26.					60.	JYH	5/21/01		

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/21/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Arsenic	0.00	5.538	10.000	10698	20	22181	100	108409			0.99998	
Lead	0	982.41	10	289367	20	594576	100	3E+06			0.99999	

Comments:

_____

_____

_____

_____

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Monday, May 21, 2001

UNITS: ug/L

ICV Time: 2:54 PM
CCV1 Time: 3:14 PM
CCV2 Time: 4:11 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.2	116.4	50	42.5	85.0	27.6	55.2	*
Antimony	50	48.4	96.8	50	47.4	94.8	47.1	94.2	
Arsenic	50	49.1	98.2	50	48.2	96.4	49.1	98.2	
Barium	50	53.3	106.6	50	48.3	96.6	52.4	104.8	
Beryllium	50	43.9	87.8	50	51.8	103.6	42.9	85.8	*
Cadmium	50	49.9	99.8	50	49.2	98.4	49.1	98.2	
Calcium	5000	4580	91.6	5000	4740	94.8	4510	90.2	
Chromium	50	43.4	86.8	50	38.8	77.6	54.5	109.0	*
Cobalt	50	49.1	98.2	50	49.2	98.4	48.2	96.4	
Copper	50	50.3	100.6	50	51.2	102.4	52.2	104.4	
Iron	5000	4630	92.6	5000	4780	95.6	3930	78.6	*
Lead	50	50.4	100.8	50	51.0	102.0	52.9	105.8	
Magnesium	5000	5020	100.4	5000	4800	96.0	4380	87.6	*
Manganese	50	48.2	96.4	50	50.0	100.0	50.1	100.2	
Nickel	50	50.4	100.8	50	47.8	95.6	47.6	95.2	
Potassium	5000	4730	94.6	5000	5080	101.6	4370	87.4	*
Selenium	50	50.1	100.2	50	49.9	99.8	50.5	101.0	
Silver	50	48.9	97.8	50	48.3	96.6	47.6	95.2	
Sodium	5000	4510	90.2	5000	4520	90.4	3890	77.8	*
Thallium	50	49.6	99.2	50	50.3	100.6	52.6	105.2	
Vanadium	50	49.8	99.6	50	49.7	99.4	50.2	100.4	
Zinc	50	58.2	116.4	50	50.4	100.8	58.6	117.2	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Monday, May 21, 2001

UNITS: ug/L

ICV Time: 2:54 PM
CCV1 Time: 4:58 PM
CCV2 Time: 5:55 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.2	116.4	50	27.7	55.4	29.4	58.8	*
Antimony	50	48.4	96.8	50	47.4	94.8	47.0	94.0	
Arsenic	50	49.1	98.2	50	48.3	96.6	48.4	96.8	
Barium	50	53.3	106.6	50	51.1	102.2	48.8	97.6	
Beryllium	50	43.9	87.8	50	36.0	72.0	38.7	77.4	*
Cadmium	50	49.9	99.8	50	49.1	98.2	49.6	99.2	
Calcium	5000	4580	91.6	5000	4310	86.2	4740	94.8	*
Chromium	50	43.4	86.8	50	40.2	80.4	51.3	102.6	*
Cobalt	50	49.1	98.2	50	49.1	98.2	49.8	99.6	
Copper	50	50.3	100.6	50	49.9	99.8	50.8	101.6	
Iron	5000	4630	92.6	5000	4100	82.0	4270	85.4	*
Lead	50	50.4	100.8	50	52.1	104.2	53.1	106.2	
Magnesium	5000	5020	100.4	5000	4680	93.6	4560	91.2	
Manganese	50	48.2	96.4	50	50.0	100.0	50.3	100.6	
Nickel	50	50.4	100.8	50	50.5	101.0	50.0	100.0	
Potassium	5000	4730	94.6	5000	4540	90.8	4680	93.6	
Selenium	50	50.1	100.2	50	48.9	97.8	49.4	98.8	
Silver	50	48.9	97.8	50	46.9	93.8	49.6	99.2	
Sodium	5000	4510	90.2	5000	4220	84.4	4220	84.4	*
Thallium	50	49.6	99.2	50	51.7	103.4	53.1	106.2	
Vanadium	50	49.8	99.6	50	48.7	97.4	50.6	101.2	
Zinc	50	58.2	116.4	50	57.6	115.2	61.2	122.4	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Monday, May 21, 2001
UNITS:	ug/L
ICB Time:	14:59:23
CCB1 Time:	15:19:58
CCB2 Time:	16:16:56
CCB3 Time:	17:03:59

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-31.5		-32.0		-32.0		-31.2	
Antimony	0.0208		-0.0259		-0.0419		-0.0454	
Arsenic	0.0124		0.0485		0.0406		0.0323	
Barium	-0.031		-0.031		-0.031		-0.031	
Beryllium	0		0		0		0	
Cadmium	-0.0028		-0.0015		-0.002		-0.004	
Calcium	-84.1		-84.1		-84.1		-45.2	
Chromium	0.581		-0.0303		0.422		-0.106	
Cobalt	-0.0159		-0.0007		-0.0169		-0.0266	
Copper	-0.0233		-0.0007		0.0194		0.0629	
Iron	-36.5		-29.7		-41.5		-43.5	
Lead	0.0007		-0.0007		0.0022		0.001	
Magnesium	24.1		-20.2		-20.4		-20.4	
Manganese	0.0356		0.0125		0.0066		0.0108	
Nickel	-0.0003		-0.0737		-0.0737		-0.0291	
Potassium	-30.3		-39.9		-39.9		-43.3	
Selenium	-0.0229		0.0843		0.0746		0.0481	
Silver	-0.0219		-0.006		-0.0278		-0.0174	
Sodium	-88.2		-86.7		-88.4		-87.2	
Thallium	-0.004		-0.0009		-0.0047		-0.002	
Vanadium	0.159		0.0706		0.143		0.184	
Zinc	0.35		0.337		0		0	

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Monday, May 21, 2001
UNITS:	ug/L
ICB Time:	14:59:23
CCB1 Time:	18:00:36
CCB2 Time:	
CCB3 Time:	

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-31.5		-30.9					
Antimony	0.0208		-0.0602					
Arsenic	0.0124		0.0353					
Barium	-0.031		0.0269					
Beryllium	0		0					
Cadmium	-0.0028		-0.003					
Calcium	-84.1		-84.1					
Chromium	0.581		-0.161					
Cobalt	-0.0159		-0.022					
Copper	-0.0233		-0.0031					
Iron	-36.5		-42.2					
Lead	0.0007		0.0106					
Magnesium	24.1		-20.1					
Manganese	0.0356		0.0129					
Nickel	-0.0003		-0.0737					
Potassium	-30.3		-45.1					
Selenium	-0.0229		0.0084					
Silver	-0.0219		-0.0131					
Sodium	-88.2		-88.0					
Thallium	-0.004		-0.0024					
Vanadium	0.159		0.0003					
Zinc	0.35		0.598					

U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Monday, May 21, 2001

UNITS: ug/L

ICSA Time: 15:04:31
ICSAB Time: 15:09:41

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	17700	16500.0	165.0	*
Antimony	0	0	0	0.0		
Arsenic	0	10	0	9.6	96.3	
Barium	0	0	0	0.1		
Beryllium	0	0	0	0.1		
Cadmium	0	10	0	9.9	98.7	
Calcium	30000	30000	27600	25700.0	85.7	
Chromium	0	20	1	17.1	85.5	
Cobalt	0	20	0	19.0	95.0	
Copper	0	20	1	19.9	99.5	
Iron	25000	25000	27100	27100.0	108.4	
Lead	0	0	0	0.1		
Magnesium	10000	10000	10700	10000.0	100.0	
Manganese	0	20	0	20.6	103.0	
Nickel	0	20	1	18.9	94.5	
Potassium	10000	10000	9930	9920.0	99.2	
Selenium	0	10	0	9.6	96.2	
Silver	0	5	0	4.5	89.2	
Sodium	25000	25000	25000	23200.0	92.8	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	19.7	98.5	
Zinc	0	10	3	13.0	130.0	*

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - ICP/MS
METHOD: 6020
ANALYST: JYH
DATE: Monday, May 21, 2001

UNITS: ug/L

Spiked Sample Time: 4:01 PM
Sample Time: 3:45 PM

Sample ID: 0540402 PS

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125							
Antimony	75-125	49.5		0.349	U	50	99.0	
Arsenic	75-125	47.6		0.277	U	50	95.2	
Barium	75-125	60.4		4.34		50	112.1	
Beryllium	75-125	44.9		0		50	89.8	
Cadmium	75-125	49.5		0.021	U	50	99.0	
Calcium	75-125							
Chromium	75-125	68.2		9.00		50	118.4	
Cobalt	75-125	52.3		0.0564	B	50	104.5	
Copper	75-125	53.7		0.181	U	50	107.4	
Iron	75-125							
Lead	75-125	56.4		3.25		50	106.3	
Magnesium	75-125	66.3		73.0		50	-13.4	N
Manganese	75-125	53.1		0.487	U	50	106.2	
Nickel	75-125	51.9		0.93	B	50	101.9	
Potassium	75-125							
Selenium	75-125	44.5		0.244	U	50	89.0	
Silver	75-125	46.2		0.036	U	50	92.4	
Sodium	75-125							
Thallium	75-125	52.4		0.026	U	50	104.8	
Vanadium	75-125	55.7		3.06	B	50	105.3	
Zinc	75-125	56.0		3.39		50	105.2	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 7/21/2000

Units: mg/kg

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	0.02	0.01
Arsenic	75	0.05	0.025
Cadmium	114	0.01	0.005
Lead	208	0.05	0.025
Selenium	82	0.02	0.01
Silver	107	0.2	0.1
Thallium	203	0.01	0.005
Vanadium	51	0.04	0.02

Comments:

FORM IX - IN

1213

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;a/n 110163351

Instrument Tuning Report

File Name: 010201.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.977	578	2064	0.696	
Li	7.016	6.979	1568	2060	0.673	
Co	58.933	58.879	14265	1950	0.686	
In	114.904	114.829	27903	1939	0.699	
Tl	204.975	204.925	49682	2242	0.676	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.780
3.000	0.639
4.000	30.649
5.000	54.294
6.000	1.932
7.000	2.072
8.000	46.481
9.000	149.071
58.000	1.694
59.000	0.687
60.000	17.014
114.000	1.265
115.000	0.621
116.000	28.983
204.000	1.707
205.000	0.872
206.000	0.576

Report Date/Time: Monday, May 21, 2001 09:22:49
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	579	2064	0.698	
Li	7.016	7.029	1570	2060	0.677	
Co	58.933	58.929	14263	1950	0.699	
In	114.904	114.979	27921	1939	0.713	
Tl	204.975	205.026	49694	2242	0.675	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.921	
3.000	1.497	
4.000	45.532	
5.000	59.265	
6.000	1.725	
7.000	0.879	✓
8.000	54.695	
9.000	71.261	
58.000	4.309	
59.000	0.772	✓
60.000	27.728	
114.000	3.921	
115.000	0.306	✓
116.000	8.859	
204.000	3.665	
205.000	0.918	✓
206.000	1.357	

Report Date/Time: Monday, May 21, 2001 09:25:33
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	581	2064	0.699	
Li	7.016	7.079	1584	2060	0.683	
Co	58.933	58.929	14261	1950	0.701	
In	114.904	114.929	27926	1939	0.702	
Tl	204.975	204.975	49694	2242	0.676	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.974	
3.000	0.796	
4.000	30.822	
5.000	68.698	
6.000	1.273	
7.000	1.774	✓
8.000	30.595	
9.000	46.481	
58.000	4.577	
59.000	1.002	✓
60.000	32.438	
114.000	2.841	
115.000	0.638	✓
116.000	15.333	
204.000	1.541	
205.000	1.121	✓
206.000	1.066	

Report Date/Time: Monday, May 21, 2001 09:27:45
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.976	573	2064	0.686	
Li	7.016	6.929	1564	2060	0.678	
Co	58.933	58.929	14259	1950	0.700	
In	114.904	114.879	27919	1939	0.707	
Tl	204.975	204.976	49694	2242	0.673	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.872
3.000	1.137
4.000	30.819
5.000	44.287
6.000	1.444
7.000	1.120
8.000	91.618
9.000	55.902
58.000	2.508
59.000	0.726
60.000	29.235
114.000	1.444
115.000	0.515
116.000	13.290
204.000	3.986
205.000	0.695
206.000	0.715

Report Date/Time: Monday, May 21, 2001 09:32:04
Page 1

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, May 21, 2001 09:35:16
Sample Description:
Method File: C:\elandata\Method\Service\6020 methods\6020 daily.mth
Dataset File: c:\elandata\Dataset\051401\Sample.465
Tuning File: c:\elandata\Tuning\010201.tun
Optimization File: c:\elandata\Optimize\6020.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 70
Current Dead Time (ns): 70

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	32465.4	32465.426	485.697	1.5
	Rh	102.9	189737.8	189737.807	392.244	0.2
	Pb	208.0	158552.4	158552.439	790.288	0.5
⌈>	Ba	137.9	205063.0	205063.027	1844.622	0.9
⌊	Ba++	69.0	4406.1	0.021	0.000	0.9
⌈>	Ce	139.9	246241.2	246241.181	1164.652	0.5
⌊	CeO	155.9	12232.5	0.050	0.001	1.7
	Bkgd	220.0	2.9	2.850	0.487	17.1

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
7.75	Lens Voltage
1450.00	ICP RF Power
-1900.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	53	6.5	16.0
Co	59	53	7.0	152962.0
Rh	103	53	8.0	291352.5
Pb	208	53	10.0	290289.7

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, May 21, 2001 14:40:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17020.582					ug/L
⌈	Be	9	0.000					ug/L
|	Al	27	53759.884					ug/L
|>	Sc-1	45	141050.687					ug/L
⌈	V	51	839.790					ug/L
|	Cr	52	4873.212					ug/L
|	Cr	53	666.760					ug/L
|	Mn	55	133.469					ug/L
|	Co	59	166.837					ug/L
|	Ni	60	100.101					ug/L
|	Cu	65	33.367					ug/L
|	Zn	66	0.000					ug/L
|>	Ge	72	405453.433					ug/L
|	As	75	5.538					ug/L
|	Se	77	74.000					ug/L
⌊	Se	82	45.660					ug/L
	Y	89	365817.184					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	200.204					ug/L
|	Cd	114	41.839					ug/L
|>	In	115	418054.877					ug/L
⌊	Sb	123	634.859					ug/L
⌈	Ba	135	33.367					ug/L
|	Ce	140	0.000					ug/L
⌊>	Tb	159	439870.339					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	101.668					ug/L
|	Tl	205	255.007					ug/L
|	Pb	206	183.354					ug/L
|	Pb	207	116.679					ug/L
|	Pb	208	982.414					ug/L
⌊>	Bi	209	422197.908					ug/L
⌈	Na	23	260426.708					mg/L
|	Mg	24	40921.637					mg/L
|	K	39	448305.982					mg/L
|	Ca	43	666.713					mg/L
|	Fe	54	33985.532					mg/L
|	Fe	57	11346.512					mg/L

⌊> Sc	45	141050.687		mg/L
Cl	35	15351.322		mg/L
Kr	83	59.668		mg/L
U	238	0.000		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
⌊> Sc-1	45					
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72					
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115					
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
⌊> Tb	159					
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
⌊> Bi	209					
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
⌊> Sc	45					
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, May 21, 2001 14:41:33

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, May 21, 2001 14:43:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.948	-1669.63				ug/L
⌈	Be	9	1735.295	0.01	10.0000	2.911	29.113	ug/L
|	Al	27	27722.809	-0.19	10.0000	2.764	27.643	ug/L
⌊>	Sc-1	45	145468.177	145468.18				ug/L
⌈	V	51	51973.600	0.12	10.0000	0.152	1.516	ug/L
|	Cr	52	50159.014	0.11	10.0000	0.522	5.218	ug/L
|	Cr	53	7337.115	0.02	10.0000	0.822	8.223	ug/L
|	Mn	55	76214.108	0.19	10.0000	0.447	4.467	ug/L
|	Co	59	62838.147	0.15	10.0000	0.468	4.683	ug/L
|	Ni	60	11320.348	0.03	10.0000	1.107	11.068	ug/L
|	Cu	65	15733.217	0.04	10.0000	1.348	13.483	ug/L
|	Zn	66	10007.145	0.02	10.0000	1.747	17.471	ug/L
\>	Ge	72	410722.743	410722.74				ug/L
|	As	75	10697.520	0.03	10.0000	0.064	0.639	ug/L
|	Se	77	1065.413	0.00	10.0000	0.153	1.525	ug/L
⌊	Se	82	1330.545	0.00	10.0000	0.102	1.020	ug/L
	Y	89	338557.180	-27260.00				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	61121.270	0.14	10.0000	0.159	1.592	ug/L
|	Cd	114	33181.451	0.08	10.0000	0.153	1.531	ug/L
\>	In	115	420919.660	420919.66				ug/L
⌊	Sb	123	32372.977	0.08	10.0000	0.075	0.751	ug/L
⌈	Ba	135	12724.045	0.03	10.0000	1.049	10.488	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	438075.942	438075.94				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	59337.708	59236.04	10.0000	0.036	0.356	ug/L
|	Tl	205	144629.048	144374.04	10.0000	0.081	0.815	ug/L
|	Pb	206	49502.572	49319.22	10.0000	0.160	1.600	ug/L
|	Pb	207	42792.110	42675.43	10.0000	0.230	2.300	ug/L
|	Pb	208	289367.316	288384.90	10.0000	0.093	0.931	ug/L
⌊>	Bi	209	431419.214	431419.21				ug/L
⌈	Na	23	2852508.135	17.79	1.0000	0.045	4.470	mg/L
|	Mg	24	1673951.904	11.24	1.0000	0.088	8.783	mg/L
|	K	39	5327226.242	33.51	1.0000	0.072	7.189	mg/L
|	Ca	43	10675.214	0.07	1.0000	0.390	38.982	mg/L
|	Fe	54	403469.421	2.54	1.0000	0.116	11.608	mg/L
⌊	Fe	57	160451.822	1.02	1.0000	0.036	3.642	mg/L

\>	Sc	45	145468.177	145468.18	mg/L
	Cl	35	22702.891	7351.57	mg/L
	Kr	83	62.668	3.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Monday, May 21, 2001 14:44:20

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, May 21, 2001 14:46:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11342.628	-5677.95				ug/L
⌈	Be	9	4305.606	0.03	20.6690	1.892	9.152	ug/L
|	Al	27	51193.047	-0.04	7.8106	20.082	257.111	ug/L
L>	Sc-1	45	152958.310	152958.31				ug/L
⌈	V	51	104202.983	0.25	19.9727	1.320	6.607	ug/L
|	Cr	52	94143.930	0.21	19.8688	0.889	4.475	ug/L
|	Cr	53	12678.204	0.03	19.4952	4.221	21.651	ug/L
|	Mn	55	154608.598	0.37	19.9901	0.324	1.619	ug/L
|	Co	59	126231.032	0.30	19.9527	0.423	2.121	ug/L
|	Ni	60	29121.657	0.07	20.8903	0.319	1.527	ug/L
|	Cu	65	30260.938	0.07	19.7720	1.004	5.077	ug/L
|	Zn	66	26048.016	0.06	20.9099	2.812	13.446	ug/L
| >	Ge	72	417990.835	417990.83				ug/L
|	As	75	22181.443	0.05	20.0750	0.173	0.864	ug/L
|	Se	77	2059.630	0.00	19.9350	0.706	3.539	ug/L
L	Se	82	2687.479	0.01	20.0404	0.462	2.305	ug/L
	Y	89	380908.462	15091.28				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	120290.656	0.28	19.8542	0.494	2.487	ug/L
|	Cd	114	69334.534	0.16	20.0907	0.111	0.553	ug/L
| >	In	115	430058.841	430058.84				ug/L
L	Sb	123	66748.551	0.15	20.0756	0.250	1.244	ug/L
⌈	Ba	135	22424.303	0.05	19.1624	2.055	10.722	ug/L
|	Ce	140	0.000	0.00				ug/L
L>	Tb	159	469993.546	469993.55				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	122209.876	122108.21	20.1198	0.196	0.974	ug/L
|	Tl	205	294556.956	294301.95	20.0758	0.260	1.293	ug/L
|	Pb	206	103241.353	103058.00	20.1730	0.535	2.654	ug/L
|	Pb	207	87140.350	87023.67	20.0772	0.209	1.040	ug/L
|	Pb	208	594576.467	593594.05	20.1140	0.227	1.126	ug/L
L>	Bi	209	437284.623	437284.62				ug/L
⌈	Na	23	5468757.968	34.04	1.9822	0.175	8.804	mg/L
|	Mg	24	4030409.041	26.12	2.0574	0.125	6.051	mg/L
|	K	39	10085153.113	63.18	1.9760	0.303	15.329	mg/L
|	Ca	43	13011.888	0.08	1.7489	0.260	14.879	mg/L
|	Fe	54	788192.077	4.93	1.9881	0.142	7.148	mg/L
|	Fe	57	321799.009	2.02	1.9951	0.089	4.456	mg/L

⌊>	Sc	45	152958.310	152958.31	mg/L
	Cl	35	16690.459	1339.14	mg/L
	Kr	83	63.334	3.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, May 21, 2001 14:47:08

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, May 21, 2001 14:49:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13346.226	-3674.36				ug/L
⌈	Be	9	19111.396	0.15	100.4763	4.132	4.112	ug/L
|	Al	27	205268.803	1.26	107.3619	21.741	20.250	ug/L
|>	Sc-1	45	126108.724	126108.72				ug/L
⌈	V	51	506136.961	1.25	100.0562	1.331	1.330	ug/L
|	Cr	52	456442.992	1.12	100.1982	0.534	0.533	ug/L
|	Cr	53	57905.698	0.14	99.8265	19.630	19.664	ug/L
|	Mn	55	747713.811	1.85	100.0121	1.961	1.961	ug/L
|	Co	59	624529.935	1.55	100.1128	2.424	2.421	ug/L
|	Ni	60	135372.526	0.34	100.0434	2.981	2.980	ug/L
|	Cu	65	142176.496	0.35	99.8195	2.898	2.903	ug/L
|	Zn	66	94287.256	0.23	98.7086	6.906	6.997	ug/L
|>	Ge	72	403333.423	403333.42				ug/L
|	As	75	108408.897	0.27	100.0794	0.536	0.535	ug/L
|	Se	77	9767.342	0.02	100.0461	2.809	2.808	ug/L
⌊	Se	82	12791.796	0.03	100.0121	0.934	0.934	ug/L
	Y	89	352539.224	-13277.96				ug/L
⌈	Rh	103	667.367	0.00				ug/L
|	Ag	107	610216.327	1.46	100.1686	1.129	1.127	ug/L
|	Cd	114	337589.302	0.81	100.0282	0.543	0.543	ug/L
|>	In	115	418414.297	418414.30				ug/L
⌊	Sb	123	334539.067	0.80	100.1949	2.399	2.394	ug/L
⌈	Ba	135	119544.076	0.24	99.9125	9.054	9.062	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	490710.684	490710.68				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	604132.359	604030.69	99.9773	0.576	0.576	ug/L
|	Tl	205	1454227.453	1453972.45	99.9608	0.692	0.692	ug/L
|	Pb	206	506652.812	506469.46	99.9586	0.704	0.705	ug/L
|	Pb	207	427454.436	427337.76	99.9320	1.118	1.119	ug/L
|	Pb	208	2920360.085	2919377.67	99.9482	0.520	0.521	ug/L
|>	Bi	209	420135.990	420135.99				ug/L
⌈	Na	23	26102812.021	206.27	10.0804	1.167	11.577	mg/L
|	Mg	24	17369080.800	137.83	10.0378	1.152	11.476	mg/L
|	K	39	47195802.812	372.27	10.0676	0.830	8.244	mg/L
|	Ca	43	71700.049	0.57	10.0888	2.142	21.233	mg/L
|	Fe	54	4297940.123	34.06	10.1315	1.198	11.821	mg/L
|	Fe	57	1610730.378	12.79	10.1000	1.322	13.092	mg/L

⌊>	Sc	45	126108.724	126108.72	mg/L
	Cl	35	19359.830	4008.51	mg/L
	Kr	83	62.001	2.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, May 21, 2001 14:49:56

Corr. Coef.	Al	27	Correlation Coefficient not >0.995

Sample ID: Standard 3
Report Date/Time: Monday, May 21, 2001 14:49:56

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, May 21, 2001 14:54:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.059	-1670.52				ug/L
⌈	Be	9	8914.668	0.07	43.9290	7.996	18.202	ug/L
|	Al	27	141385.771	0.68	58.1682	6.999	12.032	ug/L
|>	Sc-1	45	133573.777	133573.78				ug/L
⌈	V	51	253526.824	0.62	49.7521	1.327	2.666	ug/L
|	Cr	52	224224.888	0.54	48.3873	2.006	4.146	ug/L
|	Cr	53	25713.537	0.06	43.3872	6.588	15.184	ug/L
|	Mn	55	362295.995	0.89	48.1726	2.029	4.211	ug/L
|	Co	59	308184.330	0.76	49.1063	1.903	3.875	ug/L
|	Ni	60	68629.861	0.17	50.4071	0.982	1.949	ug/L
|	Cu	65	72067.251	0.18	50.3235	2.467	4.901	ug/L
|	Zn	66	55884.681	0.14	58.2057	2.571	4.417	ug/L
|>	Ge	72	405571.768	405571.77				ug/L
|	As	75	53461.171	0.13	49.0846	0.699	1.425	ug/L
|	Se	77	5111.162	0.01	51.6940	0.998	1.931	ug/L
⌊	Se	82	6465.226	0.02	50.0945	1.184	2.364	ug/L
	Y	89	352507.401	-13309.78				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	298817.328	0.71	48.9344	1.370	2.799	ug/L
|	Cd	114	168726.816	0.40	49.8854	0.369	0.740	ug/L
|>	In	115	419273.567	419273.57				ug/L
⌊	Sb	123	162303.280	0.39	48.4038	0.461	0.953	ug/L
⌈	Ba	135	57017.043	0.13	53.3013	4.017	7.536	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	437729.958	437729.96				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	299635.078	299533.41	49.5779	0.385	0.777	ug/L
|	Tl	205	725849.312	725594.30	49.8847	0.192	0.384	ug/L
|	Pb	206	269801.016	269617.66	53.2127	0.389	0.732	ug/L
|	Pb	207	207957.851	207841.17	48.6032	0.498	1.025	ug/L
|	Pb	208	1473910.506	1472928.09	50.4274	0.365	0.724	ug/L
|>	Bi	209	426076.261	426076.26				ug/L
⌈	Na	23	12556507.040	92.30	4.5107	0.299	6.625	mg/L
|	Mg	24	9223690.200	68.92	5.0195	0.391	7.795	mg/L
|	K	39	23786684.617	174.90	4.7299	0.277	5.852	mg/L
|	Ca	43	34753.173	0.26	4.5840	1.140	24.871	mg/L
|	Fe	54	2207078.918	16.38	4.8740	0.915	18.778	mg/L
|	Fe	57	791632.016	5.86	4.6296	0.372	8.029	mg/L

└> Sc	45	133573.777	133573.78		mg/L
Cl	35	14014.482	-1336.84		mg/L
Kr	83	67.001	7.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9	87.858				
| Al	27	116.336				
|> Sc-1	45		94.699			
⌈ V	51	99.504				
| Cr	52	96.775				
| Cr	53	86.774				
| Mn	55	96.345				
| Co	59	98.213				
| Ni	60	100.814				
| Cu	65	100.647				
| Zn	66	116.411				
|> Ge	72		100.029			
| As	75	98.169				
| Se	77	103.388				
⌊ Se	82	100.189				
Y	89					
⌈ Rh	103					
| Ag	107	97.869				
| Cd	114	99.771				
|> In	115		100.292			
⌊ Sb	123	96.808				
⌈ Ba	135	106.603				
| Ce	140					
|> Tb	159		99.513			
⌈ Ho	165					
| Tl	203	99.156				
| Tl	205	99.769				
| Pb	206	106.425				
| Pb	207	97.206				
| Pb	208	100.855				
|> Bi	209		100.919			
⌈ Na	23	90.215				
| Mg	24	100.390				
| K	39	94.598				
| Ca	43	91.679				
| Fe	54	97.480				
| Fe	57	92.592				
|> Sc	45		94.699			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, May 21, 2001 14:55:05

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Zn	66	ICV is out of limits (+/-10%)
QC Std 1	Ca	43	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, May 21, 2001 14:59:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.365	-6011.22				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1666.877	-0.37	-31.5191	0.394	1.250	ug/L
⌊>	Sc-1	45	136968.857	136968.86				ug/L
⌈	V	51	1640.787	0.00	0.1591	0.175	109.869	ug/L
|	Cr	52	4505.931	-0.00	-0.0786	0.086	108.981	ug/L
|	Cr	53	1000.070	0.00	0.5812	0.011	1.955	ug/L
|	Mn	55	400.413	0.00	0.0356	0.023	64.114	ug/L
|	Co	59	66.734	-0.00	-0.0159	0.009	58.019	ug/L
|	Ni	60	100.102	-0.00	-0.0003	0.127	49666.735	ug/L
|	Cu	65	0.000	-0.00	-0.0233	0.000	0.000	ug/L
|	Zn	66	333.357	0.00	0.3505	0.607	173.205	ug/L
|>	Ge	72	404608.222	404608.22				ug/L
|	As	75	19.015	0.00	0.0124	0.008	63.314	ug/L
|	Se	77	60.000	-0.00	-0.1426	0.122	85.455	ug/L
⌊	Se	82	42.675	-0.00	-0.0229	0.079	342.653	ug/L
	Y	89	354264.169	-11553.02				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	-0.00	-0.0219	0.019	86.523	ug/L
|	Cd	114	32.369	-0.00	-0.0028	0.002	59.712	ug/L
|>	In	115	416573.433	416573.43				ug/L
⌊	Sb	123	701.485	0.00	0.0208	0.006	29.822	ug/L
⌈	Ba	135	0.000	-0.00	-0.0310	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	494215.790	494215.79				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	77.335	-24.33	-0.0040	0.002	43.942	ug/L
|	Tl	205	203.005	-52.00	-0.0036	0.003	86.687	ug/L
|	Pb	206	170.019	-13.33	-0.0026	0.008	300.001	ug/L
|	Pb	207	153.350	36.67	0.0086	0.008	95.779	ug/L
|	Pb	208	1003.751	21.34	0.0007	0.005	703.803	ug/L
⌊>	Bi	209	430640.624	430640.62				ug/L
⌈	Na	23	5669.211	-1.80	-0.0882	0.001	1.083	mg/L
|	Mg	24	82689.231	0.33	0.0241	0.076	315.729	mg/L
|	K	39	281437.716	-1.12	-0.0303	0.002	6.203	mg/L
|	Ca	43	0.000	-0.00	-0.0841	0.000	0.000	mg/L
|	Fe	54	16559.902	-0.12	-0.0359	0.009	23.798	mg/L
|	Fe	57	4668.207	-0.05	-0.0365	0.004	11.876	mg/L

Sc	45	136968.857	136968.86		mg/L
Cl	35	19360.955	4009.63		mg/L
Kr	83	63.001	3.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		97.106			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.792			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		99.646			
Sb	123					
Ba	135					
Ce	140					
Tb	159		112.355			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		102.000			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		97.106			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Monday, May 21, 2001 15:00:11

QC Std 2	Al	27	ICB is out of limits (+/-3*IDL)
QC Std 2	V	51	ICB is out of limits (+/-3*IDL)
QC Std 2	Co	59	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, May 21, 2001 15:04:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.025	-2672.56				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	27611028.786	207.21	17706.6696	1239.963	7.003	ug/L
⌊>	Sc-1	45	133578.145	133578.15				ug/L
⌈	V	51	2302.484	0.00	0.2824	0.200	70.878	ug/L
|	Cr	52	6309.100	0.00	0.2953	0.077	26.123	ug/L
|	Cr	53	1333.567	0.00	1.1211	2.624	234.068	ug/L
|	Mn	55	2803.376	0.01	0.3494	0.090	25.724	ug/L
|	Co	59	834.216	0.00	0.1045	0.010	9.361	ug/L
|	Ni	60	1134.567	0.00	0.7460	0.316	42.391	ug/L
|	Cu	65	1234.676	0.00	0.8265	0.107	12.896	ug/L
|	Zn	66	3334.407	0.01	3.4409	2.620	76.138	ug/L
| >	Ge	72	411652.284	411652.28				ug/L
|	As	75	68.494	0.00	0.0568	0.031	53.774	ug/L
|	Se	77	158.668	0.00	0.8440	0.108	12.844	ug/L
⌊	Se	82	51.754	0.00	0.0419	0.072	172.631	ug/L
	Y	89	342407.836	-23409.35				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	333.679	0.00	0.0220	0.050	226.269	ug/L
|	Cd	114	1172.329	0.00	0.3345	0.025	7.377	ug/L
| >	In	115	419541.901	419541.90				ug/L
⌊	Sb	123	761.243	0.00	0.0370	0.007	17.770	ug/L
⌈	Ba	135	166.837	0.00	0.1074	0.123	114.568	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	467582.165	467582.16				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	79.668	-22.00	-0.0036	0.001	18.370	ug/L
|	Tl	205	179.337	-75.67	-0.0052	0.002	30.435	ug/L
|	Pb	206	1010.173	826.82	0.1632	0.028	17.447	ug/L
|	Pb	207	836.799	720.12	0.1684	0.013	7.650	ug/L
|	Pb	208	5617.557	4635.14	0.1587	0.008	4.852	ug/L
⌊>	Bi	209	413417.590	413417.59				ug/L
⌈	Na	23	68281136.324	510.79	24.9626	2.042	8.180	mg/L
|	Mg	24	19541537.346	147.39	10.7337	1.635	15.232	mg/L
|	K	39	49083634.924	367.20	9.9306	1.270	12.784	mg/L
|	Ca	43	205601.924	1.55	27.5665	4.564	16.555	mg/L
|	Fe	54	11072033.748	83.18	24.7443	3.125	12.630	mg/L
|	Fe	57	4565096.663	34.27	27.0692	2.258	8.341	mg/L

|> Sc	45	133578.145	133578.15		mg/L
Cl	35	1789175.685	1773824.36		mg/L
Kr	83	81.335	21.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	177.067				
|>	Sc-1	45		94.702			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.529			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.356			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.300			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		97.920			
⌈	Na	23	99.851				
|	Mg	24	107.337				
|	K	39	99.306				
|	Ca	43	91.888				
|	Fe	54	98.977				
⌊	Fe	57	108.277				
⌊>	Sc	45		94.702			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Monday, May 21, 2001 15:05:21

QC Std 4	Al	27	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, May 21, 2001 15:09:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13680.050	-3340.53				ug/L
⌈	Be	9	33.367	0.00	0.1366	0.237	173.205	ug/L
|	Al	27	27788022.560	193.57	16540.9276	1216.720	7.356	ug/L
⌊>	Sc-1	45	144119.719	144119.72				ug/L
⌈	V	51	105641.412	0.25	19.7235	0.412	2.088	ug/L
|	Cr	52	95665.057	0.21	19.1053	0.501	2.624	ug/L
|	Cr	53	11008.617	0.02	17.0686	2.813	16.483	ug/L
|	Mn	55	161806.557	0.38	20.5643	0.580	2.820	ug/L
|	Co	59	124806.403	0.29	18.9964	0.873	4.596	ug/L
|	Ni	60	26944.391	0.06	18.8767	1.114	5.902	ug/L
|	Cu	65	29791.774	0.07	19.8740	0.744	3.744	ug/L
|	Zn	66	13015.396	0.03	12.9544	8.679	66.999	ug/L
| >	Ge	72	424206.110	424206.11				ug/L
|	As	75	10972.740	0.03	9.6265	0.225	2.340	ug/L
|	Se	77	1142.091	0.00	10.4454	0.506	4.846	ug/L
⌊	Se	82	1337.540	0.00	9.6210	0.187	1.940	ug/L
	Y	89	372169.632	6352.45				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	28116.824	0.06	4.4650	0.292	6.536	ug/L
|	Cd	114	34212.578	0.08	9.8691	0.030	0.304	ug/L
| >	In	115	429290.203	429290.20				ug/L
⌊	Sb	123	627.810	-0.00	-0.0071	0.012	166.593	ug/L
⌈	Ba	135	166.836	0.00	0.1229	0.120	97.686	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	461861.865	461861.86				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	76.668	-25.00	-0.0041	0.001	24.111	ug/L
|	Tl	205	166.004	-89.00	-0.0061	0.002	28.157	ug/L
|	Pb	206	763.450	580.10	0.1145	0.003	2.634	ug/L
|	Pb	207	750.115	633.44	0.1481	0.018	12.332	ug/L
|	Pb	208	4714.680	3732.27	0.1278	0.007	5.759	ug/L
⌊>	Bi	209	420984.928	420984.93				ug/L
⌈	Na	23	68281136.324	474.04	23.1665	1.480	6.390	mg/L
|	Mg	24	19737111.293	137.70	10.0279	0.959	9.568	mg/L
|	K	39	53048082.360	366.87	9.9214	0.718	7.236	mg/L
|	Ca	43	206616.280	1.45	25.7127	3.822	14.864	mg/L
|	Fe	54	11446030.606	79.63	23.6906	2.086	8.804	mg/L
|	Fe	57	4899762.112	34.29	27.0816	3.624	13.381	mg/L

Sc	45	144119.719	144119.72		mg/L
Cl	35	1890713.359	1875362.04		mg/L
Kr	83	76.335	16.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	165.409				
Sc-1	45		102.176			
V	51	98.618				
Cr	52	95.526				
Cr	53	85.343				
Mn	55	102.822				
Co	59	94.982				
Ni	60	94.383				
Cu	65	99.370				
Zn	66	129.544				
Ge	72		104.625			
As	75	96.265				
Se	77	104.454				
Se	82	96.210				
Y	89					
Rh	103					
Ag	107	89.300				
Cd	114	98.691				
In	115		102.688			
Sb	123					
Ba	135					
Ce	140					
Tb	159		105.000			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.713			
Na	23	92.666				
Mg	24	100.279				
K	39	99.214				
Ca	43	85.709				
Fe	54	94.762				
Fe	57	108.326				
Sc	45		102.176			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, May 21, 2001 15:10:31

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, May 21, 2001 15:14:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	10674.746	-6345.84				ug/L
⌈	Be	9	11320.275	0.08	51.7579	4.080	7.884	ug/L
|	Al	27	127805.016	0.50	42.4735	0.726	1.710	ug/L
|>	Sc-1	45	145471.686	145471.69				ug/L
⌈	V	51	267653.576	0.62	49.6635	1.204	2.425	ug/L
|	Cr	52	236141.108	0.54	48.1837	1.546	3.209	ug/L
|	Cr	53	24375.618	0.06	38.7619	6.684	17.244	ug/L
|	Mn	55	397554.256	0.93	49.9851	1.126	2.253	ug/L
|	Co	59	326829.896	0.76	49.2349	0.349	0.709	ug/L
|	Ni	60	68832.094	0.16	47.7908	1.590	3.328	ug/L
|	Cu	65	77632.419	0.18	51.2443	4.759	9.286	ug/L
|	Zn	66	51182.769	0.12	50.3880	0.908	1.802	ug/L
|>	Ge	72	429024.775	429024.78				ug/L
|	As	75	55573.787	0.13	48.2305	0.537	1.114	ug/L
|	Se	77	5301.967	0.01	50.6753	0.820	1.618	ug/L
⌊	Se	82	6813.067	0.02	49.8979	0.662	1.327	ug/L
	Y	89	385868.340	20051.16				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	307654.842	0.70	48.2831	1.383	2.865	ug/L
|	Cd	114	173818.877	0.40	49.2436	0.350	0.711	ug/L
|>	In	115	437564.075	437564.08				ug/L
⌊	Sb	123	166041.308	0.38	47.4455	0.448	0.944	ug/L
⌈	Ba	135	57084.414	0.12	48.3228	2.187	4.526	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	481716.019	481716.02				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	304039.710	303938.04	50.3069	0.522	1.038	ug/L
|	Tl	205	735344.507	735089.50	50.5375	0.389	0.769	ug/L
|	Pb	206	275167.060	274983.71	54.2718	0.191	0.351	ug/L
|	Pb	207	206901.361	206784.68	48.3561	0.788	1.630	ug/L
|	Pb	208	1490331.782	1489349.37	50.9896	0.504	0.988	ug/L
|>	Bi	209	436916.454	436916.45				ug/L
⌈	Na	23	13620912.866	92.47	4.5190	0.674	14.923	mg/L
|	Mg	24	9540837.141	65.90	4.7992	0.888	18.505	mg/L
|	K	39	27751132.053	187.85	5.0803	0.244	4.810	mg/L
|	Ca	43	39107.373	0.27	4.7365	0.782	16.515	mg/L
|	Fe	54	2443899.143	16.60	4.9390	0.330	6.685	mg/L
|	Fe	57	889687.457	6.05	4.7752	0.353	7.383	mg/L

|> Sc	45	145471.686	145471.69		mg/L
Cl	35	34753.362	19402.04		mg/L
Kr	83	62.668	3.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	103.516				
Al	27	84.947				
Sc-1	45		103.134			
V	51	99.327				
Cr	52	96.367				
Cr	53	77.524				
Mn	55	99.970				
Co	59	98.470				
Ni	60	95.582				
Cu	65	102.489				
Zn	66	100.776				
Ge	72		105.814			
As	75	96.461				
Se	77	101.351				
Se	82	99.796				
Y	89					
Rh	103					
Ag	107	96.566				
Cd	114	98.487				
In	115		104.667			
Sb	123	94.891				
Ba	135	96.646				
Ce	140					
Tb	159		109.513			
Ho	165					
Tl	203	100.614				
Tl	205	101.075				
Pb	206	108.544				
Pb	207	96.712				
Pb	208	101.979				
Bi	209		103.486			
Na	23	90.380				
Mg	24	95.984				
K	39	101.605				
Ca	43	94.730				
Fe	54	98.780				
Fe	57	95.504				
Sc	45		103.134			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, May 21, 2001 15:15:40

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, May 21, 2001 15:19:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.111	-4342.47				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1000.117	-0.37	-32.0354	0.522	1.630	ug/L
|>	Sc-1	45	153298.974	153298.97				ug/L
⌈	V	51	1229.450	0.00	0.0706	0.237	335.419	ug/L
|	Cr	52	4238.840	-0.00	-0.1668	0.106	63.840	ug/L
|	Cr	53	666.713	-0.00	-0.0303	0.974	3213.081	ug/L
|	Mn	55	233.571	0.00	0.0125	0.008	61.245	ug/L
|	Co	59	166.836	-0.00	-0.0007	0.009	1232.024	ug/L
|	Ni	60	0.000	-0.00	-0.0737	0.000	0.000	ug/L
|	Cu	65	33.367	-0.00	-0.0007	0.039	5802.563	ug/L
|	Zn	66	333.357	0.00	0.3372	0.584	173.205	ug/L
|>	Ge	72	417356.465	417356.46				ug/L
|	As	75	59.996	0.00	0.0485	0.012	25.482	ug/L
|	Se	77	62.000	-0.00	-0.1412	0.055	38.844	ug/L
⌊	Se	82	58.102	0.00	0.0843	0.051	60.665	ug/L
	Y	89	374231.460	8414.28				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.837	-0.00	-0.0060	0.034	560.241	ug/L
|	Cd	114	37.732	-0.00	-0.0015	0.003	223.914	ug/L
|>	In	115	428362.460	428362.46				ug/L
⌊	Sb	123	562.101	-0.00	-0.0259	0.010	38.056	ug/L
⌈	Ba	135	0.000	-0.00	-0.0310	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	449403.010	449403.01				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	96.002	-5.67	-0.0009	0.003	347.606	ug/L
|	Tl	205	243.673	-11.33	-0.0008	0.003	375.422	ug/L
|	Pb	206	183.354	0.00	0.0000	0.018	23700320.391	ug/L
|	Pb	207	123.347	6.67	0.0016	0.005	312.252	ug/L
|	Pb	208	962.748	-19.67	-0.0007	0.006	899.454	ug/L
⌊>	Bi	209	435519.950	435519.95				ug/L
⌈	Na	23	11008.897	-1.77	-0.0867	0.001	1.378	mg/L
|	Mg	24	2000.467	-0.28	-0.0202	0.001	5.053	mg/L
|	K	39	259717.066	-1.48	-0.0399	0.009	21.934	mg/L
|	Ca	43	0.000	-0.00	-0.0841	0.000	0.000	mg/L
|	Fe	54	14562.906	-0.15	-0.0437	0.007	15.012	mg/L
|	Fe	57	6671.197	-0.04	-0.0297	0.028	95.277	mg/L

> Sc	45	153298.974	153298.97		mg/L
Cl	35	21699.781	6348.46		mg/L
Kr	83	54.001	-5.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		108.684			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		102.936			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.466			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		102.167			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		103.155			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		108.684			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, May 21, 2001 15:20:46

QC Std 7	Al	27	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Ni	60	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBS LL WG97747-03

Sample Date/Time: Monday, May 21, 2001 15:25:05
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 500.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.365	-6011.22				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	43131.280	-0.08	-7250.6037	2408.268	33.215	ug/L
|>	Sc-1	45	145472.698	145472.70				ug/L
⌈	V	51	2343.184	0.00	293.0162	86.095	29.382	ug/L
|	Cr	52	6008.594	0.00	241.4409	255.191	105.695	ug/L
|	Cr	53	1000.117	0.00	568.7317	1724.844	303.279	ug/L
|	Mn	55	1201.308	0.00	140.8877	45.262	32.126	ug/L
|	Co	59	0.000	-0.00	-26.6085	0.000	0.000	ug/L
|	Ni	60	166.837	0.00	48.2449	152.441	315.974	ug/L
|	Cu	65	266.939	0.00	161.8135	39.747	24.563	ug/L
|	Zn	66	7003.478	0.02	7245.9433	1056.688	14.583	ug/L
|>	Ge	72	408357.235	408357.24				ug/L
|	As	75	7.702	0.00	1.9990	33.922	1696.951	ug/L
|	Se	77	74.667	0.00	1.4364	32.574	2267.725	ug/L
⌊	Se	82	46.849	0.00	6.8208	98.965	1450.923	ug/L
	Y	89	372477.224	6660.04				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-27.3881	9.548	34.861	ug/L
|	Cd	114	55.901	0.00	4.2155	24.207	574.227	ug/L
|>	In	115	421759.558	421759.56				ug/L
⌊	Sb	123	437.097	-0.00	-60.4730	6.187	10.231	ug/L
⌈	Ba	135	33.367	-0.00	-5.4687	44.141	807.162	ug/L
|	Ce	140	666.760	0.00				ug/L
|>	Tb	159	472996.860	472996.86				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	35.334	-66.33	-10.9795	0.506	4.606	ug/L
|	Tl	205	92.002	-163.01	-11.2067	0.248	2.212	ug/L
|	Pb	206	340.042	156.69	30.9246	17.095	55.279	ug/L
|	Pb	207	303.370	186.69	43.6572	11.772	26.964	ug/L
|	Pb	208	1950.863	968.45	33.1559	9.428	28.436	ug/L
|>	Bi	209	427331.652	427331.65				ug/L
⌈	Na	23	21030.962	-1.70	-83.1529	0.243	0.293	mg/L
|	Mg	24	4335.131	-0.26	-18.8737	1.847	9.788	mg/L
|	K	39	257912.513	-1.40	-37.8580	3.282	8.671	mg/L
|	Ca	43	0.000	-0.00	-84.1050			mg/L
|	Fe	54	39607.532	0.03	9.6146	5.506	57.262	mg/L
|	Fe	57	5335.528	-0.04	-34.0486	12.489	36.681	mg/L

> Sc	45	145472.698	145472.70		mg/L
Cl	35	24040.529	8689.21		mg/L
Kr	83	57.001	-2.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		103.135			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		100.716			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.886			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		107.531			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		101.216			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		103.135			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS LL WG97747-03
Report Date/Time: Monday, May 21, 2001 15:25:54

Al 27 Lower	Al	27
Co 59 Lower	Co	59
Ag 107 Lower	Ag	107
Sb 123 Lower	Sb	123
Ba 135 Lower	Ba	135
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
Mg 24 Lower	Mg	24
K 39 Lower	K	39
Ca 43 Lower	Ca	43
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: LCSS LL WG97747-04

Sample Date/Time: Monday, May 21, 2001 15:30:13
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): ~~500.000~~ 50 JYH 5/21/01
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: ~~40~~ 1 JYH 5/21/01
Batch ID:
User ID: JYH

Ran at 1X
divide by 10

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14347.979	-2672.60				ug/L
⌈	Be	9	19312.160	0.12	80617.3046	9072.251	11.253	ug/L
|	Al	27	259994.295	1.25	106985.4617	3708.737	3.467	ug/L
|>	Sc-1	45	159087.436	159087.44				ug/L
⌈	V	51	520049.815	1.23	98374.3804	1552.924	1.579	ug/L
|	Cr	52	472840.130	1.11	99312.2614	539.025	0.543	ug/L
|	Cr	53	55885.201	0.13	91989.1828	6953.242	7.559	ug/L
|	Mn	55	792286.479	1.88	101405.0337	1170.892	1.155	ug/L
|	Co	59	651421.563	1.55	99915.4340	3957.387	3.961	ug/L
|	Ni	60	139078.685	0.33	98353.7273	401.524	0.408	ug/L
|	Cu	65	154199.869	0.37	103615.0386	2933.188	2.831	ug/L
|	Zn	66	112895.911	0.27	113149.0847	15626.483	13.811	ug/L
|>	Ge	72	421525.476	421525.48				ug/L
|	As	75	110468.067	0.26	97581.6850	1058.320	1.085	ug/L
|	Se	77	10141.195	0.02	99374.1615	2105.786	2.119	ug/L
⌊	Se	82	13219.887	0.03	98890.7770	914.257	0.925	ug/L
	Y	89	377444.709	11627.52				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	531658.663	1.25	86197.1415	2940.532	3.411	ug/L
|	Cd	114	342431.444	0.81	100205.0520	1918.227	1.914	ug/L
|>	In	115	423756.893	423756.89				ug/L
⌊	Sb	123	330748.617	0.78	97808.6052	1585.707	1.621	ug/L
⌈	Ba	135	115745.081	0.25	103728.1102	12131.878	11.696	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	459821.786	459821.79				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	601388.881	601287.21	99523.2539	1059.303	1.064	ug/L
|	Tl	205	1469148.628	1468893.62	100986.6009	580.804	0.575	ug/L
|	Pb	206	530003.749	529820.40	104567.2637	1609.683	1.539	ug/L
|	Pb	207	424297.387	424180.71	99193.7170	1146.750	1.156	ug/L
|	Pb	208	2967085.858	2966103.44	101547.9182	1120.385	1.103	ug/L
|>	Bi	209	439440.394	439440.39				ug/L
⌈	Na	23	37431.404	-1.61	-78.7021	1.165	1.480	mg/L
|	Mg	24	1000.070	-0.28	-20.6701	0.019	0.093	mg/L
|	K	39	262404.030	-1.53	-41.3420	0.261	0.632	mg/L
|	Ca	43	0.000	-0.00	-84.1050			mg/L
|	Fe	54	24423.638	-0.09	-25.9719	16.866	64.941	mg/L
|	Fe	57	3668.091	-0.06	-45.3853	15.781	34.770	mg/L

L>	Sc	45	159087.436	159087.44		mg/L
	Cl	35	17020.863	1669.54		mg/L
	Kr	83	70.668	11.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		112.787			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		103.964			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		101.364			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		104.536			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		104.084			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		112.787			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS LL WG97747-04
Report Date/Time: Monday, May 21, 2001 15:31:02

Al 27 Upper, S, EEE	Al	27
Mn 55 Upper, S, EEE	Mn	55
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
Cd 114 Upper, S, EEE	Cd	114
Ba 135 Upper, S, EEE	Ba	135
Tl 205 Upper, S, EEE	Tl	205
Pb 206 Upper, S, EEE	Pb	206
Pb 208 Upper, S, EEE	Pb	208
Na 23 Lower	Na	23
Mg 24 Lower	Mg	24
K 39 Lower	K	39
Ca 43 Lower	Ca	43
Fe 54 Lower	Fe	54
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: 0529201 WG97747-02

Sample Date/Time: Monday, May 21, 2001 15:35:21
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.188	-2004.39				ug/L
⌈	Be	9	166.837	0.00	721.0698	641.061	88.904	ug/L
|	Al	27	10215859.408	65.20	5803405.3083	455957.974	7.857	ug/L
|>	Sc-1	45	156365.323	156365.32				ug/L
⌈	V	51	51766.440	0.13	10771.8409	117.363	1.090	ug/L
|	Cr	52	18810.322	0.04	3335.2613	397.822	11.928	ug/L
|	Cr	53	3667.717	0.01	5618.6365	2845.706	50.648	ug/L
|	Mn	55	532266.855	1.35	76010.2581	867.721	1.142	ug/L
|	Co	59	10752.170	0.03	1812.7790	61.324	3.383	ug/L
|	Ni	60	6442.693	0.02	5010.9295	452.547	9.031	ug/L
|	Cu	65	3571.130	0.01	2653.6049	39.821	1.501	ug/L
|	Zn	66	9339.731	0.02	10439.3599	2801.441	26.835	ug/L
|>	Ge	72	393520.150	393520.15				ug/L
|	As	75	2543.127	0.01	2501.3732	52.906	2.115	ug/L
|	Se	77	114.668	0.00	472.0359	83.814	17.756	ug/L
⌊	Se	82	70.182	0.00	216.6702	68.297	31.521	ug/L
	Y	89	536076.083	170258.90				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	533.891	0.00	58.2558	50.283	86.314	ug/L
|	Cd	114	411.295	0.00	115.5441	7.406	6.409	ug/L
|>	In	115	413579.977	413579.98				ug/L
⌊	Sb	123	1159.221	0.00	167.9598	3.643	2.169	ug/L
⌈	Ba	135	71662.585	0.16	68624.9625	9188.432	13.389	ug/L
|	Ce	140	561249.417	1.26				ug/L
⌊>	Tb	159	447692.857	447692.86				ug/L
⌈	Ho	165	8672.130	8672.13				ug/L
|	Tl	203	553.694	452.03	77.9353	7.576	9.721	ug/L
|	Tl	205	1329.137	1074.13	76.9235	4.620	6.007	ug/L
|	Pb	206	19839.498	19656.14	4041.0494	45.500	1.126	ug/L
|	Pb	207	15708.827	15592.15	3798.1137	64.040	1.686	ug/L
|	Pb	208	110963.668	109981.25	3922.2220	21.616	0.551	ug/L
⌊>	Bi	209	418885.448	418885.45				ug/L
⌈	Na	23	220357.766	-0.43	-22.0944	5.823	26.355	mg/L
|	Mg	24	4939563.606	31.46	2386.2743	268.475	11.251	mg/L
|	K	39	7156063.601	42.83	1206.6318	145.185	12.032	mg/L
|	Ca	43	359870.027	2.30	42573.7538	349.369	0.821	mg/L
|	Fe	54	1304838.971	8.12	2517.6378	155.921	6.193	mg/L
|	Fe	57	569717.677	3.58	2945.9980	481.733	16.352	mg/L

> Sc	45	156365.323	156365.32		mg/L
Cl	35	18022.755	2671.43		mg/L
Kr	83	87.668	28.00		mg/L
U	238	7337.396	7337.40		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		110.858			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		97.057			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		98.930			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		101.778			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.215			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		110.858			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0529201 WG97747-02
Report Date/Time: Monday, May 21, 2001 15:36:11
Page 2

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Al 27 Upper, S, EEE	Al	27
Na 23 Lower	Na	23
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0529201 DP WG97747-07

Sample Date/Time: Monday, May 21, 2001 15:40:30
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 500.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14682.879	-2337.70				ug/L
⌈	Be	9	66.734	0.00	310.4769	537.762	173.205	ug/L
|	Al	27	11720306.490	79.63	6805093.7604	43832.677	0.644	ug/L
|>	Sc-1	45	146488.189	146488.19				ug/L
⌈	V	51	56319.469	0.14	11310.1373	1212.036	10.716	ug/L
|	Cr	52	20315.902	0.04	3562.7034	344.342	9.665	ug/L
|	Cr	53	3667.624	0.01	5416.1235	1028.504	18.990	ug/L
|	Mn	55	707539.582	1.80	97367.7908	1847.241	1.897	ug/L
|	Co	59	13559.779	0.03	2209.8348	148.678	6.728	ug/L
|	Ni	60	5674.598	0.01	4244.9093	279.299	6.580	ug/L
|	Cu	65	4005.141	0.01	2871.0979	405.981	14.140	ug/L
|	Zn	66	19025.913	0.05	20499.2586	3908.234	19.065	ug/L
|>	Ge	72	392032.999	392033.00				ug/L
|	As	75	2732.510	0.01	2590.4655	43.319	1.672	ug/L
|	Se	77	109.334	0.00	401.0538	66.556	16.595	ug/L
⌊	Se	82	73.204	0.00	234.6980	94.663	40.334	ug/L
	Y	89	471046.928	105229.74				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	400.413	0.00	33.4873	29.513	88.132	ug/L
|	Cd	114	293.797	0.00	75.2594	3.108	4.130	ug/L
|>	In	115	415625.760	415625.76				ug/L
⌊	Sb	123	437.879	-0.00	-58.4095	4.043	6.922	ug/L
⌈	Ba	135	71022.161	0.15	62284.2789	6762.403	10.857	ug/L
|	Ce	140	621295.996	1.34				ug/L
|>	Tb	159	468665.047	468665.05				ug/L
⌈	Ho	165	7337.209	7337.21				ug/L
|	Tl	203	483.021	381.35	63.1204	4.766	7.551	ug/L
|	Tl	205	1160.439	905.43	62.2485	0.897	1.442	ug/L
|	Pb	206	24397.369	24214.01	4778.9653	62.517	1.308	ug/L
|	Pb	207	19114.116	18997.44	4442.5084	10.574	0.238	ug/L
|	Pb	208	135727.955	134745.54	4613.1666	35.537	0.770	ug/L
|>	Bi	209	421291.879	421291.88				ug/L
⌈	Na	23	198727.549	-0.49	-23.8970	1.939	8.115	mg/L
|	Mg	24	5161566.464	34.97	2546.7835	94.020	3.692	mg/L
|	K	39	7731262.448	49.61	1341.5710	61.077	4.553	mg/L
|	Ca	43	309230.769	2.11	37497.1940	2153.911	5.744	mg/L
|	Fe	54	1457780.799	9.71	2888.2617	124.507	4.311	mg/L
|	Fe	57	623096.131	4.18	3299.9627	246.495	7.470	mg/L

Sc	45	146488.189	146488.19			mg/L
Cl	35	19025.913	3674.59			mg/L
Kr	83	77.335	17.67			mg/L
U	238	9007.123	9007.12			mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		103.855			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		96.690			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		99.419			
Sb	123					
Ba	135					
Ce	140					
Tb	159		106.546			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.785			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		103.855			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sb 123 Lower	Sb	123
Na 23 Lower	Na	23
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0540402 WG97747-01

Sample Date/Time: Monday, May 21, 2001 15:45:39
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.485	-4342.10				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	23053439.098	142.58	12691956.9362	651207.647	5.131	ug/L
|>	Sc-1	45	161474.484	161474.48				ug/L
⌈	V	51	16767.780	0.04	3185.0702	673.198	21.136	ug/L
|	Cr	52	46933.929	0.10	9402.3048	269.562	2.867	ug/L
|	Cr	53	6002.568	0.01	9375.6091	1874.263	19.991	ug/L
|	Mn	55	2803.356	0.01	360.3191	32.147	8.922	ug/L
|	Co	59	533.887	0.00	58.7383	8.554	14.563	ug/L
|	Ni	60	1401.552	0.00	968.9421	385.623	39.798	ug/L
|	Cu	65	200.203	0.00	117.8351	1.507	1.279	ug/L
|	Zn	66	3334.127	0.01	3532.6429	648.000	18.343	ug/L
|>	Ge	72	415726.734	415726.73				ug/L
|	As	75	144.751	0.00	129.5785	31.341	24.187	ug/L
|	Se	77	80.000	0.00	42.3434	95.479	225.488	ug/L
⌊	Se	82	65.950	0.00	151.4122	43.290	28.591	ug/L
	Y	89	380202.847	14385.66				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	233.571	0.00	4.5041	9.336	207.281	ug/L
|	Cd	114	18.580	-0.00	-7.3589	1.221	16.591	ug/L
|>	In	115	430656.992	430656.99				ug/L
⌊	Sb	123	266.875	-0.00	-117.5329	6.475	5.509	ug/L
⌈	Ba	135	5106.933	0.01	4515.7047	218.351	4.835	ug/L
|	Ce	140	47497.392	0.10				ug/L
|>	Tb	159	478215.591	478215.59				ug/L
⌈	Ho	165	1666.877	1666.88				ug/L
|	Tl	203	70.001	-31.67	-5.4599	1.817	33.270	ug/L
|	Tl	205	179.671	-75.34	-5.3952	0.394	7.311	ug/L
|	Pb	206	18378.809	18195.46	3740.7507	154.328	4.126	ug/L
|	Pb	207	15317.946	15201.27	3702.8984	104.808	2.830	ug/L
|	Pb	208	106392.074	105409.66	3759.1868	73.597	1.958	ug/L
|>	Bi	209	432408.381	432408.38				ug/L
⌈	Na	23	34751.246	-1.63	-82.9943	1.235	1.488	mg/L
|	Mg	24	208360.206	1.00	76.0246	13.168	17.320	mg/L
|	K	39	332237.481	-1.12	-31.5794	1.954	6.187	mg/L
|	Ca	43	4669.235	0.02	446.1722	546.568	122.502	mg/L
|	Fe	54	383599.517	2.13	661.6071	112.600	17.019	mg/L
|	Fe	57	168982.910	0.97	798.5527	108.755	13.619	mg/L

|> Sc	45	161474.484	161474.48		mg/L
Cl	35	20362.519	5011.20		mg/L
Kr	83	80.335	20.67		mg/L
U	238	2333.917	2333.92		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		114.480			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.534			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		103.014			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		108.717			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		102.418			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		114.480			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540402 WG97747-01
Report Date/Time: Monday, May 21, 2001 15:46:29

Al 27 Upper, S, EEE	Al	27
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: 0540403 S WG97747-05

Sample Date/Time: Monday, May 21, 2001 15:50:48
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 500.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.085	-6011.50				ug/L
⌈	Be	9	2035.673	0.01	8620.9095	2494.866	28.940	ug/L
|	Al	27	21051197.027	131.17	11437618.4254	199436.267	1.744	ug/L
|>	Sc-1	45	160111.257	160111.26				ug/L
⌈	V	51	86972.715	0.20	16533.1634	539.437	3.263	ug/L
|	Cr	52	85527.375	0.19	17307.4704	200.939	1.161	ug/L
|	Cr	53	8004.669	0.02	12378.6407	3590.732	29.007	ug/L
|	Mn	55	88601.450	0.21	11482.6987	614.745	5.354	ug/L
|	Co	59	71022.194	0.17	11020.3396	477.380	4.332	ug/L
|	Ni	60	16736.393	0.04	11941.5847	1193.065	9.991	ug/L
|	Cu	65	17171.332	0.04	11689.0949	1688.774	14.447	ug/L
|	Zn	66	17020.863	0.04	17299.7423	3743.130	21.637	ug/L
|>	Ge	72	424393.814	424393.81				ug/L
|	As	75	9428.109	0.02	8438.3648	260.495	3.087	ug/L
|	Se	77	771.375	0.00	6947.3177	357.657	5.148	ug/L
⌊	Se	82	975.028	0.00	7054.1475	481.126	6.820	ug/L
	Y	89	397502.837	31685.65				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	63175.210	0.14	10088.3850	568.431	5.635	ug/L
|	Cd	114	34898.550	0.08	10083.5885	158.167	1.569	ug/L
|>	In	115	437378.187	437378.19				ug/L
⌊	Sb	123	13102.127	0.03	3643.8711	103.364	2.837	ug/L
⌈	Ba	135	17104.308	0.04	15482.3701	1272.086	8.216	ug/L
|	Ce	140	67658.179	0.15				ug/L
|>	Tb	159	458952.955	458952.96				ug/L
⌈	Ho	165	1000.070	1000.07				ug/L
|	Tl	203	64501.244	64399.58	10876.7596	99.138	0.911	ug/L
|	Tl	205	157281.901	157026.89	11015.9353	160.963	1.461	ug/L
|	Pb	206	80465.366	80282.01	16168.1097	92.140	0.570	ug/L
|	Pb	207	63786.636	63669.96	15192.9367	301.253	1.983	ug/L
|	Pb	208	448914.899	447932.49	15648.4460	151.706	0.969	ug/L
|>	Bi	209	435397.173	435397.17				ug/L
⌈	Na	23	36762.211	-1.62	-80.5916	1.827	2.267	mg/L
|	Mg	24	241692.514	1.22	90.6985	3.930	4.333	mg/L
|	K	39	380197.303	-0.80	-22.1385	1.163	5.253	mg/L
|	Ca	43	8338.260	0.05	859.4756	121.079	14.088	mg/L
|	Fe	54	525316.965	3.04	923.8559	155.751	16.859	mg/L
|	Fe	57	205927.137	1.21	972.9671	32.674	3.358	mg/L

└>	Sc	45	160111.257	160111.26	mg/L
	Cl	35	16686.337	1335.01	mg/L
	Kr	83	80.335	20.67	mg/L
	U	238	2333.777	2333.78	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		113.513			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.671			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		104.622			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		104.338			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		103.126			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		113.513			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540403 S WG97747-05
Report Date/Time: Monday, May 21, 2001 15:51:38

Al 27 Upper, S, EEE	Al	27
Na 23 Lower	Na	23
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: 0540404 SD WG97747-06

Sample Date/Time: Monday, May 21, 2001 15:55:58
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 500.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12344.287	-4676.30				ug/L
⌈	Be	9	2069.039	0.01	8477.7939	910.689	10.742	ug/L
|	Al	27	27788022.560	168.29	14674853.0033	458558.075	3.125	ug/L
|>	Sc-1	45	164887.524	164887.52				ug/L
⌈	V	51	110886.021	0.26	21235.2916	756.127	3.561	ug/L
|	Cr	52	101113.065	0.23	20768.8292	1312.677	6.320	ug/L
|	Cr	53	11342.721	0.03	18067.9669	4844.199	26.811	ug/L
|	Mn	55	86845.503	0.21	11309.1312	642.448	5.681	ug/L
|	Co	59	69775.409	0.16	10879.3753	325.291	2.990	ug/L
|	Ni	60	17605.977	0.04	12616.7211	705.011	5.588	ug/L
|	Cu	65	17104.245	0.04	11685.6691	569.107	4.870	ug/L
|	Zn	66	17688.557	0.04	18060.6173	691.084	3.826	ug/L
|>	Ge	72	422172.909	422172.91				ug/L
|	As	75	9816.977	0.02	8830.1468	124.312	1.408	ug/L
|	Se	77	820.047	0.00	7474.4726	253.713	3.394	ug/L
⌊	Se	82	1022.680	0.00	7457.5314	362.767	4.864	ug/L
	Y	89	392856.670	27039.49				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	67147.718	0.15	10850.1125	279.361	2.575	ug/L
|	Cd	114	35118.634	0.08	10260.4773	201.480	1.964	ug/L
|>	In	115	432574.114	432574.11				ug/L
⌊	Sb	123	12075.102	0.03	3381.9342	79.607	2.354	ug/L
⌈	Ba	135	17639.457	0.04	15251.8942	1304.697	8.554	ug/L
|	Ce	140	118309.811	0.25				ug/L
|>	Tb	159	481019.318	481019.32				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	65271.869	65170.20	11006.9142	91.374	0.830	ug/L
|	Tl	205	159365.796	159110.79	11162.1271	35.412	0.317	ug/L
|	Pb	206	90883.585	90700.23	18266.2496	137.128	0.751	ug/L
|	Pb	207	70045.447	69928.77	16686.4153	222.257	1.332	ug/L
|	Pb	208	502340.286	501357.87	17514.8529	118.353	0.676	ug/L
|>	Bi	209	433924.974	433924.97				ug/L
⌈	Na	23	36763.576	-1.62	-80.8062	3.147	3.895	mg/L
|	Mg	24	237899.298	1.16	86.0492	8.961	10.413	mg/L
|	K	39	387587.809	-0.83	-22.7780	1.347	5.916	mg/L
|	Ca	43	5002.078	0.03	460.6552	266.079	57.761	mg/L
|	Fe	54	2466855.480	14.73	4471.4463	122.652	2.743	mg/L
|	Fe	57	891856.423	5.35	4308.1705	380.716	8.837	mg/L

> Sc	45	164887.524	164887.52		mg/L
Cl	35	19025.632	3674.31		mg/L
Kr	83	75.334	15.67		mg/L
U	238	4001.447	4001.45		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		116.899			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		104.124			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		103.473			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		109.355			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		102.778			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		116.899			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540404 SD WG97747-06
Report Date/Time: Monday, May 21, 2001 15:56:48

Al 27 Upper, S, EEE	Al	27
Na 23 Lower	Na	23
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: 0540402 PS

Sample Date/Time: Monday, May 21, 2001 16:01:08
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13680.939	-3339.64				ug/L
⌈	Be	9	10986.153	0.07	46744.7047	4824.942	10.322	ug/L
|	Al	27	25133115.946	154.46	13749051.8031	866654.838	6.303	ug/L
|>	Sc-1	45	162154.022	162154.02				ug/L
⌈	V	51	296257.227	0.70	58023.0304	1136.457	1.959	ug/L
|	Cr	52	292071.709	0.68	63172.9226	695.764	1.101	ug/L
|	Cr	53	41789.036	0.10	70996.6485	5426.773	7.644	ug/L
|	Mn	55	417189.084	0.98	55342.6219	1776.230	3.210	ug/L
|	Co	59	342500.045	0.81	54444.7594	2601.627	4.778	ug/L
|	Ni	60	73853.519	0.17	54107.3122	1046.128	1.933	ug/L
|	Cu	65	80261.568	0.19	55904.0190	406.113	0.726	ug/L
|	Zn	66	56223.547	0.13	58375.4131	8185.460	14.022	ug/L
|>	Ge	72	423499.138	423499.14				ug/L
|	As	75	54094.860	0.13	49541.8986	288.457	0.582	ug/L
|	Se	77	4639.507	0.01	46705.6811	940.943	2.015	ug/L
⌊	Se	82	5999.032	0.01	46323.3888	617.947	1.334	ug/L
	Y	89	382393.436	16576.25				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	288744.222	0.67	48085.1331	2890.365	6.011	ug/L
|	Cd	114	171524.450	0.40	51553.6708	891.818	1.730	ug/L
|>	In	115	429678.411	429678.41				ug/L
⌊	Sb	123	170134.002	0.39	51580.4573	170.209	0.330	ug/L
⌈	Ba	135	64689.361	0.15	62932.2027	7145.790	11.355	ug/L
|	Ce	140	46152.556	0.11				ug/L
|>	Tb	159	440257.768	440257.77				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	316425.866	316324.20	54538.5744	1024.580	1.879	ug/L
|	Tl	205	772702.200	772447.19	55318.5739	552.490	0.999	ug/L
|	Pb	206	296945.871	296762.52	61010.5421	293.554	0.481	ug/L
|	Pb	207	232944.316	232827.64	56714.8188	888.559	1.567	ug/L
|	Pb	208	1648357.847	1647375.43	58749.7582	516.169	0.879	ug/L
|>	Bi	209	430632.951	430632.95				ug/L
⌈	Na	23	61262.864	-1.47	-74.7359	1.941	2.598	mg/L
|	Mg	24	194986.441	0.91	69.0651	9.308	13.477	mg/L
|	K	39	360920.478	-0.95	-26.8333	4.075	15.185	mg/L
|	Ca	43	9005.814	0.05	943.8863	213.635	22.634	mg/L
|	Fe	54	375484.824	2.07	642.5959	32.530	5.062	mg/L
|	Fe	57	160454.233	0.91	748.1590	56.212	7.513	mg/L

⌊> Sc	45	162154.022	162154.02		mg/L
Cl	35	15351.042	-0.28		mg/L
Kr	83	71.001	11.33		mg/L
U	238	3000.677	3000.68		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		114.962			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.451			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.780			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.088			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.998			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		114.962			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540402 PS
Report Date/Time: Monday, May 21, 2001 16:01:58

Al 27 Upper, S, EEE	Al	27
Na 23 Lower	Na	23
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: 0540402 SDL

Sample Date/Time: Monday, May 21, 2001 16:06:18
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 2500.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 50

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13348.098	-3672.48				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5282157.951	30.92	13762960.3379	1429758.345	10.388	ug/L
|>	Sc-1	45	170015.444	170015.44				ug/L
⌈	V	51	3852.595	0.01	2827.9923	2827.118	99.969	ug/L
|	Cr	52	14429.221	0.02	9908.6078	2446.201	24.688	ug/L
|	Cr	53	2333.777	0.00	13688.8059	9769.099	71.366	ug/L
|	Mn	55	700.738	0.00	361.7943	171.504	47.404	ug/L
|	Co	59	100.101	-0.00	-61.1289	77.366	126.562	ug/L
|	Ni	60	467.150	0.00	1288.4076	538.874	41.825	ug/L
|	Cu	65	166.837	0.00	444.2639	517.990	116.595	ug/L
|	Zn	66	5335.621	0.01	27114.8911	12947.272	47.750	ug/L
|>	Ge	72	433532.670	433532.67				ug/L
|	As	75	8.763	0.00	12.7170	45.525	357.988	ug/L
|	Se	77	73.334	-0.00	-289.5036	415.792	143.622	ug/L
⌊	Se	82	52.566	0.00	143.0505	217.323	151.921	ug/L
	Y	89	364760.678	-1056.51				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	-0.00	-89.3854	1.018	1.139	ug/L
|	Cd	114	28.413	-0.00	-22.7330	11.948	52.558	ug/L
|>	In	115	437000.043	437000.04				ug/L
⌊	Sb	123	395.882	-0.00	-400.7898	29.154	7.274	ug/L
⌈	Ba	135	1101.186	0.00	4576.4685	975.204	21.309	ug/L
|	Ce	140	10007.052	0.02				ug/L
|>	Tb	159	501467.753	501467.75				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	58.667	-43.00	-37.0697	8.284	22.346	ug/L
|	Tl	205	159.670	-95.34	-34.1377	12.182	35.685	ug/L
|	Pb	206	4421.824	4238.47	4356.8730	547.808	12.573	ug/L
|	Pb	207	3768.045	3651.37	4447.2071	507.250	11.406	ug/L
|	Pb	208	25666.864	24684.45	4401.5633	289.579	6.579	ug/L
|>	Bi	209	441620.795	441620.80				ug/L
⌈	Na	23	41455.923	-1.60	-407.0588	16.132	3.963	mg/L
|	Mg	24	50849.661	0.01	4.7200	25.182	533.512	mg/L
|	K	39	270415.442	-1.59	-223.9955	9.436	4.212	mg/L
|	Ca	43	2334.010	0.01	745.4507	1217.920	163.380	mg/L
|	Fe	54	90844.263	0.30	468.1209	184.483	39.409	mg/L
|	Fe	57	40450.558	0.16	665.0345	266.843	40.125	mg/L

\> Sc	45	170015.444	170015.44		mg/L
Cl	35	15350.386	-0.94		mg/L
Kr	83	68.668	9.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		120.535			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		106.925			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		104.532			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		114.004			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		104.600			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		120.535			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Co 59 Lower	Co	59
Se 77 Lower	Se	77
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, May 21, 2001 16:11:49
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 2500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.786	-6010.80				ug/L
⌈	Be	9	10953.121	0.06	42.8596	14.568	33.989	ug/L
|	Al	27	120003.090	0.32	27.6162	8.678	31.425	ug/L
|>	Sc-1	45	171715.657	171715.66				ug/L
⌈	V	51	285341.382	0.63	50.2209	0.431	0.857	ug/L
|	Cr	52	251362.050	0.54	48.6605	1.315	2.702	ug/L
|	Cr	53	35765.165	0.08	54.4686	22.024	40.434	ug/L
|	Mn	55	420398.608	0.93	50.1460	1.710	3.409	ug/L
|	Co	59	337381.126	0.75	48.2118	0.764	1.584	ug/L
|	Ni	60	72337.152	0.16	47.6400	2.680	5.626	ug/L
|	Cu	65	83434.182	0.18	52.2438	1.457	2.789	ug/L
|	Zn	66	62619.800	0.14	58.5560	16.164	27.605	ug/L
|>	Ge	72	452296.729	452296.73				ug/L
|	As	75	59586.549	0.13	49.0571	0.930	1.896	ug/L
|	Se	77	5586.184	0.01	50.6393	0.753	1.487	ug/L
⌊	Se	82	7272.176	0.02	50.5303	1.106	2.188	ug/L
	Y	89	416482.340	50665.16				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	321492.291	0.69	47.6455	0.592	1.243	ug/L
|	Cd	114	183567.236	0.40	49.1228	0.122	0.248	ug/L
|>	In	115	463215.877	463215.88				ug/L
⌊	Sb	123	174347.299	0.37	47.0610	0.401	0.851	ug/L
⌈	Ba	135	62568.884	0.13	52.4231	2.817	5.374	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	487455.307	487455.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	317669.456	317567.79	52.5629	0.158	0.301	ug/L
|	Tl	205	764995.230	764740.22	52.5760	0.515	0.979	ug/L
|	Pb	206	283295.102	283111.75	55.8760	1.321	2.363	ug/L
|	Pb	207	214628.529	214511.85	50.1631	0.809	1.613	ug/L
|	Pb	208	1544747.271	1543764.86	52.8525	0.830	1.571	ug/L
|>	Bi	209	457980.930	457980.93				ug/L
⌈	Na	23	13877066.604	79.51	3.8855	0.511	13.145	mg/L
|	Mg	24	10304632.690	60.17	4.3823	0.613	13.984	mg/L
|	K	39	28128698.476	161.65	4.3715	0.506	11.581	mg/L
|	Ca	43	44135.986	0.25	4.5149	0.458	10.143	mg/L
|	Fe	54	2284277.079	13.26	3.9453	1.061	26.905	mg/L
|	Fe	57	864078.451	4.98	3.9318	0.457	11.633	mg/L

Sc	45	171715.657	171715.66		mg/L
Cl	35	16352.326	1001.00		mg/L
Kr	83	59.334	-0.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	85.719				
Al	27	55.232				
Sc-1	45		121.740			
V	51	100.442				
Cr	52	97.321				
Cr	53	108.937				
Mn	55	100.292				
Co	59	96.424				
Ni	60	95.280				
Cu	65	104.488				
Zn	66	117.112				
Ge	72		111.553			
As	75	98.114				
Se	77	101.279				
Se	82	101.061				
Y	89					
Rh	103					
Ag	107	95.291				
Cd	114	98.246				
In	115		110.803			
Sb	123	94.122				
Ba	135	104.846				
Ce	140					
Tb	159		110.818			
Ho	165					
Tl	203	105.126				
Tl	205	105.152				
Pb	206	111.752				
Pb	207	100.326				
Pb	208	105.705				
Bi	209		108.475			
Na	23	77.709				
Mg	24	87.646				
K	39	87.430				
Ca	43	90.298				
Fe	54	78.906				
Fe	57	78.635				
Sc	45		121.740			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, May 21, 2001 16:12:38

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Pb	206	CCV is out of limits (+/-10%)
QC Std 6	Na	23	CCV is out of limits (+/-10%)
QC Std 6	Fe	54	CCV is out of limits (+/-10%)
Sc 45 Int Std for QC S	Sc	45	

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, May 21, 2001 16:16:56
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 2500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15018.435	-2002.15				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1000.117	-0.37	-32.0135	0.553	1.726	ug/L
⌊>	Sc-1	45	157043.126	157043.13				ug/L
⌈	V	51	1716.774	0.00	0.1426	0.213	149.599	ug/L
|	Cr	52	4873.202	-0.00	-0.0932	0.049	52.957	ug/L
|	Cr	53	1000.117	0.00	0.4223	1.578	373.706	ug/L
|	Mn	55	200.203	0.00	0.0066	0.012	184.459	ug/L
|	Co	59	66.734	-0.00	-0.0169	0.008	49.584	ug/L
|	Ni	60	0.000	-0.00	-0.0737	0.000	0.000	ug/L
|	Cu	65	66.734	0.00	0.0194	0.037	190.927	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	443942.430	443942.43				ug/L
|	As	75	54.518	0.00	0.0406	0.027	66.004	ug/L
|	Se	77	66.667	-0.00	-0.1345	0.056	41.436	ug/L
⌊	Se	82	60.479	0.00	0.0746	0.079	105.996	ug/L
	Y	89	389001.655	23184.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0278	0.009	31.658	ug/L
|	Cd	114	37.833	-0.00	-0.0020	0.002	119.151	ug/L
|>	In	115	450107.933	450107.93				ug/L
⌊	Sb	123	533.395	-0.00	-0.0419	0.010	23.265	ug/L
⌈	Ba	135	0.000	-0.00	-0.0310	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	466867.335	466867.33				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	73.334	-28.33	-0.0047	0.000	5.391	ug/L
|	Tl	205	181.337	-73.67	-0.0051	0.002	42.372	ug/L
|	Pb	206	176.687	-6.67	-0.0013	0.013	998.775	ug/L
|	Pb	207	160.018	43.34	0.0101	0.008	79.941	ug/L
|	Pb	208	1048.089	65.68	0.0022	0.004	179.325	ug/L
⌊>	Bi	209	453712.666	453712.67				ug/L
⌈	Na	23	6002.568	-1.81	-0.0884	0.000	0.417	mg/L
|	Mg	24	1667.063	-0.28	-0.0204	0.001	4.490	mg/L
|	K	39	267242.261	-1.47	-0.0399	0.003	6.900	mg/L
|	Ca	43	0.000	-0.00	-0.0841	0.000	0.000	mg/L
|	Fe	54	14880.462	-0.15	-0.0436	0.013	29.851	mg/L
|	Fe	57	4335.224	-0.05	-0.0415	0.018	44.441	mg/L

L> Sc	45	157043.126	157043.13		mg/L
Cl	35	13347.490	-2003.83		mg/L
Kr	83	64.001	4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		111.338			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		109.493			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		107.667			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		106.137			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		107.464			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		111.338			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, May 21, 2001 16:17:45
Page 2

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QC Std 7	Al	27	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Co	59	CCB is out of limits (+/-3*IDL)
QC Std 7	Ni	60	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0511010

Sample Date/Time: Monday, May 21, 2001 16:22:05
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 44
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.678	-1335.90				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	19359.549	-0.25	-54.0522	3.945	7.298	ug/L
|>	Sc-1	45	153668.570	153668.57				ug/L
⌈	V	51	560.048	-0.00	-0.1512	0.440	290.797	ug/L
|	Cr	52	5874.985	0.00	0.3792	0.438	115.454	ug/L
|	Cr	53	0.000	-0.00	-2.8881	0.000	0.000	ug/L
|	Mn	55	1301.420	0.00	0.3654	0.034	9.228	ug/L
|	Co	59	533.891	0.00	0.1345	0.108	80.560	ug/L
|	Ni	60	100.101	-0.00	-0.0099	0.001	9.452	ug/L
|	Cu	65	200.204	0.00	0.2717	0.286	105.182	ug/L
|	Zn	66	4001.447	0.01	9.8813	6.559	66.382	ug/L
|>	Ge	72	428582.882	428582.88				ug/L
|	As	75	10.079	0.00	0.0091	0.039	427.515	ug/L
|	Se	77	70.000	-0.00	-0.1986	0.280	140.737	ug/L
⌊	Se	82	57.856	0.00	0.1769	0.127	71.571	ug/L
	Y	89	384758.451	18941.27				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.102	-0.00	-0.0440	0.066	150.543	ug/L
|	Cd	114	18.294	-0.00	-0.0184	0.001	5.946	ug/L
|>	In	115	448367.325	448367.32				ug/L
⌊	Sb	123	493.719	-0.00	-0.1310	0.015	11.672	ug/L
⌈	Ba	135	467.149	0.00	0.9083	0.198	21.838	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	489286.616	489286.62				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	27.000	-74.67	-0.0309	0.001	2.679	ug/L
|	Tl	205	60.668	-194.34	-0.0334	0.002	6.516	ug/L
|	Pb	206	393.384	210.03	0.1036	0.022	21.473	ug/L
|	Pb	207	386.716	270.04	0.1579	0.047	29.937	ug/L
|	Pb	208	2394.257	1411.84	0.1208	0.025	20.302	ug/L
|>	Bi	209	443240.402	443240.40				ug/L
⌈	Na	23	87200.136	-1.26	-0.1542	0.018	11.607	mg/L
|	Mg	24	6002.848	-0.25	-0.0459	0.002	4.367	mg/L
|	K	39	270398.816	-1.39	-0.0937	0.023	24.389	mg/L
|	Ca	43	0.000	-0.00	-0.2103	0.000	0.000	mg/L
|	Fe	54	57400.153	0.14	0.1071	0.076	70.937	mg/L
|	Fe	57	6336.532	-0.04	-0.0792	0.031	39.566	mg/L

> Sc	45	153668.570	153668.57		mg/L
Cl	35	20697.092	5345.77		mg/L
Kr	83	58.667	-1.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		108.946			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		105.705			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		107.251			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		111.234			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		104.984			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		108.946			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0511010
Report Date/Time: Monday, May 21, 2001 16:22:55

Al 27 Lower	Al	27
Na 23 Lower	Na	23
Ca 43 Lower	Ca	43
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: 0511010 PS

Sample Date/Time: Monday, May 21, 2001 16:27:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 45
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18024.442	1003.86				ug/L
⌈	Be	9	10184.132	0.06	94.7442	10.944	11.551	ug/L
|	Al	27	171725.360	0.58	123.5761	15.101	12.220	ug/L
⌊>	Sc-1	45	178540.434	178540.43				ug/L
⌈	V	51	325930.388	0.73	146.6255	6.963	4.749	ug/L
|	Cr	52	296871.193	0.66	147.3824	3.211	2.179	ug/L
|	Cr	53	37432.580	0.08	145.6872	22.253	15.275	ug/L
|	Mn	55	486778.191	1.10	148.3313	8.203	5.530	ug/L
|	Co	59	395757.430	0.89	144.4978	2.645	1.830	ug/L
|	Ni	60	87452.632	0.20	147.1978	4.060	2.758	ug/L
|	Cu	65	92757.826	0.21	148.3982	6.031	4.064	ug/L
|	Zn	66	54213.962	0.12	129.4417	33.857	26.156	ug/L
|>	Ge	72	442533.835	442533.84				ug/L
|	As	75	56727.998	0.13	119.3273	1.094	0.917	ug/L
|	Se	77	4444.049	0.01	102.5918	1.349	1.315	ug/L
⌊	Se	82	5805.963	0.01	102.9159	2.558	2.486	ug/L
	Y	89	415761.033	49943.85				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	327703.772	0.70	120.7446	2.393	1.982	ug/L
|	Cd	114	186502.980	0.40	124.0680	0.674	0.543	ug/L
|>	In	115	465839.293	465839.29				ug/L
⌊	Sb	123	193049.473	0.41	129.5795	1.103	0.851	ug/L
⌈	Ba	135	74595.837	0.15	152.5628	3.983	2.611	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	499265.309	499265.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	365931.523	365829.85	151.3776	1.117	0.738	ug/L
|	Tl	205	884480.654	884225.65	151.9765	1.955	1.286	ug/L
|	Pb	206	325740.981	325557.63	160.6331	1.750	1.090	ug/L
|	Pb	207	258164.890	258048.21	150.8600	1.368	0.907	ug/L
|	Pb	208	1810836.278	1809853.86	154.9060	1.594	1.029	ug/L
⌊>	Bi	209	454865.318	454865.32				ug/L
⌈	Na	23	105442.731	-1.26	-0.1534	0.006	3.603	mg/L
|	Mg	24	5001.891	-0.26	-0.0477	0.002	3.547	mg/L
|	K	39	298275.195	-1.51	-0.1024	0.020	19.089	mg/L
|	Ca	43	0.000	-0.00	-0.2103	0.000	0.000	mg/L
|	Fe	54	56921.920	0.08	0.0581	0.039	67.100	mg/L
⌊	Fe	57	6670.916	-0.04	-0.0867	0.053	60.560	mg/L

⌊> Sc	45	178540.434	178540.43		mg/L
Cl	35	25378.916	10027.59		mg/L
Kr	83	62.001	2.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		126.579			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.145			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		111.430			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.503			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		107.737			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		126.579			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0511010 PS
Report Date/Time: Monday, May 21, 2001 16:28:27

Sc-1 45 Int Std for san	Sc-1	45
Na 23 Lower	Na	23
Ca 43 Lower	Ca	43
Fe 57 Lower	Fe	57
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0529201 PS

Sample Date/Time: Monday, May 21, 2001 16:32:46
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.681	-2671.90				ug/L
⌈	Be	9	100.101	0.00	482.8188	481.674	99.763	ug/L
|	Al	27	9742954.168	67.09	5971996.8407	381603.847	6.390	ug/L
|>	Sc-1	45	144446.240	144446.24				ug/L
⌈	V	51	47807.136	0.11	9565.9605	502.760	5.256	ug/L
|	Cr	52	18475.673	0.03	3096.8680	165.313	5.338	ug/L
|	Cr	53	1666.877	0.00	1782.9963	1033.495	57.964	ug/L
|	Mn	55	531549.192	1.30	73140.4879	587.398	0.803	ug/L
|	Co	59	9983.648	0.02	1618.9459	138.327	8.544	ug/L
|	Ni	60	6810.083	0.02	5103.6499	606.713	11.888	ug/L
|	Cu	65	3304.094	0.01	2362.5493	543.424	23.002	ug/L
|	Zn	66	14348.493	0.04	15452.7147	4343.928	28.111	ug/L
|>	Ge	72	408394.644	408394.64				ug/L
|	As	75	2481.154	0.01	2351.1013	82.485	3.508	ug/L
|	Se	77	106.001	0.00	333.8823	147.460	44.165	ug/L
⌊	Se	82	72.066	0.00	210.3096	75.102	35.710	ug/L
	Y	89	501028.223	135211.04				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	400.413	0.00	32.3264	28.873	89.318	ug/L
|	Cd	114	391.392	0.00	104.5433	4.934	4.720	ug/L
|>	In	115	430329.658	430329.66				ug/L
⌊	Sb	123	416.671	-0.00	-71.9717	5.337	7.415	ug/L
⌈	Ba	135	66171.207	0.14	58845.6496	4652.268	7.906	ug/L
|	Ce	140	525306.789	1.10				ug/L
|>	Tb	159	480416.226	480416.23				ug/L
⌈	Ho	165	8672.037	8672.04				ug/L
|	Tl	203	489.355	387.69	66.8424	2.107	3.152	ug/L
|	Tl	205	1237.786	982.78	70.3814	2.593	3.684	ug/L
|	Pb	206	20043.422	19860.07	4082.9736	66.055	1.618	ug/L
|	Pb	207	15815.739	15699.06	3824.1565	53.063	1.388	ug/L
|	Pb	208	110968.259	109985.84	3922.3857	22.949	0.585	ug/L
|>	Bi	209	426819.287	426819.29				ug/L
⌈	Na	23	203229.672	-0.44	-22.2889	12.035	53.994	mg/L
|	Mg	24	4989778.538	34.29	2601.2753	220.525	8.478	mg/L
|	K	39	7094119.110	45.94	1294.1947	29.890	2.310	mg/L
|	Ca	43	347283.888	2.40	44473.7186	3909.337	8.790	mg/L
|	Fe	54	1257141.554	8.47	2624.8023	301.755	11.496	mg/L
|	Fe	57	539647.230	3.66	3007.8332	18.900	0.628	mg/L

⌊> Sc	45	144446.240	144446.24		mg/L
Cl	35	16689.194	1337.87		mg/L
Kr	83	91.668	32.00		mg/L
U	238	6670.169	6670.17		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		102.407			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.725			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		102.936			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.218			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.095			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		102.407			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0529201 PS
Report Date/Time: Monday, May 21, 2001 16:33:36

Al 27 Upper, S, EEE	Al	27
Sb 123 Lower	Sb	123
Na 23 Lower	Na	23
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0529201 SDL

Sample Date/Time: Monday, May 21, 2001 16:38:03
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 2500.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 50

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.094	-2004.49				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1870037.905	12.29	5250807.0766	1690396.091	32.193	ug/L
|>	Sc-1	45	148530.716	148530.72				ug/L
⌈	V	51	11901.461	0.03	10290.9503	463.621	4.505	ug/L
|	Cr	52	8413.385	0.01	3437.6199	856.373	24.912	ug/L
|	Cr	53	1333.473	0.00	5176.1079	4708.298	90.962	ug/L
|	Mn	55	107984.224	0.25	68093.5072	1619.901	2.379	ug/L
|	Co	59	2069.037	0.00	1432.5673	158.211	11.044	ug/L
|	Ni	60	1301.423	0.00	4182.2930	986.041	23.577	ug/L
|	Cu	65	567.258	0.00	1763.4333	502.413	28.491	ug/L
|	Zn	66	6669.888	0.02	32958.9232	7486.722	22.715	ug/L
|>	Ge	72	427339.220	427339.22				ug/L
|	As	75	545.067	0.00	2350.8005	185.226	7.879	ug/L
|	Se	77	66.667	-0.00	-552.9647	163.528	29.573	ug/L
⌊	Se	82	56.225	0.00	298.5020	220.029	73.711	ug/L
	Y	89	434153.429	68336.25				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	-0.00	-112.6507	44.905	39.862	ug/L
|	Cd	114	75.529	0.00	43.2753	3.907	9.027	ug/L
|>	In	115	444669.333	444669.33				ug/L
⌊	Sb	123	150.579	-0.00	-740.4469	35.339	4.773	ug/L
⌈	Ba	135	14395.604	0.03	59493.7070	6982.409	11.736	ug/L
|	Ce	140	114584.895	0.23				ug/L
|>	Tb	159	495370.246	495370.25				ug/L
⌈	Ho	165	2000.327	2000.33				ug/L
|	Tl	203	106.335	4.67	3.8621	6.941	179.712	ug/L
|	Tl	205	269.008	14.00	4.8127	8.938	185.716	ug/L
|	Pb	206	4194.985	4011.63	3958.7495	105.590	2.667	ug/L
|	Pb	207	3361.133	3244.45	3793.5410	420.358	11.081	ug/L
|	Pb	208	23400.792	22418.38	3837.5930	166.498	4.339	ug/L
|>	Bi	209	453323.046	453323.05				ug/L
⌈	Na	23	48170.917	-1.52	-372.1996	21.647	5.816	mg/L
|	Mg	24	825822.630	5.28	1923.3706	146.799	7.632	mg/L
|	K	39	1455623.920	6.65	899.6382	145.829	16.210	mg/L
|	Ca	43	79785.394	0.53	47566.2497	9817.759	20.640	mg/L
|	Fe	54	295785.994	1.75	2603.2506	86.206	3.311	mg/L
|	Fe	57	122040.277	0.74	2931.5821	353.117	12.045	mg/L

Sc	45	148530.716	148530.72		mg/L
Cl	35	17688.791	2337.47		mg/L
Kr	83	67.001	7.33		mg/L
U	238	2000.327	2000.33		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		105.303			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		105.398			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		106.366			
Sb	123					
Ba	135					
Ce	140					
Tb	159		112.617			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		107.372			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		105.303			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0529201 SDL
Report Date/Time: Monday, May 21, 2001 16:38:53

Al 27 Upper, S, EEE	Al	27
Se 77 Lower	Se	77
Ag 107 Lower	Ag	107
Sb 123 Lower	Sb	123
Na 23 Lower	Na	23

Method 6020 - Summary Report

Sample ID: 0529201 PS

Sample Date/Time: Monday, May 21, 2001 16:43:12
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11343.143	-5677.44				ug/L
⌈	Be	9	9282.093	0.07	46092.4093	7521.416	16.318	ug/L
|	Al	27	9806561.305	71.71	6383453.9652	1654318.958	25.916	ug/L
|>	Sc-1	45	141786.420	141786.42				ug/L
⌈	V	51	307365.079	0.77	63951.5388	3442.727	5.383	ug/L
|	Cr	52	249637.988	0.61	57243.2143	1979.335	3.458	ug/L
|	Cr	53	32407.636	0.08	58288.2181	8384.109	14.384	ug/L
|	Mn	55	936538.047	2.35	132027.1892	4016.604	3.042	ug/L
|	Co	59	332457.357	0.83	56139.1864	1187.953	2.116	ug/L
|	Ni	60	78642.170	0.20	61229.2825	1229.566	2.008	ug/L
|	Cu	65	75236.068	0.19	55672.9146	2318.155	4.164	ug/L
|	Zn	66	65298.568	0.16	72040.1603	5665.913	7.865	ug/L
|>	Ge	72	398650.641	398650.64				ug/L
|	As	75	54832.698	0.14	53349.4314	575.958	1.080	ug/L
|	Se	77	4488.077	0.01	48010.8810	853.752	1.778	ug/L
⌊	Se	82	5808.614	0.01	47668.4509	1356.368	2.845	ug/L
	Y	89	550814.934	184997.75				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	275692.919	0.65	46496.2320	1471.296	3.164	ug/L
|	Cd	114	167895.754	0.40	51126.0560	365.287	0.714	ug/L
|>	In	115	424042.727	424042.73				ug/L
⌊	Sb	123	168721.776	0.40	51830.5202	393.167	0.759	ug/L
⌈	Ba	135	129254.504	0.30	127938.9771	10270.461	8.028	ug/L
|	Ce	140	527105.799	1.23				ug/L
|>	Tb	159	430629.567	430629.57				ug/L
⌈	Ho	165	8672.925	8672.93				ug/L
|	Tl	203	316016.468	315914.80	54467.9886	123.793	0.227	ug/L
|	Tl	205	762641.238	762386.23	54598.0612	483.161	0.885	ug/L
|	Pb	206	291730.803	291547.45	59938.3915	774.981	1.293	ug/L
|	Pb	207	232919.654	232802.97	56708.8114	259.309	0.457	ug/L
|	Pb	208	1633832.887	1632850.47	58231.7598	194.068	0.333	ug/L
|>	Bi	209	425720.555	425720.55				ug/L
⌈	Na	23	197724.884	-0.40	-20.5362	17.484	85.139	mg/L
|	Mg	24	4825919.285	34.85	2643.7608	501.612	18.973	mg/L
|	K	39	7182611.240	49.23	1386.7689	295.868	21.335	mg/L
|	Ca	43	358092.303	2.63	48802.3621	12469.517	25.551	mg/L
|	Fe	54	1291108.695	9.24	2863.2038	690.938	24.132	mg/L
|	Fe	57	550783.751	3.96	3261.6037	772.850	23.695	mg/L

|> Sc	45	141786.420	141786.42		mg/L
Cl	35	15015.813	-335.51		mg/L
Kr	83	87.668	28.00		mg/L
U	238	8338.306	8338.31		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		100.522			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.322			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.432			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		97.899			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.834			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		100.522			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Mn 55 Upper, S, EEE	Mn	55
Ba 135 Upper, S, EEE	Ba	135
Na 23 Lower	Na	23
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, May 21, 2001 16:48:31
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13012.589	-4007.99				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	30796916.722	174.76	14934.0598	1378.545	9.231	ug/L
⌊>	Sc-1	45	176151.114	176151.11				ug/L
⌈	V	51	1289.648	0.00	0.0672	0.193	286.656	ug/L
|	Cr	52	7210.982	0.00	0.3832	0.338	88.159	ug/L
|	Cr	53	1666.923	0.00	1.5018	1.858	123.742	ug/L
|	Mn	55	2402.838	0.01	0.2753	0.099	35.938	ug/L
|	Co	59	1034.447	0.00	0.1249	0.046	36.518	ug/L
|	Ni	60	1067.814	0.00	0.6470	0.035	5.384	ug/L
|	Cu	65	1034.446	0.00	0.6394	0.159	24.943	ug/L
|	Zn	66	3334.500	0.01	3.1891	2.762	86.608	ug/L
|>	Ge	72	441955.429	441955.43				ug/L
|	As	75	53.258	0.00	0.0398	0.026	65.606	ug/L
|	Se	77	200.669	0.00	1.1301	0.124	11.005	ug/L
⌊	Se	82	60.646	0.00	0.0778	0.030	38.454	ug/L
	Y	89	400951.350	35134.17				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	300.307	0.00	0.0126	0.016	126.106	ug/L
|	Cd	114	1234.902	0.00	0.3240	0.007	2.132	ug/L
|>	In	115	455223.634	455223.63				ug/L
⌊	Sb	123	908.473	0.00	0.0598	0.009	15.415	ug/L
⌈	Ba	135	200.203	0.00	0.1410	0.009	6.210	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	476044.460	476044.46				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	80.668	-21.00	-0.0035	0.001	30.615	ug/L
|	Tl	205	182.004	-73.00	-0.0050	0.000	9.878	ug/L
|	Pb	206	963.495	780.14	0.1540	0.004	2.669	ug/L
|	Pb	207	866.806	750.13	0.1754	0.019	11.103	ug/L
|	Pb	208	5631.227	4648.81	0.1592	0.005	3.078	ug/L
⌊>	Bi	209	442767.907	442767.91				ug/L
⌈	Na	23	70668588.643	399.95	19.5459	0.980	5.015	mg/L
|	Mg	24	19853398.504	112.36	8.1831	0.576	7.034	mg/L
|	K	39	53425648.783	302.17	8.1719	1.439	17.610	mg/L
|	Ca	43	234134.230	1.33	23.7347	4.018	16.927	mg/L
|	Fe	54	12032450.874	68.12	20.2662	1.216	5.999	mg/L
|	Fe	57	4903011.291	27.91	22.0443	3.573	16.208	mg/L

⌊> Sc	45	176151.114	176151.11		mg/L
Cl	35	2107156.665	2091805.34		mg/L
Kr	83	87.001	27.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	149.341				
⌊>	Sc-1	45		124.885			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.003			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		108.891			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.224			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		104.872			
⌈	Na	23	78.184				
|	Mg	24	81.831				
|	K	39	81.719				
|	Ca	43	79.116				
|	Fe	54	81.065				
|	Fe	57	88.177				
⌊>	Sc	45		124.885			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Monday, May 21, 2001 16:49:21

QC Std 4	Al	27	ICSA is out of limits (+/-20%)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 4	Na	23	ICSA is out of limits (+/-20%)
QC Std 4	Ca	43	ICSA is out of limits (+/-20%)
Sc 45 Int Std for QC	SSc	45	

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, May 21, 2001 16:53:42
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	10674.746	-6345.84				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	31858879.368	191.78	16388.7454	970.977	5.925	ug/L
|>	Sc-1	45	166252.201	166252.20				ug/L
⌈	V	51	112984.413	0.25	19.8004	0.135	0.681	ug/L
|	Cr	52	109610.475	0.23	20.6277	0.478	2.319	ug/L
|	Cr	53	10674.746	0.02	15.4310	2.320	15.034	ug/L
|	Mn	55	164846.472	0.36	19.6654	0.983	4.999	ug/L
|	Co	59	138637.479	0.31	19.8127	0.761	3.839	ug/L
|	Ni	60	29825.658	0.07	19.6215	2.110	10.756	ug/L
|	Cu	65	32373.570	0.07	20.2438	3.201	15.813	ug/L
|	Zn	66	12010.088	0.03	11.2251	0.133	1.186	ug/L
|>	Ge	72	451948.807	451948.81				ug/L
|	As	75	11713.328	0.03	9.6475	0.216	2.237	ug/L
|	Se	77	1262.112	0.00	10.8621	0.314	2.889	ug/L
⌊	Se	82	1421.920	0.00	9.6011	0.327	3.402	ug/L
	Y	89	386895.622	21078.44				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	29624.221	0.06	4.4624	0.141	3.163	ug/L
|	Cd	114	36274.962	0.08	9.9209	0.137	1.379	ug/L
|>	In	115	452850.413	452850.41				ug/L
⌊	Sb	123	597.056	-0.00	-0.0252	0.012	47.722	ug/L
⌈	Ba	135	33.367	-0.00	-0.0040	0.047	1165.141	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	475336.965	475336.96				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	58.001	-43.67	-0.0072	0.002	24.127	ug/L
|	Tl	205	151.670	-103.34	-0.0071	0.001	9.198	ug/L
|	Pb	206	853.470	670.12	0.1323	0.020	14.951	ug/L
|	Pb	207	750.115	633.44	0.1481	0.012	7.895	ug/L
|	Pb	208	4967.404	3984.99	0.1364	0.010	7.277	ug/L
⌊>	Bi	209	442238.952	442238.95				ug/L
⌈	Na	23	73215204.449	439.66	21.4861	2.252	10.480	mg/L
|	Mg	24	20043686.669	120.66	8.7874	0.603	6.865	mg/L
|	K	39	58145229.064	348.38	9.4214	1.121	11.896	mg/L
|	Ca	43	245836.667	1.48	26.3296	2.713	10.303	mg/L
|	Fe	54	11838110.197	71.22	21.1862	1.604	7.570	mg/L
|	Fe	57	5123955.472	30.71	24.2543	0.806	3.323	mg/L

⌊> Sc	45	166252.201	166252.20		mg/L
Cl	35	2524997.973	2509646.65		mg/L
Kr	83	83.001	23.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	163.887				
⌊>	Sc-1	45		117.867			
⌈	V	51	99.002				
|	Cr	52	103.138				
|	Cr	53	77.155				
|	Mn	55	98.327				
|	Co	59	99.064				
|	Ni	60	98.107				
|	Cu	65	101.219				
|	Zn	66	112.251				
|>	Ge	72		111.468			
|	As	75	96.475				
|	Se	77	108.621				
⌊	Se	82	96.011				
	Y	89					
⌈	Rh	103					
|	Ag	107	89.248				
|	Cd	114	99.209				
|>	In	115		108.323			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.063			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		104.747			
⌈	Na	23	85.945				
|	Mg	24	87.874				
|	K	39	94.214				
|	Ca	43	87.765				
|	Fe	54	84.745				
|	Fe	57	97.017				
⌊>	Sc	45		117.867			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, May 21, 2001 16:54:32

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, May 21, 2001 16:58:51
Number of Replicates: 3
Allquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14015.466	-3005.12				ug/L
⌈	Be	9	9048.125	0.05	36.0452	1.218	3.379	ug/L
|	Al	27	117297.647	0.32	27.7040	6.137	22.152	ug/L
|>	Sc-1	45	166250.031	166250.03				ug/L
⌈	V	51	277628.850	0.61	48.6820	1.421	2.919	ug/L
|	Cr	52	250703.831	0.54	48.3501	0.607	1.255	ug/L
|	Cr	53	26716.647	0.06	40.1903	2.383	5.930	ug/L
|	Mn	55	421029.471	0.93	50.0317	0.477	0.954	ug/L
|	Co	59	344698.541	0.76	49.0767	1.859	3.789	ug/L
|	Ni	60	76955.547	0.17	50.4988	0.202	0.401	ug/L
|	Cu	65	80059.432	0.18	49.9409	1.724	3.453	ug/L
|	Zn	66	61940.128	0.14	57.6230	10.590	18.378	ug/L
|>	Ge	72	453941.564	453941.56				ug/L
|	As	75	58897.253	0.13	48.3077	0.926	1.917	ug/L
|	Se	77	5313.977	0.01	47.9592	1.223	2.549	ug/L
⌊	Se	82	7061.088	0.02	48.8675	0.260	0.533	ug/L
	Y	89	343095.500	-22721.68				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	310270.060	0.68	46.9281	2.368	5.046	ug/L
|	Cd	114	179999.596	0.40	49.1272	0.355	0.723	ug/L
|>	In	115	454208.115	454208.11				ug/L
⌊	Sb	123	171993.319	0.38	47.3533	0.637	1.344	ug/L
⌈	Ba	135	61727.355	0.13	51.1032	3.996	7.819	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	493872.809	493872.81				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	312706.967	312605.30	51.7415	0.579	1.119	ug/L
|	Tl	205	751587.042	751332.03	51.6542	0.115	0.223	ug/L
|	Pb	206	279685.294	279501.94	55.1635	0.769	1.395	ug/L
|	Pb	207	212070.085	211953.41	49.5648	0.710	1.433	ug/L
|	Pb	208	1523772.559	1522790.15	52.1344	0.120	0.230	ug/L
|>	Bi	209	451192.274	451192.27				ug/L
⌈	Na	23	14615684.665	86.32	4.2186	0.348	8.248	mg/L
|	Mg	24	10687851.911	64.33	4.6847	0.619	13.211	mg/L
|	K	39	28344029.326	167.75	4.5366	0.357	7.866	mg/L
|	Ca	43	40785.885	0.24	4.3104	1.066	24.735	mg/L
|	Fe	54	2335626.183	13.92	4.1416	0.877	21.172	mg/L
|	Fe	57	875012.473	5.19	4.1003	0.579	14.124	mg/L

|> Sc	45	166250.031	166250.03		mg/L
Cl	35	38101.538	22750.22		mg/L
Kr	83	72.334	12.67		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	72.090				
|	Al	27	55.408				
|>	Sc-1	45		117.865			
⌈	V	51	97.364				
|	Cr	52	96.700				
|	Cr	53	80.381				
|	Mn	55	100.063				
|	Co	59	98.153				
|	Ni	60	100.998				
|	Cu	65	99.882				
|	Zn	66	115.246				
|>	Ge	72		111.959			
|	As	75	96.615				
|	Se	77	95.918				
⌊	Se	82	97.735				
	Y	89					
⌈	Rh	103					
|	Ag	107	93.856				
|	Cd	114	98.254				
|>	In	115		108.648			
⌊	Sb	123	94.707				
⌈	Ba	135	102.206				
|	Ce	140					
|>	Tb	159		112.277			
⌈	Ho	165					
|	Tl	203	103.483				
|	Tl	205	103.308				
|	Pb	206	110.327				
|	Pb	207	99.130				
|	Pb	208	104.269				
|>	Bi	209		106.867			
⌈	Na	23	84.373				
|	Mg	24	93.693				
|	K	39	90.732				
|	Ca	43	86.209				
|	Fe	54	82.832				
|	Fe	57	82.006				
|>	Sc	45		117.865			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, May 21, 2001 16:59:41

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Pb	206	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)
QC Std 6	Fe	54	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, May 21, 2001 17:03:59
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18025.003	1004.42				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	2667.600	-0.36	-31.1562	1.639	5.261	ug/L
|>	Sc-1	45	159428.243	159428.24				ug/L
⌈	V	51	1951.645	0.00	0.1837	0.286	155.886	ug/L
|	Cr	52	5407.532	0.00	0.0150	0.260	1737.252	ug/L
|	Cr	53	666.713	-0.00	-0.1064	0.908	853.515	ug/L
|	Mn	55	233.572	0.00	0.0108	0.019	175.788	ug/L
|	Co	59	0.000	-0.00	-0.0266	0.000	0.000	ug/L
|	Ni	60	66.734	-0.00	-0.0291	0.039	132.824	ug/L
|	Cu	65	133.469	0.00	0.0629	0.099	157.544	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	443479.533	443479.53				ug/L
|	As	75	44.652	0.00	0.0323	0.015	45.176	ug/L
|	Se	77	73.334	-0.00	-0.0710	0.047	65.856	ug/L
⌊	Se	82	56.798	0.00	0.0481	0.085	176.084	ug/L
	Y	89	377032.489	11215.30				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	-0.00	-0.0174	0.016	89.569	ug/L
|	Cd	114	30.589	-0.00	-0.0040	0.002	55.698	ug/L
|>	In	115	448656.255	448656.25				ug/L
⌊	Sb	123	519.431	-0.00	-0.0454	0.007	15.190	ug/L
⌈	Ba	135	0.000	-0.00	-0.0310	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	492410.308	492410.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	89.335	-12.33	-0.0020	0.001	24.771	ug/L
|	Tl	205	223.339	-31.67	-0.0022	0.002	87.760	ug/L
|	Pb	206	170.019	-13.33	-0.0026	0.004	150.000	ug/L
|	Pb	207	150.017	33.34	0.0078	0.009	120.000	ug/L
|	Pb	208	1010.751	28.34	0.0010	0.005	498.803	ug/L
⌊>	Bi	209	457023.084	457023.08				ug/L
⌈	Na	23	10009.016	-1.78	-0.0872	0.002	2.179	mg/L
|	Mg	24	1666.877	-0.28	-0.0204	0.000	1.319	mg/L
|	K	39	251345.818	-1.60	-0.0433	0.002	3.912	mg/L
|	Ca	43	333.357	-0.00	-0.0452	0.067	148.808	mg/L
|	Fe	54	16533.704	-0.14	-0.0409	0.003	6.675	mg/L
|	Fe	57	4001.260	-0.06	-0.0435	0.010	21.929	mg/L

|> Sc	45	159428.243	159428.24		mg/L
Cl	35	17688.557	2337.23		mg/L
Kr	83	60.668	1.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		113.029			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.379			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		107.320			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		111.944			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		108.249			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		113.029			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, May 21, 2001 17:04:48

QC Std 7	Al	27	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Co	59	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0540401

Sample Date/Time: Monday, May 21, 2001 17:09:07
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 500.000
Autosampler Position: 37
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14683.254	-2337.33				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	28319003.883	188.42	15785867.5837	1752183.293	11.100	ug/L
|>	Sc-1	45	150573.677	150573.68				ug/L
⌈	V	51	56480.148	0.13	9901.4630	256.685	2.592	ug/L
|	Cr	52	38542.747	0.08	6640.5072	723.580	10.896	ug/L
|	Cr	53	2333.730	0.00	2523.2334	894.882	35.466	ug/L
|	Mn	55	23529.089	0.05	2814.4931	267.202	9.494	ug/L
|	Co	59	5006.765	0.01	696.1575	51.796	7.440	ug/L
|	Ni	60	3337.482	0.01	2147.9210	549.715	25.593	ug/L
|	Cu	65	333.676	0.00	188.0880	96.784	51.457	ug/L
|	Zn	66	8338.961	0.02	7859.3144	3822.990	48.643	ug/L
|>	Ge	72	439475.613	439475.61				ug/L
|	As	75	426.050	0.00	348.8948	29.144	8.353	ug/L
|	Se	77	89.334	0.00	84.9585	153.388	180.545	ug/L
⌊	Se	82	74.914	0.00	179.4034	37.411	20.853	ug/L
	Y	89	371414.645	5597.46				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	266.941	0.00	7.6074	31.038	408.002	ug/L
|	Cd	114	17.610	-0.00	-7.4388	0.877	11.788	ug/L
|>	In	115	452238.286	452238.29				ug/L
⌊	Sb	123	344.000	-0.00	-93.2525	4.436	4.758	ug/L
⌈	Ba	135	13927.569	0.03	11122.8822	1551.975	13.953	ug/L
|	Ce	140	86522.708	0.17				ug/L
|>	Tb	159	501349.779	501349.78				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	175.004	73.34	11.9003	1.717	14.431	ug/L
|	Tl	205	416.350	161.34	10.8748	0.742	6.828	ug/L
|	Pb	206	28359.020	28175.67	5451.8147	60.664	1.113	ug/L
|	Pb	207	23434.054	23317.37	5345.8003	58.754	1.099	ug/L
|	Pb	208	163810.585	162828.17	5465.3012	53.096	0.972	ug/L
|>	Bi	209	456970.427	456970.43				ug/L
⌈	Na	23	48167.057	-1.52	-73.0320	3.853	5.275	mg/L
|	Mg	24	317948.878	1.83	130.7454	19.584	14.979	mg/L
|	K	39	638674.336	1.07	28.4854	8.142	28.584	mg/L
|	Ca	43	3000.770	0.01	258.9924	177.305	68.460	mg/L
|	Fe	54	700464.401	4.43	1291.5487	137.960	10.682	mg/L
|	Fe	57	297051.871	1.90	1467.7649	63.802	4.347	mg/L

\> Sc	45	150573.677	150573.68		mg/L
Cl	35	21030.962	5679.64		mg/L
Kr	83	72.001	12.33		mg/L
U	238	3334.220	3334.22		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		106.751			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		108.391			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		108.177			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		113.977			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		108.236			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		106.751			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540401
Report Date/Time: Monday, May 21, 2001 17:09:56

Al 27 Upper, S, EEE	Al	27
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Na 23 Lower	Na	23

Method 6020 - Summary Report

Sample ID: 0540405

Sample Date/Time: Monday, May 21, 2001 17:14:15
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 500.000
Autosampler Position: 38
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15685.287	-1335.30				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	33628817.111	187.52	16024569.9499	1056333.747	6.592	ug/L
|>	Sc-1	45	179222.626	179222.63				ug/L
⌈	V	51	31162.959	0.07	5473.8716	359.678	6.571	ug/L
|	Cr	52	47102.911	0.09	8472.2112	924.764	10.915	ug/L
|	Cr	53	4668.207	0.01	6280.7757	955.156	15.208	ug/L
|	Mn	55	3704.670	0.01	435.4836	46.068	10.579	ug/L
|	Co	59	1334.795	0.00	169.0743	30.838	18.239	ug/L
|	Ni	60	2769.979	0.01	1797.5804	217.894	12.122	ug/L
|	Cu	65	400.415	0.00	232.8143	167.531	71.959	ug/L
|	Zn	66	4668.674	0.01	4475.4113	3078.872	68.795	ug/L
|>	Ge	72	441219.402	441219.40				ug/L
|	As	75	277.042	0.00	228.5146	31.115	13.616	ug/L
|	Se	77	90.667	0.00	96.1725	70.728	73.543	ug/L
⌊	Se	82	83.233	0.00	240.8105	48.274	20.046	ug/L
	Y	89	387588.873	21771.69				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	266.940	0.00	8.1255	23.884	293.936	ug/L
|	Cd	114	16.249	-0.00	-7.9038	2.098	26.549	ug/L
|>	In	115	448845.064	448845.06				ug/L
⌊	Sb	123	190.829	-0.00	-137.3149	5.153	3.753	ug/L
⌈	Ba	135	8814.273	0.02	7606.2016	264.934	3.483	ug/L
|	Ce	140	143426.661	0.31				ug/L
|>	Tb	159	470354.314	470354.31				ug/L
⌈	Ho	165	666.713	666.71				ug/L
|	Tl	203	74.668	-27.00	-4.4691	1.940	43.403	ug/L
|	Tl	205	184.671	-70.34	-4.8356	1.827	37.787	ug/L
|	Pb	206	29199.162	29015.81	5726.6646	136.457	2.383	ug/L
|	Pb	207	24668.323	24551.64	5741.3473	64.069	1.116	ug/L
|	Pb	208	169244.302	168261.89	5760.6367	71.828	1.247	ug/L
|>	Bi	209	450282.330	450282.33				ug/L
⌈	Na	23	42126.293	-1.61	-78.7035	2.308	2.932	mg/L
|	Mg	24	265204.267	1.19	86.4442	7.790	9.011	mg/L
|	K	39	551901.496	-0.09	-2.4838	7.724	310.978	mg/L
|	Ca	43	7671.079	0.04	675.0764	242.539	35.928	mg/L
|	Fe	54	262835.342	1.22	363.8845	31.767	8.730	mg/L
|	Fe	57	104763.579	0.50	398.1507	5.493	1.380	mg/L

⌊>	Sc	45	179222.626	179222.63		mg/L
	Cl	35	14682.036	-669.29		mg/L
	Kr	83	84.001	24.33		mg/L
	U	238	6670.169	6670.17		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		127.063			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.821			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		107.365			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.930			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		106.652			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		127.063			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540405
Report Date/Time: Monday, May 21, 2001 17:15:04

1311

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540406

Sample Date/Time: Monday, May 21, 2001 17:19:23
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 500.000
Autosampler Position: 39
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.059	-1670.52				ug/L
⌈	Be	9	66.734	0.00	263.5857	228.303	86.614	ug/L
|	Al	27	53629113.603	328.25	26971704.4462	649061.811	2.406	ug/L
⌊>	Sc-1	45	163176.731	163176.73				ug/L
⌈	V	51	96411.285	0.21	16466.5785	282.335	1.715	ug/L
|	Cr	52	94617.047	0.20	17250.2889	634.138	3.676	ug/L
|	Cr	53	9673.228	0.02	13558.0389	741.986	5.473	ug/L
|	Mn	55	4305.639	0.01	485.2113	107.194	22.092	ug/L
|	Co	59	1568.414	0.00	193.8053	55.482	28.628	ug/L
|	Ni	60	3137.159	0.01	1949.6838	56.132	2.879	ug/L
|	Cu	65	300.308	0.00	161.2853	106.027	65.739	ug/L
|	Zn	66	4668.487	0.01	4241.0080	2252.893	53.122	ug/L
| >	Ge	72	445297.795	445297.80				ug/L
|	As	75	296.631	0.00	233.9577	47.964	20.501	ug/L
|	Se	77	88.001	0.00	60.1222	55.012	91.501	ug/L
⌊	Se	82	68.291	0.00	124.1998	32.349	26.046	ug/L
	Y	89	366157.091	339.91				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	367.044	0.00	21.7911	21.872	100.372	ug/L
|	Cd	114	19.213	-0.00	-6.8798	1.035	15.050	ug/L
| >	In	115	453068.898	453068.90				ug/L
⌊	Sb	123	132.621	-0.00	-147.9528	3.281	2.217	ug/L
⌈	Ba	135	8480.244	0.02	6986.3795	967.168	13.844	ug/L
|	Ce	140	112560.362	0.24				ug/L
⌊>	Tb	159	474278.100	474278.10				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	71.001	-30.67	-4.8807	0.694	14.214	ug/L
|	Tl	205	161.670	-93.34	-6.1701	0.596	9.663	ug/L
|	Pb	206	27954.068	27770.71	5270.1234	119.301	2.264	ug/L
|	Pb	207	23527.709	23411.03	5264.0552	97.939	1.861	ug/L
|	Pb	208	162133.881	161151.47	5305.0033	43.478	0.820	ug/L
⌊>	Bi	209	446234.564	446234.56				ug/L
⌈	Na	23	54540.975	-1.51	-71.0519	0.598	0.841	mg/L
|	Mg	24	162163.489	0.70	49.2196	5.122	10.406	mg/L
|	K	39	458248.992	-0.37	-9.6029	2.336	24.322	mg/L
|	Ca	43	3334.500	0.02	272.8480	306.370	112.286	mg/L
|	Fe	54	474422.354	2.67	762.6714	6.641	0.871	mg/L
|	Fe	57	218980.297	1.26	957.7381	44.929	4.691	mg/L

\> Sc	45	163176.731	163176.73		mg/L
Cl	35	14682.036	-669.29		mg/L
Kr	83	82.001	22.33		mg/L
U	238	7671.360	7671.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		115.687			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		109.827			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		108.375			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		107.822			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		105.693			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		115.687			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540406
Report Date/Time: Monday, May 21, 2001 17:20:13

Al 27 Upper, S, EEE	Al	27
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: 0540407

Sample Date/Time: Monday, May 21, 2001 17:24:32
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 500.000
Autosampler Position: 40
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17354.827	334.25				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	35752742.402	218.31	17937603.3058	3280476.469	18.288	ug/L
⌊>	Sc-1	45	166618.264	166618.26				ug/L
⌈	V	51	51801.792	0.11	8709.2356	157.244	1.805	ug/L
|	Cr	52	47740.149	0.09	8126.8505	491.373	6.046	ug/L
|	Cr	53	5335.761	0.01	6925.5762	4586.295	66.223	ug/L
|	Mn	55	10284.414	0.02	1172.1347	137.372	11.720	ug/L
|	Co	59	1968.911	0.00	247.2145	38.430	15.545	ug/L
|	Ni	60	3337.493	0.01	2060.0436	598.758	29.065	ug/L
|	Cu	65	333.676	0.00	180.7154	94.875	52.500	ug/L
|	Zn	66	4668.394	0.01	4225.8876	1875.010	44.370	ug/L
|>	Ge	72	448540.484	448540.48				ug/L
|	As	75	484.394	0.00	381.7906	6.009	1.574	ug/L
|	Se	77	80.000	-0.00	-16.6271	35.024	210.643	ug/L
⌊	Se	82	64.907	0.00	97.8998	51.615	52.723	ug/L
	Y	89	405396.287	39579.10				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.836	-0.00	-7.6119	16.567	217.643	ug/L
|	Cd	114	19.549	-0.00	-6.8475	0.717	10.467	ug/L
|>	In	115	458149.346	458149.35				ug/L
⌊	Sb	123	105.784	-0.00	-155.4098	4.739	3.050	ug/L
⌈	Ba	135	11052.937	0.02	8954.0107	1179.896	13.177	ug/L
|	Ce	140	122712.017	0.25				ug/L
⌊>	Tb	159	486055.039	486055.04				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	120.669	19.00	3.0239	0.663	21.912	ug/L
|	Tl	205	276.008	21.00	1.3883	1.302	93.799	ug/L
|	Pb	206	22939.113	22755.76	4318.4218	192.334	4.454	ug/L
|	Pb	207	19157.572	19040.89	4281.4139	49.606	1.159	ug/L
|	Pb	208	132260.706	131278.29	4321.5974	73.673	1.705	ug/L
⌊>	Bi	209	451670.405	451670.41				ug/L
⌈	Na	23	127811.398	-1.07	-50.0934	7.561	15.094	mg/L
|	Mg	24	201833.020	0.95	66.6598	20.700	31.053	mg/L
|	K	39	643134.005	0.77	19.9164	21.413	107.517	mg/L
|	Ca	43	4668.628	0.02	426.8449	361.292	84.642	mg/L
|	Fe	54	900218.294	5.24	1499.7903	232.814	15.523	mg/L
⌊	Fe	57	364755.736	2.15	1632.2906	294.669	18.052	mg/L

Sc	45	166618.264	166618.26		mg/L
Cl	35	12010.088	-3341.23		mg/L
Kr	83	85.668	26.00		mg/L
U	238	7671.453	7671.45		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		118.127			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		110.627			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		109.591			
Sb	123					
Ba	135					
Ce	140					
Tb	159		110.500			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		106.981			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		118.127			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540407
Report Date/Time: Monday, May 21, 2001 17:25:21

Al 27 Upper, S, EEE	Al	27
Se 77 Lower	Se	77
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Na 23 Lower	Na	23

Method 6020 - Summary Report

Sample ID: 0540408

Sample Date/Time: Monday, May 21, 2001 17:29:40
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 500.000
Autosampler Position: 41
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16353.450	-667.13				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	17074368.161	96.99	7969718.0019	1128498.837	14.160	ug/L
|>	Sc-1	45	176494.052	176494.05				ug/L
⌈	V	51	18808.151	0.04	3062.1022	135.199	4.415	ug/L
|	Cr	52	25839.288	0.05	3924.1439	385.935	9.835	ug/L
|	Cr	53	1667.063	0.00	1385.4842	3107.527	224.292	ug/L
|	Mn	55	5107.009	0.01	574.1846	153.359	26.709	ug/L
|	Co	59	834.217	0.00	90.1522	16.788	18.621	ug/L
|	Ni	60	1368.171	0.00	805.2565	230.075	28.572	ug/L
|	Cu	65	367.044	0.00	200.1979	91.653	45.781	ug/L
|	Zn	66	4668.487	0.01	4226.8495	2287.305	54.114	ug/L
|>	Ge	72	448481.376	448481.38				ug/L
|	As	75	112.065	0.00	84.6510	20.709	24.464	ug/L
|	Se	77	77.334	-0.00	-40.0211	116.264	290.508	ug/L
⌊	Se	82	56.414	0.00	40.2780	45.701	113.464	ug/L
	Y	89	359846.882	-5970.30				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.836	-0.00	-7.1156	17.235	242.213	ug/L
|	Cd	114	20.399	-0.00	-6.5372	1.702	26.028	ug/L
|>	In	115	451448.892	451448.89				ug/L
⌊	Sb	123	95.160	-0.00	-157.8711	2.891	1.831	ug/L
⌈	Ba	135	8981.306	0.02	6704.5409	209.405	3.123	ug/L
|	Ce	140	58240.031	0.11				ug/L
|>	Tb	159	522812.134	522812.13				ug/L
⌈	Ho	165	666.713	666.71				ug/L
|	Tl	203	68.334	-33.33	-5.3052	0.512	9.644	ug/L
|	Tl	205	173.004	-82.00	-5.4209	1.342	24.753	ug/L
|	Pb	206	13961.710	13778.36	2614.7558	114.449	4.377	ug/L
|	Pb	207	11643.980	11527.30	2591.9555	14.655	0.565	ug/L
|	Pb	208	80100.309	79117.90	2604.5105	42.889	1.647	ug/L
|>	Bi	209	454223.543	454223.54				ug/L
⌈	Na	23	23038.403	-1.71	-80.5528	1.843	2.289	mg/L
|	Mg	24	85509.537	0.20	13.6901	2.262	16.525	mg/L
|	K	39	459348.090	-0.56	-14.6686	7.826	53.355	mg/L
|	Ca	43	2333.823	0.01	142.0224	133.889	94.273	mg/L
|	Fe	54	159386.504	0.66	189.3441	8.579	4.531	mg/L
|	Fe	57	50849.756	0.21	159.5609	46.936	29.416	mg/L

> Sc	45	176494.052	176494.05		mg/L
Cl	35	14015.044	-1336.28		mg/L
Kr	83	79.668	20.00		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		125.128			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		110.612			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		107.988			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		118.856			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		107.585			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		125.128			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Se 77 Lower	Se	77
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540409

Sample Date/Time: Monday, May 21, 2001 17:34:50
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 500.000
Autosampler Position: 42
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18358.031	1337.45				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	47965312.826	252.45	21150116.9304	954186.193	4.511	ug/L
|>	Sc-1	45	189823.381	189823.38				ug/L
⌈	V	51	129031.274	0.29	22441.7531	216.982	0.967	ug/L
|	Cr	52	94819.451	0.20	17560.1139	309.744	1.764	ug/L
|	Cr	53	8672.037	0.02	12248.1958	2479.697	20.245	ug/L
|	Mn	55	2369.430	0.00	263.0077	17.058	6.486	ug/L
|	Co	59	967.707	0.00	111.6326	55.941	50.112	ug/L
|	Ni	60	2603.100	0.01	1636.1312	485.409	29.668	ug/L
|	Cu	65	333.675	0.00	184.5024	71.909	38.975	ug/L
|	Zn	66	4334.944	0.01	4007.2318	2325.012	58.020	ug/L
|>	Ge	72	446976.276	446976.28				ug/L
|	As	75	983.062	0.00	798.5276	62.617	7.842	ug/L
|	Se	77	103.334	0.00	199.1456	98.214	49.318	ug/L
⌊	Se	82	100.074	0.00	345.2737	30.925	8.957	ug/L
	Y	89	405884.357	40067.17				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	600.636	0.00	57.9673	70.231	121.156	ug/L
|	Cd	114	18.653	-0.00	-7.1499	0.538	7.524	ug/L
|>	In	115	452193.174	452193.17				ug/L
⌊	Sb	123	72.862	-0.00	-167.0907	2.222	1.330	ug/L
⌈	Ba	135	8413.423	0.02	6906.5663	1698.684	24.595	ug/L
|	Ce	140	125430.329	0.25				ug/L
|>	Tb	159	495085.202	495085.20				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	61.668	-40.00	-6.4910	0.570	8.780	ug/L
|	Tl	205	158.337	-96.67	-6.5158	1.092	16.755	ug/L
|	Pb	206	24952.668	24769.31	4792.7069	37.572	0.784	ug/L
|	Pb	207	20347.643	20230.96	4638.2018	63.404	1.367	ug/L
|	Pb	208	143165.562	142183.15	4772.3544	55.760	1.168	ug/L
|>	Bi	209	447851.192	447851.19				ug/L
⌈	Na	23	44136.928	-1.61	-77.3351	0.908	1.174	mg/L
|	Mg	24	112214.800	0.30	21.5393	5.111	23.729	mg/L
|	K	39	536476.772	-0.35	-9.3345	5.097	54.608	mg/L
|	Ca	43	5001.797	0.02	378.6731	101.567	26.822	mg/L
|	Fe	54	5077139.543	26.53	7737.6448	501.833	6.486	mg/L
|	Fe	57	1831889.555	9.56	7406.4925	470.615	6.354	mg/L

> Sc	45	189823.381	189823.38		mg/L
Cl	35	11009.225	-4342.10		mg/L
Kr	83	78.001	18.33		mg/L
U	238	9339.451	9339.45		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		134.578			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		110.241			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		108.166			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		112.553			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		106.076			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		134.578			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540409
Report Date/Time: Monday, May 21, 2001 17:35:40

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540410 DP

Sample Date/Time: Monday, May 21, 2001 17:39:59
Number of Replicates: 3
Aliquot Volume (mL): 0.460
Diluted To Volume (mL): 500.000
Autosampler Position: 43
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14013.780	-3006.80				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	23186184.429	134.66	12508158.0898	81297.897	0.650	ug/L
|>	Sc-1	45	171706.461	171706.46				ug/L
⌈	V	51	31104.589	0.07	5844.6605	478.656	8.190	ug/L
|	Cr	52	38039.235	0.07	7085.8009	539.261	7.610	ug/L
|	Cr	53	3667.624	0.01	4991.6136	982.503	19.683	ug/L
|	Mn	55	2636.466	0.01	325.4941	59.205	18.189	ug/L
|	Co	59	967.708	0.00	123.0363	66.006	53.647	ug/L
|	Ni	60	2135.793	0.00	1465.4875	239.374	16.334	ug/L
|	Cu	65	333.675	0.00	203.8521	79.348	38.924	ug/L
|	Zn	66	4001.260	0.01	4103.4890	1789.075	43.599	ug/L
|>	Ge	72	448267.688	448267.69				ug/L
|	As	75	522.236	0.00	465.9925	12.917	2.772	ug/L
|	Se	77	84.667	0.00	28.5127	95.563	335.159	ug/L
⌊	Se	82	66.276	0.00	121.2300	50.967	42.041	ug/L
	Y	89	397080.457	31263.27				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	200.203	-0.00	-3.2268	16.225	502.797	ug/L
|	Cd	114	16.784	-0.00	-8.5583	3.113	36.380	ug/L
|>	In	115	459159.364	459159.36				ug/L
⌊	Sb	123	56.953	-0.00	-190.2932	3.094	1.626	ug/L
⌈	Ba	135	5440.874	0.01	4925.8250	659.678	13.392	ug/L
|	Ce	140	84161.002	0.17				ug/L
|>	Tb	159	486001.262	486001.26				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	44.667	-57.00	-10.2551	1.276	12.447	ug/L
|	Tl	205	109.002	-146.01	-10.9107	0.395	3.624	ug/L
|	Pb	206	19759.301	19575.95	4199.5430	188.258	4.483	ug/L
|	Pb	207	16594.264	16477.58	4188.3114	163.177	3.896	ug/L
|	Pb	208	114477.658	113495.24	4223.5201	109.622	2.596	ug/L
|>	Bi	209	450927.327	450927.33				ug/L
⌈	Na	23	45824.245	-1.58	-83.8542	4.958	5.912	mg/L
|	Mg	24	176852.254	0.74	58.7073	11.978	20.404	mg/L
|	K	39	436268.218	-0.64	-18.7084	3.143	16.798	mg/L
|	Ca	43	3000.770	0.01	245.7480	192.106	78.172	mg/L
|	Fe	54	817024.762	4.52	1462.3619	133.095	9.101	mg/L
|	Fe	57	319678.497	1.78	1529.7552	95.266	6.228	mg/L

L> Sc	45	171706.461	171706.46		mg/L
Cl	35	11342.394	-4008.93		mg/L
Kr	83	63.334	3.67		mg/L
U	238	6002.661	6002.66		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		121.734			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		110.560			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		109.832			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		110.487			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		106.805			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		121.734			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
Sb 123 Lower	Sb	123
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
Na 23 Lower	Na	23
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: ICSA

Sample Date/Time: Monday, May 21, 2001 17:45:09
Number of Replicates: 3
Aliquot Volume (mL): 1.000
Diluted To Volume (mL): 1.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11342.768	-5677.81				ug/L
⌈	Be	9	33.367	0.00	0.1316	0.228	173.205	ug/L
|	Al	27	32035873.142	190.30	16262.0584	371.234	2.283	ug/L
⌊>	Sc-1	45	167953.338	167953.34				ug/L
⌈	V	51	2827.837	0.00	0.3187	0.318	99.757	ug/L
|	Cr	52	7311.062	0.00	0.3301	0.112	33.920	ug/L
|	Cr	53	1333.520	0.00	0.8567	1.742	203.388	ug/L
|	Mn	55	2803.387	0.01	0.3069	0.098	31.795	ug/L
|	Co	59	834.219	0.00	0.0893	0.032	36.021	ug/L
|	Ni	60	967.702	0.00	0.5464	0.148	27.093	ug/L
|	Cu	65	900.959	0.00	0.5253	0.108	20.591	ug/L
|	Zn	66	3667.997	0.01	3.3355	2.642	79.199	ug/L
|>	Ge	72	465538.988	465538.99				ug/L
|	As	75	67.926	0.00	0.0489	0.118	241.065	ug/L
|	Se	77	220.670	0.00	1.2140	0.234	19.251	ug/L
⌊	Se	82	59.588	0.00	0.0483	0.122	253.727	ug/L
	Y	89	387238.332	21421.15				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	467.150	0.00	0.0366	0.023	62.112	ug/L
|	Cd	114	1281.226	0.00	0.3315	0.004	1.237	ug/L
|>	In	115	461968.302	461968.30				ug/L
⌊	Sb	123	498.053	-0.00	-0.0553	0.004	6.817	ug/L
⌈	Ba	135	66.734	0.00	0.0243	0.096	393.393	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	452264.742	452264.74				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	58.001	-43.67	-0.0072	0.002	22.901	ug/L
|	Tl	205	129.336	-125.67	-0.0086	0.001	9.949	ug/L
|	Pb	206	986.835	803.48	0.1586	0.030	19.056	ug/L
|	Pb	207	753.449	636.77	0.1489	0.021	14.253	ug/L
|	Pb	208	5467.196	4484.78	0.1535	0.016	10.201	ug/L
⌊>	Bi	209	445287.688	445287.69				ug/L
⌈	Na	23	79581743.967	472.66	23.0992	1.655	7.164	mg/L
|	Mg	24	21819709.538	129.63	9.4406	0.192	2.033	mg/L
|	K	39	56257396.951	331.67	8.9695	0.138	1.534	mg/L
|	Ca	43	242034.172	1.44	25.5686	0.664	2.598	mg/L
|	Fe	54	12396203.711	73.56	21.8837	0.291	1.330	mg/L
|	Fe	57	5257171.815	31.30	24.7226	2.548	10.308	mg/L

Sc	45	167953.338	167953.34		mg/L
Cl	35	2411445.912	2396094.59		mg/L
Kr	83	89.001	29.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		119.073			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		114.819			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		110.504			
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.818			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		105.469			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		119.073			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSA
Report Date/Time: Monday, May 21, 2001 17:45:59

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Monday, May 21, 2001 17:50:19
Number of Replicates: 3
Aliquot Volume (mL): 1.000
Diluted To Volume (mL): 1.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13012.730	-4007.85				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	32743848.239	189.50	16193.6804	1654.696	10.218	ug/L
|>	Sc-1	45	173424.764	173424.76				ug/L
⌈	V	51	116874.109	0.25	19.9986	1.446	7.232	ug/L
|	Cr	52	107312.459	0.22	19.6721	2.170	11.031	ug/L
|	Cr	53	15016.656	0.03	21.6397	6.643	30.698	ug/L
|	Mn	55	170924.314	0.37	19.9081	0.516	2.590	ug/L
|	Co	59	136970.067	0.30	19.1107	0.414	2.166	ug/L
|	Ni	60	32607.128	0.07	20.9468	1.823	8.702	ug/L
|	Cu	65	33411.679	0.07	20.4292	1.800	8.813	ug/L
|	Zn	66	11009.365	0.02	10.0575	4.017	39.937	ug/L
|>	Ge	72	462846.800	462846.80				ug/L
|	As	75	11980.309	0.03	9.6336	0.092	0.953	ug/L
|	Se	77	1334.792	0.00	11.2413	0.944	8.395	ug/L
⌊	Se	82	1460.457	0.00	9.6287	0.039	0.402	ug/L
	Y	89	387234.689	21417.51				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	30093.352	0.06	4.4514	0.142	3.187	ug/L
|	Cd	114	36902.600	0.08	9.9131	0.073	0.737	ug/L
|>	In	115	460982.710	460982.71				ug/L
⌊	Sb	123	462.384	-0.00	-0.0648	0.006	8.559	ug/L
⌈	Ba	135	166.837	0.00	0.1089	0.124	114.179	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	501427.495	501427.49				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	67.001	-34.67	-0.0057	0.001	12.574	ug/L
|	Tl	205	148.670	-106.34	-0.0073	0.001	9.467	ug/L
|	Pb	206	846.802	663.45	0.1309	0.016	12.553	ug/L
|	Pb	207	766.785	650.11	0.1520	0.009	6.218	ug/L
|	Pb	208	4993.409	4010.99	0.1373	0.006	4.489	ug/L
|>	Bi	209	438930.047	438930.05				ug/L
⌈	Na	23	75761820.256	435.90	21.3025	1.153	5.413	mg/L
|	Mg	24	21819709.538	125.88	9.1678	0.575	6.270	mg/L
|	K	39	55502264.106	318.04	8.6011	0.541	6.291	mg/L
|	Ca	43	288763.610	1.66	29.5169	0.575	1.947	mg/L
|	Fe	54	12396571.911	71.62	21.3078	1.940	9.106	mg/L
|	Fe	57	5481365.175	31.78	25.1032	3.295	13.127	mg/L

L> Sc	45	173424.764	173424.76		mg/L
Cl	35	2816385.364	2801034.04		mg/L
Kr	83	82.001	22.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		122.952			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
L>	Ge	72		114.155			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
L>	In	115		110.268			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		113.994			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		103.963			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		122.952			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSAB
Report Date/Time: Monday, May 21, 2001 17:51:10

Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
Na 23 Upper, S, EEE Na	23
Ca 43 Upper, S, EEE Ca	43
Fe 54 Upper, S, EEE Fe	54
Fe 57 Upper, S, EEE Fe	57
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Monday, May 21, 2001 17:55:29
Number of Replicates: 3
Aliquot Volume (mL): 1.000
Diluted To Volume (mL): 1.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17355.155	334.57				ug/L
⌈	Be	9	10217.603	0.06	38.6823	5.308	13.722	ug/L
|	Al	27	127124.994	0.34	29.4332	2.393	8.131	ug/L
⌊>	Sc-1	45	175123.956	175123.96				ug/L
⌈	V	51	303938.760	0.63	50.5532	0.308	0.610	ug/L
|	Cr	52	276559.925	0.57	50.6373	1.635	3.229	ug/L
|	Cr	53	35757.363	0.07	51.3334	8.193	15.959	ug/L
|	Mn	55	446541.553	0.93	50.3255	1.380	2.741	ug/L
|	Co	59	368704.777	0.77	49.7867	0.814	1.636	ug/L
|	Ni	60	80396.931	0.17	50.0394	1.955	3.907	ug/L
|	Cu	65	85932.751	0.18	50.8384	1.117	2.198	ug/L
|	Zn	66	69337.775	0.14	61.1875	6.941	11.343	ug/L
|>	Ge	72	478622.464	478622.46				ug/L
|	As	75	62168.397	0.13	48.3628	0.244	0.505	ug/L
|	Se	77	5785.009	0.01	49.5438	0.750	1.513	ug/L
⌊	Se	82	7524.436	0.02	49.3932	0.432	0.875	ug/L
	Y	89	386572.142	20754.96				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	343013.167	0.72	49.6325	0.789	1.590	ug/L
|	Cd	114	189733.396	0.40	49.5698	0.442	0.891	ug/L
|>	In	115	474478.111	474478.11				ug/L
⌊	Sb	123	178381.202	0.37	47.0064	0.667	1.420	ug/L
⌈	Ba	135	60953.072	0.12	48.7545	4.038	8.283	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	512136.050	512136.05				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	320736.414	320634.75	53.0705	0.155	0.292	ug/L
|	Tl	205	777657.844	777402.84	53.4465	1.051	1.967	ug/L
|	Pb	206	285092.906	284909.55	56.2308	0.365	0.649	ug/L
|	Pb	207	216524.376	216407.70	50.6065	0.552	1.092	ug/L
|	Pb	208	1553031.521	1552049.11	53.1362	0.268	0.504	ug/L
⌊>	Bi	209	465072.653	465072.65				ug/L
⌈	Na	23	15413989.035	86.33	4.2192	0.360	8.531	mg/L
|	Mg	24	10983855.722	62.68	4.5647	0.589	12.908	mg/L
|	K	39	30771663.433	173.11	4.6816	0.534	11.416	mg/L
|	Ca	43	47158.109	0.27	4.7367	0.993	20.966	mg/L
|	Fe	54	2360869.254	13.23	3.9352	0.515	13.076	mg/L
|	Fe	57	958719.663	5.41	4.2738	0.419	9.808	mg/L

\>	Sc	45	175123.956	175123.96		mg/L
	Cl	35	36426.463	21075.14		mg/L
	Kr	83	73.001	13.33		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		124.157			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		118.046			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		113.497			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		116.429			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		110.155			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		124.157			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sc-1 45 Int Std for sanSc-1	45
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Monday, May 21, 2001 18:00:36
Number of Replicates: 3
Aliquot Volume (mL): 1.000
Diluted To Volume (mL): 1.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14682.504	-2338.08				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3334.220	-0.36	-30.9093	0.929	3.005	ug/L
|>	Sc-1	45	180970.118	180970.12				ug/L
⌈	V	51	975.957	0.00	0.0003	0.065	22560.438	ug/L
|	Cr	52	5173.720	-0.00	-0.0898	0.086	95.773	ug/L
|	Cr	53	666.713	-0.00	-0.1609	0.861	535.218	ug/L
|	Mn	55	266.939	0.00	0.0129	0.013	103.950	ug/L
|	Co	59	33.367	-0.00	-0.0220	0.008	36.353	ug/L
|	Ni	60	0.000	-0.00	-0.0737	0.000	0.000	ug/L
|	Cu	65	33.367	-0.00	-0.0031	0.035	1113.309	ug/L
|	Zn	66	666.713	0.00	0.5978	0.518	86.606	ug/L
|>	Ge	72	469843.086	469843.09				ug/L
|	As	75	51.118	0.00	0.0353	0.030	85.900	ug/L
|	Se	77	79.334	-0.00	-0.0571	0.049	86.195	ug/L
⌊	Se	82	54.146	0.00	0.0084	0.060	717.195	ug/L
	Y	89	413671.015	47853.83				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	133.469	-0.00	-0.0131	0.017	130.201	ug/L
|	Cd	114	35.363	-0.00	-0.0030	0.003	98.754	ug/L
|>	In	115	466171.419	466171.42				ug/L
⌊	Sb	123	484.349	-0.00	-0.0602	0.013	20.987	ug/L
⌈	Ba	135	66.734	0.00	0.0269	0.100	372.822	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	501369.335	501369.33				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	87.335	-14.33	-0.0024	0.003	129.085	ug/L
|	Tl	205	215.672	-39.34	-0.0027	0.002	75.690	ug/L
|	Pb	206	233.361	50.01	0.0099	0.012	117.190	ug/L
|	Pb	207	183.354	66.67	0.0156	0.009	56.789	ug/L
|	Pb	208	1291.115	308.70	0.0106	0.002	14.847	ug/L
|>	Bi	209	463154.491	463154.49				ug/L
⌈	Na	23	7671.593	-1.80	-0.0880	0.001	1.561	mg/L
|	Mg	24	2333.823	-0.28	-0.0201	0.001	3.675	mg/L
|	K	39	268061.156	-1.67	-0.0451	0.011	25.038	mg/L
|	Ca	43	0.000	-0.00	-0.0841	0.000	0.000	mg/L
|	Fe	54	19548.323	-0.13	-0.0391	0.007	18.945	mg/L
|	Fe	57	4668.301	-0.05	-0.0422	0.009	22.256	mg/L

L> Sc	45	180970.118	180970.12		mg/L
Cl	35	20030.289	4678.97		mg/L
Kr	83	64.001	4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		128.301			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		115.881			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		111.510			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		113.981			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		109.701			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		128.301			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Lower	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Fe 54 Lower	Fe	54
Fe 57 Lower	Fe	57
Sc 45 Int Std for samp	Sc	45

Metals

Date: 5/23/01
Analyst: SKP
Method: 6010B
Instrument: IRIS ICP
Work Group: 98067, 97846, 98065

2nd Cal.

	Analyst
Calibration/Linearity	✓ X
ICV/CCV	✓ X
ICB/CCB	✓ X
icsa/icsab/cri	✓ X
Blank/LCS	✓ X
MS/MSD	✓ X
Postspike/Serial Dilution	✓ X
Duplicate	✓ X
Record Results	✓ X
Excel Spreadsheets	✓ X
Results Reporting / Data Qualifiers	X
Calculations & Correct Factors	X
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	✓ X
QA Approval - Seedpak 3	NA
Check for Completeness	X
Level IV Data	✓

5/18
05-273

5/25
05-404P

5/29
05-406
05-397
05-443

Primary Reviewer Initials & Date Checked SKP 5/23/01

Secondary Reviewer Initials & Date Checked [illegible] 5/24/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked NB 5/24

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1340

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST SLP DATE 05/23/01 TIME 2153
METHOD # 6010B SOP # ME600F Rev # 0 WORK GROUP # 97846, 98067, 98065
CAL STD SOURCE MI-9-47A ICV/CCV SOURCE MI-9-10-2A 5/23
ICS AB SOURCE MI-10-1B ICS A SOURCE MI-10-1A POST SPK SOURCE DSS-31-67
Instrument ID: TJA IRIS: _____ Data File: 20010523.1 Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	60				27.	05-404-07		0.99/50	
	61 1/100				28.	08		0.99/50	
	62 1/100				29.	09		1.01/50	
	63 1/4				30.	10		1.10/50	CCV|CCB
	64 1/2				31.	TCO5-443-01DL.5	0.5	5/50	
	65			ICV/(ICB x2)	32.	01SDL.5	1		
	ICSA				33.	01DL.2	0.2		
	ICSAB			CCV|CCB	34.	01SDL.2	1		CCV|CCB
1.	PBS 8H			WG97365-03	35.				
2.	LCSS 8H		1.00/50	04	36.				
3.	05-273-15		1.01/50	02	37.				
4.	16DP		1.01/50	07	38.				
5.	04		1.03/50	01	39.				
6.	04SDL.2	0.2			40.				
7.	04SDL.04	0.04			41.				
8.	04PS.9	0.9			42.				
9.	05S		0.97/50	05	43.				
10.	06SD		1.03/50	CCV|CCB/06	44.				
11.	01		1.02/50		45.				
12.	02		1.03/50		46.				
13.	03		1.09/50		47.				
14.	07		0.96/50		48.				
15.	08		1.10/50		49.				
16.	09		0.98/50		50.				
17.	12		0.95/50		51.				
18.	13		0.94/50		52.				
19.	14		0.99/50		53.				
20.	17		0.98/50	CCV|CCB	54.				
21.	18		1.09/50		55.				
22.BU	406-06		0.93/50		56.				
23.	397-01		1.01/50		57.				
24.	03		1.08/50		58.				
25.	404-05		0.99/50		59.				
26.	06		0.99/50		60.				

5/24/01

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/23/2001 Initial Calibration ID: _____

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Thallium	0.00	-0.006	0.250	0.7896	0.5	1.6641	1.000	3.4048			0.99982	

Comments:

_____

_____

_____

_____

AFCEE FORM I-3A

1342

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#:

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 5/23/01 Initial Calibration ID:

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5			r	Q
Cadmium	0	0.4959	0.001	0.5497	0.025	1.9339	0.05	3.2707	0.1	6.0218			0.99994	
Cobalt	0	-0.179	0.004	0.1932	0.1	7.9098	0.2	15.884	0.4	31.381			0.99995	
Copper	0	-0.069	0.01	-0.051	0.25	2.461	0.5	5.0996	1	9.9406			0.99980	
Magnesium	0	0.0416	0.2	0.1318	5	1.4419	10	3.0209	20	5.8341			0.99980	
Nickel	0	-0.137	0.01	0.5014	0.25	15.192	0.5	30.52	1	60.264			0.99997	
Selenium	0	0.0183	0.008	0.0308	0.2	0.628	0.4	1.3035	0.8	2.6711			0.99976	
Silver	0	-0.049	0.008	0.1595	0.2	2.9879	0.4	5.9795	0.8	11.987			0.99998	

r = correlation coefficient

Comments:

Forms by ChemSW(707)884-0845;v1.0;12/1/97

AFCEE FORM I-3B

1343

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#:

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 5/23/2001 Initial Calibration ID:

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Aluminum	0	0.1247	0.10	0.1803	0.20	0.2462	5.00	2.9705	10.00	5.8894	20.00	11.7060	0.99999	
Antimony	0	-0.0050	0.012	0.0433	0.02	0.1249	0.6	3.1266	1.2	6.3965	2.4	12.5770	0.99996	
Barium	0	0.9217	0.01	3.1302	0.02	5.0627	0.5	106.3900	1	217.1400	2	420.9700	0.99990	
Beryllium	0	0.0762	0.0005	0.3952	0.001	0.5895	0.025	14.6340	0.05	30.1960	0.1	59.4220	0.99995	
Calcium	0	0.2841	0.1	0.9255	0.2	1.6367	5	29.4000	10	59.5910	20	116.7300	0.99996	
Chromium	0	-0.7279	0.005	-0.1682	0.01	0.3082	0.25	25.4210	0.5	51.7130	1	104.4500	1.00000	
Iron	0	0.1674	0.04	0.5189	0.08	0.7488	2	15.7210	4	31.5900	8	63.0840	1.00000	
Manganese	0	-0.3736	0.005	3.6166	0.01	7.0981	0.25	186.4200	0.5	373.6800	1	739.2100	0.99998	
Potassium	0	-1.7397	0.5	1.3068	1	4.3703	25	155.1700	50	312.5400	100	628.6400	1.00000	
Sodium	0	-2.4028	0.5	8.0797	1	18.3280	25	519.0000	50	1031.7000	100	2026.2000	0.99994	
Vanadium	0	0.7577	0.01	0.9175	0.02	1.0033	0.5	7.2883	1	14.3630	2	27.3740	0.99992	
Zinc	0	0.1407	0.01	1.3533	0.02	2.6277	0.5	62.8330	1	126.9900	2	252.0400	0.99999	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

1344

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/23/2001

UNITS: ug/L

ICV Time: 10:24 PM
CCV1 Time: 10:51 PM
CCV2 Time: 11:54 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10200	102.0	10000	10200	102.0	10100	101.0	
Antimony	1200	1190	99.2	1200	1210	100.8	1210	100.8	
Arsenic	400	388	97.0	400	394	98.5	396	99.0	
Barium	1000	1020	102.0	1000	1040	104.0	1040	104.0	
Beryllium	50	50.5	101.0	50	50.7	101.4	49.9	99.8	
Cadmium	50	51.0	102.0	50	51.7	103.4	51.9	103.8	
Calcium	10000	10100	101.0	10000	10300	103.0	10200	102.0	
Chromium	500	502	100.4	500	503	100.6	496	99.2	
Cobalt	200	204	102.0	200	205	102.5	204	102.0	
Copper	500	502	100.4	500	516	103.2	510	102.0	
Iron	4000	4010	100.3	4000	4020	100.5	3990	99.8	
Lead	500	510	102.0	500	509	101.8	507	101.4	
Magnesium	10000	10500	105.0	10000	10400	104.0	10100	101.0	
Manganese	500	503	100.6	500	505	101.0	500	100.0	
Nickel	500	506	101.2	500	510	102.0	505	101.0	
Potassium	50000	49300	98.6	50000	50300	100.6	49700	99.4	
Selenium	400	397	99.3	400	409	102.3	398	99.5	
Silver	400	380	95.0	400	397	99.3	392	98.0	
Sodium	50000	49400	98.8	50000	50500	101.0	50500	101.0	
Thallium	500	513	102.6	500	521	104.2	513	102.6	
Vanadium	1000	1010	101.0	1000	1010	101.0	1010	101.0	
Zinc	1000	1010	101.0	1000	1010	101.0	1000	100.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/23/2001

UNITS: ug/L

ICV Time: 10:24 PM
CCV1 Time: 12:52 AM
CCV2 Time: 1:54 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10200	102.0	10000	9920	99.2	10200	102.0	
Antimony	1200	1190	99.2	1200	1190	99.2	1190	99.2	
Arsenic	400	388	97.0	400	384	96.0	392	98.0	
Barium	1000	1020	102.0	1000	1010	101.0	997	99.7	
Beryllium	50	50.5	101.0	50	48.6	97.2	49.3	98.6	
Cadmium	50	51.0	102.0	50	50.7	101.4	50.8	101.6	
Calcium	10000	10100	101.0	10000	10000	100.0	10100	101.0	
Chromium	500	502	100.4	500	486	97.2	492	98.4	
Cobalt	200	204	102.0	200	202	101.0	202	101.0	
Copper	500	502	100.4	500	498	99.6	498	99.6	
Iron	4000	4010	100.3	4000	3920	98.0	3950	98.8	
Lead	500	510	102.0	500	505	101.0	508	101.6	
Magnesium	10000	10500	105.0	10000	10200	102.0	10300	103.0	
Manganese	500	503	100.6	500	490	98.0	492	98.4	
Nickel	500	506	101.2	500	499	99.8	500	100.0	
Potassium	50000	49300	98.6	50000	48700	97.4	48800	97.6	
Selenium	400	397	99.3	400	397	99.3	399	99.8	
Silver	400	380	95.0	400	384	96.0	389	97.3	
Sodium	50000	49400	98.8	50000	49300	98.6	48800	97.6	
Thallium	500	513	102.6	500	517	103.4	509	101.8	
Vanadium	1000	1010	101.0	1000	988	98.8	999	99.9	
Zinc	1000	1010	101.0	1000	993	99.3	996	99.6	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	IRIS - Jarrell Ash
METHOD:	6010B
ANALYST:	slp
DATE:	5/23/2001
UNITS:	ug/L
ICB Time:	22:36
CCB1 Time:	22:56
CCB2 Time:	23:59
CCB3 Time:	0:57

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	-48.2	-96.6	-30.3	-84.3
Antimony	-3.14	0.02	3.20	-7.26
Arsenic	2.13	1.42	1.42	-0.66
Barium	-0.57	-0.30	0.19	-0.07
Beryllium	0.09	-0.05	-0.07	0.01
Cadmium	0.64	0.27	0.09	0.99
Calcium	8.66	6.88	3.88	27
Chromium	-0.05	0.57	0	-0.65
Cobalt	-0.15	0.53	0.71	0.77
Copper	-3.09	-4.66	-2.62	2.76
Iron	-3.71	1.80	6.14	-3.01
Lead	-3.68	0.96	1.79	-5.21
Magnesium	189	189	-24.6	188
Manganese	0.02	0.01	0.22	0.21
Nickel	0.65	0.65	1.01	0.68
Potassium	-8.53	-5.34	-46.2	-39.5
Selenium	2.10	-5.37	4.17	0.04
Silver	-2.74	-1.38	7.11	0.8
Sodium	-25.8	-52.9	-41.4	-81.5
Thallium	-1.40	-1.79	-0.45	2.78
Vanadium	-0.67	1.92	2.23	-3.43
Zinc	-0.30	-0.29	1.23	1.13

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/23/2001

UNITS: ug/L

ICB Time: 22:36
CCB1 Time: 1:59
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-48.2		-24.0					
Antimony	-3.14		6.67					
Arsenic	2.11		0.03					
Barium	-0.57		0.25					
Beryllium	0.09		-0.02					
Cadmium	0.64		0.05					
Calcium	8.66		9.85					
Chromium	-0.05		0.08					
Cobalt	0.15		0.32					
Copper	-3.09		-0.83					
Iron	-3.71		4.49					
Lead	-3.68		-1.01					
Magnesium	189		212					
Manganese	0.02		-0.02					
Nickel	0.65		0.46					
Potassium	-8.53		-73.7					
Selenium	2.10		1.33					
Silver	-2.74		1.73					
Sodium	-25.8		-85.4					
Thallium	-1.40		1.06					
Vanadium	-0.67		-0.32					
Zinc	-0.30		-0.15					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/23/2001

UNITS: ug/L

Initial ICSA Time: 10:41 PM
Initial ICSAB Time: 10:46 PM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	250000	250000	247000	252000	100.8				
Antimony	0	500	14.3	518	103.6				
Arsenic	0	250	14.2	256	102.4				
Barium	0	250	-0.35	248	99.2				
Beryllium	0	250	-0.28	251	100.4				
Cadmium	0	500	1.91	499	99.8				
Calcium	250000	250000	237000	243000	97.2				
Chromium	0	250	1.82	238	95.2				
Cobalt	0	250	3.19	237	94.8				
Copper	0	250	1.11	243	97.2				
Iron	100000	100000	86200	90800	90.8				
Lead	0	500	-35.8	434	86.8				
Magnesium	250000	250000	232000	237000	94.8				
Manganese	0	250	-1.64	226	90.4				
Nickel	0	500	1.47	462	92.4				
Potassium	0	2500	45.4	2530	101.2				
Selenium	0	250	24.2	253	101.2				
Silver	0	500	0.28	495	99.0				
Sodium	0	1250	28.1	1230	98.4				
Thallium	0	500	0.99	467	93.4				
Vanadium	0	250	-1.4	239	95.6				
Zinc	0	500	-1.28	484	96.8				

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: IRIS-Jarrel Ash

Units: mg/kg

Analyte	Wave-length /Mass	Analysis Date	CRQL	MDL
Aluminum	308.20	11/20/00	5	3.16
Antimony	206.80	9/28/00	10	0.45
Arsenic	189.00	10/15/00	5	0.35
Barium	455.40	11/16/00	0.5	0.014
Beryllium	313.00	9/28/00	0.5	0.008
Cadmium	228.80	9/28/00	0.5	0.032
Calcium	373.60	9/28/00	10	2.822
Chromium	267.70	9/28/00	1	0.060
Cobalt	228.60	9/28/00	1	0.043
Copper	324.70	9/28/00	1	0.145
Iron	271.40	9/28/00	2	1.12
Lead	220.30	9/28/00	5	0.331
Magnesium	277.90	10/15/00	25	4.57
Manganese	257.60	11/16/00	0.5	0.007
Nickel	231.60	9/28/00	2	0.104
Potassium	766.40	9/28/00	50	5.9
Selenium	196.00	11/16/00	1	0.256
Silver	328.00	9/28/00	2	0.103
Sodium	589.50	11/16/00	25	0.859
Thallium	190.80	9/28/00	2	0.348
Vanadium	292.40	9/28/00	0.5	0.228
Zinc	213.80	10/15/00	1	0.465

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Ba
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000550	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0015000	-0.0003500
Calcium	373.70	0.0000000	0.0000000	0.0014000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000250	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	-0.0000250	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0002070	-0.0035600	0.0000000
Lead	220.30	-0.0002000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	-0.0597000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	-0.0000520	0.0000000	-0.0003530	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000760	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/00

Analyte	Wave-length (nm)	Interelement Correction Factors for: Be	Co	Cr	Cu	Mn	Mo
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0018000	0.0202000
Antimony	206.80	0.0000000	0.0000000	0.0086800	0.0000000	0.0000000	-0.0014800
Arsenic	189.00	0.0000000	0.0000000	-0.0087000	0.0000000	0.0000000	-0.0006880
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	-0.0030000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0016000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0003400	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0001260	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	-0.0000890	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0760000	0.0000000	0.0000000	0.0000800	-0.0137000
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017000
Magnesium	277.90	0.0000000	0.0000000	-0.0008000	0.0000000	0.0013200	-0.0236000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0128000	0.0004420	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0004300	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000540	0.0000000	0.0000900	-0.0004900
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0060000	0.0004000	0.0000000	0.0000000	-0.0069800
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0009000	0.0002790	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Ti	V	Zn	
Aluminum	308.20	0.0000000	0.0013000	0.0600000	0.0000000	
Antimony	206.80	-0.0023400	0.0000000	-0.0010740	0.0000000	
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	228.80	0.0000000	0.0000000	0.0000720	0.0000000	
Calcium	373.70	0.0041400	0.0000000	0.0000000	0.0000000	
Chromium	267.70	0.0000000	0.0000000	-0.0005000	0.0000000	
Cobalt	228.60	0.0000000	0.0014800	0.0000000	-0.0010000	
Copper	324.70	0.0000000	-0.0007090	-0.0070000	0.0000000	
Iron	271.40	0.0000000	0.0000000	-0.1980000	0.0000000	
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.60	0.0000000	0.0000000	-0.0000750	0.0000000	
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	
Silver	328.00	0.0000000	0.0060000	0.0000000	0.0000000	
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.80	0.0000000	-0.0024000	-0.0220000	0.0000000	
Vanadium	292.40	-0.0034600	0.0000000	0.0000000	0.0000000	
Zinc	213.80	0.0030000	0.0000000	0.0000000	0.0000000	

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: IRIS-Jarrel Ash

Date: 11/22/2000

Analyte	Integ. Time (Sec.)	Concentration (mg/kg)
Aluminum	15.00	50000.0
Antimony	55.00	2500.0
Arsenic	55.00	5000.0
Barium	15.00	1000.0
Beryllium	15.00	250.0
Boron	15.00	5000.0
Cadmium	55.00	1500.0
Calcium	15.00	50000.0
Chromium	55.00	5000.0
Cobalt	55.00	5000.0
Copper	15.00	2500.0
Iron	55.00	50000.0
Lead	55.00	10000.0
Magnesium	55.00	50000.0
Manganese	55.00	2500.0
Nickel	55.00	5000.0
Potassium	15.00	20000.0
Selenium	55.00	1000.0
Silver	15.00	500.0
Sodium	15.00	20000.0
Thallium	55.00	1000.0
Vanadium	15.00	5000.0
Zinc	55.00	2000.0

Comments:

Rack	Pos	Set	Name & comment
L	1		S0
L	2		S1
L	3		S2
L	4		S3
L	5		S4
L	6		S5
L	7		ICV
L	8		ICSA
L	9		ICSAB
L	10		CCV
L	11		CCV
L	12		CCB
L	13		CCB
L	14-19		-- not used
1	1	2	PBS 8H WG97368-03
1	2	2	LCSS 8H WG97368-04
1	3	2	0527315 WG97368-02
1	4	2	0527316DP WG97368-07
1	5	2	0527304 WG97368-01
1	6	2	0527304SDL.2
1	7	2	0527304SDL.04
1	8	2	0527304PS.9
1	9	2	0527305S WG97368-05
1	10	2	0527306SD WG97368-06
1	11	2	0527301
1	12	2	0527302
1	13	2	0527303
1	14	2	0527307
1	15	2	0527308
1	16	2	0527309
1	17	2	0527312
1	18	2	0527313
1	19	2	0527314
1	20	2	0527317
1	21	2	0527318
1	22-48		-- not used
2	1-48		-- not used
3	1-48		-- not used

Sheri L. Plaggenborg
5/23/01

Rack	Pos	Set	Name & comment
L	1		S0
L	2		S1
L	3		S2
L	4		S3
L	5		S4
L	6		S5
L	7		ICV
L	8		ICSA
L	9		ICSAB
L	10		CCV
L	11		CCB
L	12-19		-- not used
1	1	2	0540606
1	2	2	0539701
1	3	2	0539703
1	4	2	0540405
1	5	2	0540406
1	6	2	0540407
1	7	2	0540408
1	8	2	0540409
1	9	2	0540410
1	10-48		-- not used
2	1-48		-- not used
3	1-48		-- not used
4	1-48		-- not used

1356

Method: CLP5 Sample Name: S0 Operator:
Comment:
Run Time: 05/23/01 21:53 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12474	-.04851	.05163	.19487	.92171
Stddev	.02939	.02941	.00707	.04240	.00988
%RSD	23.562	60.614	13.689	21.760	1.0714
#1	.10396	-.06930	.05663	.22486	.92869
#2	.14552	-.02772	.04664	.16489	.91472

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.07623	.28413	.49592	-.17905	-.72786
Stddev	.04901	.01958	.05475	.03886	.03064
%RSD	64.289	6.8908	11.041	21.704	4.2100
#1	.11089	.27029	.45721	-.15157	-.74952
#2	.04158	.29798	.53464	-.20653	-.70619

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.06930	.16739	-1.7397	3.2785	.04158
Stddev	.02614	.01061	.2386	.4610	.00000
%RSD	37.721	6.3361	13.712	14.060	.00791
#1	-.08779	.17489	-1.9084	3.6045	.04158
#2	-.05082	.15989	-1.5710	2.9526	.04158

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.37364	.03498	-2.4028	-.13657	.05580
Stddev	.01098	.02591	.4680	.06124	.03651
%RSD	2.9390	74.076	19.477	44.840	65.435
#1	-.36588	.01666	-2.0719	-.09327	.08161
#2	-.38140	.05330	-2.7337	-.17988	.02998

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00500	.01832	.01083	.13325	.01999
Stddev	.01649	.00236	.01767	.02826	.02356
%RSD	329.96	12.855	163.17	21.210	117.85
#1	.00666	.01666	.02332	.11326	.03664
#2	-.01665	.01999	-.00167	.15323	.00333

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.14553	-.11781	-.11576	.75770	.14074
Stddev	.00001	.01633	.02238	.00006	.00118
%RSD	.00788	13.858	19.334	.00814	.83946
#1	-.14554	-.10627	-.13158	.75774	.14158
#2	-.14552	-.12936	-.09993	.75765	.13990

Method: CLP5 Sample Name: S1 Operator:
Comment:
Run Time: 05/23/01 21:58 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	B_2496	Ba4554	Be3130	Ca3736
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.18026	1.6198	3.1302	.39518	.92552
Stddev	.02953	.0010	.0911	.01007	.05332
%RSD	16.383	.06407	2.9099	2.5471	5.7606
#1	.20115	1.6191	3.0657	.40229	.88782
#2	.15938	1.6205	3.1946	.38806	.96322

Elem	Cr2677	Fe2714	K_7664	Li6707	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.16822	.51885	1.3068	6.3378	3.6166
Stddev	.04474	.12598	.2694	.1414	.0529
%RSD	26.595	24.281	20.615	2.2312	1.4633
#1	-.13659	.42977	1.4973	6.4377	3.6540
#2	-.19986	.60793	1.1163	6.2378	3.5792

Elem	Mo2020	Na5895	Sb2068	Si2516	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25151	8.0797	.04330	.65875	.23652
Stddev	.00944	.6816	.01884	.00595	.00002
%RSD	3.7548	8.4359	43.507	.90248	.00855
#1	.25818	7.5977	.02998	.66295	.23653
#2	.24483	8.5617	.05663	.65454	.23650

Elem	Sr2152	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11742	.06931	.27036	.91745	1.3533
Stddev	.00588	.04898	.06192	.00387	.0107
%RSD	5.0066	70.659	22.901	.42220	.79185
#1	.11327	.03468	.22658	.92019	1.3609
#2	.12158	.10394	.31414	.91471	1.3457

Method: CLP5 Sample Name: S2 Operator:
Comment:
Run Time: 05/23/01 22:03 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.24620	.15951	.07496	3.0799	5.0627
Stddev	.04413	.00981	.00707	.0256	.0198
%RSD	17.923	6.1524	9.4364	.83287	.39139
#1	.27740	.15257	.07996	3.0618	5.0487
#2	.21500	.16645	.06996	3.0980	5.0767

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.58949	1.6367	.54968	.19322	.30815
Stddev	.02945	.0392	.02822	.02354	.06357
%RSD	4.9953	2.3931	5.1342	12.184	20.631
#1	.56867	1.6644	.52973	.17657	.26320
#2	.61032	1.6090	.56964	.20987	.35311

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.05086	.74876	4.3703	9.2670	.13177
Stddev	.00654	.01054	.1268	.0004	.02943
%RSD	12.852	1.4071	2.9024	.00442	22.333
#1	-.05548	.74131	4.4600	9.2668	.11096
#2	-.04624	.75621	4.2806	9.2673	.15258

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.0981	.50804	18.328	.50138	.16824
Stddev	.0273	.02596	.155	.07778	.01883
%RSD	.38458	5.1088	.84597	15.514	11.194
#1	7.1174	.52639	18.218	.55638	.15492
#2	7.0788	.48969	18.437	.44638	.18155

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12493	.03082	1.2968	.31815	.25235
Stddev	.05419	.00589	.0437	.03065	.00120
%RSD	43.377	19.103	3.3691	9.6341	.47512
#1	.16325	.02665	1.3276	.33982	.25320
#2	.08661	.03498	1.2659	.29648	.25151

Elem	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00347	.74438	1.0033	2.6277
Stddev	.00490	.00003	.0785	.0273
%RSD	141.34	.00390	7.8245	1.0395
#1	.00000	.74436	.94779	2.6470
#2	.00694	.74440	1.0588	2.6083

Method: CLP5 Sample Name: S3 Operator:
Comment:
Run Time: 05/23/01 22:08 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9705	2.9879	1.0261	74.346	106.39
Stddev	.0131	.0670	.0047	.170	.18
%RSD	.43946	2.2413	.45951	.22834	.17017
#1	2.9613	2.9405	1.0228	74.226	106.26
#2	2.9798	3.0352	1.0294	74.466	106.52

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.634	29.400	1.9339	7.9098	25.421
Stddev	.100	.072	.0106	.0577	.097
%RSD	.68131	.24451	.54780	.73002	.38029
#1	14.564	29.350	1.9414	7.8690	25.353
#2	14.705	29.451	1.9264	7.9507	25.489

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4610	15.721	155.17	152.84	1.4419
Stddev	.0569	.004	1.23	.32	.0384
%RSD	2.3130	.02280	.79384	.20957	2.6641
#1	2.5013	15.718	154.30	153.07	1.4148
#2	2.4208	15.723	156.04	152.62	1.4691

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	186.42	13.174	519.00	15.192	3.3831
Stddev	.30	.019	2.62	.075	.0023
%RSD	.16317	.14340	.50478	.49657	.06927
#1	186.20	13.161	517.14	15.138	3.3848
#2	186.63	13.188	520.85	15.245	3.3815

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1266	.62799	33.694	4.7357	6.2541
Stddev	.0118	.00706	.004	.0306	.0365
%RSD	.37710	1.1250	.01084	.64703	.58419
#1	3.1183	.63298	33.691	4.7141	6.2282
#2	3.1350	.62299	33.697	4.7574	6.2799

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.0104	22.422	.78957	7.2883	62.833
Stddev	.0027	.122	.01414	.1282	.084
%RSD	.06662	.54198	1.7905	1.7595	.13346
#1	4.0085	22.336	.77957	7.3790	62.774
#2	4.0123	22.508	.79956	7.1976	62.892

Analysis Report

Method: CLP5 Sample Name: S4 Operator:
Comment:
Run Time: 05/23/01 22:13 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.8894	5.9795	1.9806	147.40	217.14
Stddev	.0979	.1077	.0448	.67	1.40
%RSD	1.6630	1.8018	2.2597	.45293	.64361
#1	5.8202	5.9033	2.0122	147.88	216.15
#2	5.9587	6.0557	1.9489	146.93	218.13

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	30.196	59.591	3.2707	15.884	51.713
Stddev	.235	.514	.0035	.022	.050
%RSD	.77806	.86250	.10820	.14072	.09584
#1	30.029	59.227	3.2682	15.900	51.678
#2	30.362	59.954	3.2732	15.868	51.748

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.0996	31.590	312.54	312.14	3.0209
Stddev	.0065	.055	3.29	2.76	.0784
%RSD	.12734	.17540	1.0538	.88513	2.5941
#1	5.0950	31.551	310.21	310.19	2.9655
#2	5.1042	31.629	314.87	314.09	3.0764

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	373.68	26.338	1031.7	30.520	6.6405
Stddev	.85	.027	8.8	.009	.0012
%RSD	.22764	.10269	.85359	.03070	.01789
#1	373.07	26.357	1025.5	30.527	6.6397
#2	374.28	26.319	1037.9	30.513	6.6414

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.3965	1.3035	67.868	9.2549	12.361
Stddev	.0330	.0200	.299	.0659	.062
%RSD	.51542	1.5364	.44063	.71253	.50488
#1	6.4198	1.2893	68.079	9.3016	12.405
#2	6.3732	1.3176	67.656	9.2083	12.317

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.3907	45.728	1.6641	14.363	126.99
Stddev	.0687	.414	.0118	.062	.18
%RSD	.81825	.90639	.70764	.43131	.14453
#1	8.4393	45.434	1.6724	14.320	127.12
#2	8.3422	46.021	1.6558	14.407	126.86

Analysis Report

Method: CLP5 Sample Name: S5 Operator:
Comment:
Run Time: 05/23/01 22:18 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.706	11.987	3.8646	288.09	420.97
Stddev	.044	.275	.0142	2.19	1.97
%RSD	.37884	2.2911	.36776	.76004	.46809
#1	11.738	12.181	3.8746	289.64	422.37
#2	11.675	11.793	3.8545	286.54	419.58

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	59.422	116.73	6.0218	31.381	104.45
Stddev	.018	.12	.1026	.095	.04
%RSD	.03083	.09870	1.7038	.30230	.04099
#1	59.409	116.81	6.0943	31.449	104.48
#2	59.435	116.65	5.9492	31.314	104.42

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.9406	63.084	628.64	620.18	5.8341
Stddev	.0455	.164	.48	1.91	.0587
%RSD	.45785	.25969	.07597	.30778	1.0056
#1	9.9085	63.200	628.98	621.53	5.7926
#2	9.9728	62.969	628.30	618.83	5.8756

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	739.21	51.767	2026.2	60.264	12.995
Stddev	.79	.112	9.5	.133	.106
%RSD	.10621	.21590	.46803	.22092	.81781
#1	739.77	51.846	2033.0	60.358	13.070
#2	738.66	51.688	2019.5	60.170	12.920

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12.577	2.6711	133.57	18.015	23.768
Stddev	.080	.0177	.99	.116	.277
%RSD	.63888	.66349	.73746	.64276	1.1666
#1	12.633	2.6836	134.27	18.097	23.964
#2	12.520	2.6585	132.88	17.933	23.572

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16.681	89.861	3.4048	27.374	252.04
Stddev	.113	.515	.0024	.046	.83
%RSD	.67769	.57284	.07120	.16921	.32916
#1	16.761	90.225	3.4065	27.406	252.63
#2	16.601	89.497	3.4031	27.341	251.45

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El Name	Slope	Y-int	Correlation	Date Stdized
Al3082	0.5740	0.1247	0.9999733	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-3.5824e-060		0	0.12474
S1	0.1	0.096722	-0.00328	-3.28	0.18026
S2	0.2	0.21159	0.0116	5.79	0.2462
S3	5	4.9577	-0.0423	-0.847	2.9705
S4	10	10.043	0.0427	0.427	5.8894
S5	20	20.176	0.176	0.882	11.706

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	15.5118	-0.0477	0.9985371	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-5.4983e-050		0	-0.048512
S2	0.008	0.013356	0.00536	66.9	0.15951
S3	0.2	0.19569	-0.00431	-2.15	2.9879
S4	0.4	0.38856	-0.0114	-2.86	5.9795
S5	0.8	0.77584	-0.0242	-3.02	11.987

El Name	Slope	Y-int	Correlation	Date Stdized
As1890	4.8057	0.0515	0.9995338	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	2.9186e-050		0	0.051633
S2	0.008	0.0048826	-0.00312	-39	0.074957
S3	0.2	0.2028	0.0028	1.4	1.0261
S4	0.4	0.40142	0.00142	0.354	1.9806
S5	0.8	0.79345	-0.00655	-0.819	3.8646

El Name	Slope	Y-int	Correlation	Date Stdized
B_2496	14.5528	0.1948	0.9999211	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	8.2816e-060		0	0.19487
S1	0.1	0.097922	-0.00208	-2.08	1.6198
S2	0.2	0.19825	-0.00175	-0.874	3.0799
S3	5	5.0953	0.0953	1.91	74.346
S4	10	10.115	0.115	1.15	147.4
S5	20	19.783	-0.217	-1.09	288.09

El Name	Slope	Y-int	Correlation	Date Stdized
Ba4554	211.9210	0.9222	0.9999135	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-2.54e-06	0	0	0.92171
S1	0.01	0.010419	0.000419	4.19	3.1302
S2	0.02	0.019538	-0.000462	-2.31	5.0627
S3	0.5	0.49767	-0.00233	-0.467	106.39
S4	1	1.0203	0.0203	2.03	217.14
S5	2	1.9821	-0.0179	-0.895	420.97

Method : CLP3 Standard Deviation

El Name	Slope	Y-int	Correlation	Date Stdized
Be3130	594.0875	0.0760	0.9998841	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	3.4088e-070		0	0.076233
S1	0.0005	0.0005372	3.72e-05	7.44	0.39518
S2	0.001	0.00086429	-0.000136	-13.6	0.58949
S3	0.025	0.024505	-0.000495	-1.98	14.634
S4	0.05	0.050699	0.000699	1.4	30.196
S5	0.1	0.099894	-0.000106	-0.106	59.422

El Name	Slope	Y-int	Correlation	Date Stdized
Ca3736	5.8549	0.2856	0.9998856	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-0.000244670		0	0.28413
S1	0.1	0.1093	0.0093	9.3	0.92552
S2	0.2	0.23077	0.0308	15.4	1.6367
S3	5	4.9727	-0.0273	-0.546	29.4
S4	10	10.129	0.129	1.29	59.591
S5	20	19.888	-0.112	-0.56	116.73

El Name	Slope	Y-int	Correlation	Date Stdized
Cd2288	55.9498	0.4959	0.9999012	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	9.215e-08	0	0	0.49592
S2	0.001	0.00096092	-3.91e-05	-3.91	0.54968
S3	0.025	0.025702	0.000702	2.81	1.9339
S4	0.05	0.049594	-0.000406	-0.811	3.2707
S5	0.1	0.098764	-0.00124	-1.24	6.0218

El Name	Slope	Y-int	Correlation	Date Stdized
Co2286	79.4862	-0.1785	0.9998681	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-7.2308e-060		0	-0.17905
S2	0.004	0.0046762	0.000676	16.9	0.19322
S3	0.1	0.10176	0.00176	1.76	7.9098
S4	0.2	0.20208	0.00208	1.04	15.884
S5	0.4	0.39705	-0.00295	-0.738	31.381

El Name	Slope	Y-int	Correlation	Date Stdized
Cr2677	105.0672	-0.7276	0.9999914	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-2.3832e-060		0	-0.72786
S1	0.005	0.005324	0.000324	6.48	-0.16822
S2	0.01	0.0098581	-0.000142	-1.42	0.30815
S3	0.25	0.24888	-0.00112	-0.45	25.421
S4	0.5	0.49912	-0.000881	-0.176	51.713
S5	1	1.001	0.00101	0.101	104.45

El Name	Slope	Y-int	Correlation	Date Stdized
Cu3247	10.2330	-0.0701	0.9980156	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	7.7194e-050		0	-0.069302
S2	0.01	0.0018796	-0.00812	-81.2	-0.050858
S3	0.25	0.24735	-0.00265	-1.06	2.461
S4	0.5	0.5052	0.0052	1.04	5.0996
S5	1	0.97828	-0.0217	-2.17	9.9406

El Name	Slope	Y-int	Correlation	Date Stdized
Fe2714	8.2529	0.1675	0.9999554	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-1.6293e-050		0	0.16739
S1	0.04	0.04257	0.00257	6.42	0.51885
S2	0.08	0.070428	-0.00957	-12	0.74876
S3	2	1.8845	-0.115	-5.77	15.721
S4	4	3.8075	-0.193	-4.81	31.59
S5	8	7.6236	-0.376	-4.71	63.084

El Name	Slope	Y-int	Correlation	Date Stdized
K_7664	6.2931	-1.7417	0.9999947	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.000310430		0	-1.7397
S1	0.5	0.48441	-0.0156	-3.12	1.3068
S2	1	0.97122	-0.0288	-2.88	4.3703
S3	25	24.934	-0.0656	-0.262	155.17
S4	50	49.94	-0.0597	-0.119	312.54
S5	100	100.17	0.17	0.17	628.64

El Name	Slope	Y-int	Correlation	Date Stdized
Li6707	307.3443	3.2771	0.9999405	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	4.5381e-060		0	3.2785
S1	0.01	0.0099583	-4.17e-05	-0.417	6.3378
S2	0.02	0.019489	-0.000511	-2.55	9.267
S3	0.5	0.48664	-0.0134	-2.67	152.84
S4	1	1.0049	0.00494	0.494	312.14
S5	2	2.0072	0.00721	0.36	620.18

El Name	Slope	Y-int	Correlation	Date Stdized
Mg2779	0.2929	0.0419	0.9989683	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-0.00103050		0	0.041581
S2	0.2	0.30689	0.107	53.4	0.13177
S3	5	4.78	-0.22	-4.4	1.4419
S4	10	10.171	0.171	1.71	3.0209
S5	20	19.776	-0.224	-1.12	5.8341

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Method : CLP3 Standard Report

El Name	Slope	Y-int	Correlation	Date Stdized
Mn2576	743.0952	-0.3705	0.9999774	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-4.2411e-060		0	-0.37364
S1	0.005	0.0053655	0.000365	7.31	3.6166
S2	0.01	0.010051	5.07e-05	0.507	7.0981
S3	0.25	0.25137	0.00137	0.546	186.42
S4	0.5	0.50336	0.00336	0.672	373.68
S5	1	0.99527	-0.00473	-0.473	739.21

El Name	Slope	Y-int	Correlation	Date Stdized
Mo2020	26.0312	0.0343	0.9999038	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	2.4099e-050		0	0.034976
S1	0.01	0.0083422	-0.00166	-16.6	0.25151
S2	0.02	0.018197	-0.0018	-9.01	0.50804
S3	0.5	0.50478	0.00478	0.956	13.174
S4	1	1.0105	0.0105	1.05	26.338
S5	2	1.9873	-0.0127	-0.633	51.767

El Name	Slope	Y-int	Correlation	Date Stdized
Na5895	20.4834	-2.3974	0.9999359	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-0.000265050		0	-2.4028
S1	0.5	0.51149	0.0115	2.3	8.0797
S2	1	1.0118	0.0118	1.18	18.328
S3	25	25.454	0.454	1.82	519
S4	50	50.484	0.484	0.968	1031.7
S5	100	99.038	-0.962	-0.962	2026.2

El Name	Slope	Y-int	Correlation	Date Stdized
Ni2316	60.7293	-0.1362	0.9999658	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	-5.8494e-060		0	-0.13657
S2	0.01	0.010499	0.000499	4.99	0.50138
S3	0.25	0.2524	0.0024	0.959	15.192
S4	0.5	0.5048	0.0048	0.96	30.52
S5	1	0.99459	-0.00541	-0.541	60.264

El Name	Slope	Y-int	Correlation	Date Stdized
Pb2203	13.1028	0.0556	0.9998853	05/23/01 22:21:41

Standard	Concentration		Difference		Signal
Name	Stated	Found	Conc	%	(S)IR
S0	0	1.1548e-050		0	0.055797
S2	0.01	0.0085929	-0.00141	-14.1	0.16824
S3	0.25	0.25395	0.00395	1.58	3.3831
S4	0.5	0.50256	0.00256	0.512	6.6405
S5	1	0.9875	-0.0125	-1.25	12.995

El Name	Slope	Y-int	Correlation	Date Stdized
Sb2068	5.2592	-0.0051	0.9998838	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	2.4366e-050		0	-0.0049968
S1	0.012	0.0092086	-0.00279	-23.3	0.043305
S2	0.024	0.024729	0.000729	3.04	0.12493
S3	0.6	0.59548	-0.00452	-0.753	3.1266
S4	1.2	1.2172	0.0172	1.44	6.3965
S5	2.4	2.3923	-0.00768	-0.32	12.577

El Name	Slope	Y-int	Correlation	Date Stdized
Se1960	3.2327	0.0182	0.9988325	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S2	0.008	0.0039094	-0.00409	-51.1	0.030815
S3	0.2	0.18864	-0.0114	-5.68	0.62799
S4	0.4	0.39758	-0.00242	-0.605	1.3035
S0	0	4.4499e-050		0	0.018321
S5	0.8	0.82063	0.0206	2.58	2.6711

El Name	Slope	Y-int	Correlation	Date Stdized
Si2516	13.3907	0.0104	0.9999682	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	3.4244e-050		0	0.010827
S1	0.05	0.04842	-0.00158	-3.16	0.65875
S2	0.1	0.096065	-0.00393	-3.93	1.2968
S3	2.5	2.5154	0.0154	0.618	33.694
S4	5	5.0675	0.0675	1.35	67.868
S5	10	9.9743	-0.0257	-0.257	133.57

El Name	Slope	Y-int	Correlation	Date Stdized
Sn1899	9.0350	0.1334	0.9999012	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-1.8149e-050		0	0.13325
S1	0.01	0.011412	0.00141	14.1	0.23652
S2	0.02	0.020447	0.000447	2.24	0.31815
S3	0.5	0.50939	0.00939	1.88	4.7357
S4	1	1.0096	0.00958	0.958	9.2549
S5	2	1.9792	-0.0208	-1.04	18.015

El Name	Slope	Y-int	Correlation	Date Stdized
Sr2152	12.1024	0.0198	0.9997221	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.9277e-050		0	0.019987
S1	0.01	0.0080704	-0.00193	-19.3	0.11742
S2	0.02	0.019219	-0.000781	-3.9	0.25235
S3	0.5	0.51513	0.0151	3.03	6.2541
S4	1	1.0197	0.0197	1.97	12.361
S5	2	1.9623	-0.0377	-1.89	23.768

Method : CLP6 Standard Report

El Name	Slope	Y-int	Correlation	Date Stdized
Sr3464	8.4637	-0.1444	0.9966063	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-0.000138210		0	-0.14553
S1	0.01	0.025246	0.0152	152	0.069312
S2	0.02	0.017467	-0.00253	-12.7	0.003469
S3	0.5	0.49089	-0.00911	-1.82	4.0104
S4	1	1.0084	0.00843	0.843	8.3907
S5	2	1.988	-0.012	-0.602	16.681

El Name	Slope	Y-int	Correlation	Date Stdized
Ti3349	45.1925	-0.1186	0.9999308	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.7942e-050		0	-0.11781
S1	0.01	0.0086073	-0.00139	-13.9	0.27036
S2	0.02	0.019096	-0.000904	-4.52	0.74438
S3	0.5	0.49876	-0.00124	-0.248	22.422
S4	1	1.0145	0.0145	1.45	45.728
S5	2	1.991	-0.00898	-0.449	89.861

El Name	Slope	Y-int	Correlation	Date Stdized
Tl1908	3.7479	-0.1156	0.9999506	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-4.1918e-050		0	-0.11576
S3	0.25	0.24151	-0.00849	-3.39	0.78957
S4	0.5	0.47485	-0.0251	-5.03	1.6641
S5	1	0.93931	-0.0607	-6.07	3.4048

El Name	Slope	Y-int	Correlation	Date Stdized
V_3102	13.3820	0.7578	0.9998407	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-1.0382e-050		0	0.7577
S1	0.01	0.011928	0.00193	19.3	0.91745
S2	0.02	0.018343	-0.00166	-8.29	1.0033
S3	0.5	0.48801	-0.012	-2.4	7.2883
S4	1	1.0167	0.0167	1.67	14.363
S5	2	1.9889	-0.0111	-0.553	27.374

El Name	Slope	Y-int	Correlation	Date Stdized
Zn2138	125.8020	0.1401	0.9999899	05/23/01 22:21:41

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	5.0761e-060		0	0.14074
S1	0.01	0.0096437	-0.000356	-3.56	1.3533
S2	0.02	0.019774	-0.000226	-1.13	2.6277
S3	0.5	0.49835	-0.00165	-0.331	62.833
S4	1	1.0083	0.00831	0.831	126.99
S5	2	2.0024	0.00236	0.118	252.04

Method: CLP5 Sample Name: ICV Operator:
Comment:
Run Time: 05/23/01 22:24 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.201	Q .37976	.38807	10.047	1.0180
Stddev	.196	.00690	.00196	.064	.0012
%RSD	1.9196	1.8157	.50521	.63472	.11963
#1	10.340	.38464	.38946	10.092	1.0171
#2	10.063	.37489	.38669	10.002	1.0189
Check ?	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05048	10.145	.05096	.20439	.50204
Stddev	.00005	.032	.00066	.00105	.00066
%RSD	.10309	.31882	1.3003	.51433	.13242
#1	.05044	10.122	.05143	.20513	.50251
#2	.05052	10.168	.05049	.20364	.50157
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50200	4.0148	49.292	.98901	10.478
Stddev	.00867	.0158	.637	.00034	.101
%RSD	1.7266	.39294	1.2929	.03421	.96108
#1	.49587	4.0260	48.841	.98925	10.407
#2	.50813	4.0036	49.742	.98877	10.549
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50292	1.0087	49.442	.50626	.50952
Stddev	.00115	.0033	.010	.00190	.00694
%RSD	.22886	.33083	.02006	.37455	1.3617
#1	.50373	1.0111	49.435	.50760	.51443
#2	.50211	1.0064	49.449	.50492	.50462
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

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Sample Name: ICV Run Time: 05/23/01 22:24

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1933	.39731	4.9507	.99337	1.0000
Stddev	.0076	.00182	.0337	.00938	.0058
%RSD	.63700	.45787	.68107	.94389	.58352
#1	1.1987	.39602	4.9745	1.00000	1.0042
#2	1.1879	.39860	4.9269	.98674	.99592
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0019	1.0007	.51255	1.0143	1.0058
Stddev	.0105	.0014	.00666	.0037	.0029
%RSD	1.0450	.13969	1.2990	.36562	.29065
#1	.99450	1.0017	.50784	1.0117	1.0078
#2	1.0093	.99969	.51726	1.0170	1.0037
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Analysis Report

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/23/01 22:29 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.02429	.00045	-.00413	.02147	-.00030
Stddev	.11946	.01135	.00539	.00590	.00009
%RSD	491.72	2506.3	130.56	27.485	31.020
#1	.06018	-.00757	-.00794	.02564	-.00036
#2	-.10877	.00848	-.00032	.01730	-.00023
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00001	.00509	-.00004	.00059	.00017
Stddev	.00000	.01090	.00017	.00118	.00013
%RSD	.16998	214.36	460.82	200.11	76.030
#1	.00001	.01279	.00008	.00143	.00008
#2	.00001	-.00262	-.00016	-.00025	.00027
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -.01139	.00093	-.01604	.00093	H .23536
Stddev	.00289	.00629	.03735	.00000	.06668
%RSD	25.366	675.33	232.79	.23207	28.332
#1	-.00935	-.00351	.01037	.00093	.28252
#2	-.01344	.00538	-.04245	.00093	.18821
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.00061	-.00625	.00043	.00134
Stddev	.00000	.00082	.00168	.00062	.00089
%RSD	7.3957	132.73	26.906	143.66	66.028
#1	.00005	-.00004	-.00744	-.00001	.00072
#2	.00005	-.00119	-.00506	.00087	.00197
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

DLP 5/23/01

Reran to verify.

1371

Sample Name: CCB Run Time: 05/23/01 22:29

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00187	-.00408	-.00095	-.00020	-.00060
Stddev	.00045	.00146	.00028	.00130	.00107
%RSD	24.159	35.702	29.090	646.41	179.25
#1	-.00155	-.00511	-.00114	-.00112	-.00136
#2	-.00219	-.00305	-.00078	.00072	.00016
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Tl3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00260	-.00157	-.00460	.00639	-.00044
Stddev	.00579	.00072	.00183	.00269	.00006
%RSD	222.91	45.760	39.848	42.171	12.747
#1	.00150	-.00106	-.00590	.00829	-.00048
#2	-.00669	-.00208	-.00331	.00448	-.00040
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

SLP 5/23/01

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Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/23/01 22:36 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.04818	-.00274	.00211	.00573	-.00057
Stddev	.10243	.00064	.00245	.00259	.00007
%RSD	212.58	23.399	116.25	45.286	12.244
#1	-.12061	-.00320	.00038	.00389	-.00052
#2	.02424	-.00229	.00384	.00756	-.00062
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00866	.00064	-.00015	-.00005
Stddev	.00005	.00588	.00050	.00102	.00027
%RSD	52.763	67.815	77.389	670.84	536.50
#1	.00006	.01282	.00029	.00057	.00014
#2	.00013	.00451	.00100	-.00088	-.00024
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00309	-.00371	-.00853	.00064	H .18853
Stddev	.00191	.00401	.02671	.00009	.13383
%RSD	61.649	108.13	313.12	14.524	70.985
#1	-.00174	-.00655	.01036	.00058	.28317
#2	-.00444	-.00087	-.02742	.00071	.09390
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	-.00084	-.02583	.00065	-.00368
Stddev	.00004	.00005	.00773	.00085	.00134
%RSD	200.13	5.3590	29.913	131.04	36.388
#1	-.00001	-.00081	-.02037	.00125	-.00273
#2	.00004	-.00087	-.03130	.00005	-.00463
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/23/01 22:36

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00314	.00210	-.00014	-.00131	-.00308
Stddev	.00582	.00072	.00141	.00183	.00107
%RSD	185.32	34.319	1022.8	139.46	34.831
#1	-.00726	.00261	.00086	-.00002	-.00384
#2	.00098	.00159	-.00114	-.00260	-.00232
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00067	-.00111	-.00140	-.00067	-.00030
Stddev	.00695	.00109	.00783	.00096	.00001
%RSD	1031.6	97.806	560.97	143.27	4.4593
#1	.00559	-.00188	.00414	-.00135	-.00031
#2	-.00424	-.00034	-.00693	.00001	-.00029
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Method: CLP5 Sample Name: ICSA Operator:
Comment:
Run Time: 05/23/01 22:41 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	246.80	.00028	.01423	-.08202	-.00015
Stddev	.38	.00377	.00098	.00235	.00035
%RSD	.15236	1338.8	6.8791	2.8708	235.48
#1	247.06	.00295	.01353	-.08035	-.00040
#2	246.53	-.00238	.01492	-.08368	.00010
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.00000	.00000	.00000	.00000
Range	±50.000	±.01600	±.04000	±.20000	±.02000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00028	237.34	.00191	.00319	.00182
Stddev	.00002	.80	.00098	.00049	.00009
%RSD	5.8726	.33803	51.035	15.360	5.0219
#1	-.00029	237.91	.00122	.00353	.00175
#2	-.00027	236.78	.00260	.00284	.00188
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	250.00	.00000	.00000	.00000
Range	±.00100	±50.000	±.00400	±.01000	±.01000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00111	86.154	.04537	.01952	231.55
Stddev	.00669	.012	.05822	.00016	.78
%RSD	600.18	.01365	128.32	.81089	.33851
#1	.00585	86.162	.08653	.01963	232.10
#2	-.00362	86.145	.00420	.01941	230.99
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	100.00	.00000	.00000	250.00
Range	±.01000	±20.000	±1.0000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00164	-.00273	.02806	.00147	-.03576
Stddev	.00013	.00199	.01064	.00074	.00149
%RSD	7.8465	72.908	37.899	50.075	4.1753
#1	-.00173	-.00132	.02054	.00095	-.03682
#2	-.00155	-.00414	.03558	.00199	-.03471
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.01000	±.20000	±1.0000	±.04000	±.04000

Sample Name: ICSA Run Time: 05/23/01 22:41

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01426	.02423	.02321	-.00075	Q -.05169
Stddev	.00134	.00293	.00192	.00104	.00146
%RSD	9.4150	12.109	8.2806	138.86	2.8170
#1	.01521	.02631	.02457	-.00001	-.05272
#2	.01331	.02216	.02185	-.00149	-.05066
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000
Range	±.04000	±.04000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01173	-.01124	.00099	-.01139	-.00128
Stddev	.00637	.00031	.00035	.00246	.00014
%RSD	54.331	2.7519	35.933	21.638	10.577
#1	.01624	-.01146	.00074	-.01313	-.00138
#2	.00722	-.01102	.00124	-.00964	-.00119
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.02000	±.06000	±.08000	±.02000	±.02000

Method: CLP5 Sample Name: ICSAB Operator:
Comment:
Run Time: 05/23/01 22:46 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	252.22	.49494	.25599	-.09387	.24839
Stddev	1.33	.00635	.00294	.00258	.00047
%RSD	.52574	1.2832	1.1487	2.7463	.19083
#1	251.28	.49045	.25806	-.09569	.24806
#2	253.16	.49943	.25391	-.09204	.24873
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.50000	.25000	.00000	.25000
Range	±50.000	±.10000	±.05000	±.20000	±.05000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25108	242.72	.49914	.23723	.23788
Stddev	.00100	.99	.00023	.00047	.00009
%RSD	.39875	.40797	.04567	.20016	.03656
#1	.25037	242.02	.49898	.23756	.23794
#2	.25179	243.42	.49930	.23689	.23782
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	250.00	.50000	.25000	.25000
Range	±.05000	±50.000	±.10000	±.05000	±.05000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24328	90.813	2.5285	.02023	236.94
Stddev	.00445	.015	.0153	.00065	.71
%RSD	1.8287	.01603	.60349	3.2180	.30101
#1	.24642	90.824	2.5177	.02069	236.44
#2	.24013	90.803	2.5393	.01977	237.44
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	100.00	2.5000	.00000	250.00
Range	±.05000	±20.000	±.50000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22631	-.00331	1.2263	.46207	.43404
Stddev	.00014	.00100	.0023	.00036	.00078
%RSD	.06066	30.081	.18659	.07759	.17912
#1	.22621	-.00260	1.2279	.46232	.43459
#2	.22641	-.00401	1.2247	.46182	.43349
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	.00000	1.2500	.50000	.50000
Range	±.05000	±.20000	±.25000	±.10000	±.10000

Sample Name: ICSAB Run Time: 05/23/01 22:46

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51754	.25253	.00325	-.00334	Q -.06652
Stddev	.00403	.00189	.00255	.00261	.00603
%RSD	.77806	.74824	78.574	78.181	9.0610
#1	.52038	.25119	.00505	-.00518	-.07078
#2	.51469	.25386	.00144	-.00149	-.06226
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.50000	.25000	.00000	.00000	.00000
Range	±.10000	±.05000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01214	-.01132	.46693	.23925	.48450
Stddev	.00232	.00113	.00160	.00123	.00038
%RSD	19.065	10.025	.34267	.51524	.07913
#1	.01051	-.01212	.46579	.23837	.48477
#2	.01378	-.01052	.46806	.24012	.48423
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.50000	.25000	.50000
Range	±.02000	±.06000	±.10000	±.05000	±.10000

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/23/01 22:51 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.225	.39719	.39432	10.132	1.0387
Stddev	.095	.00256	.00001	.014	.0019
%RSD	.92492	.64444	.00192	.13846	.18141
#1	10.158	.39900	.39431	10.122	1.0401
#2	10.292	.39538	.39432	10.141	1.0374
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05072	10.255	.05170	.20543	.50304
Stddev	.00020	.035	.00032	.00063	.00123
%RSD	.38466	.33727	.61488	.30608	.24519
#1	.05086	10.280	.05147	.20499	.50216
#2	.05059	10.231	.05192	.20588	.50391
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51578	4.0246	50.261	.99646	10.432
Stddev	.00254	.0096	.415	.00294	.034
%RSD	.49234	.23798	.82642	.29541	.32711
#1	.51399	4.0179	50.555	.99854	10.407
#2	.51758	4.0314	49.967	.99438	10.456
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50530	1.0147	50.468	.51010	.50940
Stddev	.00076	.0035	.303	.00034	.00529
%RSD	.15005	.34842	.60028	.06723	1.0380
#1	.50477	1.0122	50.682	.51034	.51314
#2	.50584	1.0172	50.254	.50986	.50567
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Sample Name: CCV Run Time: 05/23/01 22:51

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2072	.40941	4.9725	1.0017	1.0127
Stddev	.0085	.00073	.0071	.0039	.0016
%RSD	.70464	.17745	.14200	.39121	.15487
#1	1.2012	.40992	4.9675	.99889	1.0116
#2	1.2133	.40889	4.9775	1.0044	1.0138
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0154	1.0112	.52084	1.0145	1.0092
Stddev	.0109	.0022	.00890	.0058	.0016
%RSD	1.0777	.21622	1.7088	.57169	.15521
#1	1.0232	1.0127	.52713	1.0186	1.0081
#2	1.0077	1.0096	.51454	1.0104	1.0103
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/23/01 22:56 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496
Units	ppm	ppm	ppm	ppm
Avg	L -.09657	-.00138	.00142	.00957
Stddev	.05122	.00885	.00147	.00543
%RSD	53.040	641.71	103.75	56.723
#1	-.06035	-.00764	.00246	.01340
#2	-.13279	.00488	.00038	.00573
Check ?	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000
Low Limit	-.05000	-.00500	-.01000	-.05000

Elem	Ba4554	Be3130	Ca3736	Cd2288
Units	ppm	ppm	ppm	ppm
Avg	-.00010	-.00005	.00688	.00027
Stddev	.00005	.00008	.00001	.00022
%RSD	46.470	178.41	.20787	80.723
#1	-.00007	-.00010	.00687	.00042
#2	-.00013	.00001	.00689	.00012
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.00025	.05000	.00100
Low Limit	-.00250	-.00025	-.05000	-.00100

Elem	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm
Avg	.00053	.00057	-.00466	.00180
Stddev	.00065	.00007	.00351	.00581
%RSD	124.59	11.881	75.370	322.18
#1	.00006	.00062	-.00714	.00591
#2	.00099	.00052	-.00217	-.00230
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.00250	.01000	.02000
Low Limit	-.00250	-.00250	-.01000	-.02000

Elem	K_7664	Li6707	Mg2779	Mn2576
Units	ppm	ppm	ppm	ppm
Avg	-.00524	.00177	H .18853	.00001
Stddev	.04664	.00099	.00004	.00001
%RSD	889.82	55.962	.01939	55.295
#1	-.03822	.00107	.18855	.00001
#2	.02774	.00247	.18850	.00002
Check ?	LC Pass	LC Pass	LC Fail	LC Pass
High Limit	.25000	.05000	.10000	.00250
Low Limit	-.25000	-.05000	-.10000	-.00250

Sample Name: CCB Run Time: 05/23/01 22:56

Elem	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm
Avg	-.00026	-.05290	.00065	.00096
Stddev	.00005	.00477	.00062	.00090
%RSD	17.183	9.0222	94.858	94.455
#1	-.00023	-.04952	.00021	.00160
#2	-.00030	-.05627	.00109	.00032
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.10000	.01000	.01000
Low Limit	-.05000	-.10000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm
Avg	.00002	-.00537	-.00096	-.00204
Stddev	.00313	.00110	.00219	.00130
%RSD	14018.	20.442	226.75	63.713
#1	.00224	-.00459	.00058	-.00112
#2	-.00219	-.00615	-.00251	-.00297
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000
Low Limit	-.02000	-.01000	-.25000	-.20000

Elem	Sr2152	Sr3464	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm
Avg	-.00163	.00395	.00083	-.00179
Stddev	.00156	.00000	.00181	.00218
%RSD	95.597	.05448	218.27	122.13
#1	-.00053	.00395	.00211	-.00333
#2	-.00273	.00395	-.00045	-.00024
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.00500	.01500	.02000
Low Limit	-.00500	-.00500	-.01500	-.02000

Elem	V_3102	Zn2138
Units	ppm	ppm
Avg	.00192	-.00029
Stddev	.00023	.00022
%RSD	12.097	75.752
#1	.00209	-.00045
#2	.00176	-.00013
Check ?	LC Pass	LC Pass
High Limit	.00728	.01000
Low Limit	-.00728	-.01000

Method: CLP5 Sample Name: PBS 8H WG97368-03 Operator: SLP
Comment:
Run Time: 05/23/01 23:05 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496
Units	ppm	ppm	ppm	ppm
Avg	L -5.4322	-.27040	-.01574	.13259
Stddev	5.9797	.03213	.14708	.02418
%RSD	110.08	11.882	934.23	18.238
#1	-1.2039	-.29311	.08826	.14968
#2	-9.6605	-.24768	-.11974	.11549
Check ?	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	5.0000	.50000	1.0000	5.0000
Low Limit	-5.0000	-.50000	-1.0000	-5.0000

Elem	Ba4554	Be3130	Ca3736	Cd2288
Units	ppm	ppm	ppm	ppm
Avg	-.03028	-.00056	1.5277	.02576
Stddev	.01499	.00165	.0009	.01565
%RSD	49.490	292.56	.06218	60.732
#1	-.01969	.00060	1.5271	.03683
#2	-.04088	-.00173	1.5284	.01470
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	.02500	10.000	.10000
Low Limit	-.50000	-.02500	-10.000	-.10000

Elem	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm
Avg	.00453	.03631	.12828	.57321
Stddev	.01621	.01453	.14407	.13562
%RSD	357.60	40.017	112.31	23.660
#1	.01600	.04659	.02641	.47732
#2	-.00693	.02604	.23015	.66911
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.25000	.25000	.25000	2.0000
Low Limit	-.25000	-.25000	-.25000	-2.0000

Elem	K_7664	Li6707	Mg2779	Mn2576
Units	ppm	ppm	ppm	ppm
Avg	-3.1448	-.03101	12.970	.01260
Stddev	2.2174	.04321	5.024	.00225
%RSD	70.509	139.33	38.740	17.854
#1	-1.5769	-.06156	16.523	.01419
#2	-4.7127	-.00046	9.4169	.01101
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	25.000	5.0000	25.000	.50000
Low Limit	-25.000	-5.0000	-25.000	-.50000

Sample Name: PBS 8H WG97368-03 Run Time: 05/23/01 23:05

Elem	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm
Avg	-.02597	-1.8417	-.01812	-.19379
Stddev	.02943	.5901	.02130	.05444
%RSD	113.32	32.042	117.53	28.093
#1	-.04677	-1.4244	-.00306	-.15529
#2	-.00516	-2.2590	-.03318	-.23229
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	5.0000	25.000	1.0000	1.0000
Low Limit	-5.0000	-25.000	-1.0000	-1.0000

Elem	Sb2068	Se1960	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm
Avg	.06419	-.06217	1.1286	-.08377
Stddev	.29134	.09074	.1275	.06521
%RSD	453.84	145.95	11.295	77.844
#1	-.14181	-.12633	1.2187	-.03766
#2	.27020	.00199	1.0384	-.12989
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1.0000	1.0000	50.000	25.000
Low Limit	-1.0000	-1.0000	-50.000	-25.000

Elem	Sr2152	Sr3464	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm
Avg	-.18111	-.02778	-.12744	.16486
Stddev	.01450	.26043	.05415	.06414
%RSD	8.0047	937.44	42.492	38.904
#1	-.17086	-.21194	-.08915	.11951
#2	-.19136	.15637	-.16573	.21022
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	.50000	1.5000	2.0000
Low Limit	-.50000	-.50000	-1.5000	-2.0000

Elem	V_3102	Zn2138
Units	ppm	ppm
Avg	.06129	-.00415
Stddev	.06175	.00008
%RSD	100.75	1.8628
#1	.01762	-.00410
#2	.10495	-.00421
Check ?	LC Pass	LC Pass
High Limit	.50000	1.0000
Low Limit	-.50000	-1.0000

Method: CLP5 Sample Name: LCSS 8H WG97368-04 Operator: SLP
Comment:
Run Time: 05/23/01 23:10 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	478.52	19.316	18.654	486.78	48.540
Stddev	1.69	.032	.270	1.35	.004
%RSD	.35246	.16748	1.4471	.27800	.00921
#1	479.71	19.339	18.845	485.82	48.544
#2	477.32	19.293	18.463	487.74	48.537
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	600.00	24.000	24.000	600.00	60.000
Low Limit	400.00	16.000	16.000	400.00	40.000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.3799	478.97	2.4483	9.5888	23.433
Stddev	.0016	1.03	.0233	.0036	.061
%RSD	.06620	.21505	.95106	.03773	.25926
#1	2.3810	479.70	2.4648	9.5862	23.476
#2	2.3788	478.24	2.4318	9.5914	23.390
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	3.0000	601.10	3.0000	12.000	30.000
Low Limit	2.0000	400.73	2.0000	8.0000	20.000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.582	188.72	2398.9	48.475	470.58
Stddev	.240	.54	10.3	.130	3.34
%RSD	.97471	.28371	.42824	.26716	.71014
#1	24.412	189.10	2406.1	48.383	468.21
#2	24.751	188.34	2391.6	48.566	472.94
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	30.000	240.00	3000.0	60.000	600.00
Low Limit	20.000	160.00	2000.0	40.000	400.00

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.693	47.872	2471.6	23.694	23.767
Stddev	.070	.104	3.6	.049	.059
%RSD	.29608	.21828	.14479	.20545	.24788
#1	23.743	47.946	2469.1	23.728	23.808
#2	23.643	47.798	2474.2	23.659	23.725
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	30.000	60.000	3000.0	30.000	30.384
Low Limit	20.000	40.000	2000.0	20.000	20.256

Sample Name: LCSS 8H WG97368-04 Run Time: 05/23/01 23:10

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	57.373	19.287	L 174.85	48.119	49.705
Stddev	.538	.692	.04	.104	.257
%RSD	.93744	3.5901	.02060	.21590	.51767
#1	57.753	19.777	174.82	48.046	49.523
#2	56.993	18.797	174.88	48.193	49.887
Check ?	LC Pass	LC Pass	LC Fail	LC Pass	LC Pass
High Limit	72.000	24.000	300.00	60.000	60.000
Low Limit	48.000	16.000	200.00	40.000	40.000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	48.621	48.687	23.922	47.734	47.153
Stddev	.117	.442	.219	.121	.088
%RSD	.24116	.90848	.91417	.25274	.18751
#1	48.538	48.374	23.768	47.819	47.215
#2	48.704	49.000	24.077	47.648	47.090
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	30.000	60.000	60.828
Low Limit	40.000	40.000	20.000	40.000	40.552

Method: CLP5 Sample Name: 0527315 WG97368-02 Operator: SLP
Comment:
Run Time: 05/23/01 23:15 Type: Unk Mode: CONC Corr.Fact: 49.504951

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	7839.3	-.06671	2.7828	2.9687	128.09
Stddev	71.3	.37795	.0238	.4139	1.19
%RSD	.90950	566.56	.85379	13.943	.92873
#1	7788.9	.20054	2.7660	3.2614	127.25
#2	7889.7	-.33396	2.7996	2.6760	128.93
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40879	9854.4	.16530	2.8326	6.2708
Stddev	.00247	91.1	.03322	.0028	.0352
%RSD	.60325	.92480	20.094	.09974	.56178
#1	.40705	9790.0	.14182	2.8346	6.2957
#2	.41053	9918.9	.18879	2.8306	6.2459
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.8135	6679.5	2106.6	8.5192	2247.2
Stddev	.1434	11.6	9.8	.0886	41.5
%RSD	2.4665	.17311	.46408	1.0394	1.8465
#1	5.7121	6687.6	2099.6	8.4566	2217.8
#2	5.9148	6671.3	2113.5	8.5818	2276.5
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	175.09	.07617	65.035	3.9452	25.814
Stddev	.24	.01124	.235	.0382	.047
%RSD	.13552	14.762	.36159	.96706	.18185
#1	175.25	.08412	65.201	3.9182	25.848
#2	174.92	.06822	64.868	3.9721	25.781
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: 0527315 WG97368-02 Run Time: 05/23/01 23:15

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.54562	2.0035	1501.2	1.0397	19.082
Stddev	.24474	.1806	5.5	.0775	.251
%RSD	44.856	9.0152	.36669	7.4491	1.3179
#1	.37256	2.1312	1505.1	1.0944	19.260
#2	.71868	1.8758	1497.3	.98491	18.904
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	22.789	275.98	.08567	14.990	28.223
Stddev	.028	3.15	.25566	.180	.084
%RSD	.12193	1.1415	298.43	1.2035	.29786
#1	22.809	273.75	.26645	15.118	28.282
#2	22.770	278.21	-.09511	14.863	28.163
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527316DP WG97368-07 Operator: SLP
Comment:
Run Time: 05/23/01 23:20 Type: Unk Mode: CONC Corr.Fact: 49.504951

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	7999.6	.44440	2.8943	2.4603	153.79
Stddev	64.2	.03004	.0972	.0743	1.51
%RSD	.80295	6.7600	3.3585	3.0183	.98481
#1	7954.2	.42316	2.8256	2.4078	152.72
#2	8045.0	.46565	2.9631	2.5128	154.86
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43880	9637.4	.16326	2.8899	8.4716
Stddev	.00079	65.8	.02934	.0116	.0377
%RSD	.18089	.68257	17.973	.40294	.44547
#1	.43824	9590.9	.18400	2.8981	8.4983
#2	.43936	9683.9	.14251	2.8817	8.4449
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	6.3783	7244.6	2100.6	8.7492	2256.5
Stddev	.2201	2.7	16.5	.0423	8.2
%RSD	3.4502	.03733	.78644	.48345	.36212
#1	6.5339	7242.7	2089.0	8.7193	2250.7
#2	6.2227	7246.5	2112.3	8.7791	2262.3
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	166.14	.12210	67.999	3.9697	37.831
Stddev	.13	.04927	.111	.0268	.091
%RSD	.07562	40.352	.16329	.67451	.24177
#1	166.05	.08726	67.921	3.9886	37.896
#2	166.23	.15694	68.078	3.9507	37.766
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527316DP WG97368-07 Run Time: 05/23/01 23:20

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44851	1.9345	1440.0	1.2861	26.989
Stddev	.31030	.2124	4.2	.1936	.238
%RSD	69.184	10.977	.29435	15.057	.88104
#1	.66792	2.0846	1437.0	1.1492	26.821
#2	.22909	1.7843	1443.0	1.4231	27.157
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	30.914	269.09	-.09671	14.964	29.286
Stddev	.228	2.52	.21144	.049	.029
%RSD	.73655	.93501	218.64	.32970	.09832
#1	30.753	267.32	-.24621	14.999	29.266
#2	31.075	270.87	.05280	14.929	29.306
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527304 WG97368-01 Operator: SLP
Comment:
Run Time: 05/23/01 23:25 Type: Unk Mode: CONC Corr.Fact: 48.543690

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8591.3	-.13021	3.0739	1.9248	151.94
Stddev	103.6	.45892	.1188	.1817	1.51
%RSD	1.2054	352.45	3.8664	9.4412	.99703
#1	8518.1	-.45471	3.1580	2.0533	150.87
#2	8664.5	.19430	2.9899	1.7963	153.01
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40649	7508.1	.14416	2.9288	7.0523
Stddev	.00877	96.0	.00546	.0104	.0161
%RSD	2.1567	1.2788	3.7890	.35452	.22861
#1	.40029	7440.2	.14802	2.9362	7.0409
#2	.41269	7576.0	.14029	2.9215	7.0637
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.7179	6734.1	1950.2	9.4427	2419.3
Stddev	.3270	3.6	8.1	.1292	27.4
%RSD	5.7190	.05338	.41632	1.3684	1.1310
#1	5.4866	6731.5	1944.4	9.3514	2400.0
#2	5.9491	6736.6	1955.9	9.5341	2438.7
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	179.44	.05449	55.145	4.0026	23.469
Stddev	.03	.02196	.666	.0152	.035
%RSD	.01478	40.305	1.2076	.37881	.14982
#1	179.46	.03896	55.616	4.0134	23.444
#2	179.42	.07002	54.674	3.9919	23.494
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527304 WG97368-01 Run Time: 05/23/01 23:25

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2707	2.0984	1940.9	.77785	18.082
Stddev	.1301	.1703	.1	.01268	.041
%RSD	10.237	8.1134	.00628	1.6300	.22647
#1	1.1787	2.2188	1941.0	.78682	18.111
#2	1.3627	1.9780	1940.8	.76889	18.053
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	20.577	265.07	-.01585	14.632	27.311
Stddev	.110	3.14	.07323	.014	.020
%RSD	.53685	1.1841	462.16	.09291	.07180
#1	20.499	262.85	-.06763	14.641	27.325
#2	20.656	267.29	.03594	14.622	27.298
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527304SDL.2 Operator: SLP
Comment:
Run Time: 05/23/01 23:29 Type: Unk Mode: CONC Corr.Fact: 242.718460

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8782.1	.14660	2.1575	.93519	153.72
Stddev	17.8	.29988	.1181	.37349	.61
%RSD	.20305	204.55	5.4723	39.937	.39435
#1	8794.7	-.06544	2.0741	.67109	154.15
#2	8769.5	.35865	2.2410	1.1993	153.29
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40800	7784.0	.23294	3.2688	7.6009
Stddev	.02810	20.8	.06923	.2023	.0705
%RSD	6.8884	.26725	29.721	6.1878	.92737
#1	.42787	7798.7	.18399	3.1257	7.6508
#2	.38812	7769.3	.28190	3.4118	7.5511
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.1973	7214.3	2002.3	9.8984	2550.6
Stddev	1.9315	23.9	15.9	.0824	32.1
%RSD	37.163	.33182	.79380	.83242	1.2602
#1	3.8316	7231.3	2013.5	9.8401	2527.9
#2	6.5631	7197.4	1991.0	9.9566	2573.4
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	200.50	.14175	49.535	4.3237	25.494
Stddev	.31	.25241	3.276	.0468	1.049
%RSD	.15661	178.07	6.6137	1.0833	4.1141
#1	200.72	-.03673	51.851	4.2906	26.236
#2	200.27	.32022	47.218	4.3569	24.753
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527304SDL.2 Run Time: 05/23/01 23:29

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -1.9674	1.5520	2086.7	.98047	20.129
Stddev	1.6324	.0099	12.5	.25309	.130
%RSD	82.974	.63619	.59722	25.813	.64802
#1	-3.1217	1.5590	2095.5	.80151	20.222
#2	-.81308	1.5450	2077.9	1.1594	20.037
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	21.239	269.48	.77458	15.570	28.629
Stddev	.560	1.02	.09470	.775	.053
%RSD	2.6364	.37947	12.226	4.9755	.18351
#1	20.843	270.20	.84154	16.118	28.666
#2	21.635	268.76	.70761	15.022	28.592
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

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Method: CLP5 Sample Name: 0527304SDL.04 Operator: SLP
Comment:
Run Time: 05/23/01 23:34 Type: Unk Mode: CONC Corr.Fact: 1213.592285

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8511.5	2.6741	2.0006	-3.4893	153.76
Stddev	168.0	10.755	.5966	3.1408	.91
%RSD	1.9737	402.19	29.821	90.012	.59299
#1	8392.7	-4.9307	1.5787	-1.2684	153.12
#2	8630.3	10.279	2.4225	-5.7102	154.40
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28355	7858.8	L -.18051	3.4986	7.3495
Stddev	.06018	2.0	.23117	.0169	1.2256
%RSD	21.223	.02520	128.07	.48345	16.675
#1	.24100	7860.2	-.01705	3.4866	6.4829
#2	.32610	7857.4	-.34397	3.5105	8.2161
Check ?	LC Pass	LC Pass	LC Fail	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -6.4691	6740.9	1974.7	10.935	2812.6
Stddev	8.1476	4.0	31.6	.393	163.3
%RSD	125.95	.06004	1.5989	3.5951	5.8051
#1	-12.230	6738.0	1952.4	10.657	2697.1
#2	-.7079	6743.8	1997.0	11.213	2928.0
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	192.12	-1.6758	12.041	5.3488	28.092
Stddev	.30	.7694	10.223	1.0837	1.651
%RSD	.15360	45.912	84.900	20.261	5.8774
#1	191.91	-2.2199	4.8124	6.1151	26.925
#2	192.33	-1.1318	19.270	4.5825	29.260
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1395

Sample Name: 0527304SDL.04 Run Time: 05/23/01 23:34

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.38109	L -2.5165	1981.7	-2.4787	25.111
Stddev	1.6211	3.9721	12.5	1.5832	1.182
%RSD	425.38	157.84	.63038	63.873	4.7068
#1	-1.5274	.29222	1990.6	-1.3592	24.275
#2	.76519	-5.3252	1972.9	-3.5982	25.946
Check ?	LC Pass	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	32.624	270.71	3.9098	13.203	27.371
Stddev	1.402	.77	3.4811	2.092	.176
%RSD	4.2976	.28318	89.037	15.842	.64277
#1	33.615	270.16	1.4482	11.724	27.247
#2	31.632	271.25	6.3713	14.683	27.496
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1396

Method: CLP5 Sample Name: 0527304PS.9 Operator: SLP
Comment:
Run Time: 05/23/01 23:39 Type: Unk Mode: CONC Corr.Fact: 48.543690

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8302.1	9.5377	49.663	47.946	612.68
Stddev	29.6	.2507	.047	.111	1.71
%RSD	.35691	2.6290	.09512	.23086	.27936
#1	8323.1	9.7150	49.630	48.024	613.89
#2	8281.2	9.3604	49.696	47.867	611.47
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	46.247	7312.0	47.381	47.669	51.598
Stddev	.101	24.0	.142	.140	.100
%RSD	.21751	.32760	.29919	.29375	.19313
#1	46.318	7328.9	47.482	47.768	51.669
#2	46.176	7295.0	47.281	47.570	51.528
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	52.774	5991.2	4082.9	504.71	2671.4
Stddev	.022	11.3	56.0	2.35	4.9
%RSD	.04213	.18808	1.3718	.46548	.18519
#1	52.790	5999.2	4122.5	506.37	2674.9
#2	52.759	5983.2	4043.3	503.05	2667.9
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	201.79	46.579	2467.8	47.846	65.569
Stddev	.45	.125	19.9	.149	.177
%RSD	.22460	.26844	.80534	.31182	.26984
#1	202.11	46.667	2481.9	47.951	65.694
#2	201.46	46.490	2453.8	47.740	65.444
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527304PS.9 Run Time: 05/23/01 23:39

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.101	47.657	2187.9	.84943	63.013
Stddev	.021	.659	2.9	.06330	.227
%RSD	.04298	1.3831	.13277	7.4517	.36057
#1	49.116	48.123	2190.0	.80467	63.173
#2	49.086	47.191	2185.9	.89419	62.852
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	65.584	287.70	45.154	60.077	70.500
Stddev	.255	1.66	.200	.583	.102
%RSD	.38840	.57722	.44326	.97021	.14427
#1	65.764	288.88	45.296	60.489	70.572
#2	65.404	286.53	45.013	59.664	70.428
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527305S WG97368-05 Operator: SLP
Comment:
Run Time: 05/23/01 23:44 Type: Unk Mode: CONC Corr.Fact: 51.546391

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10953.	19.025	22.671	489.20	186.06
Stddev	12.	.032	.380	5.28	.04
%RSD	.10729	.16744	1.6772	1.0785	.01931
#1	10945.	19.047	22.940	492.93	186.03
#2	10961.	19.002	22.402	485.46	186.08
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.8929	8556.6	2.5291	12.759	30.238
Stddev	.0076	5.3	.0323	.113	.036
%RSD	.26333	.06232	1.2767	.88393	.11807
#1	2.8875	8552.9	2.5519	12.839	30.263
#2	2.8983	8560.4	2.5063	12.680	30.213
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	30.671	7440.1	4683.6	61.398	3228.6
Stddev	.098	30.4	7.5	.216	13.7
%RSD	.31870	.40810	.16010	.35257	.42522
#1	30.740	7461.6	4678.3	61.245	3218.9
#2	30.602	7418.6	4688.9	61.551	3238.3
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	207.52	45.700	2592.1	27.754	40.688
Stddev	.45	.282	.2	.154	.041
%RSD	.21680	.61647	.00866	.55610	.09972
#1	207.84	45.899	2591.9	27.864	40.716
#2	207.20	45.501	2592.2	27.645	40.659
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1399

Sample Name: 0527305S WG97368-05 Run Time: 05/23/01 23:44

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	18.356	22.849	1256.7	44.305	68.524
Stddev	.091	.291	11.3	.537	1.198
%RSD	.49476	1.2724	.89750	1.2124	1.7487
#1	18.420	23.055	1264.7	44.684	69.372
#2	18.292	22.643	1248.7	43.925	67.677
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	72.257	375.12	23.627	64.576	77.955
Stddev	.387	.64	.409	.124	.465
%RSD	.53567	.16937	1.7319	.19277	.59691
#1	71.983	374.67	23.338	64.488	78.284
#2	72.531	375.57	23.917	64.664	77.626
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527306SD WG97368-06 Operator: SLP
Comment:
Run Time: 05/23/01 23:49 Type: Unk Mode: CONC Corr.Fact: 48.543690

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10867.	17.511	20.769	446.21	184.46
Stddev	18.	.095	.000	.13	.47
%RSD	.16706	.54068	.00097	.02844	.25385
#1	10880.	17.578	20.768	446.30	184.79
#2	10854.	17.445	20.769	446.12	184.13
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.6983	8828.2	2.3154	11.660	28.563
Stddev	.0073	3.3	.0246	.070	.002
%RSD	.27025	.03787	1.0626	.60224	.00780
#1	2.7034	8830.6	2.2980	11.611	28.564
#2	2.6931	8825.8	2.3328	11.710	28.561
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	28.770	7201.4	4472.2	57.679	3140.3
Stddev	.213	1.3	11.6	.250	18.0
%RSD	.74162	.01757	.25916	.43280	.57198
#1	28.619	7200.5	4480.4	57.856	3153.0
#2	28.921	7202.3	4464.0	57.503	3127.6
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	199.59	41.946	2370.8	25.423	37.107
Stddev	.02	.097	.7	.039	.090
%RSD	.01029	.23068	.02887	.15478	.24329
#1	199.57	41.877	2370.3	25.451	37.043
#2	199.60	42.014	2371.2	25.395	37.171
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527306SD WG97368-06 Run Time: 05/23/01 23:49

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	16.257	21.341	1115.7	39.772	63.986
Stddev	.043	.406	.6	.101	.138
%RSD	.26620	1.9031	.05080	.25501	.21543
#1	16.227	21.054	1115.3	39.701	63.888
#2	16.288	21.628	1116.1	39.844	64.083
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	68.444	406.49	21.445	61.045	74.326
Stddev	.143	1.18	.006	.263	.058
%RSD	.20842	.29007	.02723	.43055	.07774
#1	68.545	407.33	21.441	61.231	74.285
#2	68.343	405.66	21.449	60.859	74.366
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1402

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/23/01 23:54 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.140	.39180	.39604	10.150	1.0386
Stddev	.162	.00378	.00441	.054	.0003
%RSD	1.5970	.96484	1.1130	.53645	.03265
#1	10.026	.39447	.39292	10.111	1.0388
#2	10.255	.38913	.39916	10.188	1.0383
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04987	10.176	.05193	.20362	.49608
Stddev	.00008	.021	.00053	.00005	.00044
%RSD	.16639	.20664	1.0181	.02298	.08871
#1	.04993	10.191	.05156	.20365	.49577
#2	.04981	10.161	.05231	.20358	.49639
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51011	3.9945	49.719	.99560	10.076
Stddev	.00478	.0010	.076	.00403	.000
%RSD	.93786	.02403	.15386	.40461	.00256
#1	.51349	3.9939	49.773	.99845	10.076
#2	.50672	3.9952	49.664	.99276	10.076
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49986	1.0139	50.478	.50509	.50673
Stddev	.00006	.0041	.142	.00085	.00046
%RSD	.01133	.40878	.28033	.16736	.09074
#1	.49990	1.0110	50.578	.50449	.50640
#2	.49982	1.0168	50.378	.50569	.50705
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1403

Analysis Report

Sample Name: CCV Run Time: 05/23/01 23:54

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2076	.39832	4.9839	.99687	1.0161
Stddev	.0045	.00764	.0129	.00285	.0078
%RSD	.36954	1.9187	.25920	.28585	.76428
#1	1.2045	.39292	4.9748	.99485	1.0107
#2	1.2108	.40372	4.9931	.99888	1.0216
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0150	1.0099	.51349	1.0133	1.0045
Stddev	.0012	.0001	.00287	.0012	.0016
%RSD	.11505	.01328	.55823	.11966	.15806
#1	1.0158	1.0098	.51146	1.0124	1.0034
#2	1.0141	1.0099	.51551	1.0141	1.0056
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1404

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/23/01 23:59 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.03028	H .00711	.00142	.01443	.00019
Stddev	.02570	.00186	.00049	.00485	.00009
%RSD	84.872	26.202	34.595	33.620	48.004
#1	-.01211	.00843	.00176	.01787	.00026
#2	-.04846	.00580	.00107	.01100	.00013
Check ?	LC Pass	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00007	.00388	.00009	.00071	.00000
Stddev	.00012	.00920	.00073	.00013	.0004
%RSD	165.75	237.24	807.35	18.483	20817.
#1	-.00015	-.00263	-.00042	.00080	.00030
#2	.00001	.01039	.00060	.00061	-.00030
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00262	.00614	-.04621	.00564	-.02461
Stddev	.00194	.00148	.01003	.00010	.03341
%RSD	74.049	24.124	21.714	1.6847	135.79
#1	-.00398	.00510	-.05330	.00557	-.04824
#2	-.00125	.00719	-.03911	.00571	-.00098
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.00057	-.04141	.00101	.00179
Stddev	.00003	.00032	.00789	.00020	.00045
%RSD	15.417	55.542	19.041	19.357	24.980
#1	.00024	.00079	-.04699	.00115	.00147
#2	.00019	.00035	-.03584	.00087	.00211
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/23/01 23:59

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00320	.00417	.00669	.00146	-.00142
Stddev	.00402	.00437	.00456	.00000	.00263
%RSD	125.91	104.93	68.169	.06143	184.68
#1	.00604	.00726	.00991	.00146	-.00328
#2	.00035	.00107	.00346	.00146	.00044
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00095	-.00034	-.00045	.00223	.00123
Stddev	.00347	.00188	.00089	.00317	.00009
%RSD	363.82	554.94	198.83	142.14	7.7118
#1	-.00341	.00099	.00018	-.00001	.00130
#2	.00150	-.00167	-.00108	.00447	.00116
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

1406

Method: CLP5 Sample Name: 0527301 Operator: SLP
Comment:
Run Time: 05/24/01 00:04 Type: Unk Mode: CONC Corr.Fact: 49.019608

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	11765.	.07785	3.5969	-1.2101	123.19
Stddev	34.	.27799	.0974	.0274	.80
%RSD	.28514	357.07	2.7074	2.2684	.64652
#1	11742.	.27442	3.6657	-1.2295	122.62
#2	11789.	-.11871	3.5280	-1.1907	123.75
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51341	11957.	.06630	3.3905	8.0610
Stddev	.00081	43.	.00189	.0273	.0704
%RSD	.15816	.36125	2.8444	.80435	.87293
#1	.51283	11927.	.06497	3.4098	8.1107
#2	.51398	11988.	.06763	3.3712	8.0112
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.8595	8469.5	2382.8	11.956	3127.4
Stddev	.1700	30.1	21.5	.007	8.2
%RSD	2.9018	.35555	.90302	.05793	.26271
#1	5.9797	8490.8	2367.5	11.951	3121.6
#2	5.7393	8448.2	2398.0	11.961	3133.2
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	157.90	.03873	57.738	5.2220	7.9519
Stddev	.53	.00225	.040	.0006	.0604
%RSD	.33694	5.8059	.06923	.01054	.75908
#1	158.28	.03714	57.766	5.2224	7.9092
#2	157.53	.04032	57.710	5.2216	7.9946
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1407

Sample Name: 0527301 Run Time: 05/24/01 00:04

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.66218	2.6770	1408.4	.57759	14.954
Stddev	.08541	.3128	2.6	.05111	.453
%RSD	12.898	11.686	.18781	8.8494	3.0268
#1	.72257	2.4558	1410.3	.61374	14.634
#2	.60179	2.8982	1406.5	.54145	15.274
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	20.560	286.85	.22802	18.680	25.630
Stddev	.029	1.70	.11693	.120	.073
%RSD	.13869	.59345	51.282	.64127	.28431
#1	20.540	285.65	.14533	18.596	25.682
#2	20.580	288.06	.31070	18.765	25.579
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527302 Operator: SLP
Comment:
Run Time: 05/24/01 00:08 Type: Unk Mode: CONC Corr.Fact: 48.543690

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	8673.6	.19262	2.7425	-.58080	96.317
Stddev	7.0	.00105	.1200	.00021	.203
%RSD	.08049	.54383	4.3763	.03602	.21128
#1	8678.6	.19336	2.8273	-.58065	96.461
#2	8668.7	.19188	2.6576	-.58094	96.173
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40933	4759.3	.12078	2.8981	6.3394
Stddev	.00478	5.6	.02131	.0141	.0036
%RSD	1.1681	.11842	17.640	.48588	.05732
#1	.41271	4763.3	.13584	2.8882	6.3420
#2	.40595	4755.3	.10571	2.9081	6.3368
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.4636	6887.2	1893.1	7.6571	2108.2
Stddev	.0307	24.8	3.0	.0391	6.4
%RSD	.56094	.36060	.15928	.51121	.30302
#1	5.4420	6904.8	1895.2	7.6848	2112.7
#2	5.4853	6869.7	1890.9	7.6294	2103.7
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	170.47	.03111	46.460	3.8618	12.207
Stddev	.55	.02858	.112	.0042	.209
%RSD	.32374	91.884	.24205	.10948	1.7099
#1	170.86	.05132	46.539	3.8648	12.060
#2	170.08	.01090	46.380	3.8588	12.355
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1409

Sample Name: 0527302 Run Time: 05/24/01 00:08

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36055	1.8730	1458.7	.74203	9.2252
Stddev	.10750	.1680	6.1	.16455	.0301
%RSD	29.815	8.9694	.42038	22.175	.32620
#1	.43656	1.9918	1463.1	.85838	9.2039
#2	.28454	1.7542	1454.4	.62568	9.2464
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	12.134	265.11	-.03248	14.296	24.847
Stddev	.085	.19	.07480	.106	.103
%RSD	.69981	.07281	230.30	.73949	.41496
#1	12.074	264.97	-.08537	14.371	24.920
#2	12.194	265.24	.02041	14.222	24.774
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527303 Operator: SLP
Comment:
Run Time: 05/24/01 00:13 Type: Unk Mode: CONC Corr.Fact: 45.871559

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	6114.0	.21869	2.3803	-1.1575	88.522
Stddev	17.7	.17333	.0222	.0838	.217
%RSD	.28931	79.257	.93222	7.2366	.24483
#1	6126.5	.09613	2.3646	-1.0983	88.368
#2	6101.5	.34126	2.3960	-1.2167	88.675
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.33063	6305.6	.09180	2.2614	5.0200
Stddev	.00528	23.1	.04915	.0189	.0163
%RSD	1.5965	.36559	53.540	.83604	.32395
#1	.33436	6321.9	.12655	2.2480	5.0315
#2	.32690	6289.3	.05705	2.2748	5.0085
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	4.8416	5234.6	1350.4	6.9170	1902.1
Stddev	.0148	7.2	4.0	.0958	10.6
%RSD	.30657	.13772	.29872	1.3856	.55940
#1	4.8312	5239.7	1347.5	6.9848	1909.6
#2	4.8521	5229.5	1353.2	6.8492	1894.6
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	133.17	.17422	43.533	3.3165	14.238
Stddev	.11	.02074	.358	.0019	.093
%RSD	.07993	11.908	.82134	.05622	.65510
#1	133.25	.15955	43.281	3.3178	14.172
#2	133.10	.18888	43.786	3.3151	14.304
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Analysis Report

Sample Name: 0527303 Run Time: 05/24/01 00:13

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28577	2.7601	1527.0	.61662	10.644
Stddev	.00052	.0801	.3	.13156	.304
%RSD	.18082	2.9018	.01985	21.336	2.8600
#1	.28540	2.7035	1527.2	.70965	10.429
#2	.28613	2.8167	1526.8	.52359	10.860
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	13.418	210.90	.14895	11.569	28.834
Stddev	.398	.40	.18816	.044	.031
%RSD	2.9633	.19135	126.32	.38077	.10817
#1	13.700	210.62	.01590	11.600	28.856
#2	13.137	211.19	.28200	11.538	28.812
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1412

Method: CLP5 Sample Name: 0527307 Operator: SLP
Comment:
Run Time: 05/24/01 00:18 Type: Unk Mode: CONC Corr.Fact: 52.083336

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	25509.	.08858	4.2192	-3.9810	102.89
Stddev	219.	.03475	.1007	.0321	.80
%RSD	.85693	39.233	2.3861	.80667	.77434
#1	25355.	.06400	4.1480	-3.9583	102.32
#2	25664.	.11315	4.2904	-4.0037	103.45
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0594	3997.4	.10478	5.8166	14.264
Stddev	.0009	39.1	.00331	.0416	.019
%RSD	.08152	.97791	3.1572	.71531	.13102
#1	1.0600	3969.7	.10712	5.8460	14.277
#2	1.0588	4025.0	.10244	5.7871	14.250
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.588	15128.	5668.0	22.830	6746.7
Stddev	.154	35.	13.8	.092	90.6
%RSD	1.4547	.23129	.24346	.40091	1.3426
#1	10.479	15152.	5677.7	22.765	6682.7
#2	10.697	15103.	5658.2	22.894	6810.8
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	288.10	-.04449	450.95	10.406	5.6866
Stddev	.50	.02585	.41	.069	.0524
%RSD	.17498	58.110	.09193	.66671	.92173
#1	288.46	-.02621	450.66	10.455	5.6495
#2	287.75	-.06277	451.24	10.357	5.7236
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527307 Run Time: 05/24/01 00:18

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.0483	5.7400	1603.6	.96900	31.529
Stddev	.3755	.0007	8.6	.17654	.377
%RSD	18.330	.01204	.53811	18.219	1.1971
#1	1.7828	5.7404	1609.7	.84416	31.796
#2	2.3138	5.7395	1597.5	1.0938	31.262
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	42.332	381.35	.08236	23.973	51.419
Stddev	.241	3.39	.04657	.292	.200
%RSD	.56936	.88923	56.547	1.2182	.38986
#1	42.162	378.95	.11529	23.766	51.561
#2	42.503	383.75	.04943	24.179	51.277
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527308 Operator: SLP
Comment:
Run Time: 05/24/01 00:23 Type: Unk Mode: CONC Corr.Fact: 45.454544

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	20170.	-.14093	4.3566	-4.8266	79.516
Stddev	51.	.00081	.0920	.3194	.265
%RSD	.25392	.57300	2.1107	6.6177	.33331
#1	20134.	-.14036	4.4216	-4.6008	79.328
#2	20206.	-.14150	4.2915	-5.0525	79.703
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.90599	5606.9	-.07002	5.3759	12.815
Stddev	.00162	2.6	.00709	.0521	.069
%RSD	.17904	.04614	10.131	.96950	.54113
#1	.90484	5605.1	-.06501	5.4128	12.864
#2	.90714	5608.7	-.07504	5.3391	12.766
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	9.0362	12719.	3674.2	32.126	7703.1
Stddev	.2169	68.	13.4	.012	10.2
%RSD	2.4000	.53552	.36500	.03598	.13184
#1	9.1895	12767.	3664.7	32.134	7695.9
#2	8.8828	12671.	3683.6	32.118	7710.2
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	201.29	-.08824	291.66	9.3092	4.8235
Stddev	.66	.05350	.78	.0330	.0771
%RSD	.32563	60.624	.26833	.35479	1.5995
#1	201.76	-.05041	292.21	9.3326	4.8781
#2	200.83	-.12607	291.10	9.2858	4.7689
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1415

Sample Name: 0527308 Run Time: 05/24/01 00:23

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8324	4.9975	1390.3	.73672	45.639
Stddev	.0652	.0044	10.1	.04739	1.131
%RSD	3.5592	.08813	.72572	6.4332	2.4777
#1	1.7862	5.0006	1397.5	.77023	46.439
#2	1.8785	4.9944	1383.2	.70320	44.840
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	54.563	390.18	.02404	26.947	36.751
Stddev	.440	.24	.14239	.074	.274
%RSD	.80651	.06055	592.24	.27389	.74502
#1	54.874	390.01	-.07664	26.999	36.945
#2	54.251	390.35	.12473	26.895	36.558
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527309 Operator: SLP
Comment:
Run Time: 05/24/01 00:28 Type: Unk Mode: CONC Corr.Fact: 51.020409

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	28133.	-.05248	9.1257	-.85242	127.57
Stddev	165.	.16007	.2488	.03811	.30
%RSD	.58697	305.04	2.7267	4.4703	.23775
#1	28016.	.06071	8.9498	-.87936	127.36
#2	28250.	-.16567	9.3017	-.82547	127.79
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2812	7053.9	-.04609	10.190	14.290
Stddev	.0067	14.5	.03359	.013	.035
%RSD	.52206	.20549	72.880	.13102	.24325
#1	1.2859	7043.6	-.06984	10.180	14.315
#2	1.2764	7064.1	-.02234	10.199	14.266
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	14.466	16712.	6254.0	47.230	9771.6
Stddev	.150	25.	12.3	.028	65.2
%RSD	1.0358	.14943	.19674	.06005	.66735
#1	14.360	16730.	6245.3	47.210	9725.5
#2	14.572	16695.	6262.7	47.250	9817.7
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	384.50	-.00039	133.65	12.490	11.759
Stddev	.85	.04844	.10	.041	.123
%RSD	.22065	12501.	.07819	.32741	1.0457
#1	385.10	.03386	133.57	12.461	11.846
#2	383.90	-.03464	133.72	12.519	11.672
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527309 Run Time: 05/24/01 00:28

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.3427	6.1609	1622.2	.86456	50.417
Stddev	.0439	.3158	1.9	.05318	.597
%RSD	1.8733	5.1252	.11629	6.1505	1.1848
#1	2.3737	6.3841	1620.8	.82696	49.995
#2	2.3117	5.9376	1623.5	.90217	50.840
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	61.372	269.63	.77402	39.756	59.372
Stddev	.150	2.22	.18070	.176	.073
%RSD	.24399	.82325	23.345	.44255	.12347
#1	61.266	268.06	.90179	39.632	59.320
#2	61.478	271.20	.64625	39.881	59.424
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527312 Operator: SLP
Comment:
Run Time: 05/24/01 00:33 Type: Unk Mode: CONC Corr.Fact: 52.631580

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	5607.7	-.19957	2.2520	-.42477	94.523
Stddev	21.0	.36359	.0259	.09495	.119
%RSD	.37406	182.19	1.1489	22.353	.12615
#1	5622.5	.05753	2.2703	-.35763	94.607
#2	5592.9	-.45667	2.2337	-.49191	94.438
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31799	8280.2	.15531	2.1720	4.4155
Stddev	.00089	36.5	.00498	.0091	.0258
%RSD	.27855	.44104	3.2045	.41911	.58453
#1	.31862	8306.0	.15883	2.1655	4.4337
#2	.31737	8254.4	.15179	2.1784	4.3972
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	4.7601	5022.1	1273.0	7.6563	1821.5
Stddev	.0177	1.5	5.6	.0651	5.4
%RSD	.37277	.03042	.44251	.85005	.29547
#1	4.7476	5023.2	1269.0	7.7024	1825.3
#2	4.7727	5021.0	1277.0	7.6103	1817.7
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	131.93	.11698	41.007	3.0704	15.999
Stddev	.04	.03577	1.087	.0020	.059
%RSD	.03244	30.580	2.6508	.06571	.36651
#1	131.96	.09168	41.776	3.0690	16.040
#2	131.90	.14227	40.239	3.0719	15.957
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1419

Sample Name: 0527312 Run Time: 05/24/01 00:33

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.62346	1.4538	1814.1	.76571	13.431
Stddev	.04774	.0592	2.8	.04117	.088
%RSD	7.6580	4.0746	.15402	5.3767	.65413
#1	.58970	1.4957	1816.1	.79482	13.493
#2	.65722	1.4119	1812.2	.73660	13.369
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	15.785	208.71	.12996	11.655	32.277
Stddev	.153	.36	.17933	.205	.020
%RSD	.97026	.17484	137.98	1.7568	.06285
#1	15.893	208.97	.25677	11.510	32.263
#2	15.676	208.45	.00316	11.800	32.292
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527313 Operator: SLP
Comment:
Run Time: 05/24/01 00:38 Type: Unk Mode: CONC Corr.Fact: 53.191490

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	5970.1	.10674	1.8212	-.76256	75.785
Stddev	5.3	.13674	.0529	.10429	.042
%RSD	.08952	128.10	2.9019	13.676	.05552
#1	5966.3	.01005	1.8586	-.68882	75.815
#2	5973.9	.20342	1.7838	-.83631	75.755
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.29903	7789.7	.10235	2.2772	4.6656
Stddev	.01140	13.4	.02016	.0289	.0119
%RSD	3.8124	.17195	19.698	1.2692	.25544
#1	.29096	7780.2	.08809	2.2976	4.6740
#2	.30709	7799.2	.11661	2.2568	4.6572
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.7372	5222.5	1357.4	6.8312	1667.1
Stddev	.0154	22.4	2.3	.0724	1.8
%RSD	.41162	.42826	.16904	1.0593	.10509
#1	3.7481	5238.3	1355.7	6.8824	1665.8
#2	3.7263	5206.7	1359.0	6.7800	1668.3
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	142.41	.05002	30.802	3.1940	13.519
Stddev	.52	.06506	.635	.0313	.123
%RSD	.36551	130.05	2.0627	.98004	.90788
#1	142.78	.00402	31.251	3.2161	13.606
#2	142.05	.09602	30.353	3.1718	13.432
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1421

Sample Name: 0527313 Run Time: 05/24/01 00:38

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28286	1.6017	1443.1	.68567	9.2769
Stddev	.00165	.0699	12.4	.02785	.2643
%RSD	.58264	4.3675	.85991	4.0620	2.8493
#1	.28170	1.5522	1451.9	.66597	9.4638
#2	.28403	1.6511	1434.3	.70536	9.0900
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	11.946	192.32	-.11791	11.246	21.587
Stddev	.093	.02	.21248	.233	.109
%RSD	.77477	.01237	180.21	2.0749	.50440
#1	12.011	192.31	.03234	11.081	21.664
#2	11.880	192.34	-.26815	11.411	21.510
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0527314 Operator: SLP
Comment:
Run Time: 05/24/01 00:43 Type: Unk Mode: CONC Corr.Fact: 50.505051

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	5616.6	.18049	2.2788	.31327	117.36
Stddev	36.9	.28403	.4703	.02934	.78
%RSD	.65666	157.36	20.640	9.3669	.66245
#1	5642.7	-.02035	2.6114	.29252	117.91
#2	5590.6	.38133	1.9462	.33402	116.81
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30632	19199.	.25367	2.4901	5.3225
Stddev	.00249	91.	.01489	.0257	.0247
%RSD	.81267	.47304	5.8707	1.0309	.46401
#1	.30808	19263.	.24314	2.4720	5.3051
#2	.30456	19135.	.26420	2.5083	5.3400
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	6.7245	5095.9	1747.4	7.8932	1728.7
Stddev	.0287	1.0	8.0	.0445	5.0
%RSD	.42630	.01903	.45996	.56353	.29179
#1	6.7042	5095.2	1741.7	7.9246	1732.2
#2	6.7448	5096.6	1753.1	7.8617	1725.1
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	206.33	.34657	43.854	4.6224	36.392
Stddev	.04	.04808	.472	.0176	.144
%RSD	.01739	13.873	1.0763	.38044	.39587
#1	206.31	.38057	43.521	4.6349	36.494
#2	206.36	.31257	44.188	4.6100	36.290
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1423

Sample Name: 0527314 Run Time: 05/24/01 00:43

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47300	3.0186	1210.9	1.2376	24.660
Stddev	.52110	.1457	2.7	.0658	.001
%RSD	110.17	4.8285	.22153	5.3199	.00252
#1	.84148	2.9155	1212.8	1.2842	24.659
#2	.10453	3.1216	1209.0	1.1910	24.660
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	28.646	202.61	-.48323	17.780	39.840
Stddev	.469	1.66	.06154	.369	.014
%RSD	1.6360	.82017	12.736	2.0768	.03628
#1	28.315	203.78	-.43971	18.041	39.850
#2	28.978	201.43	-.52675	17.519	39.830
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1424

Method: CLP5 Sample Name: 0527317 Operator: SLP
Comment:
Run Time: 05/24/01 00:47 Type: Unk Mode: CONC Corr.Fact: 51.020409

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	3612.6	.16104	1.7584	-.09473	105.81
Stddev	2.4	.13045	.2005	.09129	.18
%RSD	.06688	81.003	11.401	96.372	.17155
#1	3614.3	.06880	1.6166	-.15928	105.94
#2	3610.9	.25329	1.9001	-.03018	105.68
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25232	7367.3	.12927	1.4240	2.7420
Stddev	.00422	9.0	.01413	.0001	.0163
%RSD	1.6731	.12210	10.930	.00370	.59324
#1	.24934	7373.6	.11928	1.4240	2.7535
#2	.25531	7360.9	.13926	1.4239	2.7305
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.1701	3591.8	922.64	5.3490	1232.3
Stddev	.0643	10.9	1.53	.0600	5.2
%RSD	2.0273	.30254	.16536	1.1224	.42194
#1	3.1247	3584.1	921.56	5.3065	1228.6
#2	3.2156	3599.5	923.72	5.3914	1235.9
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	92.979	-.01141	29.092	1.7554	11.420
Stddev	.057	.02075	.374	.0160	.294
%RSD	.06133	181.91	1.2848	.91104	2.5726
#1	92.938	.00327	28.828	1.7441	11.628
#2	93.019	-.02608	29.357	1.7667	11.213
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527317 Run Time: 05/24/01 00:47

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13223	.97118	915.69	.83633	10.145
Stddev	.22889	.18963	7.45	.11972	.164
%RSD	173.09	19.526	.81402	14.315	1.6192
#1	.29408	.83709	910.42	.75168	10.029
#2	-.02962	1.1053	920.96	.92099	10.261
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	12.398	225.41	-.23388	8.2914	15.496
Stddev	.060	2.29	.15297	.0878	.064
%RSD	.48147	1.0171	65.403	1.0593	.41600
#1	12.356	227.04	-.34205	8.2293	15.450
#2	12.441	223.79	-.12572	8.3536	15.542
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/24/01 00:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	9.9187	.38443	.38387	9.9058	1.0124
Stddev	.0687	.00631	.00391	.1268	.0023
%RSD	.69233	1.6406	1.0185	1.2804	.22443
#1	9.8701	.38889	.38664	9.8161	1.0140
#2	9.9673	.37997	.38111	9.9955	1.0108
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04864	10.011	.05071	.20153	.48625
Stddev	.00015	.038	.00081	.00083	.00177
%RSD	.30015	.37997	1.6032	.41330	.36453
#1	.04874	10.037	.05128	.20094	.48500
#2	.04853	9.9836	.05014	.20212	.48750
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49820	3.9198	48.690	.95330	10.218
Stddev	.01119	.0255	.174	.00057	.134
%RSD	2.2462	.65021	.35754	.05969	1.3143
#1	.49029	3.9017	48.567	.95290	10.123
#2	.50611	3.9378	48.813	.95371	10.313
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48996	.99766	49.341	.49912	.50471
Stddev	.00219	.00774	.082	.00303	.00487
%RSD	.44622	.77620	.16619	.60730	.96554
#1	.48842	.99218	49.283	.49698	.50126
#2	.49151	1.0031	49.399	.50126	.50815
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1427

Sample Name: CCV Run Time: 05/24/01 00:52

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1880	.39652	4.9019	.99556	1.0169
Stddev	.0045	.00365	.0381	.00835	.0102
%RSD	.37776	.92014	.77722	.83875	1.0068
#1	1.1848	.39910	4.8750	.98966	1.0096
#2	1.1912	.39394	4.9288	1.0015	1.0241
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.99537	.98620	.51661	.98775	.99295
Stddev	.00236	.00308	.00123	.00116	.00590
%RSD	.23759	.31236	.23758	.11717	.59442
#1	.99370	.98402	.51748	.98856	.98877
#2	.99704	.98837	.51574	.98693	.99712
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/24/01 00:57 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496
Units	ppm	ppm	ppm	ppm
Avg	L -.08434	.00080	-.00066	.01076
Stddev	.03422	.00191	.00049	.00535
%RSD	40.578	237.12	73.872	49.699
#1	-.10853	.00215	-.00101	.01455
#2	-.06014	-.00054	-.00032	.00698
Check ?	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000
Low Limit	-.05000	-.00500	-.01000	-.05000

Elem	Ba4554	Be3130	Ca3736	Cd2288
Units	ppm	ppm	ppm	ppm
Avg	-.00007	.00001	.02703	.00099
Stddev	.00028	.00010	.01678	.00079
%RSD	427.04	819.90	62.091	80.078
#1	-.00026	.00008	.01516	.00043
#2	.00013	-.00006	.03890	.00155
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.00025	.05000	.00100
Low Limit	-.00250	-.00025	-.05000	-.00100

Elem	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm
Avg	.00077	-.00065	.00276	-.00301
Stddev	.00040	.00031	.00512	.00976
%RSD	51.922	47.926	185.52	324.63
#1	.00049	-.00088	.00638	.00390
#2	.00105	-.00043	-.00086	-.00991
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.00250	.01000	.02000
Low Limit	-.00250	-.00250	-.01000	-.02000

Elem	K_7664	Li6707	Mg2779	Mn2576
Units	ppm	ppm	ppm	ppm
Avg	-.03953	.00635	H .18842	.00021
Stddev	.01475	.00165	.06683	.00000
%RSD	37.324	26.036	35.471	1.0830
#1	-.04997	.00752	.23568	.00021
#2	-.02910	.00518	.14116	.00021
Check ?	LC Pass	LC Pass	LC Fail	LC Pass
High Limit	.25000	.05000	.10000	.00250
Low Limit	-.25000	-.05000	-.10000	-.00250

Sample Name: CCB Run Time: 05/24/01 00:57

Elem	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm
Avg	.00050	-.08147	.00068	-.00521
Stddev	.00050	.01399	.00012	.00207
%RSD	98.843	17.173	17.264	39.775
#1	.00015	-.07158	.00060	-.00667
#2	.00086	-.09136	.00076	-.00374
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.10000	.01000	.01000
Low Limit	-.05000	-.10000	-.01000	-.01000

Elem	Sb2068	Se1960	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm
Avg	-.00726	.00004	.00675	.00109
Stddev	.00448	.00291	.00432	.00104
%RSD	61.763	7633.1	63.994	95.770
#1	-.00409	-.00202	.00980	.00035
#2	-.01042	.00210	.00369	.00183
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000
Low Limit	-.02000	-.01000	-.25000	-.20000

Elem	Sr2152	Sr3464	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm
Avg	-.00177	.00108	.00027	.00278
Stddev	.00603	.00522	.00044	.00313
%RSD	340.25	483.37	163.16	112.48
#1	-.00603	.00477	-.00004	.00057
#2	.00249	-.00261	.00057	.00499
Check ?	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.00500	.01500	.02000
Low Limit	-.00500	-.00500	-.01500	-.02000

Elem	V_3102	Zn2138
Units	ppm	ppm
Avg	-.00343	.00113
Stddev	.00096	.00004
%RSD	28.081	3.7129
#1	-.00275	.00116
#2	-.00411	.00110
Check ?	LC Pass	LC Pass
High Limit	.00728	.01000
Low Limit	-.00728	-.01000

Method: CLP5 Sample Name: 0527318 Operator: SLP
Comment:
Run Time: 05/24/01 01:02 Type: Unk Mode: CONC Corr.Fact: 45.871559

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	9230.1	-.21593	2.6580	-1.0523	123.29
Stddev	79.6	.23067	.0230	.0136	1.52
%RSD	.86206	106.82	.86681	1.2885	1.2362
#1	9173.9	-.05283	2.6743	-1.0427	122.21
#2	9286.4	-.37904	2.6417	-1.0619	124.37
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44675	24105.	.05896	2.4520	4.6514
Stddev	.00002	202.	.03813	.0280	.0089
%RSD	.00528	.83843	64.667	1.1413	.19099
#1	.44673	23962.	.03200	2.4718	4.6577
#2	.44676	24248.	.08593	2.4322	4.6451
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.1983	5832.3	1684.2	16.691	3188.2
Stddev	.2920	12.5	24.2	.090	37.0
%RSD	9.1313	.21381	1.4381	.53638	1.1605
#1	3.4048	5841.2	1667.1	16.754	3162.0
#2	2.9918	5823.5	1701.3	16.628	3214.4
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	116.21	-.05884	44.548	3.4829	4.2252
Stddev	.25	.01041	1.547	.0050	.0218
%RSD	.21496	17.686	3.4719	.14485	.51489
#1	116.39	-.06619	43.454	3.4793	4.2406
#2	116.04	-.05148	45.641	3.4864	4.2099
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0527318 Run Time: 05/24/01 01:02

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.64976	1.5219	1417.1	.65891	17.105
Stddev	.02143	.0336	2.2	.00002	.203
%RSD	3.2986	2.2075	.15714	.00364	1.1889
#1	.63461	1.5457	1418.6	.65893	16.961
#2	.66492	1.4982	1415.5	.65890	17.249
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	21.024	202.27	-.00592	12.821	18.586
Stddev	.054	.18	.16028	.113	.030
%RSD	.25763	.09039	2709.5	.87972	.16136
#1	20.985	202.40	-.11925	12.741	18.607
#2	21.062	202.14	.10742	12.901	18.565
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540606 Operator: SLP
Comment:
Run Time: 05/24/01 01:10 Type: Unk Mode: CONC Corr.Fact: 53.763439

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	390.41	.27857	.27070	1.3580	15.277
Stddev	1.81	.30640	.02621	.2653	.066
%RSD	.46350	109.99	9.6817	19.539	.43288
#1	389.13	.06191	.25217	1.5456	15.231
#2	391.69	.49523	.28923	1.1704	15.324
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00880	18205.	.50634	.26449	1.2722
Stddev	.00798	1.	.01012	.01521	.0722
%RSD	90.729	.00667	1.9982	5.7493	5.6747
#1	.00315	18204.	.49919	.27524	1.3233
#2	.01444	18205.	.51350	.25374	1.2212
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.6139	155.00	73.606	1.7285	327.94
Stddev	.1885	.10	1.099	.0581	.02
%RSD	3.3583	.06449	1.4938	3.3607	.00651
#1	5.7472	154.93	74.383	1.6875	327.96
#2	5.4806	155.07	72.828	1.7696	327.93
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	125.87	.27675	347.82	1.5819	1.5569
Stddev	.29	.07296	1.04	.0105	.2514
%RSD	.22766	26.364	.29937	.66519	16.147
#1	126.07	.32834	347.08	1.5894	1.3791
#2	125.66	.22516	348.55	1.5745	1.7347
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540606 Run Time: 05/24/01 01:10

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.13242	1.6017	160.43	.20728	18.323
Stddev	.04874	.2747	1.93	.07009	.120
%RSD	36.807	17.149	1.2027	33.815	.65704
#1	-.16688	1.4075	161.80	.15771	18.238
#2	-.09796	1.7959	159.07	.25684	18.408
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	17.510	13.075	-1.9306	.87665	39.413
Stddev	.748	.050	.2351	.07845	.007
%RSD	4.2718	.38031	12.179	8.9488	.01747
#1	18.039	13.040	-1.7644	.82118	39.418
#2	16.982	13.110	-2.0969	.93212	39.408
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0539701 Operator: SLP
Comment:
Run Time: 05/24/01 01:15 Type: Unk Mode: CONC Corr.Fact: 49.504951

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	5215.5	-.40756	3.5955	30.587	287.30
Stddev	9.3	.31124	.2671	.123	1.03
%RSD	.17777	76.367	7.4280	.40085	.35817
#1	5208.9	-.18748	3.4066	30.674	286.57
#2	5222.0	-.62764	3.7843	30.500	288.03
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3060	5110.2	-.06294	5.4124	6.2741
Stddev	.0024	21.7	.03905	.0074	.0190
%RSD	.18720	.42437	62.053	.13600	.30240
#1	1.3043	5094.9	-.09055	5.4072	6.2607
#2	1.3078	5125.6	-.03532	5.4176	6.2875
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	22.818	2065.7	708.71	17.280	296.52
Stddev	.191	1.6	5.87	.143	4.98
%RSD	.83751	.07818	.82799	.82837	1.6806
#1	22.682	2064.6	704.56	17.381	292.99
#2	22.953	2066.9	712.86	17.179	300.04
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	7.4259	3.0236	160.02	14.175	1.8802
Stddev	.0131	.0001	.54	.021	.0721
%RSD	.17585	.00250	.33906	.15008	3.8321
#1	7.4167	3.0236	159.63	14.160	1.8293
#2	7.4352	3.0237	160.40	14.190	1.9312
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0539701 Run Time: 05/24/01 01:15

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26038	1.1067	197.89	.34601	695.78
Stddev	.08872	.4499	.59	.05162	.33
%RSD	34.072	40.652	.29776	14.918	.04728
#1	.32312	1.4248	198.30	.38251	696.01
#2	.19765	.78856	197.47	.30951	695.54
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	664.08	233.87	-.30091	26.996	10.384
Stddev	2.83	.54	.05702	.169	.016
%RSD	.42686	.22892	18.948	.62651	.15413
#1	662.08	233.49	-.26059	26.876	10.396
#2	666.09	234.25	-.34122	27.115	10.373
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0539703 Operator: SLP
Comment:
Run Time: 05/24/01 01:20 Type: Unk Mode: CONC Corr.Fact: 46.296295

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	12344.	-.27981	27.038	80.969	555.16
Stddev	57.	.18535	.477	1.028	1.96
%RSD	.45977	66.243	1.7647	1.2690	.35231
#1	12304.	-.41087	26.700	80.243	553.78
#2	12384.	-.14874	27.375	81.696	556.54
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.7464	10684.	.50048	27.590	17.682
Stddev	.0083	13.	.01435	.129	.045
%RSD	.14534	.12232	2.8676	.46670	.25445
#1	5.7405	10674.	.51063	27.498	17.650
#2	5.7523	10693.	.49033	27.681	17.714
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	89.385	3401.9	1342.6	37.135	854.07
Stddev	.101	10.5	1.8	.108	3.12
%RSD	.11322	.30880	.13773	.28980	.36541
#1	89.313	3394.5	1343.9	37.058	851.87
#2	89.456	3409.3	1341.3	37.211	856.28
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	18.714	18.034	392.81	40.062	36.942
Stddev	.014	.074	.60	.097	.509
%RSD	.07503	.40832	.15348	.24227	1.3773
#1	18.704	17.982	392.38	39.993	36.582
#2	18.724	18.087	393.24	40.130	37.301
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: 0539703 Run Time: 05/24/01 01:20

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3384	20.972	507.48	1.8771	H 1549.0
Stddev	.4763	.128	5.02	.1449	25.2
%RSD	35.587	.61254	.98858	7.7171	1.6252
#1	1.6751	21.062	503.93	1.7746	1531.2
#2	1.0016	20.881	511.03	1.9795	1566.8
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1459.8	1386.0	.50885	139.43	67.670
Stddev	1.6	6.7	.12152	1.22	.442
%RSD	.10931	.48080	23.881	.87469	.65365
#1	1458.7	1381.3	.42293	138.57	67.357
#2	1460.9	1390.7	.59478	140.29	67.982
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540405 Operator: SLP
Comment:
Run Time: 05/24/01 01:25 Type: Unk Mode: CONC Corr.Fact: 50.505051

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	13229.	-.10293	.41617	-.70695	8.8485
Stddev	6.	.09548	.00069	.21558	.0181
%RSD	.04232	92.767	.16637	30.495	.20466
#1	13233.	-.03541	.41666	-.55451	8.8613
#2	13226.	-.17044	.41568	-.85940	8.8357
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03893	727.87	.05294	.36988	9.4040
Stddev	.00250	1.30	.03345	.00680	.1908
%RSD	6.4323	.17811	63.176	1.8382	2.0286
#1	.04070	728.79	.07659	.37469	9.5389
#2	.03716	726.96	.02929	.36507	9.2691
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.06084	843.51	93.704	2.3721	202.05
Stddev	.24206	13.85	1.253	.0003	5.06
%RSD	397.88	1.6423	1.3372	.01080	2.5037
#1	-.11032	853.30	92.818	2.3723	198.48
#2	.23200	833.71	94.590	2.3719	205.63
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0427	.01219	6.3766	2.8699	5.2336
Stddev	.0173	.01370	.9055	.0116	.0001
%RSD	1.6604	112.37	14.201	.40335	.00256
#1	1.0549	.02187	7.0169	2.8781	5.2335
#2	1.0304	.00250	5.7363	2.8618	5.2337
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540405 Run Time: 05/24/01 01:25

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09338	1.0266	243.98	.13893	8.4313
Stddev	.26907	.0971	5.88	.03938	.2318
%RSD	288.15	9.4596	2.4098	28.342	2.7494
#1	.28364	1.0952	248.14	.16678	8.5953
#2	-.09689	.95789	239.82	.11109	8.2674
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	7.8543	45.098	.05126	5.1055	1.1110
Stddev	.4101	.156	.19011	.0241	.0183
%RSD	5.2210	.34676	370.92	.47246	1.6494
#1	8.1442	45.209	-.08318	5.0884	1.1240
#2	7.5643	44.988	.18569	5.1226	1.0981
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540406 Operator: SLP
Comment:
Run Time: 05/24/01 01:29 Type: Unk Mode: CONC Corr.Fact: 50.505051

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	20430.	-.02555	.44500	-1.4994	8.1415
Stddev	4.	.19092	.14847	.1690	.0078
%RSD	.01923	747.19	33.364	11.273	.09633
#1	20432.	.10945	.34002	-1.3799	8.1471
#2	20427.	-.16055	.54999	-1.6189	8.1360
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03539	212.77	.02730	.46848	17.498
Stddev	.00250	.88	.00777	.00260	.020
%RSD	7.0621	.41222	28.453	.55425	.11323
#1	.03716	213.39	.02180	.46664	17.512
#2	.03362	212.15	.03279	.47031	17.484
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.06861	1280.3	71.743	3.5261	151.85
Stddev	.27451	1.7	.916	.0435	5.09
%RSD	400.11	.13304	1.2765	1.2329	3.3505
#1	-.12550	1281.5	71.095	3.5568	148.25
#2	.26271	1279.1	72.391	3.4953	155.45
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3166	.13615	11.966	3.7014	2.4141
Stddev	.0037	.01598	.166	.0077	.0541
%RSD	.27750	11.735	1.3842	.20900	2.2422
#1	1.3140	.14744	12.083	3.7069	2.3759
#2	1.3191	.12485	11.849	3.6959	2.4524
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: 0540406 Run Time: 05/24/01 01:29

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01326	1.4896	197.57	.22268	1.3881
Stddev	.49742	.1848	1.20	.00003	.1041
%RSD	3750.6	12.405	.60779	.01184	7.4985
#1	.36499	1.6203	198.42	.22266	1.4617
#2	-.33847	1.3590	196.72	.22270	1.3145
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.1442	73.063	-.00006	16.319	1.0240
Stddev	.4097	.260	.04760	.062	.0057
%RSD	19.106	.35619	74657.	.38255	.56013
#1	1.8545	73.247	.03359	16.274	1.0280
#2	2.4339	72.879	-.03372	16.363	1.0199
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Analysis Report

Method: CLP5 Sample Name: 0540407 Operator: SLP
Comment:
Run Time: 05/24/01 01:34 Type: Unk Mode: CONC Corr.Fact: 50.505051

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	12584.	-.21325	.41258	-2.9614	9.3087
Stddev	2.	.03322	.04941	.0242	.0441
%RSD	.01306	15.576	11.975	.81547	.47386
#1	12585.	-.23674	.37765	-2.9443	9.2775
#2	12582.	-.18977	.44752	-2.9784	9.3399
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03713	562.22	-.00315	.48931	8.7956
Stddev	.00333	1.97	.00787	.00224	.0198
%RSD	8.9719	.35051	250.02	.45803	.22487
#1	.03477	560.83	-.00871	.49090	8.8096
#2	.03948	563.62	.00242	.48773	8.7816
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.32353	2520.9	98.064	2.7650	161.29
Stddev	.11379	.1	8.220	.0870	5.07
%RSD	35.171	.00405	8.3823	3.1451	3.1413
#1	.24307	2520.8	92.252	2.8265	157.70
#2	.40400	2520.9	103.88	2.7035	164.87
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.7448	.30062	5.5142	2.7067	2.5430
Stddev	.0011	.04113	.9416	.0002	.0360
%RSD	.06303	13.682	17.076	.00797	1.4163
#1	1.7441	.32971	4.8484	2.7069	2.5175
#2	1.7456	.27154	6.1801	2.7066	2.5685
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: 0540407 Run Time: 05/24/01 01:34

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.12180	1.0375	195.05	.20412	1.4174
Stddev	.29389	.3496	.74	.07895	.1918
%RSD	241.28	33.696	.38033	38.679	13.528
#1	.32962	1.2847	195.58	.14829	1.2818
#2	-.08601	.79030	194.53	.25995	1.5530
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.5284	63.094	-.20009	8.2115	1.4297
Stddev	.2047	.013	.28327	.1353	.0078
%RSD	5.8026	.02034	141.57	1.6477	.54644
#1	3.6732	63.103	.00021	8.1158	1.4242
#2	3.3837	63.085	-.40039	8.3071	1.4352
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540408 Operator: SLP
Comment:
Run Time: 05/24/01 01:39 Type: Unk Mode: CONC Corr.Fact: 50.505051

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	20576.	.00383	.52609	-1.6172	15.887
Stddev	57.	.09413	.27235	.0544	.004
%RSD	.27735	2460.9	51.768	3.3636	.02672
#1	20616.	-.06274	.71867	-1.6557	15.890
#2	20535.	.07039	.33351	-1.5788	15.884
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05603	482.01	.03403	.52158	12.721
Stddev	.00333	.55	.01239	.00961	.012
%RSD	5.9413	.11485	36.400	1.8419	.09385
#1	.05838	481.62	.04279	.52838	12.730
#2	.05368	482.40	.02527	.51479	12.713
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.29046	1284.8	115.89	4.1633	192.52
Stddev	.08195	1.5	1.63	.0285	1.69
%RSD	28.213	.11301	1.4044	.68506	.87657
#1	.34841	1283.8	117.04	4.1835	193.72
#2	.23252	1285.9	114.74	4.1432	191.33
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.5278	.20843	5.4266	3.6458	3.0245
Stddev	.0017	.00223	1.8260	.0391	.4138
%RSD	.06757	1.0710	33.648	1.0730	13.682
#1	2.5290	.20685	6.7178	3.6182	3.3171
#2	2.5266	.21001	4.1355	3.6735	2.7319
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540408 Run Time: 05/24/01 01:39

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34947	1.4071	158.65	.23200	1.9429
Stddev	.20369	.4257	.34	.03947	.1285
%RSD	58.284	30.256	.21190	17.012	6.6156
#1	.49350	1.7081	158.41	.20409	1.8520
#2	.20544	1.1060	158.89	.25991	2.0338
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.0547	82.678	.08316	7.9882	2.0184
Stddev	.3514	.068	.46370	.1715	.0035
%RSD	11.502	.08283	557.57	2.1472	.17553
#1	2.8063	82.727	.41105	8.1095	2.0159
#2	3.3032	82.630	-.24472	7.8669	2.0209
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540409 Operator: SLP
Comment:
Run Time: 05/24/01 01:44 Type: Unk Mode: CONC Corr.Fact: 49.504951

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	18380.	-.25802	1.1126	L -7.6368	7.8637
Stddev	39.	.12581	.1941	.0211	.0617
%RSD	.21254	48.759	17.449	.27622	.78514
#1	18352.	-.34698	1.2499	-7.6219	7.8201
#2	18407.	-.16906	.97531	-7.6517	7.9074
Check ?	LC Pass	LC Pass	LC Pass	LC Fail	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04625	428.87	-.03316	.60872	17.746
Stddev	.00409	1.75	.03258	.00792	.016
%RSD	8.8331	.40837	98.238	1.3004	.09273
#1	.04336	430.10	-.01013	.61432	17.734
#2	.04914	427.63	-.05620	.60312	17.758
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60437	6987.7	77.348	2.6241	124.29
Stddev	.19015	2.5	1.025	.0128	.01
%RSD	31.463	.03631	1.3249	.48760	.01115
#1	.46991	6986.0	78.073	2.6332	124.30
#2	.73883	6989.5	76.624	2.6151	124.28
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.74982	.15563	6.4741	2.9741	2.1333
Stddev	.00246	.01568	.2346	.0309	.0880
%RSD	.32856	10.077	3.6242	1.0398	4.1251
#1	.74807	.16672	6.6401	2.9960	2.0711
#2	.75156	.14454	6.3082	2.9522	2.1956
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

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Sample Name: 0540409 Run Time: 05/24/01 01:44

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43996	3.1944	209.76	.41000	L -3.4189
Stddev	.17779	.0030	.74	.19355	.0415
%RSD	40.411	.09283	.35434	47.207	1.2153
#1	.56568	3.1923	209.24	.27314	-3.3896
#2	.31424	3.1965	210.29	.54686	-3.4483
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.5745	55.192	-.01755	41.668	.58741
Stddev	.0000	.090	.20135	.060	.01148
%RSD	.00075	.16368	1147.4	.14332	1.9549
#1	1.5745	55.256	.12483	41.625	.59553
#2	1.5745	55.128	-.15992	41.710	.57929
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0540410 Operator: SLP
Comment:
Run Time: 05/24/01 01:49 Type: Unk Mode: CONC Corr.Fact: 45.454544

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10771.	-.25455	.86744	-2.7540	5.4919
Stddev	44.	.05866	.02195	.2051	.0063
%RSD	.40435	23.043	2.5300	7.4487	.11561
#1	10802.	-.21308	.85192	-2.6090	5.4964
#2	10740.	-.29603	.88296	-2.8991	5.4874
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03556	644.16	.04290	.36422	9.3368
Stddev	.00150	2.47	.04020	.00380	.0110
%RSD	4.2185	.38303	93.705	1.0439	.11777
#1	.03450	645.90	.07133	.36153	9.3446
#2	.03662	642.41	.01448	.36691	9.3291
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.14784	2417.3	74.702	1.8397	168.94
Stddev	.15885	8.0	.025	.0132	1.52
%RSD	107.45	.33269	.03359	.71709	.90083
#1	.03551	2423.0	74.685	1.8490	170.02
#2	.26016	2411.6	74.720	1.8304	167.87
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.81338	.04055	10.128	2.1371	3.1283
Stddev	.00002	.01237	1.319	.0069	.1183
%RSD	.00260	30.507	13.018	.32234	3.7827
#1	.81339	.04929	11.061	2.1322	3.2120
#2	.81336	.03180	9.1960	2.1419	3.0447
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0540410 Run Time: 05/24/01 01:49

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28877	1.2979	202.14	.09144	5.2382
Stddev	.14294	.1605	1.31	.03556	.0137
%RSD	49.499	12.370	.64598	38.890	.26157
#1	.18769	1.1844	203.07	.06629	5.2285
#2	.38984	1.4114	201.22	.11658	5.2479
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	6.3978	35.979	-.22672	6.6101	1.8104
Stddev	.1053	.016	.10235	.1222	.0178
%RSD	1.6454	.04513	45.146	1.8481	.98521
#1	6.3234	35.967	-.15435	6.6964	1.8230
#2	6.4723	35.990	-.29910	6.5237	1.7978
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Analysis Report

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/24/01 01:54 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.231	.38874	.39220	9.7885	.99709
Stddev	.152	.00163	.00294	.0395	.01038
%RSD	1.4839	.41819	.74896	.40346	1.0411
#1	10.124	.38989	.39428	9.7606	1.0044
#2	10.339	.38759	.39013	9.8165	.98975
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04933	10.064	.05085	.20191	.49190
Stddev	.00030	.010	.00047	.00008	.00030
%RSD	.59978	.09791	.93395	.04188	.06023
#1	.04912	10.057	.05051	.20185	.49169
#2	.04953	10.071	.05119	.20197	.49211
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49807	3.9537	48.808	.96389	10.294
Stddev	.00382	.0014	.006	.00498	.094
%RSD	.76597	.03454	.01156	.51628	.91220
#1	.50077	3.9527	48.812	.96037	10.361
#2	.49537	3.9546	48.804	.96741	10.228
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49239	.99444	48.827	.49975	.50849
Stddev	.00075	.00028	.040	.00058	.00155
%RSD	.15317	.02813	.08234	.11641	.30406
#1	.49186	.99424	48.856	.49934	.50740
#2	.49292	.99464	48.799	.50016	.50958
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Sample Name: CCV Run Time: 05/24/01 01:54

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1905	.39913	4.8781	.99225	.99740
Stddev	.0098	.00072	.0026	.00051	.00234
%RSD	.82682	.17996	.05411	.05181	.23504
#1	1.1974	.39964	4.8800	.99262	.99574
#2	1.1835	.39862	4.8763	.99189	.99906
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.99012	.98735	.50926	.99949	.99640
Stddev	.00178	.00519	.00494	.00312	.00184
%RSD	.18020	.52586	.97095	.31237	.18504
#1	.98886	.98367	.51276	.99728	.99509
#2	.99138	.99102	.50577	1.0017	.99770
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/24/01 01:59 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.02400	.00173	.00003	.00905	.00025
Stddev	.03423	.00823	.00147	.00388	.00007
%RSD	142.62	476.58	5077.1	42.875	28.383
#1	-.04821	.00755	.00107	.01180	.00020
#2	.00020	-.00409	-.00101	.00631	.00030
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.00985	.00005	.00032	.00008
Stddev	.00002	.00418	.00028	.00015	.00045
%RSD	71.979	42.500	616.86	46.693	586.39
#1	-.00001	.01280	.00024	.00042	.00039
#2	-.00003	.00689	-.00015	.00021	-.00024
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00083	.00449	-.07374	.00080	H .21214
Stddev	.01085	.00185	.08102	.00038	.03341
%RSD	1303.7	41.158	109.87	47.802	15.751
#1	-.00850	.00318	-.01645	.00053	.18851
#2	.00684	.00580	-.13103	.00107	.23577
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.00046	-.08541	.00046	-.00101
Stddev	.00005	.00032	.00339	.00035	.00099
%RSD	265.38	69.546	3.9732	75.741	97.777
#1	-.00005	-.00023	-.08301	.00071	-.00031
#2	.00002	-.00068	-.08780	.00021	-.00171
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

Sample Name: CCB Run Time: 05/24/01 01:59

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00667	.00133	-.00096	.00035	.00092
Stddev	.00985	.00619	.00114	.00052	.00535
%RSD	147.65	464.07	118.97	149.11	584.38
#1	-.00029	.00571	-.00015	-.00002	-.00287
#2	.01364	-.00304	-.00177	.00072	.00470
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00436	.00027	.00106	-.00032	-.00015
Stddev	.00405	.00000	.00437	.00146	.00010
%RSD	93.058	.36408	412.08	460.33	69.886
#1	.00149	.00027	-.00203	.00072	-.00022
#2	.00722	.00026	.00415	-.00135	-.00007
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Metals

Date: 5/24/01
Analyst: ICP
Method: 6010B
Instrument: PE-ICP
Work Group: 98017, 98120, 97799, 98065

	Analyst
Calibration/Linearity	— X
ICV/CCV	— X
ICB/CCB	— X
icsa/icsab/cri	— X
Blank/LCS	— X
MS/MSD	— X
Postspike/Serial Dilution	— X
Duplicate	— X
Record Results	— X
Excel Spreadsheets	— X
Results Reporting / Data Qualifiers	— X
Calculations & Correct Factors	X
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	NA
QA Approval - Seedpak 3	NA
Check for Completeness	X
Level IV Data	✓

Priority 5/25
05-404
05 429

Primary Reviewer Initials & Date Checked ICP 5/24/01

Secondary Reviewer Initials & Date Checked JS 5/25/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked NB 5/25

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1455

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST Kim H Roden DATE 5-24-01 TIME 0929
METHOD # 6010B SOP # ME605E Rev # 2 WORK GROUP # 97817, 98120, 97799, 98066
CAL STD SOURCE MI-9-47B ICV/CCV SOURCE MI-9-49B
ICS AB SOURCE MI-9-48A ICS A SOURCE MI-9-49A POST SPK SOURCE DSS-31-67
Instrument ID: TJA IRIS: _____ Data File: _____ Perkin Elmer Optima: X Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
			M/M		27.	05-249-08			
					28.	09			CCV/CCB
					29.	10			
					30.	11			
					31.	12			
					32.	13			
					33.	05-412-01			
					34.	02			RRun 5/24/01
	S0				35.	05-426-01			~~CCV~~
	S1 1/200				36.	05-249-10	0.05		
	S2 1/2				37.	13			
	S3			FCV/FCB	38.	05	1		CCV/CCB
	ICSA				39.	S0			
	ICSAB			CCV/CCB	40.	S1 1/200			
	05-326-04				41.	S2 1/2			
	05				42.	S3			ICV/ICB
	06	0.5		CCV/CCB	43.	ICSA			
0.	PBW E/WG97746	-03			44.	ICSAB			CCV/CCB
1.	LFSW E	-04			45.	PBW V1/WG97695	-03		
2.	05-404-11				46.	LFSW V1	-04		
3.	11 PS	0.9			47.	TZ BLK 5/17	0.1		
4.	05-429-02	-01			48.	TZ 05-279-01	-02	5/50	
5.	025	-05			49.	01 PS	0.9		
6.	025D	-06			50.	01 DP		5/50	
7.	03	-02			51.	TZ 05-386-03	-01		
8.	03DP	-07			52.	045	-05		
9.	04			CCV/CCB	53.	055D	-06		
0.	05-249-01				54.	TZ 05-279-02			CCV/CCB
1.	02				55.	025			
2.	03				56.	03			
3.	04				57.	05			
4.	05				58.	TZ 05-280-01			
5.	06				59.	TZ 05-282-01			
6.	07				60.	02		1	

Reviewed by: _____

Comments: _____

Cont'd on pg. 52

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

Cont'd D'05-30

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST _____ DATE _____ TIME _____
METHOD # _____ SOP # _____ Rev # _____ WORK GROUP # _____
CAL STD SOURCE _____ ICV/CCV SOURCE _____
ICS AB SOURCE _____ ICS A SOURCE _____ POST SPK SOURCE _____
Instrument ID: TJA IRIS: _____ Data File: _____ Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.				
					28.				
					29.				
					30.				
					31.				
					32.				
					33.				
					34.				
	TR05-282-03		5/50		35.				
	TR05-294-01				36.				
	03			CCV/CCB	37.				
	05-249-03	0.1			38.				
	TR05-279-02	0.2	5/50		39.				
	TR05-279-05	0.5			40.				
	0.5 PPM Cd				41.				
	1.0 PPM Cd				42.				
	1.5 PPM Cd				43.				
10.	TR05-443-03	0.5			44.				
11.	1 PPM Cr				45.				
12.	2 PPM Cr				46.				
13.	3 PPM Cr			CCV/CCB	47.				
14.					48.				
15.					49.				
16.					50.				
17.					51.				
18.					52.				
19.					53.				
20.					54.				
21.					55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.				

Cup 5/24/01

CCV/CCB 5/24/01

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key: CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

1457

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/24/2001 Initial Calibration ID: _____

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Aluminum	0	-1358	0.100	1341.1	10	158527.5	20.000	330207.6			0.99981	
Arsenic	0	-13.4	0.004	36.4	0.4	4075.1	0.8	8437			0.99986	
Barium	0	-1317	0.01	3246.5	1	352184.8	2	696255.1			0.99998	
Beryllium	0	32.8	0.0005	762.1	0.05	85010.9	0.1	168967.4			0.99999	
Cadmium	0	107	0.0005	178.2	0.05	20642.1	0.1	42682.4			0.99984	
Calcium	0	-175.1	0.1	121.4	10	12656.4	20	24916.3			0.99993	
Chromium	0	380.3	0.005	1534.1	0.5	168468.8	1	337134.6			1.00000	
Cobalt	0	26.2	0.002	366	0.2	37816.4	0.4	74733.8			0.99998	
Copper	0	1068.3	0.005	1503.9	0.5	199401.3	1	407650.3			0.99993	
Iron	0	-1787	0.04	395.9	4	88125.7	8	181773.5			0.99991	
Magnesium	0	-2018	0.1	4669.5	10	572651.8	20	1193575			0.99980	
Manganese	0	-371.1	0.005	9708.5	0.5	1078241.4	1	2134732			0.99999	
Nickel	0	-429.1	0.005	903.2	0.5	98011	1	196245			1.00000	
Potassium	0	1670.4	0.5	8877.5	50	1036960.7	100	2150367			0.99983	
Silver	0	1163.6	0.004	2050	0.4	264091	0.8	547471			0.99983	
Sodium	0	3573	0.5	15983	50	1809242.5	100	3670553			0.99997	
Vanadium	0	-513.5	0.01	2136.2	1	271738.9	2	549898.8			0.99998	
Zinc	0	29.7	0.01	1874.7	1	196664	2	393176.6			1.00000	
											#DIV/0!	
											#DIV/0!	
											#DIV/0!	
											#DIV/0!	
											#DIV/0!	

Comments:

AFCEE FORM I-3A

1458

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/24/2001

UNITS: ug/L

ICV Time: 9:46 AM
CCV1 Time: 10:02 AM
CCV2 Time: 10:24 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9770	97.7	9710	97.1	
Antimony	1200	1190	99.2	1200	1150	95.8	1140	95.0	
Arsenic	400	390	97.5	400	377	94.3	374	93.5	
Barium	1000	1030	103.0	1000	1010	101.0	1010	101.0	
Beryllium	50	51.1	102.2	50	50.7	101.4	50.9	101.8	
Cadmium	50	49.9	99.8	50	48.4	96.8	47.8	95.6	
Calcium	10000	10300	103.0	10000	10000	100.0	9940	99.4	
Chromium	500	520	104.0	500	509	101.8	506	101.2	
Cobalt	200	210	105.0	200	206	103.0	206	103.0	
Copper	500	511	102.2	500	503	100.6	500	100.0	
Iron	4000	4200	105.0	4000	4100	102.5	4070	101.8	
Lead	500	509	101.8	500	492	98.4	486	97.2	
Magnesium	10000	9960	99.6	10000	9710	97.1	9670	96.7	
Manganese	500	510	102.0	500	500	100.0	498	99.6	
Nickel	500	525	105.0	500	509	101.8	505	101.0	
Potassium	50000	49800	99.6	50000	47800	95.6	47800	95.6	
Selenium	400	413	103.3	400	396	99.0	390	97.5	
Silver	400	387	96.8	400	380	95.0	379	94.8	
Sodium	50000	49700	99.4	50000	48500	97.0	48100	96.2	
Thallium	500	538	107.6	500	515	103.0	494	98.8	
Vanadium	1000	1020	102.0	1000	1000	100.0	1000	100.0	
Zinc	1000	1010	101.0	1000	981	98.1	974	97.4	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/24/2001

UNITS: ug/L

ICV Time: 9:46 AM
CCV1 Time: 11:38 AM
CCV2 Time:

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9630	96.3			
Antimony	1200	1190	99.2	1200	1120	93.3			
Arsenic	400	390	97.5	400	369	92.3			
Barium	1000	1030	103.0	1000	997	99.7			
Beryllium	50	51.1	102.2	50	50.2	100.4			
Cadmium	50	49.9	99.8	50	47.7	95.4			
Calcium	10000	10300	103.0	10000	9890	98.9			
Chromium	500	520	104.0	500	502	100.4			
Cobalt	200	210	105.0	200	203	101.5			
Copper	500	511	102.2	500	496	99.2			
Iron	4000	4200	105.0	4000	4050	101.3			
Lead	500	509	101.8	500	483	96.6			
Magnesium	10000	9960	99.6	10000	9580	95.8			
Manganese	500	510	102.0	500	495	99.0			
Nickel	500	525	105.0	500	502	100.4			
Potassium	50000	49800	99.6	50000	47800	95.6			
Selenium	400	413	103.3	400	386	96.5			
Silver	400	387	96.8	400	376	94.0			
Sodium	50000	49700	99.4	50000	47900	95.8			
Thallium	500	538	107.6	500	500	100.0			
Vanadium	1000	1020	102.0	1000	992	99.2			
Zinc	1000	1010	101.0	1000	951	95.1			

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	khr
DATE:	5/24/2001
UNITS:	ug/L
ICB Time:	9:50 AM
CCB1 Time:	10:07 AM
CCB2 Time:	10:28 AM
CCB3 Time:	11:42 AM

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	-1.26	-0.583	-0.532	-0.703
Antimony	-0.0541	-0.153	-0.23	-0.165
Arsenic	-0.112	0.218	0.135	0.668
Barium	-0.0375	-0.0408	-0.0325	-0.0364
Beryllium	0.00752	0.00529	0.00669	0.00933
Cadmium	-0.0272	-0.0245	-0.0232	-0.00546
Calcium	-3.48	5.51	3.94	6.52
Chromium	0.0961	0.021	0.064	0.163
Cobalt	0.0519	0.0928	0.0978	0.101
Copper	-0.123	-0.103	-0.105	-0.0898
Iron	2.91	3.99	4.43	3.61
Lead	-0.175	0.102	0.0698	0.000768
Magnesium	-0.326	-0.414	-0.455	-0.487
Manganese	0.00591	0.00707	0.00793	0.00981
Nickel	0.057	0.0262	-0.00354	0.0457
Potassium	-5.96	-9.57	-15.2	10.4
Selenium	2.00	1.63	2.10	2.56
Silver	0.0208	-0.0486	0.0205	-0.0877
Sodium	-34.6	-62.3	-62.2	-34.5
Thallium	1.21	1.14	1.37	1.43
Vanadium	0.135	-0.0405	-0.0777	0.132
Zinc	0.241	0.213	0.24	0.192

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/24/2001

UNITS: ug/L

Initial ICSA Time: 9:54 AM
Initial ICSAB Time: 9:59 AM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	250000	250000	236000	234000	93.6				
Antimony	0	500	-2.99	458	91.6				
Arsenic	0	250	0.486	235	94.0				
Barium	0	250	-4.87	217	86.8				
Beryllium	0	250	-0.944	254	101.6				
Cadmium	0	500	-0.551	459	91.8				
Calcium	250000	250000	243000	240000	96.0				
Chromium	0	250	2.92	222	88.8				
Cobalt	0	250	5.61	210	84.0				
Copper	0	250	-2.93	243	97.2				
Iron	100000	100000	83500	82800	82.8				
Lead	0	500	8.91	435	87.0				
Magnesium	250000	250000	229000	226000	90.4				
Manganese	0	250	-3.76	219	87.6				
Nickel	0	500	1.04	414	82.8				
Potassium	0	5000	-625	4810	96.2				
Selenium	0	250	-10.9	230	92.0				
Silver	0	500	0.861	494	98.8				
Sodium	0	5000	59.4	5240	104.8				
Thallium	0	500	-3.99	263	52.6				*
Vanadium	0	250	-4.89	222	88.8				
Zinc	0	500	-12.5	401	80.2				

(1) Control Limits: 80-120%

1462

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: KHR
DATE: 5/24/2001

UNITS: ug/L

Spiked Sample Time: 11:08 AM
Sample Time: 11:03 AM

Sample ID: 0540411PS 0.9

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	9670		49	U	10000	96.7	
Antimony	75-125	931		6.4	U	1000	93.1	
Arsenic	75-125	926		5.8	U	1000	92.6	
Barium	75-125	8880		1.6	U	10000	88.8	
Beryllium	75-125	938		0.035	U	1000	93.8	
Cadmium	75-125	921		0.71	U	1000	92.1	
Calcium	75-125	9960		244		10000	97.2	
Chromium	75-125	962		0.57	U	1000	96.2	
Cobalt	75-125	941		0.47	U	1000	94.1	
Copper	75-125	949		1.9	U	1000	94.9	
Iron	75-125	944		23.5	B	1000	92.1	
Lead	75-125	947		7.1	U	1000	94.7	
Magnesium	75-125	9380		56.8	B	10000	93.2	
Manganese	75-125	952		2.1	U	1000	95.2	
Nickel	75-125	945		3.6	U	1000	94.5	
Potassium	75-125	47400		250	U	50000	94.8	
Selenium	75-125	892		8	U	1000	89.2	
Silver	75-125	192		0.45	U	200	96.0	
Sodium	75-125	47200		150	U	50000	94.4	
Thallium	75-125	972	B	11	U	1000	97.2	
Vanadium	75-125	942		3.6	U	1000	94.2	
Zinc	75-125	931		3.174	U	1000	93.1	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 11/16/2000

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Aluminum	237.30	100	49.0
Antimony	206.80	200	6.47
Arsenic	189.00	4	0.796
Barium	230.40	10	1.605
Beryllium	234.90	10	0.035
Cadmium	228.80	10	0.71
Calcium	227.50	200	30.8
Chromium	267.70	5	0.647
Cobalt	228.60	20	0.470
Copper	327.40	20	1.9
Iron	261.40	40	4.6
Lead	220.40	5	1.17
Magnesium	279.10	500	9.91
Manganese	257.60	10	0.2
Nickel	231.60	40	3.6
Potassium	404.70	1000	250
Selenium	196.00	100	8
Silver	328.10	10	0.450
Sodium	330.20	500	150.0
Thallium	190.80	100	11.0
Vanadium	292.40	10	3.6
Zinc	206.20	20	3.17

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As
Aluminum	237.30	0.0000000	0.0500000	-7.3000000	0.0600000	0.0000000
Antimony	206.80	0.1200000	0.0060000	0.1000000	0.0100000	0.0000000
Arsenic	189.00	-0.0050000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	230.40	-0.0040000	-0.0040000	-0.0100000	0.0000000	0.0000000
Beryllium	234.90	0.0037000	0.0000000	0.0650000	0.0000000	0.0000000
Cadmium	228.80	0.0009000	0.0008000	-0.0010000	0.0008000	0.0000000
Calcium	227.50	-0.1090000	0.0000000	19.0000000	0.0000000	0.0000000
Chromium	267.70	0.0010000	0.0000000	-0.0430000	0.0050000	0.0000000
Cobalt	228.60	-0.0020000	-0.0005000	-0.0200000	-0.0005000	0.0000000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.40	-0.1000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.10	0.1170000	0.1050000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0060000	0.0004000	0.0060000	0.0200000	0.0000000
Molybdenum	202.00	0.0026000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0130000	0.0000000	0.0000000
Potassium	404.70	0.0000000	6.0000000	0.0000000	8.0000000	0.0000000
Selenium	196.00	0.0900500	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	-0.3500000	-0.5000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	-0.0100000	0.0000000	0.0000000
Strontium	232.20	-0.2100000	-0.1000000	-4.7000000	-0.3600000	0.0000000
Thallium	190.80	0.0900000	0.0000000	-0.1000000	0.0000000	-2.6300000
Titanium	337.30	-0.0400000	-0.0400000	-0.0400000	0.0240000	0.0000000
Vanadium	292.40	0.0200000	0.0000000	-0.0800000	0.0000000	0.0000000
Zinc	206.20	0.0400000	0.0000000	0.0700000	0.0100000	0.0000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ba	Be	Cd	Co	Cr
Aluminum	237.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	21.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	-10.0000000
Barium	230.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.2500000
Calcium	227.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0750000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	-0.0240000	-100.00000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.5680000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.5800000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0800000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.6500000	-1.9700000	0.0000000	1.5500000	0.1660000
Titanium	337.30	0.0000000	0.0000000	0.0000000	0.0000000	-7.1000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-1.6000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Mo	Ti	V
Aluminum	237.30	0.0000000	0.0000000	0.0000000	4.5000000	0.0000000
Antimony	206.80	0.0000000	0.3700000	-1.3000000	2.2000000	-0.6600000
Arsenic	189.00	0.0000000	-0.0025000	0.0000000	0.0000000	0.1000000
Barium	230.40	0.0000000	0.0000000	0.0000000	-1.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	-0.1200000	-0.0010000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.3000000	0.1900000
Calcium	227.50	0.0000000	0.0000000	0.0000000	4.5000000	40.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	-6.5000000
Cobalt	228.60	0.0000000	0.0000000	-2.1900000	2.3000000	-0.0700000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.3000000	0.0000000
Iron	261.40	0.0000000	-30.0000000	0.0000000	0.0000000	-3.3000000
Lead	220.40	0.0000000	0.0000000	-2.2600000	-0.7100000	-0.2000000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	5.0000000	4.6000000
Manganese	257.60	0.0000000	0.0000000	0.0900000	0.0700000	-0.0200000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.1600000	-0.0700000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	-0.2000000	0.9400000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	165.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-8.3500000	0.0000000	-7.8000000	1.4000000
Titanium	337.30	0.0000000	-4.7000000	-4.9000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.5000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - Optima 3000

Date: 3/28/2001

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Aluminum	10.00	450000.0
Antimony	10.00	
Arsenic	10.00	2000.0
Barium	10.00	10000.0
Beryllium	10.00	1000.0
Cadmium	10.00	1000.0
Calcium	10.00	1000000.0
Chromium	10.00	10000.0
Cobalt	10.00	10000.0
Copper	10.00	3000.0
Iron	10.00	100000.0
Lead	10.00	100000.0
Magnesium	10.00	500000.0
Manganese	10.00	10000.0
Nickel	10.00	10000.0
Potassium	10.00	190000.0
Selenium	10.00	1000.0
Silver	10.00	1000.0
Sodium	10.00	200000.0
Thallium	10.00	15000.0
Vanadium	10.00	10000.0
Zinc	10.00	10000.0

Comments:

Method : SB

Seq.	Loc.	Sample ID
1	1	S0
2	2	S1
3	3	S2
4	4	S3
5	5	ICV 2nd Vendor
6	1	ICB
7	6	ICSA
8	7	ICSAB
9	5	CCV
10	1	CCB
11	9	0532604
12	10	0532605
13	11	0532606 0,5
14	5	CCV
15	1	CCB

Box X, E
WG 98017
WG 98120

Method : SB

Seq.	Loc.	Sample ID
1	1	S0
2	2	S1
3	3	S2
4	4	S3
5	12	PBW E WG97746-03
6	13	LCSW E WG97746-04
7	14	0540411
8	15	0540411PS 0.9
9	16	0542902 WG97746-01
10	17	0542902S WG97746-05
11	18	0542902SD WG97746-06
12	19	0542903 WG97746-02
13	20	0542903DP WG97746-07
14	21	0542904
15	5	CCV
16	1	CCB
17	22	0524901
18	23	0524902
19	24	0524903
20	25	0524904
21	26	0524905
22	27	0524906
23	28	0524907
24	29	0524908
25	30	0524909
26	5	CCV
27	1	CCB
28	31	0524910
29	32	0524911
30	33	0524912
31	34	0524913
32	35	0541201
33	36	0541202
34	37	0542601
35	5	CCV
36	1	CCB

5/24/2001 9:24:41 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

5/24/2001 9:27:14 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

5/24/2001 9:29:08 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

Analysis Begun

Start Time: 5/24/2001 9:29:32 AM **Plasma On Time: 5/24/2001 7:51:17 AM**
Logged In Analyst: Administrator **Technique: ICP Continuous**
Spectrometer Model: Optima 3000 DV **Autosampler Model: AS-90**

Sample Information File: C:\pe\Administrator\Sample Information\052401.sif
Results Data Set: 052401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 5/24/2001 9:29:32 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2828945.4	45364.01	1.60%		
Ag 328.068	1163.6	7.70	0.66%	[0.00]	mg/L
Al 237.312	-1358.1	10.81	0.80%	[0.00]	mg/L
As 188.979	-13.4	1.61	12.07%	[0.00]	mg/L
Ba 230.424	-1316.6	4.96	0.38%	[0.00]	mg/L
Be 234.861	32.8	5.54	16.91%	[0.00]	mg/L
Ca 227.549	-175.1	0.32	0.19%	[0.00]	mg/L
Cd 228.802	107.0	2.24	2.10%	[0.00]	mg/L
Co 228.616	26.2	5.78	22.05%	[0.00]	mg/L
Cr 267.716	380.3	16.56	4.35%	[0.00]	mg/L
Cu 327.396	1068.3	7.95	0.74%	[0.00]	mg/L
Fe 261.387	-1787.1	5.16	0.29%	[0.00]	mg/L
Mg 279.079	-2018.0	26.71	1.32%	[0.00]	mg/L
Mn 257.610	-371.1	3.08	0.83%	[0.00]	mg/L
Mo 202.030	10.1	0.56	5.55%	[0.00]	mg/L
Ni 231.604	-429.1	9.15	2.13%	[0.00]	mg/L
Pb 220.353	125.5	0.84	0.67%	[0.00]	mg/L
Sb 206.833	55.2	3.24	5.86%	[0.00]	mg/L
Se 196.026	-34.7	11.98	34.50%	[0.00]	mg/L
Si 288.158	1858.3	112.44	6.05%	[0.00]	mg/L
Sn 189.933	23.4	4.52	19.28%	[0.00]	mg/L
Ti 337.280	-1368.7	14.23	1.04%	[0.00]	mg/L
Tl 190.800	6.3	7.19	114.25%	[0.00]	mg/L
V 292.402	-513.5	28.57	5.56%	[0.00]	mg/L
Zn 206.200	29.7	2.58	8.69%	[0.00]	mg/L
K 766.490	1670.4	191.79	11.48%	[0.00]	mg/L
Na 589.592	3573.0	7.74	0.22%	[0.00]	mg/L
Sr 407.771	623.3	3.99	0.64%	[0.00]	mg/L
Sr 421.552	198.8	32.68	16.44%	[0.00]	mg/L
Sr 460.733	501.0	11.49	2.29%	[0.00]	mg/L

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S1 **Date Collected: 5/24/2001 9:33:41 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**

Dilution: Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2822856.7	8766.62	0.31%		
Ag 328.068	2050.0	55.48	2.71%	[0.0040]	mg/L
Al 237.312	1341.1	0.07	0.01%	[0.10]	mg/L
As 188.979	36.4	5.31	14.60%	[0.0040]	mg/L
Ba 230.424	3246.5	161.49	4.97%	[0.010]	mg/L
Be 234.861	762.1	0.01	0.00%	[0.00050]	mg/L
Ca 227.549	121.4	9.43	7.77%	[0.10]	mg/L
Cd 228.802	178.2	0.91	0.51%	[0.00050]	mg/L
Co 228.616	366.0	1.54	0.42%	[0.0020]	mg/L
Cr 267.716	1534.1	2.70	0.18%	[0.0050]	mg/L
Cu 327.396	1503.9	33.28	2.21%	[0.0050]	mg/L
Fe 261.387	395.9	4.30	1.09%	[0.040]	mg/L
Mg 279.079	4669.5	156.82	3.36%	[0.10]	mg/L
Mn 257.610	9708.5	169.41	1.74%	[0.0050]	mg/L
Mo 202.030	556.3	8.97	1.61%	[0.010]	mg/L
Ni 231.604	903.2	3.95	0.44%	[0.0050]	mg/L
Pb 220.353	114.9	2.35	2.04%	[0.0050]	mg/L
Sb 206.833	197.9	11.96	6.04%	[0.012]	mg/L
Se 196.026	26.1	2.30	8.80%	[0.0040]	mg/L
Si 288.158	4408.8	87.73	1.99%	[0.050]	mg/L
Sn 189.933	86.2	0.16	0.18%	[0.010]	mg/L
Ti 337.280	13012.5	183.56	1.41%	[0.010]	mg/L
Tl 190.800	19.6	4.20	21.39%	[0.0050]	mg/L
V 292.402	2136.2	63.34	2.97%	[0.010]	mg/L
Zn 206.200	1874.7	6.90	0.37%	[0.010]	mg/L
K 766.490	8877.5	591.01	6.66%	[0.50]	mg/L
Na 589.592	15983.0	1359.65	8.51%	[0.50]	mg/L
Sr 407.771	13919.0	665.43	4.78%	[0.010]	mg/L
Sr 421.552	6630.9	314.96	4.75%	[0.010]	mg/L
Sr 460.733	23.5	88.80	378.08%	[0.010]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	512500	0.00000	1.000000	
Al 237.312	1	Lin Thru 0	0.0	13410	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	9097	0.00000	1.000000	
Ba 230.424	1	Lin Thru 0	0.0	324600	0.00000	1.000000	
Be 234.861	1	Lin Thru 0	0.0	1524000	0.00000	1.000000	
Ca 227.549	1	Lin Thru 0	0.0	1214	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	356400	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	183000	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	306800	0.00000	1.000000	
Cu 327.396	1	Lin Thru 0	0.0	300800	0.00000	1.000000	
Fe 261.387	1	Lin Thru 0	0.0	9898	0.00000	1.000000	
Mg 279.079	1	Lin Thru 0	0.0	46690	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	1942000	0.00000	1.000000	
Mo 202.030	1	Lin Thru 0	0.0	55630	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	180600	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	22990	0.00000	1.000000	
Sb 206.833	1	Lin Thru 0	0.0	16490	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	6536	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	88180	0.00000	1.000000	
Sn 189.933	1	Lin Thru 0	0.0	8623	0.00000	1.000000	
Ti 337.280	1	Lin Thru 0	0.0	1301000	0.00000	1.000000	
Tl 190.800	1	Lin Thru 0	0.0	3927	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	213600	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	187500	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	17750	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	31970	0.00000	1.000000	
Sr 407.771	1	Lin, Calc Int	0.0	1392000	0.00000	1.000000	

Sequence No.: 3 Autosampler Location: 3

1472

Sample ID: S2 Date Collected: 5/24/2001 9:37:53 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3323877.8	62245.93	1.87%		
Ag 328.068	264091.0	5548.07	2.10%	[0.40]	mg/L
Al 237.312	158527.5	3517.70	2.22%	[10.00]	mg/L
As 188.979	4075.1	42.65	1.05%	[0.40]	mg/L
Ba 230.424	352184.8	8451.55	2.40%	[1.00]	mg/L
Be 234.861	85010.9	1916.56	2.25%	[0.05]	mg/L
Ca 227.549	12656.4	73.70	0.58%	[10.00]	mg/L
Cd 228.802	20642.1	153.76	0.74%	[0.05]	mg/L
Co 228.616	37816.4	869.79	2.30%	[0.20]	mg/L
Cr 267.716	168468.8	4258.91	2.53%	[0.50]	mg/L
Cu 327.396	199401.3	4604.08	2.31%	[0.50]	mg/L
Fe 261.387	88125.7	2154.58	2.44%	[4.00]	mg/L
Mg 279.079	572651.8	15349.86	2.68%	[10.00]	mg/L
Mn 257.610	1078241.4	24218.09	2.25%	[0.50]	mg/L
Mo 202.030	65650.1	1770.54	2.70%	[1.00]	mg/L
Ni 231.604	98011.0	2336.62	2.38%	[0.50]	mg/L
Pb 220.353	12509.3	124.28	0.99%	[0.50]	mg/L
Sb 206.833	21643.1	158.81	0.73%	[1.20]	mg/L
Se 196.026	3528.2	19.55	0.55%	[0.40]	mg/L
Si 288.158	535471.2	11105.65	2.07%	[5.00]	mg/L
Sn 189.933	15383.7	386.35	2.51%	[1.00]	mg/L
Ti 337.280	1526923.1	33202.87	2.17%	[1.00]	mg/L
Tl 190.800	6198.5	148.62	2.40%	[0.50]	mg/L
V 292.402	271738.9	6237.95	2.30%	[1.00]	mg/L
Zn 206.200	196664.0	5901.12	3.00%	[1.00]	mg/L
K 766.490	1036960.7	15462.67	1.49%	[50.00]	mg/L
Na 589.592	1809242.5	28821.19	1.59%	[50.00]	mg/L
Sr 407.771	1598506.4	24781.16	1.55%	[1.00]	mg/L
Sr 421.552	773498.9	12422.46	1.61%	[1.00]	mg/L
Sr 460.733	22436.8	233.34	1.04%	[1.00]	mg/L

Sequence No.: 4 Autosampler Location: 4
Sample ID: S3 Date Collected: 5/24/2001 9:42:07 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3365569.4	31519.48	0.94%		
Ag 328.068	547471.1	6686.87	1.22%	[0.80]	mg/L
Al 237.312	330207.6	4884.37	1.48%	[20.00]	mg/L
As 188.979	8437.0	76.04	0.90%	[0.80]	mg/L
Ba 230.424	696255.1	11363.42	1.63%	[2.00]	mg/L
Be 234.861	168967.4	2306.80	1.37%	[0.10]	mg/L
Ca 227.549	24916.3	94.78	0.38%	[20.00]	mg/L
Cd 228.802	42682.4	733.23	1.72%	[0.10]	mg/L
Co 228.616	74733.8	1512.86	2.02%	[0.40]	mg/L
Cr 267.716	337134.6	5593.40	1.66%	[1.00]	mg/L
Cu 327.396	407650.3	5015.73	1.23%	[1.00]	mg/L
Fe 261.387	181773.5	3193.21	1.76%	[8.00]	mg/L
Mg 279.079	1193575.2	24354.53	2.04%	[20.00]	mg/L
Mn 257.610	2134731.8	33735.17	1.58%	[1.00]	mg/L
Mo 202.030	131353.2	2573.70	1.96%	[2.00]	mg/L
Ni 231.604	196245.0	3772.73	1.92%	[1.00]	mg/L
Pb 220.353	25377.4	185.98	0.73%	[1.00]	mg/L
Sb 206.833	44339.4	672.45	1.52%	[2.40]	mg/L
Se 196.026	7252.0	61.55	0.85%	[0.80]	mg/L
Si 288.158	1062011.1	12194.39	1.15%	[10.00]	mg/L

Sn 189.933	32960.7	596.23	1.81%	[2.00] mg/L
Ti 337.280	3072807.2	42119.96	1.37%	[2.00] mg/L
Tl 190.800	13331.3	206.42	1.55%	[1.00] mg/L
V 292.402	549898.8	8065.96	1.47%	[2.00] mg/L
Zn 206.200	393176.6	9309.85	2.37%	[2.00] mg/L
K 766.490	2150367.0	12704.97	0.59%	[100.00] mg/L
Na 589.592	3670552.9	73890.50	2.01%	[100.00] mg/L
Sr 407.771	3234399.3	69443.27	2.15%	[2.00] mg/L
Sr 421.552	1564084.9	10315.11	0.66%	[2.00] mg/L
Sr 460.733	46966.8	52.11	0.11%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	679500	0.00000	0.999899	
Al 237.312	3	Lin Thru 0	0.0	16380	0.00000	0.999871	
As 188.979	3	Lin Thru 0	0.0	10470	0.00000	0.999906	
Ba 230.424	3	Lin Thru 0	0.0	348900	0.00000	0.999989	
Be 234.861	3	Lin Thru 0	0.0	1692000	0.00000	0.999997	
Ca 227.549	3	Lin Thru 0	0.0	1250	0.00000	0.999980	
Cd 228.802	3	Lin Thru 0	0.0	424000	0.00000	0.999913	
Co 228.616	3	Lin Thru 0	0.0	187300	0.00000	0.999988	
Cr 267.716	3	Lin Thru 0	0.0	337100	0.00000	1.000000	
Cu 327.396	3	Lin Thru 0	0.0	405900	0.00000	0.999961	
Fe 261.387	3	Lin Thru 0	0.0	22580	0.00000	0.999922	
Mg 279.079	3	Lin Thru 0	0.0	59200	0.00000	0.999867	
Mn 257.610	3	Lin Thru 0	0.0	2139000	0.00000	0.999992	
Mo 202.030	3	Lin Thru 0	0.0	65670	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	196200	0.00000	1.000000	
Pb 220.353	3	Lin Thru 0	0.0	25310	0.00000	0.999984	
Sb 206.833	3	Lin Thru 0	0.0	18390	0.00000	0.999954	
Se 196.026	3	Lin Thru 0	0.0	9016	0.00000	0.999940	
Si 288.158	3	Lin Thru 0	0.0	106400	0.00000	0.999994	
Sn 189.933	3	Lin Thru 0	0.0	16260	0.00000	0.999634	
Ti 337.280	3	Lin Thru 0	0.0	1535000	0.00000	0.999997	
Tl 190.800	3	Lin Thru 0	0.0	13140	0.00000	0.999591	
V 292.402	3	Lin Thru 0	0.0	274300	0.00000	0.999989	
Zn 206.200	3	Lin Thru 0	0.0	196600	0.00000	1.000000	
K 766.490	3	Lin Thru 0	0.0	21350	0.00000	0.999897	
Na 589.592	3	Lin Thru 0	0.0	36600	0.00000	0.999984	
Sr 407.771	3	Lin, Calc Int	-4423.9	1616000	0.00000	0.999983	
Sr 421.552	3	Lin, Bracketing	-3857.5	782700	0.00000	0.999983	
Sr 460.733	3	Non Lin, Calc Int	-95.2	21530	1001.18088	0.999996	

Sequence No.: 5
Sample ID: ICV 2nd Vendor
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/24/2001 9:46:26 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3406705.4						20679.70	0.61%
Ag 328.068	263010.0	0.387	mg/L	0.0036	0.387	mg/L	0.0036	0.93%
QC value within limits for Ag 328.068 Recovery = 96.76%								
Al 237.312	163375.4	10.00	mg/L	0.113	10.00	mg/L	0.113	1.13%
QC value within limits for Al 237.312 Recovery = 100.00%								
As 188.979	4033.8	0.390	mg/L	0.0017	0.390	mg/L	0.0017	0.43%
QC value within limits for As 188.979 Recovery = 97.54%								
Ba 230.424	359491.1	1.03	mg/L	0.012	1.03	mg/L	0.012	1.19%
QC value within limits for Ba 230.424 Recovery = 103.14%								
Be 234.861	86880.5	0.0511	mg/L	0.00052	0.0511	mg/L	0.00052	1.02%
QC value within limits for Be 234.861 Recovery = 102.22%								
Ca 227.549	12996.0	10.3	mg/L	0.06	10.3	mg/L	0.06	0.58%
QC value within limits for Ca 227.549 Recovery = 102.75%								
Cd 228.802	21412.8	0.0499	mg/L	0.00027	0.0499	mg/L	0.00027	0.54%
QC value within limits for Cd 228.802 Recovery = 99.72%								

Co 228.616	39347.8	0.210 mg/L	0.0020	0.210 mg/L	0.0020	0.94%
QC value greater than the upper limit for Co 228.616 Recovery = 105.12%						
Cr 267.716	173067.0	0.520 mg/L	0.0050	0.520 mg/L	0.0050	0.97%
QC value within limits for Cr 267.716 Recovery = 104.04%						
Cu 327.396	207566.6	0.511 mg/L	0.0051	0.511 mg/L	0.0051	0.99%
QC value within limits for Cu 327.396 Recovery = 102.22%						
Fe 261.387	93950.0	4.20 mg/L	0.042	4.20 mg/L	0.042	1.00%
QC value within limits for Fe 261.387 Recovery = 105.00%						
Mg 279.079	590425.8	9.96 mg/L	0.131	9.96 mg/L	0.131	1.32%
QC value within limits for Mg 279.079 Recovery = 99.62%						
Mn 257.610	1093093.3	0.510 mg/L	0.0053	0.510 mg/L	0.0053	1.04%
QC value within limits for Mn 257.610 Recovery = 102.06%						
Mo 202.030	68053.7	1.04 mg/L	0.015	1.04 mg/L	0.015	1.41%
QC value within limits for Mo 202.030 Recovery = 104.15%						
Ni 231.604	102868.4	0.525 mg/L	0.0066	0.525 mg/L	0.0066	1.25%
QC value within limits for Ni 231.604 Recovery = 104.93%						
Pb 220.353	12755.2	0.509 mg/L	0.0026	0.509 mg/L	0.0026	0.52%
QC value within limits for Pb 220.353 Recovery = 101.72%						
Sb 206.833	22133.8	1.19 mg/L	0.005	1.19 mg/L	0.005	0.45%
QC value within limits for Sb 206.833 Recovery = 98.99%						
Se 196.026	3747.4	0.413 mg/L	0.0023	0.413 mg/L	0.0023	0.56%
QC value within limits for Se 196.026 Recovery = 103.27%						
Si 288.158	3229.2	0.0390 mg/L	0.00040	0.0390 mg/L	0.00040	1.04%
QC value less than the lower limit for Si 288.158 Recovery = 0.78%						
Sn 189.933	15499.0	0.951 mg/L	0.0230	0.951 mg/L	0.0230	2.42%
QC value within limits for Sn 189.933 Recovery = 95.21%						
Ti 337.280	1519088.2	1.00 mg/L	0.011	1.00 mg/L	0.011	1.05%
QC value within limits for Ti 337.280 Recovery = 100.23%						
Tl 190.800	6920.3	0.538 mg/L	0.0098	0.538 mg/L	0.0098	1.82%
QC value greater than the upper limit for Tl 190.800 Recovery = 107.59%						
V 292.402	280641.5	1.02 mg/L	0.012	1.02 mg/L	0.012	1.18%
QC value within limits for V 292.402 Recovery = 102.27%						
Zn 206.200	198924.0	1.01 mg/L	0.016	1.01 mg/L	0.016	1.53%
QC value within limits for Zn 206.200 Recovery = 101.18%						
K 766.490	1064022.0	49.8 mg/L	0.75	49.8 mg/L	0.75	1.50%
QC value within limits for K 766.490 Recovery = 99.61%						
Na 589.592	1818168.7	49.7 mg/L	1.16	49.7 mg/L	1.16	2.33%
QC value within limits for Na 589.592 Recovery = 99.35%						
Sr 407.771	1596701.7	0.991 mg/L	0.0207	0.991 mg/L	0.0207	2.09%
QC value within limits for Sr 407.771 Recovery = 99.07%						
Sr 421.552	772425.8	0.992 mg/L	0.0216	0.992 mg/L	0.0216	2.18%
QC value within limits for Sr 421.552 Recovery = 99.19%						
Sr 460.733	22854.2	1.02 mg/L	0.015	1.02 mg/L	0.015	1.50%
QC value within limits for Sr 460.733 Recovery = 101.78%						
QC Failed. Continue with analysis.						

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Sequence No.: 6 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 5/24/2001 9:50:42 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2819485.0						42980.56	1.52%
Ag 328.068	14.2	0.00002	mg/L	0.000065	0.00002	mg/L	0.000065	312.85%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-21.1	-0.00126	mg/L	0.000605	-0.00126	mg/L	0.000605	47.88%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-1.2	-0.00011	mg/L	0.000611	-0.00011	mg/L	0.000611	543.58%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-13.1	-0.00004	mg/L	0.000002	-0.00004	mg/L	0.000002	6.16%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	12.6	0.00001	mg/L	0.000005	0.00001	mg/L	0.000005	71.08%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	-4.3	-0.00348	mg/L	0.001748	-0.00348	mg/L	0.001748	50.30%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-11.5	-0.00003	mg/L	0.000007	-0.00003	mg/L	0.000007	25.71%

QC value within limits for Cd 228.802 Recovery = Not calculated
Co 228.616 8.9 0.00005 mg/L 0.000013 0.00005 mg/L 0.000013 25.31%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716 32.1 0.00010 mg/L 0.000030 0.00010 mg/L 0.000030 30.74%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 327.396 -49.9 -0.00012 mg/L 0.000037 -0.00012 mg/L 0.000037 30.49%
QC value within limits for Cu 327.396 Recovery = Not calculated
Fe 261.387 65.6 0.00291 mg/L 0.000035 0.00291 mg/L 0.000035 1.21%
QC value within limits for Fe 261.387 Recovery = Not calculated
Mg 279.079 -19.2 -0.00033 mg/L 0.000113 -0.00033 mg/L 0.000113 34.58%
QC value within limits for Mg 279.079 Recovery = Not calculated
Mn 257.610 13.2 0.00001 mg/L 0.000003 0.00001 mg/L 0.000003 53.88%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.030 136.2 0.00207 mg/L 0.000183 0.00207 mg/L 0.000183 8.85%
QC value within limits for Mo 202.030 Recovery = Not calculated
Ni 231.604 11.2 0.00006 mg/L 0.000019 0.00006 mg/L 0.000019 33.20%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353 -4.6 -0.00018 mg/L 0.000227 -0.00018 mg/L 0.000227 129.65%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.833 -1.0 -0.00005 mg/L 0.000003 -0.00005 mg/L 0.000003 6.28%
QC value within limits for Sb 206.833 Recovery = Not calculated
Se 196.026 18.1 0.00200 mg/L 0.000180 0.00200 mg/L 0.000180 8.98%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 288.158 292.6 0.00275 mg/L 0.000046 0.00275 mg/L 0.000046 1.69%
QC value within limits for Si 288.158 Recovery = Not calculated
Sn 189.933 97.2 0.00598 mg/L 0.000590 0.00598 mg/L 0.000590 9.88%
QC value within limits for Sn 189.933 Recovery = Not calculated
Ti 337.280 125.8 0.00009 mg/L 0.000007 0.00009 mg/L 0.000007 7.93%
QC value within limits for Ti 337.280 Recovery = Not calculated
Tl 190.800 15.9 0.00121 mg/L 0.000708 0.00121 mg/L 0.000708 58.46%
QC value within limits for Tl 190.800 Recovery = Not calculated
V 292.402 36.9 0.00013 mg/L 0.000129 0.00013 mg/L 0.000129 96.05%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 206.200 47.4 0.00024 mg/L 0.000009 0.00024 mg/L 0.000009 3.88%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490 -127.2 -0.00596 mg/L 0.000128 -0.00596 mg/L 0.000128 2.14%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592 -1265.0 -0.0346 mg/L 0.00424 -0.0346 mg/L 0.00424 12.26%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771 15.9 0.00275 mg/L 0.000036 0.00275 mg/L 0.000036 1.32%
QC value within limits for Sr 407.771 Recovery = Not calculated
Sr 421.552 4.1 0.00493 mg/L 0.000082 0.00493 mg/L 0.000082 1.67%
Sample signal is less than that of the lowest standard.
QC value within limits for Sr 421.552 Recovery = Not calculated
Sr 460.733 -66.5 0.00133 mg/L 0.003663 0.00133 mg/L 0.003663 274.84%
QC value within limits for Sr 460.733 Recovery = Not calculated
All analytes passed QC.

Sequence No.: 7
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 5/24/2001 9:54:52 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2907124.2						51718.30	1.78%
Ag 328.068	584.7	0.00086	mg/L	0.000052	0.00086	mg/L	0.000052	6.06%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	3855496.4	236	mg/L	5.2	236	mg/L	5.2	2.22%
QC value within limits for Al 237.312 Recovery = 94.39%								
As 188.979	-4.9	0.00049	mg/L	0.001110	0.00049	mg/L	0.001110	228.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-2661.9	-0.00487	mg/L	0.000298	-0.00487	mg/L	0.000298	6.13%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	11645.3	-0.00094	mg/L	0.000043	-0.00094	mg/L	0.000043	4.57%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	305535.1	243	mg/L	3.5	243	mg/L	3.5	1.44%

QC value within limits for Ca 227.549 Recovery = 97.16%

Cd 228.802	-18.5	-0.00055 mg/L	0.000026	-0.00055 mg/L	0.000026	4.67%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616	608.9	0.00561 mg/L	0.000202	0.00561 mg/L	0.000202	3.60%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716	254.5	0.00292 mg/L	0.000000	0.00292 mg/L	0.000000	0.00%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.396	-1186.8	-0.00293 mg/L	0.000049	-0.00293 mg/L	0.000049	1.67%
QC value within limits for Cu 327.396 Recovery = Not calculated							
Fe 261.387	1885342.6	83.5 mg/L	2.70	83.5 mg/L	2.70	3.23%
QC value within limits for Fe 261.387 Recovery = 83.48%							
Mg 279.079	13541297.2	229 mg/L	8.9	229 mg/L	8.9	3.89%
QC value within limits for Mg 279.079 Recovery = 91.48%							
Mn 257.610	6049.8	-0.00376 mg/L	0.000108	-0.00376 mg/L	0.000108	2.87%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.030	-75.1	-0.00176 mg/L	0.000833	-0.00176 mg/L	0.000833	47.47%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	-9.1	0.00104 mg/L	0.000174	0.00104 mg/L	0.000174	16.78%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	-370.2	0.00891 mg/L	0.000091	0.00891 mg/L	0.000091	1.02%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	687.5	-0.00299 mg/L	0.001650	-0.00299 mg/L	0.001650	55.10%
QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	284.0	-0.0109 mg/L	0.00166	-0.0109 mg/L	0.00166	15.25%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 288.158	12914.9	0.326 mg/L	0.0056	0.326 mg/L	0.0056	1.70%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	179.2	-0.0471 mg/L	0.00051	-0.0471 mg/L	0.00051	1.08%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	7717.8	0.0221 mg/L	0.00027	0.0221 mg/L	0.00027	1.23%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	115.3	-0.00399 mg/L	0.000796	-0.00399 mg/L	0.000796	19.95%
QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	-1880.7	-0.00489 mg/L	0.000191	-0.00489 mg/L	0.000191	3.90%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200	986.1	-0.0125 mg/L	0.00066	-0.0125 mg/L	0.00066	5.26%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490	1307.7	-0.625 mg/L	0.0292	-0.625 mg/L	0.0292	4.66%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592	2174.3	0.0594 mg/L	0.00126	0.0594 mg/L	0.00126	2.12%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771	11526.4	0.00987 mg/L	0.000108	0.00987 mg/L	0.000108	1.09%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	5644.1	0.0121 mg/L	0.00002	0.0121 mg/L	0.00002	0.16%
Sample signal is less than that of the lowest standard.							
QC value within limits for Sr 421.552 Recovery = Not calculated							
Sr 460.733	7.6	0.00477 mg/L	0.010457	0.00477 mg/L	0.010457	219.17%
QC value within limits for Sr 460.733 Recovery = Not calculated							

All analytes passed QC.

Sequence No.: 8
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/24/2001 9:59:09 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2915552.5						18190.96	0.62%
Ag 328.068	335828.1	0.494	mg/L	0.0031	0.494	mg/L	0.0031	0.64%
QC value within limits for Ag 328.068 Recovery = 98.84%								
Al 237.312	3830209.4	234	mg/L	0.4	234	mg/L	0.4	0.16%
QC value within limits for Al 237.312 Recovery = 93.77%								
As 188.979	2426.7	0.235	mg/L	0.0081	0.235	mg/L	0.0081	3.46%
QC value within limits for As 188.979 Recovery = 93.91%								
Ba 230.424	74711.3	0.217	mg/L	0.0008	0.217	mg/L	0.0008	0.36%
QC value within limits for Ba 230.424 Recovery = 86.74%								
Be 234.861	443291.1	0.254	mg/L	0.0025	0.254	mg/L	0.0025	0.99%

QC value within limits for Be 234.861 Recovery = 101.70%

Ca 227.549	301690.0	240 mg/L	0.7	240 mg/L	0.7	0.30%
QC value within limits for Ca 227.549 Recovery = 95.94%							
Cd 228.802	194731.1	0.459 mg/L	0.0001	0.459 mg/L	0.0001	0.02%
QC value within limits for Cd 228.802 Recovery = 91.73%							
Co 228.616	38806.7	0.210 mg/L	0.0016	0.210 mg/L	0.0016	0.79%
QC value within limits for Co 228.616 Recovery = 83.82%							
Cr 267.716	73750.6	0.222 mg/L	0.0000	0.222 mg/L	0.0000	0.00%
QC value within limits for Cr 267.716 Recovery = 88.96%							
Cu 327.396	98479.0	0.243 mg/L	0.0017	0.243 mg/L	0.0017	0.69%
QC value within limits for Cu 327.396 Recovery = 97.05%							
Fe 261.387	1869794.3	82.8 mg/L	0.26	82.8 mg/L	0.26	0.31%
QC value within limits for Fe 261.387 Recovery = 82.82%							
Mg 279.079	13366234.9	226 mg/L	1.6	226 mg/L	1.6	0.73%
QC value within limits for Mg 279.079 Recovery = 90.30%							
Mn 257.610	483696.8	0.219 mg/L	0.0005	0.219 mg/L	0.0005	0.24%
QC value within limits for Mn 257.610 Recovery = 87.80%							
Mo 202.030	-204.7	-0.00373 mg/L	0.000948	-0.00373 mg/L	0.000948	25.44%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	80984.9	0.414 mg/L	0.0041	0.414 mg/L	0.0041	0.98%
QC value within limits for Ni 231.604 Recovery = 82.78%							
Pb 220.353	10423.1	0.435 mg/L	0.0009	0.435 mg/L	0.0009	0.21%
QC value within limits for Pb 220.353 Recovery = 87.09%							
Sb 206.833	9239.6	0.458 mg/L	0.0009	0.458 mg/L	0.0009	0.19%
QC value within limits for Sb 206.833 Recovery = 91.58%							
Se 196.026	2454.0	0.230 mg/L	0.0128	0.230 mg/L	0.0128	5.58%
QC value within limits for Se 196.026 Recovery = 91.95%							
Si 288.158	1847.6	0.220 mg/L	0.0016	0.220 mg/L	0.0016	0.71%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	83.9	-0.0524 mg/L	0.00241	-0.0524 mg/L	0.00241	4.60%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	7543.4	0.0244 mg/L	0.00004	0.0244 mg/L	0.00004	0.15%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	3593.4	0.263 mg/L	0.0105	0.263 mg/L	0.0105	3.99%
QC value less than the lower limit for Tl 190.800 Recovery = 52.63%							
V 292.402	60403.8	0.222 mg/L	0.0001	0.222 mg/L	0.0001	0.04%
QC value within limits for V 292.402 Recovery = 88.86%							
Zn 206.200	82215.2	0.401 mg/L	0.0055	0.401 mg/L	0.0055	1.38%
QC value within limits for Zn 206.200 Recovery = 80.22%							
K 766.490	117252.0	4.81 mg/L	0.072	4.81 mg/L	0.072	1.49%
QC value within limits for K 766.490 Recovery = 96.29%							
Na 589.592	191854.4	5.24 mg/L	0.088	5.24 mg/L	0.088	1.68%
QC value within limits for Na 589.592 Recovery = 104.83%							
Sr 407.771	11291.1	0.00972 mg/L	0.000073	0.00972 mg/L	0.000073	0.75%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	5395.9	0.0118 mg/L	0.00011	0.0118 mg/L	0.00011	0.89%
Sample signal is less than that of the lowest standard.							
QC value within limits for Sr 421.552 Recovery = Not calculated							
Sr 460.733	58.3	0.00713 mg/L	0.002853	0.00713 mg/L	0.002853	40.03%
QC value within limits for Sr 460.733 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/24/2001 10:02:48 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3331996.1						16428.97	0.49%
Ag 328.068	258277.5	0.380	mg/L	0.0017	0.380	mg/L	0.0017	0.43%
QC value within limits for Ag 328.068 Recovery = 95.02%								
Al 237.312	159677.9	9.77	mg/L	0.076	9.77	mg/L	0.076	0.78%
QC value within limits for Al 237.312 Recovery = 97.73%								
As 188.979	3900.9	0.377	mg/L	0.0036	0.377	mg/L	0.0036	0.96%
QC value within limits for As 188.979 Recovery = 94.34%								
Ba 230.424	352354.7	1.01	mg/L	0.010	1.01	mg/L	0.010	1.00%

QC value within limits for Ba 230.424 Recovery = 101.09%

Be 234.861	86152.5	0.0507 mg/L	0.00046	0.0507 mg/L	0.00046	0.91%
QC value within limits for Be 234.861 Recovery = 101.36%						
Ca 227.549	12700.1	10.0 mg/L	0.04	10.0 mg/L	0.04	0.36%
QC value within limits for Ca 227.549 Recovery = 100.41%						
Cd 228.802	20786.9	0.0484 mg/L	0.00021	0.0484 mg/L	0.00021	0.44%
QC value within limits for Cd 228.802 Recovery = 96.79%						
Co 228.616	38542.6	0.206 mg/L	0.0026	0.206 mg/L	0.0026	1.25%
QC value within limits for Co 228.616 Recovery = 102.95%						
Cr 267.716	169174.9	0.509 mg/L	0.0050	0.509 mg/L	0.0050	0.99%
QC value within limits for Cr 267.716 Recovery = 101.70%						
Cu 327.396	204119.0	0.503 mg/L	0.0030	0.503 mg/L	0.0030	0.59%
QC value within limits for Cu 327.396 Recovery = 100.52%						
Fe 261.387	91603.7	4.10 mg/L	0.038	4.10 mg/L	0.038	0.93%
QC value within limits for Fe 261.387 Recovery = 102.38%						
Mg 279.079	575273.6	9.71 mg/L	0.132	9.71 mg/L	0.132	1.36%
QC value within limits for Mg 279.079 Recovery = 97.06%						
Mn 257.610	1071771.5	0.500 mg/L	0.0045	0.500 mg/L	0.0045	0.90%
QC value within limits for Mn 257.610 Recovery = 100.07%						
Mo 202.030	65775.3	1.00 mg/L	0.016	1.00 mg/L	0.016	1.56%
QC value within limits for Mo 202.030 Recovery = 100.66%						
Ni 231.604	99827.3	0.509 mg/L	0.0066	0.509 mg/L	0.0066	1.29%
QC value within limits for Ni 231.604 Recovery = 101.82%						
Pb 220.353	12332.2	0.492 mg/L	0.0026	0.492 mg/L	0.0026	0.54%
QC value within limits for Pb 220.353 Recovery = 98.35%						
Sb 206.833	21446.2	1.15 mg/L	0.005	1.15 mg/L	0.005	0.40%
QC value within limits for Sb 206.833 Recovery = 95.91%						
Se 196.026	3595.5	0.396 mg/L	0.0028	0.396 mg/L	0.0028	0.70%
QC value within limits for Se 196.026 Recovery = 99.07%						
Si 288.158	2453.9	0.0316 mg/L	0.00014	0.0316 mg/L	0.00014	0.44%
QC value less than the lower limit for Si 288.158 Recovery = 0.63%						
Sn 189.933	13757.2	0.844 mg/L	0.0249	0.844 mg/L	0.0249	2.95%
QC value less than the lower limit for Sn 189.933 Recovery = 84.49%						
Ti 337.280	1490473.4	0.983 mg/L	0.0078	0.983 mg/L	0.0078	0.80%
QC value within limits for Ti 337.280 Recovery = 98.34%						
Tl 190.800	6622.5	0.515 mg/L	0.0093	0.515 mg/L	0.0093	1.80%
QC value within limits for Tl 190.800 Recovery = 103.01%						
V 292.402	275515.4	1.00 mg/L	0.010	1.00 mg/L	0.010	1.00%
QC value within limits for V 292.402 Recovery = 100.41%						
Zn 206.200	192846.3	0.981 mg/L	0.0188	0.981 mg/L	0.0188	1.92%
QC value within limits for Zn 206.200 Recovery = 98.09%						
K 766.490	1022136.7	47.8 mg/L	0.04	47.8 mg/L	0.04	0.09%
QC value within limits for K 766.490 Recovery = 95.69%						
Na 589.592	1775304.7	48.5 mg/L	0.28	48.5 mg/L	0.28	0.57%
QC value within limits for Na 589.592 Recovery = 97.01%						
Sr 407.771	1542310.3	0.957 mg/L	0.0064	0.957 mg/L	0.0064	0.67%
QC value within limits for Sr 407.771 Recovery = 95.71%						
Sr 421.552	748441.2	0.961 mg/L	0.0053	0.961 mg/L	0.0053	0.55%
QC value within limits for Sr 421.552 Recovery = 96.12%						
Sr 460.733	21811.1	0.973 mg/L	0.0071	0.973 mg/L	0.0071	0.73%
QC value within limits for Sr 460.733 Recovery = 97.35%						

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/24/2001 10:07:04 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2850822.2						5682.32	0.20%
Ag 328.068	-33.0	-0.00005	mg/L	0.000002	-0.00005	mg/L	0.000002	4.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-10.0	-0.00058	mg/L	0.000102	-0.00058	mg/L	0.000102	17.45%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.3	0.00022	mg/L	0.000053	0.00022	mg/L	0.000053	24.31%
QC value within limits for As 188.979 Recovery = Not calculated								

Ba 230.424	-14.3	-0.00004 mg/L	0.000004	-0.00004 mg/L	0.000004	9.98%
QC value within limits for Ba 230.424 Recovery = Not calculated						
Be 234.861	9.1	0.00001 mg/L	0.000004	0.00001 mg/L	0.000004	71.33%
QC value within limits for Be 234.861 Recovery = Not calculated						
Ca 227.549	7.0	0.00551 mg/L	0.009747	0.00551 mg/L	0.009747	176.85%
QC value within limits for Ca 227.549 Recovery = Not calculated						
Cd 228.802	-10.4	-0.00002 mg/L	0.000001	-0.00002 mg/L	0.000001	5.09%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616	16.9	0.00009 mg/L	0.000021	0.00009 mg/L	0.000021	22.76%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	7.1	0.00002 mg/L	0.000015	0.00002 mg/L	0.000015	73.66%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.396	-41.8	-0.00010 mg/L	0.000091	-0.00010 mg/L	0.000091	88.75%
QC value within limits for Cu 327.396 Recovery = Not calculated						
Fe 261.387	89.9	0.00399 mg/L	0.000070	0.00399 mg/L	0.000070	1.76%
QC value within limits for Fe 261.387 Recovery = Not calculated						
Mg 279.079	-24.5	-0.00041 mg/L	0.000009	-0.00041 mg/L	0.000009	2.28%
QC value within limits for Mg 279.079 Recovery = Not calculated						
Mn 257.610	15.4	0.00001 mg/L	0.000005	0.00001 mg/L	0.000005	63.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	78.9	0.00120 mg/L	0.000106	0.00120 mg/L	0.000106	8.80%
QC value within limits for Mo 202.030 Recovery = Not calculated						
Ni 231.604	5.1	0.00003 mg/L	0.000042	0.00003 mg/L	0.000042	161.29%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	2.5	0.00010 mg/L	0.000227	0.00010 mg/L	0.000227	222.81%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-2.8	-0.00015 mg/L	0.000323	-0.00015 mg/L	0.000323	211.13%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	14.7	0.00163 mg/L	0.000335	0.00163 mg/L	0.000335	20.50%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	228.4	0.00215 mg/L	0.001079	0.00215 mg/L	0.001079	50.19%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	65.5	0.00403 mg/L	0.000851	0.00403 mg/L	0.000851	21.14%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	49.7	0.00004 mg/L	0.000000	0.00004 mg/L	0.000000	0.17%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	14.9	0.00114 mg/L	0.000298	0.00114 mg/L	0.000298	26.24%
QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	-11.2	-0.00004 mg/L	0.000028	-0.00004 mg/L	0.000028	70.18%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	42.0	0.00021 mg/L	0.000009	0.00021 mg/L	0.000009	4.10%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	-204.4	-0.00957 mg/L	0.003490	-0.00957 mg/L	0.003490	36.47%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	-2279.7	-0.0623 mg/L	0.00336	-0.0623 mg/L	0.00336	5.40%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	3.2	0.00274 mg/L	0.000008	0.00274 mg/L	0.000008	0.29%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552	2.1	0.00493 mg/L	0.000032	0.00493 mg/L	0.000032	0.65%
Sample signal is less than that of the lowest standard.						
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 460.733	-29.0	0.00308 mg/L	0.000647	0.00308 mg/L	0.000647	21.02%
QC value within limits for Sr 460.733 Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 11
Sample ID: 0532604
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/24/2001 10:11:14 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0532604

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3131439.9						27514.34	0.88%
Ag 328.068	2761.9	0.00406	mg/L	0.000061	0.00406	mg/L	0.000061	1.49%
Al 237.312	2679.5	0.172	mg/L	0.0011	0.172	mg/L	0.0011	0.66%
As 188.979	62.6	0.00609	mg/L	0.000518	0.00609	mg/L	0.000518	8.51%
Ba 230.424	17943.0	0.0518	mg/L	0.00115	0.0518	mg/L	0.00115	2.22%

Be 234.861	349.3	0.00012 mg/L	0.000007	0.00012 mg/L	0.000007	5.81%
Ca 227.549	101190.4	80.9 mg/L	1.38	80.9 mg/L	1.38	1.70%
Cd 228.802	586.6	0.00131 mg/L	0.000001	0.00131 mg/L	0.000001	0.04%
Co 228.616	451.0	0.00303 mg/L	0.000013	0.00303 mg/L	0.000013	0.44%
Cr 267.716	2834.9	0.00842 mg/L	0.000067	0.00842 mg/L	0.000067	0.79%
Cu 327.396	722.8	0.00178 mg/L	0.000063	0.00178 mg/L	0.000063	3.53%
Fe 261.387	41033.1	2.10 mg/L	0.046	2.10 mg/L	0.046	2.17%
Mg 279.079	632675.6	10.7 mg/L	0.17	10.7 mg/L	0.17	1.62%
Mn 257.610	20463372.0	9.57 mg/L	0.065	9.57 mg/L	0.065	0.68%
Mo 202.030	16209.0	0.247 mg/L	0.0059	0.247 mg/L	0.0059	2.38%
Ni 231.604	546.9	0.00281 mg/L	0.000072	0.00281 mg/L	0.000072	2.58%
Pb 220.353	108.0	0.00485 mg/L	0.000197	0.00485 mg/L	0.000197	4.06%
Sb 206.833	-1.1	-0.00425 mg/L	0.000277	-0.00425 mg/L	0.000277	6.50%
Se 196.026	44.1	0.00487 mg/L	0.000343	0.00487 mg/L	0.000343	7.04%
Si 288.158	318786.0	3.04 mg/L	0.058	3.04 mg/L	0.058	1.91%
Sn 189.933	-65.2	-0.00971 mg/L	0.000162	-0.00971 mg/L	0.000162	1.67%
Ti 337.280	1226.7	0.0501 mg/L	0.00045	0.0501 mg/L	0.00045	0.89%
Tl 190.800	63.9	0.0850 mg/L	0.00103	0.0850 mg/L	0.00103	1.21%
V 292.402	-439.2	-0.00146 mg/L	0.000389	-0.00146 mg/L	0.000389	26.66%
Zn 206.200	1757.2	0.00871 mg/L	0.000081	0.00871 mg/L	0.000081	0.93%
K 766.490	68204.2	3.16 mg/L	0.046	3.16 mg/L	0.046	1.46%
Na 589.592	889892.4	24.3 mg/L	0.36	24.3 mg/L	0.36	1.48%
Sr 407.771	990146.4	0.615 mg/L	0.0079	0.615 mg/L	0.0079	1.29%
Sr 421.552	480413.5	0.619 mg/L	0.0080	0.619 mg/L	0.0080	1.29%
Sr 460.733	14679.9	0.666 mg/L	0.0094	0.666 mg/L	0.0094	1.41%

Sequence No.: 12
Sample ID: 0532605
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/24/2001 10:15:30 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0532605

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3028658.3						72700.36	2.40%
Ag 328.068	2392.5	0.00352	mg/L	0.000089	0.00352	mg/L	0.000089	2.52%
Al 237.312	1774.7	0.107	mg/L	0.0004	0.107	mg/L	0.0004	0.35%
As 188.979	9.3	0.00090	mg/L	0.000448	0.00090	mg/L	0.000448	49.98%
Ba 230.424	9823.6	0.0284	mg/L	0.00027	0.0284	mg/L	0.00027	0.95%
Be 234.861	102.7	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	23.08%
Ca 227.549	70507.6	56.4	mg/L	0.25	56.4	mg/L	0.25	0.44%
Cd 228.802	20.5	-0.00001	mg/L	0.000016	-0.00001	mg/L	0.000016	230.45%
Co 228.616	178.4	0.00116	mg/L	0.000027	0.00116	mg/L	0.000027	2.28%
Cr 267.716	143.8	0.00039	mg/L	0.000055	0.00039	mg/L	0.000055	14.23%
Cu 327.396	380.3	0.00094	mg/L	0.000156	0.00094	mg/L	0.000156	16.67%
Fe 261.387	7576.6	0.337	mg/L	0.0034	0.337	mg/L	0.0034	0.99%
Mg 279.079	709727.1	12.0	mg/L	0.32	12.0	mg/L	0.32	2.68%
Mn 257.610	135279.6	0.0630	mg/L	0.00062	0.0630	mg/L	0.00062	0.98%
Mo 202.030	5194.0	0.0791	mg/L	0.00115	0.0791	mg/L	0.00115	1.46%
Ni 231.604	240.2	0.00123	mg/L	0.000043	0.00123	mg/L	0.000043	3.49%
Pb 220.353	41.1	0.00182	mg/L	0.000328	0.00182	mg/L	0.000328	18.04%
Sb 206.833	30.9	0.00124	mg/L	0.000360	0.00124	mg/L	0.000360	28.93%
Se 196.026	101.7	0.0113	mg/L	0.00171	0.0113	mg/L	0.00171	15.15%
Si 288.158	610716.7	5.77	mg/L	0.155	5.77	mg/L	0.155	2.69%
Sn 189.933	-76.0	-0.00864	mg/L	0.000055	-0.00864	mg/L	0.000055	0.64%
Ti 337.280	3085.6	0.00469	mg/L	0.000045	0.00469	mg/L	0.000045	0.96%
Tl 190.800	20.9	0.00217	mg/L	0.000860	0.00217	mg/L	0.000860	39.53%
V 292.402	184.6	0.00070	mg/L	0.000060	0.00070	mg/L	0.000060	8.56%
Zn 206.200	944.2	0.00466	mg/L	0.000061	0.00466	mg/L	0.000061	1.31%
K 766.490	73766.9	3.42	mg/L	0.200	3.42	mg/L	0.200	5.84%
Na 589.592	1058633.7	28.9	mg/L	0.43	28.9	mg/L	0.43	1.50%
Sr 407.771	1022049.9	0.635	mg/L	0.0087	0.635	mg/L	0.0087	1.37%
Sr 421.552	495586.8	0.638	mg/L	0.0087	0.638	mg/L	0.0087	1.36%
Sr 460.733	14593.3	0.662	mg/L	0.0311	0.662	mg/L	0.0311	4.71%

Sequence No.: 13
Sample ID: 0532606 0.5

Autosampler Location: 11
Date Collected: 5/24/2001 10:19:44 AM

Analyst:
Sample Wt: Sample Prep Volume:
Dilution: 2X Data Type: Original

Mean Data: 0532606

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3099962.4						17893.40	0.58%
Ag 328.068	2370.7	0.00349	mg/L	0.000175	0.00349	mg/L	0.000175	5.02%
Al 237.312	412906.7	25.9	mg/L	0.23	25.9	mg/L	0.23	0.88%
As 188.979	1261.3	0.121	mg/L	0.0019	0.121	mg/L	0.0019	1.56%
Ba 230.424	312210.6	0.897	mg/L	0.0142	0.897	mg/L	0.0142	1.58%
Be 234.861	16163.8	0.00303	mg/L	0.000067	0.00303	mg/L	0.000067	2.20%
Ca 227.549	352413.8	280	mg/L	0.7	280	mg/L	0.7	0.26%
Cd 228.802	1248.9	0.00257	mg/L	0.000015	0.00257	mg/L	0.000015	0.60%
Co 228.616	43458.2	0.233	mg/L	0.0049	0.233	mg/L	0.0049	2.12%
Cr 267.716	17567.2	0.0564	mg/L	0.00102	0.0564	mg/L	0.00102	1.81%
Cu 327.396	102685.3	0.253	mg/L	0.0004	0.253	mg/L	0.0004	0.16%
Fe 261.387	2179265.8	96.8	mg/L	1.36	96.8	mg/L	1.36	1.41%
Mg 279.079	4779052.4	80.7	mg/L	1.43	80.7	mg/L	1.43	1.77%
Mn 257.610	23374135.0	10.9	mg/L	0.31	10.9	mg/L	0.31	2.82%
Mo 202.030	1036.5	0.0157	mg/L	0.00001	0.0157	mg/L	0.00001	0.06%
Ni 231.604	61764.5	0.316	mg/L	0.0057	0.316	mg/L	0.0057	1.81%
Pb 220.353	4232.2	0.170	mg/L	0.0032	0.170	mg/L	0.0032	1.89%
Sb 206.833	295.6	-0.00511	mg/L	0.001056	-0.00511	mg/L	0.001056	20.68%
Se 196.026	271.7	0.0256	mg/L	0.00145	0.0256	mg/L	0.00145	5.66%
Si 288.158	3934101.7	37.1	mg/L	0.40	37.1	mg/L	0.40	1.08%
Sn 189.933	-128.0	-0.0320	mg/L	0.00004	-0.0320	mg/L	0.00004	0.11%
Ti 337.280	657015.7	0.494	mg/L	0.0047	0.494	mg/L	0.0047	0.95%
Tl 190.800	20.9	0.104	mg/L	0.0033	0.104	mg/L	0.0033	3.21%
V 292.402	22080.3	0.0875	mg/L	0.00067	0.0875	mg/L	0.00067	0.76%
Zn 206.200	56647.3	0.280	mg/L	0.0089	0.280	mg/L	0.0089	3.18%
K 766.490	168566.8	7.65	mg/L	0.055	7.65	mg/L	0.055	0.71%
Na 589.592	840229.4	23.0	mg/L	0.40	23.0	mg/L	0.40	1.75%
Sr 407.771	2287524.1	1.42	mg/L	0.025	1.42	mg/L	0.025	1.79%
Sr 421.552	1115354.8	1.43	mg/L	0.025	1.43	mg/L	0.025	1.77%
Sr 460.733	34598.8	1.51	mg/L	0.017	1.51	mg/L	0.017	1.16%

Sequence No.: 14 Autosampler Location: 5
Sample ID: CCV Date Collected: 5/24/2001 10:24:04 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3314820.1						11083.10	0.33%
Ag 328.068	257342.7	0.379	mg/L	0.0001	0.379	mg/L	0.0001	0.01%
QC value within limits for Ag 328.068 Recovery = 94.68%								
Al 237.312	158724.7	9.71	mg/L	0.033	9.71	mg/L	0.033	0.34%
QC value within limits for Al 237.312 Recovery = 97.15%								
As 188.979	3861.9	0.374	mg/L	0.0012	0.374	mg/L	0.0012	0.32%
QC value within limits for As 188.979 Recovery = 93.41%								
Ba 230.424	351247.7	1.01	mg/L	0.007	1.01	mg/L	0.007	0.67%
QC value within limits for Ba 230.424 Recovery = 100.77%								
Be 234.861	86560.3	0.0509	mg/L	0.00013	0.0509	mg/L	0.00013	0.26%
QC value within limits for Be 234.861 Recovery = 101.85%								
Ca 227.549	12571.0	9.94	mg/L	0.012	9.94	mg/L	0.012	0.13%
QC value within limits for Ca 227.549 Recovery = 99.39%								
Cd 228.802	20550.2	0.0478	mg/L	0.00011	0.0478	mg/L	0.00011	0.24%
QC value within limits for Cd 228.802 Recovery = 95.68%								
Co 228.616	38583.3	0.206	mg/L	0.0015	0.206	mg/L	0.0015	0.75%
QC value within limits for Co 228.616 Recovery = 103.05%								
Cr 267.716	168413.6	0.506	mg/L	0.0039	0.506	mg/L	0.0039	0.78%
QC value within limits for Cr 267.716 Recovery = 101.25%								
Cu 327.396	203000.0	0.500	mg/L	0.0001	0.500	mg/L	0.0001	0.03%
QC value within limits for Cu 327.396 Recovery = 99.97%								

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Fe 261.387	91032.4	4.07 mg/L	0.024	4.07 mg/L	0.024	0.58%
QC value within limits for Fe 261.387 Recovery = 101.75%						
Mg 279.079	572925.5	9.67 mg/L	0.101	9.67 mg/L	0.101	1.04%
QC value within limits for Mg 279.079 Recovery = 96.67%						
Mn 257.610	1067746.3	0.498 mg/L	0.0026	0.498 mg/L	0.0026	0.52%
QC value within limits for Mn 257.610 Recovery = 99.69%						
Mo 202.030	65049.2	0.991 mg/L	0.0108	0.991 mg/L	0.0108	1.09%
QC value within limits for Mo 202.030 Recovery = 99.55%						
Ni 231.604	99072.5	0.505 mg/L	0.0050	0.505 mg/L	0.0050	0.99%
QC value within limits for Ni 231.604 Recovery = 101.05%						
Pb 220.353	12179.0	0.486 mg/L	0.0019	0.486 mg/L	0.0019	0.39%
QC value within limits for Pb 220.353 Recovery = 97.13%						
Sb 206.833	21190.6	1.14 mg/L	0.001	1.14 mg/L	0.001	0.11%
QC value within limits for Sb 206.833 Recovery = 94.75%						
Se 196.026	3541.9	0.390 mg/L	0.0034	0.390 mg/L	0.0034	0.86%
QC value within limits for Se 196.026 Recovery = 97.59%						
Si 288.158	2826.8	0.0350 mg/L	0.00031	0.0350 mg/L	0.00031	0.89%
QC value less than the lower limit for Si 288.158 Recovery = 0.70%						
Sn 189.933	13831.1	0.848 mg/L	0.0211	0.848 mg/L	0.0211	2.49%
QC value less than the lower limit for Sn 189.933 Recovery = 84.95%						
Ti 337.280	1486049.8	0.980 mg/L	0.0039	0.980 mg/L	0.0039	0.40%
QC value within limits for Ti 337.280 Recovery = 98.04%						
Tl 190.800	6350.0	0.494 mg/L	0.0081	0.494 mg/L	0.0081	1.65%
QC value within limits for Tl 190.800 Recovery = 98.85%						
V 292.402	275395.1	1.00 mg/L	0.006	1.00 mg/L	0.006	0.57%
QC value within limits for V 292.402 Recovery = 100.36%						
Zn 206.200	191449.8	0.974 mg/L	0.0150	0.974 mg/L	0.0150	1.54%
QC value within limits for Zn 206.200 Recovery = 97.38%						
K 766.490	1021994.4	47.8 mg/L	0.72	47.8 mg/L	0.72	1.50%
QC value within limits for K 766.490 Recovery = 95.68%						
Na 589.592	1761466.3	48.1 mg/L	0.21	48.1 mg/L	0.21	0.43%
QC value within limits for Na 589.592 Recovery = 96.25%						
Sr 407.771	1519917.0	0.943 mg/L	0.0041	0.943 mg/L	0.0041	0.43%
QC value within limits for Sr 407.771 Recovery = 94.32%						
Sr 421.552	736037.4	0.945 mg/L	0.0033	0.945 mg/L	0.0033	0.35%
QC value within limits for Sr 421.552 Recovery = 94.54%						
Sr 460.733	21703.0	0.969 mg/L	0.0085	0.969 mg/L	0.0085	0.88%
QC value within limits for Sr 460.733 Recovery = 96.89%						

QC Failed. Continue with analysis.

Sequence No.: 15 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 5/24/2001 10:28:20 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2826056.5						6686.10	0.24%
Ag 328.068	13.9	0.00002	mg/L	0.000001	0.00002	mg/L	0.000001	4.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-9.2	-0.00053	mg/L	0.000547	-0.00053	mg/L	0.000547	102.93%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.4	0.00014	mg/L	0.000356	0.00014	mg/L	0.000356	262.73%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-11.4	-0.00003	mg/L	0.000013	-0.00003	mg/L	0.000013	41.11%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	11.6	0.00001	mg/L	0.000002	0.00001	mg/L	0.000002	33.08%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	5.0	0.00394	mg/L	0.002601	0.00394	mg/L	0.002601	66.09%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-9.9	-0.00002	mg/L	0.000006	-0.00002	mg/L	0.000006	25.19%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	17.9	0.00010	mg/L	0.000003	0.00010	mg/L	0.000003	3.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	21.7	0.00006	mg/L	0.000003	0.00006	mg/L	0.000003	3.93%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-42.7	-0.00011	mg/L	0.000027	-0.00011	mg/L	0.000027	25.96%

QC value within limits for Cu 327.396 Recovery = Not calculated

Fe 261.387	99.9	0.00443 mg/L	0.000635	0.00443 mg/L	0.000635	14.32%
QC value within limits for Fe 261.387 Recovery = Not calculated							
Mg 279.079	-26.9	-0.00046 mg/L	0.000159	-0.00046 mg/L	0.000159	34.83%
QC value within limits for Mg 279.079 Recovery = Not calculated							
Mn 257.610	17.3	0.00001 mg/L	0.000004	0.00001 mg/L	0.000004	48.35%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.030	74.6	0.00114 mg/L	0.000144	0.00114 mg/L	0.000144	12.67%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	-0.7	0.00000 mg/L	0.000002	0.00000 mg/L	0.000002	52.06%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	1.7	0.00007 mg/L	0.000037	0.00007 mg/L	0.000037	53.56%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	-4.2	-0.00023 mg/L	0.000174	-0.00023 mg/L	0.000174	75.94%
QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	18.9	0.00210 mg/L	0.000741	0.00210 mg/L	0.000741	35.25%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 288.158	286.6	0.00270 mg/L	0.000252	0.00270 mg/L	0.000252	9.33%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	57.8	0.00356 mg/L	0.000224	0.00356 mg/L	0.000224	6.30%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	55.1	0.00004 mg/L	0.000013	0.00004 mg/L	0.000013	29.99%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	18.0	0.00137 mg/L	0.000088	0.00137 mg/L	0.000088	6.41%
QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	-21.4	-0.00008 mg/L	0.000049	-0.00008 mg/L	0.000049	63.04%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200	47.3	0.00024 mg/L	0.000028	0.00024 mg/L	0.000028	11.81%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490	-324.9	-0.0152 mg/L	0.00285	-0.0152 mg/L	0.00285	18.73%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592	-2278.0	-0.0622 mg/L	0.00309	-0.0622 mg/L	0.00309	4.97%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771	6.7	0.00274 mg/L	0.000007	0.00274 mg/L	0.000007	0.25%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	-51.2	0.00486 mg/L	0.000067	0.00486 mg/L	0.000067	1.37%
Sample signal is less than that of the lowest standard.							
QC value within limits for Sr 421.552 Recovery = Not calculated							
Sr 460.733	-41.9	0.00248 mg/L	0.000530	0.00248 mg/L	0.000530	21.40%
QC value within limits for Sr 460.733 Recovery = Not calculated							

All analytes passed QC.

Analysis Begun

Start Time: 5/24/2001 10:55:16 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 5/24/2001 7:51:17 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052401.sif
Results Data Set: 052401
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: PBW E WG97746-03
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 12
Date Collected: 5/24/2001 10:55:17 AM
Sample Prep Volume:
Data Type: Original

Mean Data: PBW E WG97746-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2843650.0						3612.16	0.13%
Ag 328.068	223.0	0.00033	mg/L	0.000048	0.00033	mg/L	0.000048	14.56%
Al 237.312	342.9	0.0211	mg/L	0.00105	0.0211	mg/L	0.00105	5.00%
As 188.979	0.8	0.00007	mg/L	0.000345	0.00007	mg/L	0.000345	472.20%
Ba 230.424	90.4	0.00026	mg/L	0.000004	0.00026	mg/L	0.000004	1.66%
Be 234.861	5.2	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	182.88%
Ca 227.549	50.3	0.0399	mg/L	0.01116	0.0399	mg/L	0.01116	27.98%
Cd 228.802	-12.5	-0.00003	mg/L	0.000012	-0.00003	mg/L	0.000012	41.58%
Co 228.616	15.2	0.00008	mg/L	0.000026	0.00008	mg/L	0.000026	32.59%
Cr 267.716	18.4	0.00006	mg/L	0.000004	0.00006	mg/L	0.000004	7.66%
Cu 327.396	-38.1	-0.00009	mg/L	0.000142	-0.00009	mg/L	0.000142	151.58%
Fe 261.387	445.7	0.0198	mg/L	0.00043	0.0198	mg/L	0.00043	2.19%
Mg 279.079	210.7	0.00355	mg/L	0.000053	0.00355	mg/L	0.000053	1.49%
Mn 257.610	613.1	0.00029	mg/L	0.000007	0.00029	mg/L	0.000007	2.30%
Mo 202.030	-5.8	-0.00009	mg/L	0.000024	-0.00009	mg/L	0.000024	27.02%
Ni 231.604	188.5	0.00096	mg/L	0.000004	0.00096	mg/L	0.000004	0.37%
Pb 220.353	2.7	0.00011	mg/L	0.000243	0.00011	mg/L	0.000243	225.19%
Sb 206.833	-4.5	-0.00025	mg/L	0.000012	-0.00025	mg/L	0.000012	4.81%
Se 196.026	13.1	0.00144	mg/L	0.000809	0.00144	mg/L	0.000809	55.97%
Si 288.158	6912.4	0.0650	mg/L	0.00143	0.0650	mg/L	0.00143	2.20%
Sn 189.933	-29.3	-0.00181	mg/L	0.000043	-0.00181	mg/L	0.000043	2.38%
Ti 337.280	198.3	0.00013	mg/L	0.000052	0.00013	mg/L	0.000052	39.15%
Tl 190.800	2.5	0.00019	mg/L	0.000218	0.00019	mg/L	0.000218	113.72%
V 292.402	-2.5	-0.00001	mg/L	0.000189	-0.00001	mg/L	0.000189	>999.9%
Zn 206.200	756.6	0.00385	mg/L	0.000019	0.00385	mg/L	0.000019	0.49%
K 766.490	-173.1	-0.00812	mg/L	0.001614	-0.00812	mg/L	0.001614	19.89%
Na 589.592	-675.4	-0.0185	mg/L	0.00223	-0.0185	mg/L	0.00223	12.09%
Sr 407.771	289.0	0.00292	mg/L	0.000050	0.00292	mg/L	0.000050	1.72%
Sr 421.552	113.7	0.00507	mg/L	0.000016	0.00507	mg/L	0.000016	0.32%
Sample signal is less than that of the lowest standard.								
Sr 460.733	101.8	0.00915	mg/L	0.003769	0.00915	mg/L	0.003769	41.20%

Sequence No.: 2
Sample ID: LCSW E WG97746-04
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 5/24/2001 10:59:30 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCSW E WG97746-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3242173.6						59744.17	1.84%
Ag 328.068	131449.4	0.193	mg/L	0.0021	0.193	mg/L	0.0021	1.08%
Al 237.312	160515.5	9.80	mg/L	0.043	9.80	mg/L	0.043	0.44%
As 188.979	9848.1	0.950	mg/L	0.0110	0.950	mg/L	0.0110	1.15%
Ba 230.424	3184852.0	9.13	mg/L	0.201	9.13	mg/L	0.201	2.20%

Be 234.861	1643358.1	0.971 mg/L	0.0176	0.971 mg/L	0.0176	1.81%
Ca 227.549	12533.0	9.97 mg/L	0.074	9.97 mg/L	0.074	0.74%
Cd 228.802	394214.9	0.929 mg/L	0.0017	0.929 mg/L	0.0017	0.18%
Co 228.616	179095.1	0.956 mg/L	0.0036	0.956 mg/L	0.0036	0.38%
Cr 267.716	325510.2	0.972 mg/L	0.0019	0.972 mg/L	0.0019	0.20%
Cu 327.396	385995.0	0.951 mg/L	0.0102	0.951 mg/L	0.0102	1.08%
Fe 261.387	19637.5	0.998 mg/L	0.0097	0.998 mg/L	0.0097	0.97%
Mg 279.079	562072.4	9.48 mg/L	0.066	9.48 mg/L	0.066	0.70%
Mn 257.610	2101120.1	0.981 mg/L	0.0211	0.981 mg/L	0.0211	2.15%
Mo 202.030	59677.7	0.909 mg/L	0.0009	0.909 mg/L	0.0009	0.10%
Ni 231.604	188478.7	0.961 mg/L	0.0053	0.961 mg/L	0.0053	0.55%
Pb 220.353	24460.7	0.971 mg/L	0.0116	0.971 mg/L	0.0116	1.19%
Sb 206.833	17762.6	0.944 mg/L	0.0089	0.944 mg/L	0.0089	0.95%
Se 196.026	8419.0	0.931 mg/L	0.0104	0.931 mg/L	0.0104	1.12%
Si 288.158	1134200.5	10.7 mg/L	0.22	10.7 mg/L	0.22	2.04%
Sn 189.933	15372.6	0.943 mg/L	0.0214	0.943 mg/L	0.0214	2.27%
Ti 337.280	1504974.2	0.997 mg/L	0.0189	0.997 mg/L	0.0189	1.89%
Tl 190.800	10605.3	0.829 mg/L	0.0296	0.829 mg/L	0.0296	3.57%
V 292.402	262425.6	0.956 mg/L	0.0025	0.956 mg/L	0.0025	0.26%
Zn 206.200	188020.7	0.957 mg/L	0.0153	0.957 mg/L	0.0153	1.59%
K 766.490	1062242.7	49.7 mg/L	1.30	49.7 mg/L	1.30	2.61%
Na 589.592	1796059.2	49.1 mg/L	1.24	49.1 mg/L	1.24	2.52%
Sr 407.771	1553630.4	0.964 mg/L	0.0216	0.964 mg/L	0.0216	2.24%
Sr 421.552	752436.5	0.966 mg/L	0.0219	0.966 mg/L	0.0219	2.27%
Sr 460.733	22764.4	1.01 mg/L	0.022	1.01 mg/L	0.022	2.16%

Recovery Check: LCSW E WG97746-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.0	49.7	1.300	mg/L	99.5
Na 589.592	50.0	49.1	1.238	mg/L	98.2
Sr 407.771	1.00	0.964	0.022	mg/L	96.1
Sr 421.552	1.01	0.966	0.022	mg/L	96.1
Sr 460.733	1.01	1.01	0.022	mg/L	100.5
Ag 328.068	0.200	0.193	0.002	mg/L	96.6
Al 237.312	10.0	9.80	0.043	mg/L	97.8
As 188.979	1.00	0.950	0.011	mg/L	95.0
Ba 230.424	10.0	9.13	0.201	mg/L	91.3
Be 234.861	1.00	0.971	0.018	mg/L	97.1
Ca 227.549	10.0	9.97	0.074	mg/L	99.3
Cd 228.802	1.000	0.929	0.002	mg/L	92.9
Co 228.616	1.00	0.956	0.004	mg/L	95.6
Cr 267.716	1.00	0.972	0.002	mg/L	97.2
Cu 327.396	1.000	0.951	0.010	mg/L	95.1
Fe 261.387	1.02	0.998	0.010	mg/L	97.8
Mg 279.079	10.0	9.48	0.066	mg/L	94.8
Mn 257.610	1.00	0.981	0.021	mg/L	98.1
Mo 202.030	0.995	0.909	0.001	mg/L	91.3
Ni 231.604	1.00	0.961	0.005	mg/L	96.0
Pb 220.353	1.00	0.971	0.012	mg/L	97.1
Sb 206.833	1.20	0.944	0.009	mg/L	78.5
Se 196.026	1.00	0.931	0.010	mg/L	93.0
Si 288.158	10.1	10.7	0.218	mg/L	106.1
Sn 189.933	0.997	0.943	0.021	mg/L	94.6
Ti 337.280	1.000	0.997	0.019	mg/L	99.8
Tl 190.800	1.00	0.829	0.030	mg/L	82.9
V 292.402	1.000	0.956	0.003	mg/L	95.6
Zn 206.200	1.00	0.957	0.015	mg/L	95.3

Sequence No.: 3
Sample ID: 0540411
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 5/24/2001 11:03:49 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0540411

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 360.073	2861084.3				43049.08	1.50%
Ag 328.068	106.4	0.00016 mg/L	0.000036	0.00016 mg/L	0.000036	22.99%
Al 237.312	-128.4	-0.00767 mg/L	0.000384	-0.00767 mg/L	0.000384	5.01%
As 188.979	5.5	0.00052 mg/L	0.000288	0.00052 mg/L	0.000288	54.99%
Ba 230.424	102.6	0.00030 mg/L	0.000011	0.00030 mg/L	0.000011	3.57%
Be 234.861	27.7	0.00001 mg/L	0.000006	0.00001 mg/L	0.000006	43.18%
Ca 227.549	338.8	0.271 mg/L	0.0021	0.271 mg/L	0.0021	0.77%
Cd 228.802	17.7	0.00004 mg/L	0.000008	0.00004 mg/L	0.000008	20.07%
Co 228.616	38.9	0.00021 mg/L	0.000036	0.00021 mg/L	0.000036	17.30%
Cr 267.716	84.7	0.00025 mg/L	0.000006	0.00025 mg/L	0.000006	2.31%
Cu 327.396	35.5	0.00009 mg/L	0.000024	0.00009 mg/L	0.000024	27.83%
Fe 261.387	589.4	0.0261 mg/L	0.00030	0.0261 mg/L	0.00030	1.14%
Mg 279.079	3734.0	0.0631 mg/L	0.00218	0.0631 mg/L	0.00218	3.47%
Mn 257.610	475.3	0.00022 mg/L	0.000004	0.00022 mg/L	0.000004	1.63%
Mo 202.030	79.5	0.00121 mg/L	0.000012	0.00121 mg/L	0.000012	1.02%
Ni 231.604	39.7	0.00020 mg/L	0.000035	0.00020 mg/L	0.000035	17.40%
Pb 220.353	9.7	0.00039 mg/L	0.000033	0.00039 mg/L	0.000033	8.49%
Sb 206.833	2.2	0.00011 mg/L	0.000281	0.00011 mg/L	0.000281	246.30%
Se 196.026	24.2	0.00269 mg/L	0.000390	0.00269 mg/L	0.000390	14.49%
Si 288.158	37736.7	0.355 mg/L	0.0020	0.355 mg/L	0.0020	0.58%
Sn 189.933	35.4	0.00216 mg/L	0.000706	0.00216 mg/L	0.000706	32.73%
Ti 337.280	259.9	0.00019 mg/L	0.000007	0.00019 mg/L	0.000007	3.55%
Tl 190.800	83.9	0.00639 mg/L	0.000726	0.00639 mg/L	0.000726	11.37%
V 292.402	12.0	0.00005 mg/L	0.000239	0.00005 mg/L	0.000239	521.32%
Zn 206.200	223.5	0.00114 mg/L	0.000050	0.00114 mg/L	0.000050	4.44%
K 766.490	-16.6	-0.00097 mg/L	0.003182	-0.00097 mg/L	0.003182	329.59%
Na 589.592	2544.4	0.0695 mg/L	0.00214	0.0695 mg/L	0.00214	3.07%
Sr 407.771	1445.1	0.00363 mg/L	0.000020	0.00363 mg/L	0.000020	0.55%
Sr 421.552	631.1	0.00574 mg/L	0.000121	0.00574 mg/L	0.000121	2.11%
Sample signal is less than that of the lowest standard.						
Sr 460.733	37.0	0.00614 mg/L	0.001512	0.00614 mg/L	0.001512	24.62%

Sequence No.: 4
Sample ID: 0540411PS 0.9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 5/24/2001 11:08:04 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0540411PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3226605.6						20961.91	0.65%
Ag 328.068	130608.6	0.192	mg/L	0.0045	0.192	mg/L	0.0045	2.32%
Al 237.312	158440.0	9.67	mg/L	0.219	9.67	mg/L	0.219	2.26%
As 188.979	9598.4	0.926	mg/L	0.0119	0.926	mg/L	0.0119	1.28%
Ba 230.424	3099138.1	8.88	mg/L	0.092	8.88	mg/L	0.092	1.04%
Be 234.861	1586429.2	0.938	mg/L	0.0057	0.938	mg/L	0.0057	0.61%
Ca 227.549	12518.4	9.96	mg/L	0.109	9.96	mg/L	0.109	1.10%
Cd 228.802	390653.3	0.921	mg/L	0.0212	0.921	mg/L	0.0212	2.30%
Co 228.616	176193.4	0.941	mg/L	0.0220	0.941	mg/L	0.0220	2.34%
Cr 267.716	322157.0	0.962	mg/L	0.0203	0.962	mg/L	0.0203	2.11%
Cu 327.396	385492.6	0.949	mg/L	0.0242	0.949	mg/L	0.0242	2.55%
Fe 261.387	18485.3	0.944	mg/L	0.0130	0.944	mg/L	0.0130	1.38%
Mg 279.079	556217.7	9.38	mg/L	0.213	9.38	mg/L	0.213	2.27%
Mn 257.610	2039016.1	0.952	mg/L	0.0088	0.952	mg/L	0.0088	0.93%
Mo 202.030	59688.2	0.909	mg/L	0.0216	0.909	mg/L	0.0216	2.37%
Ni 231.604	185437.3	0.945	mg/L	0.0229	0.945	mg/L	0.0229	2.42%
Pb 220.353	23849.7	0.947	mg/L	0.0134	0.947	mg/L	0.0134	1.41%
Sb 206.833	17517.7	0.931	mg/L	0.0120	0.931	mg/L	0.0120	1.29%
Se 196.026	8067.8	0.892	mg/L	0.0132	0.892	mg/L	0.0132	1.48%
Si 288.158	1027023.5	9.66	mg/L	0.071	9.66	mg/L	0.071	0.74%
Sn 189.933	-104.6	-0.00881	mg/L	0.000130	-0.00881	mg/L	0.000130	1.47%
Ti 337.280	1459120.7	0.967	mg/L	0.0075	0.967	mg/L	0.0075	0.78%
Tl 190.800	12492.1	0.972	mg/L	0.0224	0.972	mg/L	0.0224	2.30%
V 292.402	258611.4	0.942	mg/L	0.0222	0.942	mg/L	0.0222	2.36%
Zn 206.200	182922.1	0.931	mg/L	0.0191	0.931	mg/L	0.0191	2.05%
K 766.490	1011786.1	47.4	mg/L	1.32	47.4	mg/L	1.32	2.78%
Na 589.592	1726204.7	47.2	mg/L	0.03	47.2	mg/L	0.03	0.07%
Sr 407.771	1488790.1	0.924	mg/L	0.0010	0.924	mg/L	0.0010	0.11%

Sr 421.552	723518.7	0.929 mg/L	0.0011	0.929 mg/L	0.0011	0.12%
Sr 460.733	21730.0	0.970 mg/L	0.0241	0.970 mg/L	0.0241	2.49%

Recovery Check: 0540411PS 0.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.0	47.4	1.315	mg/L	94.7
Na 589.592	50.1	47.2	0.033	mg/L	94.2
Sr 407.771	1.00	0.924	0.001	mg/L	92.0
Sr 421.552	1.01	0.929	0.001	mg/L	92.4
Sr 460.733	1.01	0.970	0.024	mg/L	96.4
Ag 328.068	0.200	0.192	0.004	mg/L	96.0
Al 237.312	9.99	9.67	0.219	mg/L	96.8
As 188.979	1.00	0.926	0.012	mg/L	92.5
Ba 230.424	10.0	8.88	0.092	mg/L	88.8
Be 234.861	1.00	0.938	0.006	mg/L	93.8
Ca 227.549	10.3	9.96	0.109	mg/L	96.9
Cd 228.802	1.00	0.921	0.021	mg/L	92.1
Co 228.616	1.00	0.941	0.022	mg/L	94.0
Cr 267.716	1.00	0.962	0.020	mg/L	96.2
Cu 327.396	1.00	0.949	0.024	mg/L	94.9
Fe 261.387	1.03	0.944	0.013	mg/L	91.8
Mg 279.079	10.1	9.38	0.213	mg/L	93.2
Mn 257.610	1.00	0.952	0.009	mg/L	95.2
Mo 202.030	0.996	0.909	0.022	mg/L	91.2
Ni 231.604	1.00	0.945	0.023	mg/L	94.5
Pb 220.353	1.00	0.947	0.013	mg/L	94.7
Sb 206.833	1.20	0.931	0.012	mg/L	77.3
Se 196.026	1.00	0.892	0.013	mg/L	89.0
Si 288.158	10.4	9.66	0.071	mg/L	93.1
Sn 189.933	1.00	-0.00881	0.000	mg/L	-1.1
Ti 337.280	1.000	0.967	0.008	mg/L	96.7
Tl 190.800	1.01	0.972	0.022	mg/L	96.6
V 292.402	1.00	0.942	0.022	mg/L	94.2
Zn 206.200	1.00	0.931	0.019	mg/L	93.0

Sequence No.: 5
Sample ID: 0542902 WG97746-01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 5/24/2001 11:12:25 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0542902 WG97746-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3154119.3						20395.46	0.65%
Ag 328.068	1080.8	0.00159	mg/L	0.000178	0.00159	mg/L	0.000178	11.16%
Al 237.312	-52.8	-0.00898	mg/L	0.001855	-0.00898	mg/L	0.001855	20.64%
As 188.979	-7.5	-0.00070	mg/L	0.000738	-0.00070	mg/L	0.000738	104.88%
Ba 230.424	22415.8	0.0647	mg/L	0.00095	0.0647	mg/L	0.00095	1.47%
Be 234.861	127.0	0.00007	mg/L	0.000001	0.00007	mg/L	0.000001	1.76%
Ca 227.549	137979.5	110	mg/L	1.0	110	mg/L	1.0	0.91%
Cd 228.802	203.3	0.00038	mg/L	0.000002	0.00038	mg/L	0.000002	0.39%
Co 228.616	6141.4	0.0329	mg/L	0.00037	0.0329	mg/L	0.00037	1.13%
Cr 267.716	256.8	0.00073	mg/L	0.000006	0.00073	mg/L	0.000006	0.82%
Cu 327.396	141937.6	0.350	mg/L	0.0035	0.350	mg/L	0.0035	1.01%
Fe 261.387	689.2	0.0340	mg/L	0.00123	0.0340	mg/L	0.00123	3.61%
Mg 279.079	456854.8	7.71	mg/L	0.023	7.71	mg/L	0.023	0.30%
Mn 257.610	14738.3	0.00669	mg/L	0.000057	0.00669	mg/L	0.000057	0.85%
Mo 202.030	156.7	0.00239	mg/L	0.000076	0.00239	mg/L	0.000076	3.20%
Ni 231.604	149.6	0.00076	mg/L	0.000111	0.00076	mg/L	0.000111	14.52%
Pb 220.353	922.3	0.0365	mg/L	0.00006	0.0365	mg/L	0.00006	0.16%
Sb 206.833	5.0	-0.00048	mg/L	0.000418	-0.00048	mg/L	0.000418	86.20%
Se 196.026	57.2	0.00634	mg/L	0.000330	0.00634	mg/L	0.000330	5.20%
Si 288.158	955582.1	9.04	mg/L	0.003	9.04	mg/L	0.003	0.03%
Sn 189.933	-122.8	-0.0153	mg/L	0.00027	-0.0153	mg/L	0.00027	1.77%
Ti 337.280	804.3	0.00481	mg/L	0.000104	0.00481	mg/L	0.000104	2.16%
Tl 190.800	272.6	0.0208	mg/L	0.00164	0.0208	mg/L	0.00164	7.91%

V 292.402	124.4	0.00046 mg/L	0.000027	0.00046 mg/L	0.000027	5.93%
Zn 206.200	15439.3	0.0785 mg/L	0.00196	0.0785 mg/L	0.00196	2.50%
K 766.490	35915.2	1.66 mg/L	0.024	1.66 mg/L	0.024	1.43%
Na 589.592	782425.9	21.4 mg/L	0.08	21.4 mg/L	0.08	0.37%
Sr 407.771	267846.2	0.168 mg/L	0.0003	0.168 mg/L	0.0003	0.20%
Sr 421.552	128409.6	0.169 mg/L	0.0023	0.169 mg/L	0.0023	1.38%
Sr 460.733	3796.0	0.179 mg/L	0.0046	0.179 mg/L	0.0046	2.57%

Sequence No.: 6
Sample ID: 0542902S WG97746-05
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 5/24/2001 11:16:44 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0542902S WG97746-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3114691.5						36345.05	1.17%
Ag 328.068	133505.6	0.196	mg/L	0.0030	0.196	mg/L	0.0030	1.51%
Al 237.312	163161.4	9.96	mg/L	0.178	9.96	mg/L	0.178	1.79%
As 188.979	9707.6	0.936	mg/L	0.0079	0.936	mg/L	0.0079	0.85%
Ba 230.424	2922977.8	8.38	mg/L	0.129	8.38	mg/L	0.129	1.55%
Be 234.861	1629762.1	0.963	mg/L	0.0104	0.963	mg/L	0.0104	1.08%
Ca 227.549	140777.8	113	mg/L	1.9	113	mg/L	1.9	1.65%
Cd 228.802	388820.1	0.916	mg/L	0.0159	0.916	mg/L	0.0159	1.74%
Co 228.616	168856.3	0.901	mg/L	0.0192	0.901	mg/L	0.0192	2.13%
Cr 267.716	307099.1	0.917	mg/L	0.0187	0.917	mg/L	0.0187	2.04%
Cu 327.396	522473.4	1.29	mg/L	0.003	1.29	mg/L	0.003	0.25%
Fe 261.387	16410.6	0.848	mg/L	0.0053	0.848	mg/L	0.0053	0.63%
Mg 279.079	996118.5	16.8	mg/L	0.33	16.8	mg/L	0.33	1.99%
Mn 257.610	1976391.6	0.923	mg/L	0.0122	0.923	mg/L	0.0122	1.32%
Mo 202.030	57309.8	0.873	mg/L	0.0215	0.873	mg/L	0.0215	2.46%
Ni 231.604	172174.6	0.878	mg/L	0.0183	0.878	mg/L	0.0183	2.08%
Pb 220.353	23561.3	0.935	mg/L	0.0073	0.935	mg/L	0.0073	0.79%
Sb 206.833	17495.9	0.930	mg/L	0.0035	0.930	mg/L	0.0035	0.38%
Se 196.026	8052.5	0.891	mg/L	0.0096	0.891	mg/L	0.0096	1.08%
Si 288.158	1886013.8	17.8	mg/L	0.18	17.8	mg/L	0.18	1.03%
Sn 189.933	13545.9	0.823	mg/L	0.0160	0.823	mg/L	0.0160	1.95%
Ti 337.280	1448291.1	0.963	mg/L	0.0085	0.963	mg/L	0.0085	0.89%
Tl 190.800	8528.6	0.670	mg/L	0.0231	0.670	mg/L	0.0231	3.44%
V 292.402	256814.4	0.936	mg/L	0.0171	0.936	mg/L	0.0171	1.82%
Zn 206.200	184811.8	0.941	mg/L	0.0228	0.941	mg/L	0.0228	2.43%
K 766.490	1094634.7	51.2	mg/L	0.76	51.2	mg/L	0.76	1.49%
Na 589.592	2569705.1	70.2	mg/L	0.16	70.2	mg/L	0.16	0.22%
Sr 407.771	1755179.5	1.09	mg/L	0.002	1.09	mg/L	0.002	0.15%
Sr 421.552	852790.2	1.09	mg/L	0.002	1.09	mg/L	0.002	0.14%
Sr 460.733	26224.1	1.16	mg/L	0.021	1.16	mg/L	0.021	1.79%

Recovery Check: 0542902S WG97746-05

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	51.7	51.2	0.764	mg/L	99.1
Na 589.592	71.4	70.2	0.158	mg/L	97.7
Sr 407.771	1.17	1.09	0.002	mg/L	92.0
Sr 421.552	1.17	1.09	0.002	mg/L	92.6
Sr 460.733	1.18	1.16	0.021	mg/L	98.1
Ag 328.068	0.202	0.196	0.003	mg/L	97.4
Al 237.312	9.99	9.96	0.178	mg/L	99.7
As 188.979	0.999	0.936	0.008	mg/L	93.7
Ba 230.424	10.1	8.38	0.129	mg/L	83.1
Be 234.861	1.00	0.963	0.010	mg/L	96.3
Ca 227.549	120	113	1.859	mg/L	21.9
Cd 228.802	1.00	0.916	0.016	mg/L	91.6
Co 228.616	1.03	0.901	0.019	mg/L	86.9
Cr 267.716	1.00	0.917	0.019	mg/L	91.6
Cu 327.396	1.35	1.29	0.003	mg/L	93.7
Fe 261.387	1.03	0.848	0.005	mg/L	81.4
Mg 279.079	17.7	16.8	0.334	mg/L	91.0

Mn 257.610	1.01	0.923	0.012	mg/L	91.6
Mo 202.030	0.997	0.873	0.021	mg/L	87.5
Ni 231.604	1.00	0.878	0.018	mg/L	87.7
Pb 220.353	1.04	0.935	0.007	mg/L	89.9
Sb 206.833	1.20	0.930	0.004	mg/L	77.3
Se 196.026	1.01	0.891	0.010	mg/L	88.4
Si 288.158	19.0	17.8	0.184	mg/L	87.5
Sn 189.933	0.983	0.823	0.016	mg/L	84.0
Ti 337.280	1.00	0.963	0.009	mg/L	95.9
Tl 190.800	1.02	0.670	0.023	mg/L	64.9
V 292.402	1.00	0.936	0.017	mg/L	93.5
Zn 206.200	1.08	0.941	0.023	mg/L	86.2

Sequence No.: 7
Sample ID: 0542902SD WG97746-06
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 5/24/2001 11:20:59 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0542902SD WG97746-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3142536.1						15513.55	0.49%
Ag 328.068	134217.7	0.198	mg/L	0.0025	0.198	mg/L	0.0025	1.25%
Al 237.312	164425.1	10.0	mg/L	0.06	10.0	mg/L	0.06	0.63%
As 188.979	9704.1	0.936	mg/L	0.0051	0.936	mg/L	0.0051	0.55%
Ba 230.424	2935213.3	8.41	mg/L	0.034	8.41	mg/L	0.034	0.41%
Be 234.861	1637408.8	0.968	mg/L	0.0024	0.968	mg/L	0.0024	0.25%
Ca 227.549	140917.9	113	mg/L	1.0	113	mg/L	1.0	0.87%
Cd 228.802	391249.5	0.922	mg/L	0.0068	0.922	mg/L	0.0068	0.74%
Co 228.616	169889.4	0.907	mg/L	0.0001	0.907	mg/L	0.0001	0.01%
Cr 267.716	309574.0	0.924	mg/L	0.0029	0.924	mg/L	0.0029	0.31%
Cu 327.396	527640.3	1.30	mg/L	0.015	1.30	mg/L	0.015	1.12%
Fe 261.387	16605.1	0.857	mg/L	0.0008	0.857	mg/L	0.0008	0.10%
Mg 279.079	997885.1	16.8	mg/L	0.11	16.8	mg/L	0.11	0.68%
Mn 257.610	1985187.6	0.927	mg/L	0.0008	0.927	mg/L	0.0008	0.08%
Mo 202.030	58273.5	0.887	mg/L	0.0014	0.887	mg/L	0.0014	0.16%
Ni 231.604	173436.5	0.884	mg/L	0.0001	0.884	mg/L	0.0001	0.01%
Pb 220.353	23579.6	0.936	mg/L	0.0050	0.936	mg/L	0.0050	0.53%
Sb 206.833	17470.2	0.928	mg/L	0.0007	0.928	mg/L	0.0007	0.07%
Se 196.026	8066.6	0.892	mg/L	0.0049	0.892	mg/L	0.0049	0.54%
Si 288.158	1908087.3	18.0	mg/L	0.05	18.0	mg/L	0.05	0.26%
Sn 189.933	13582.7	0.826	mg/L	0.0120	0.826	mg/L	0.0120	1.45%
Ti 337.280	1456664.7	0.969	mg/L	0.0040	0.969	mg/L	0.0040	0.42%
Tl 190.800	8864.7	0.696	mg/L	0.0132	0.696	mg/L	0.0132	1.89%
V 292.402	258399.4	0.941	mg/L	0.0049	0.941	mg/L	0.0049	0.52%
Zn 206.200	184733.5	0.940	mg/L	0.0015	0.940	mg/L	0.0015	0.16%
K 766.490	1090238.6	51.0	mg/L	1.23	51.0	mg/L	1.23	2.41%
Na 589.592	2561009.9	70.0	mg/L	0.96	70.0	mg/L	0.96	1.37%
Sr 407.771	1740958.6	1.08	mg/L	0.013	1.08	mg/L	0.013	1.25%
Sr 421.552	846438.1	1.09	mg/L	0.014	1.09	mg/L	0.014	1.26%
Sr 460.733	26160.7	1.16	mg/L	0.029	1.16	mg/L	0.029	2.47%

Duplicate Check: 0542902SD WG97746-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	51.2	51.0	1.232	mg/L	0.4
Na 589.592	70.2	70.0	0.955	mg/L	0.3
Sr 407.771	1.09	1.08	0.013	mg/L	0.8
Sr 421.552	1.09	1.09	0.014	mg/L	0.7
Sr 460.733	1.16	1.16	0.029	mg/L	0.2
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.196	0.198	0.002	mg/L	0.5
Al 237.312	9.96	10.0	0.063	mg/L	0.8
As 188.979	0.936	0.936	0.005	mg/L	0.0
Ba 230.424	8.38	8.41	0.034	mg/L	0.4
Be 234.861	0.963	0.968	0.002	mg/L	0.5
Ca 227.549	113	113	0.978	mg/L	0.1

Cd 228.802	0.916	0.922	0.007	mg/L	0.6
Co 228.616	0.901	0.907	0.000	mg/L	0.6
Cr 267.716	0.917	0.924	0.003	mg/L	0.8
Cu 327.396	1.29	1.30	0.015	mg/L	1.0
Fe 261.387	0.848	0.857	0.001	mg/L	1.1
Mg 279.079	16.8	16.8	0.115	mg/L	0.2
Mn 257.610	0.923	0.927	0.001	mg/L	0.4
Mo 202.030	0.873	0.887	0.001	mg/L	1.7
Ni 231.604	0.878	0.884	0.000	mg/L	0.7
Pb 220.353	0.935	0.936	0.005	mg/L	0.1
Sb 206.833	0.930	0.928	0.001	mg/L	0.2
Se 196.026	0.891	0.892	0.005	mg/L	0.2
Si 288.158	17.8	18.0	0.047	mg/L	1.2
Sn 189.933	0.823	0.826	0.012	mg/L	0.3
Ti 337.280	0.963	0.969	0.004	mg/L	0.6
Tl 190.800	0.670	0.696	0.013	mg/L	3.8
V 292.402	0.936	0.941	0.005	mg/L	0.6
Zn 206.200	0.941	0.940	0.001	mg/L	0.0

Sequence No.: 8 **Autosampler Location: 19**
Sample ID: 0542903 WG97746-02 **Date Collected: 5/24/2001 11:25:14 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0542903 WG97746-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3266703.5						34540.19	1.06%
Ag 328.068	792.9	0.00117	mg/L	0.000044	0.00117	mg/L	0.000044	3.80%
Al 237.312	290.4	0.0176	mg/L	0.00092	0.0176	mg/L	0.00092	5.22%
As 188.979	5.4	0.00053	mg/L	0.000274	0.00053	mg/L	0.000274	51.77%
Ba 230.424	21930.6	0.0633	mg/L	0.00016	0.0633	mg/L	0.00016	0.25%
Be 234.861	206.0	0.00007	mg/L	0.000008	0.00007	mg/L	0.000008	11.80%
Ca 227.549	131882.9	106	mg/L	0.4	106	mg/L	0.4	0.42%
Cd 228.802	175.5	0.00031	mg/L	0.000001	0.00031	mg/L	0.000001	0.24%
Co 228.616	70.8	0.00039	mg/L	0.000046	0.00039	mg/L	0.000046	11.72%
Cr 267.716	429.3	0.00127	mg/L	0.000026	0.00127	mg/L	0.000026	2.07%
Cu 327.396	157674.2	0.388	mg/L	0.0024	0.388	mg/L	0.0024	0.61%
Fe 261.387	17842.8	0.790	mg/L	0.0005	0.790	mg/L	0.0005	0.06%
Mg 279.079	468934.2	7.91	mg/L	0.097	7.91	mg/L	0.097	1.23%
Mn 257.610	19574.9	0.00894	mg/L	0.000002	0.00894	mg/L	0.000002	0.02%
Mo 202.030	346.2	0.00527	mg/L	0.000064	0.00527	mg/L	0.000064	1.21%
Ni 231.604	1457.1	0.00744	mg/L	0.000053	0.00744	mg/L	0.000053	0.72%
Pb 220.353	101.5	0.00405	mg/L	0.000306	0.00405	mg/L	0.000306	7.55%
Sb 206.833	20.7	0.00025	mg/L	0.000247	0.00025	mg/L	0.000247	100.00%
Se 196.026	47.1	0.00523	mg/L	0.000102	0.00523	mg/L	0.000102	1.96%
Si 288.158	971888.9	9.19	mg/L	0.086	9.19	mg/L	0.086	0.93%
Sn 189.933	-22.2	-0.00875	mg/L	0.000751	-0.00875	mg/L	0.000751	8.58%
Ti 337.280	45313.1	0.0337	mg/L	0.00027	0.0337	mg/L	0.00027	0.80%
Tl 190.800	482.3	0.0371	mg/L	0.00279	0.0371	mg/L	0.00279	7.50%
V 292.402	215.3	0.00083	mg/L	0.000047	0.00083	mg/L	0.000047	5.58%
Zn 206.200	6132.8	0.0311	mg/L	0.00022	0.0311	mg/L	0.00022	0.70%
K 766.490	46626.7	2.16	mg/L	0.037	2.16	mg/L	0.037	1.72%
Na 589.592	2360631.5	64.5	mg/L	1.25	64.5	mg/L	1.25	1.93%
Sr 407.771	267442.5	0.168	mg/L	0.0029	0.168	mg/L	0.0029	1.70%
Sr 421.552	127345.2	0.168	mg/L	0.0036	0.168	mg/L	0.0036	2.14%
Sr 460.733	3827.9	0.181	mg/L	0.0017	0.181	mg/L	0.0017	0.94%

Sequence No.: 9 **Autosampler Location: 20**
Sample ID: 0542903DP WG97746-07 **Date Collected: 5/24/2001 11:29:27 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0542903DP WG97746-07

	Mean Corrected	Calib		Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	3195353.8						36010.73	1.13%
Ag 328.068	1229.3	0.00181	mg/L	0.000075	0.00181	mg/L	0.000075	4.14%
Al 237.312	251.4	0.0150	mg/L	0.00029	0.0150	mg/L	0.00029	1.96%
As 188.979	5.6	0.00055	mg/L	0.000540	0.00055	mg/L	0.000540	98.82%
Ba 230.424	21607.1	0.0624	mg/L	0.00016	0.0624	mg/L	0.00016	0.25%
Be 234.861	184.7	0.00006	mg/L	0.000039	0.00006	mg/L	0.000039	63.28%
Ca 227.549	130769.3	105	mg/L	0.4	105	mg/L	0.4	0.41%
Cd 228.802	163.5	0.00029	mg/L	0.000021	0.00029	mg/L	0.000021	7.10%
Co 228.616	53.2	0.00033	mg/L	0.000036	0.00033	mg/L	0.000036	10.92%
Cr 267.716	473.3	0.00140	mg/L	0.000017	0.00140	mg/L	0.000017	1.24%
Cu 327.396	155854.3	0.384	mg/L	0.0028	0.384	mg/L	0.0028	0.73%
Fe 261.387	16746.3	0.742	mg/L	0.0018	0.742	mg/L	0.0018	0.24%
Mg 279.079	461530.5	7.79	mg/L	0.020	7.79	mg/L	0.020	0.26%
Mn 257.610	18779.5	0.00857	mg/L	0.000039	0.00857	mg/L	0.000039	0.45%
Mo 202.030	291.5	0.00444	mg/L	0.000108	0.00444	mg/L	0.000108	2.44%
Ni 231.604	1374.2	0.00702	mg/L	0.000107	0.00702	mg/L	0.000107	1.53%
Pb 220.353	96.7	0.00384	mg/L	0.000095	0.00384	mg/L	0.000095	2.47%
Sb 206.833	24.8	0.00051	mg/L	0.000457	0.00051	mg/L	0.000457	89.77%
Se 196.026	40.3	0.00447	mg/L	0.000239	0.00447	mg/L	0.000239	5.35%
Si 288.158	954268.4	9.02	mg/L	0.036	9.02	mg/L	0.036	0.39%
Sn 189.933	-59.4	-0.0110	mg/L	0.00007	-0.0110	mg/L	0.00007	0.63%
Ti 337.280	21543.0	0.0181	mg/L	0.00009	0.0181	mg/L	0.00009	0.51%
Tl 190.800	251.0	0.0194	mg/L	0.00076	0.0194	mg/L	0.00076	3.92%
V 292.402	215.4	0.00084	mg/L	0.000002	0.00084	mg/L	0.000002	0.23%
Zn 206.200	5587.1	0.0283	mg/L	0.00054	0.0283	mg/L	0.00054	1.92%
K 766.490	45950.5	2.13	mg/L	0.019	2.13	mg/L	0.019	0.91%
Na 589.592	2300176.7	62.8	mg/L	0.95	62.8	mg/L	0.95	1.51%
Sr 407.771	261501.0	0.165	mg/L	0.0026	0.165	mg/L	0.0026	1.58%
Sr 421.552	126166.5	0.166	mg/L	0.0019	0.166	mg/L	0.0019	1.13%
Sr 460.733	3825.9	0.181	mg/L	0.0017	0.181	mg/L	0.0017	0.94%

Duplicate Check: 0542903DP WG97746-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	2.16	2.13	0.019	mg/L	1.5
Na 589.592	64.5	62.8	0.950	mg/L	2.6
Sr 407.771	0.168	0.165	0.003	mg/L	2.2
Sr 421.552	0.168	0.166	0.002	mg/L	0.9
Sr 460.733	0.181	0.181	0.002	mg/L	0.0
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00117	0.00181	0.000	mg/L	43.2
Al 237.312	0.0176	0.0150	0.000	mg/L	16.0
As 188.979	0.00053	0.00055	0.001	mg/L	3.1
Ba 230.424	0.0633	0.0624	0.000	mg/L	1.5
Be 234.861	0.00007	0.00006	0.000	mg/L	14.4
Ca 227.549	106	105	0.426	mg/L	0.8
Cd 228.802	0.00031	0.00029	0.000	mg/L	7.5
Co 228.616	0.00039	0.00033	0.000	mg/L	17.0
Cr 267.716	0.00127	0.00140	0.000	mg/L	9.6
Cu 327.396	0.388	0.384	0.003	mg/L	1.2
Fe 261.387	0.790	0.742	0.002	mg/L	6.3
Mg 279.079	7.91	7.79	0.020	mg/L	1.6
Mn 257.610	0.00894	0.00857	0.000	mg/L	4.2
Mo 202.030	0.00527	0.00444	0.000	mg/L	17.2
Ni 231.604	0.00744	0.00702	0.000	mg/L	5.9
Pb 220.353	0.00405	0.00384	0.000	mg/L	5.2
Sb 206.833	0.00025	0.00051	0.000	mg/L	69.5
Se 196.026	0.00523	0.00447	0.000	mg/L	15.7
Si 288.158	9.19	9.02	0.036	mg/L	1.8
Sn 189.933	-0.00875	-0.0110	0.000	mg/L	-22.5
Ti 337.280	0.0337	0.0181	0.000	mg/L	59.9
Tl 190.800	0.0371	0.0194	0.001	mg/L	62.7
V 292.402	0.00083	0.00084	0.000	mg/L	0.5
Zn 206.200	0.0311	0.0283	0.001	mg/L	9.3

Sequence No.: 10
Sample ID: 0542904
Analyst:

Autosampler Location: 21
Date Collected: 5/24/2001 11:33:41 AM

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: 0542904

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3072602.0						30543.74	0.99%
Ag 328.068	1164.5	0.00171	mg/L	0.000030	0.00171	mg/L	0.000030	1.74%
Al 237.312	-14.7	-0.0270	mg/L	0.00169	-0.0270	mg/L	0.00169	6.24%
As 188.979	173.4	0.0166	mg/L	0.00012	0.0166	mg/L	0.00012	0.70%
Ba 230.424	8088.7	0.0283	mg/L	0.00013	0.0283	mg/L	0.00013	0.45%
Be 234.861	115.9	0.00007	mg/L	0.000003	0.00007	mg/L	0.000003	4.43%
Ca 227.549	118029.2	94.4	mg/L	1.07	94.4	mg/L	1.07	1.13%
Cd 228.802	222.5	-0.00097	mg/L	0.000004	-0.00097	mg/L	0.000004	0.36%
Co 228.616	2143.0	0.00069	mg/L	0.000085	0.00069	mg/L	0.000085	12.34%
Cr 267.716	528.6	0.00154	mg/L	0.000003	0.00154	mg/L	0.000003	0.22%
Cu 327.396	3903.7	0.00821	mg/L	0.000052	0.00821	mg/L	0.000052	0.64%
Fe 261.387	706.3	0.0330	mg/L	0.00103	0.0330	mg/L	0.00103	3.13%
Mg 279.079	453780.0	7.63	mg/L	0.022	7.63	mg/L	0.022	0.29%
Mn 257.610	41378.5	0.0188	mg/L	0.00035	0.0188	mg/L	0.00035	1.84%
Mo 202.030	114.9	0.00175	mg/L	0.000104	0.00175	mg/L	0.000104	5.92%
Ni 231.604	346.9	0.00252	mg/L	0.000035	0.00252	mg/L	0.000035	1.37%
Pb 220.353	82.4	0.00660	mg/L	0.000008	0.00660	mg/L	0.000008	0.13%
Sb 206.833	232.8	0.00164	mg/L	0.000063	0.00164	mg/L	0.000063	3.85%
Se 196.026	28.9	0.00415	mg/L	0.000066	0.00415	mg/L	0.000066	1.58%
Si 288.158	685988.0	6.50	mg/L	0.026	6.50	mg/L	0.026	0.39%
Sn 189.933	-394.5	-0.0309	mg/L	0.00091	-0.0309	mg/L	0.00091	2.96%
Ti 337.280	7208859.3	4.70	mg/L	0.002	4.70	mg/L	0.002	0.04%
Tl 190.800	-102.4	0.0291	mg/L	0.00045	0.0291	mg/L	0.00045	1.55%
V 292.402	283.3	-0.00131	mg/L	0.000017	-0.00131	mg/L	0.000017	1.29%
Zn 206.200	1977.9	0.00998	mg/L	0.000104	0.00998	mg/L	0.000104	1.05%
K 766.490	38425.5	1.78	mg/L	0.043	1.78	mg/L	0.043	2.44%
Na 589.592	804872.4	22.0	mg/L	0.34	22.0	mg/L	0.34	1.55%
Sr 407.771	183485.7	0.116	mg/L	0.0016	0.116	mg/L	0.0016	1.39%
Sr 421.552	86444.0	0.115	mg/L	0.0026	0.115	mg/L	0.0026	2.27%
Sr 460.733	2572.1	0.123	mg/L	0.0022	0.123	mg/L	0.0022	1.76%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/24/2001 11:38:01 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3285845.3						24249.85	0.74%
Ag 328.068	255317.5	0.376	mg/L	0.0024	0.376	mg/L	0.0024	0.65%
QC value within limits for Ag 328.068 Recovery = 93.93%								
Al 237.312	157401.6	9.63	mg/L	0.083	9.63	mg/L	0.083	0.86%
QC value within limits for Al 237.312 Recovery = 96.34%								
As 188.979	3812.3	0.369	mg/L	0.0048	0.369	mg/L	0.0048	1.29%
QC value within limits for As 188.979 Recovery = 92.21%								
Ba 230.424	347428.7	0.997	mg/L	0.0138	0.997	mg/L	0.0138	1.39%
QC value within limits for Ba 230.424 Recovery = 99.68%								
Be 234.861	85267.6	0.0502	mg/L	0.00049	0.0502	mg/L	0.00049	0.97%
QC value within limits for Be 234.861 Recovery = 100.32%								
Ca 227.549	12508.8	9.89	mg/L	0.052	9.89	mg/L	0.052	0.53%
QC value within limits for Ca 227.549 Recovery = 98.90%								
Cd 228.802	20480.9	0.0477	mg/L	0.00044	0.0477	mg/L	0.00044	0.92%
QC value within limits for Cd 228.802 Recovery = 95.36%								
Co 228.616	37966.8	0.203	mg/L	0.0026	0.203	mg/L	0.0026	1.26%
QC value within limits for Co 228.616 Recovery = 101.39%								
Cr 267.716	167142.2	0.502	mg/L	0.0069	0.502	mg/L	0.0069	1.37%
QC value within limits for Cr 267.716 Recovery = 100.48%								
Cu 327.396	201578.4	0.496	mg/L	0.0020	0.496	mg/L	0.0020	0.41%
QC value within limits for Cu 327.396 Recovery = 99.27%								
Fe 261.387	90565.9	4.05	mg/L	0.058	4.05	mg/L	0.058	1.43%

	QC value within limits for Fe 261.387 Recovery = 101.22%						
Mg	279.079	567979.2	9.58 mg/L	0.166	9.58 mg/L	0.166	1.73%
	QC value within limits for Mg 279.079 Recovery = 95.83%						
Mn	257.610	1060820.4	0.495 mg/L	0.0062	0.495 mg/L	0.0062	1.25%
	QC value within limits for Mn 257.610 Recovery = 99.04%						
Mo	202.030	63997.5	0.974 mg/L	0.0162	0.974 mg/L	0.0162	1.66%
	QC value within limits for Mo 202.030 Recovery = 97.94%						
Ni	231.604	98463.2	0.502 mg/L	0.0087	0.502 mg/L	0.0087	1.73%
	QC value within limits for Ni 231.604 Recovery = 100.43%						
Pb	220.353	12106.4	0.483 mg/L	0.0051	0.483 mg/L	0.0051	1.05%
	QC value within limits for Pb 220.353 Recovery = 96.55%						
Sb	206.833	20885.2	1.12 mg/L	0.010	1.12 mg/L	0.010	0.86%
	QC value within limits for Sb 206.833 Recovery = 93.38%						
Se	196.026	3505.6	0.386 mg/L	0.0039	0.386 mg/L	0.0039	1.00%
	QC value within limits for Se 196.026 Recovery = 96.59%						
Si	288.158	2916.1	0.0358 mg/L	0.00010	0.0358 mg/L	0.00010	0.27%
	QC value less than the lower limit for Si 288.158 Recovery = 0.72%						
Sn	189.933	14100.2	0.865 mg/L	0.0269	0.865 mg/L	0.0269	3.11%
	QC value less than the lower limit for Sn 189.933 Recovery = 86.61%						
Ti	337.280	1475281.8	0.973 mg/L	0.0106	0.973 mg/L	0.0106	1.09%
	QC value within limits for Ti 337.280 Recovery = 97.32%						
Tl	190.800	6430.9	0.500 mg/L	0.0135	0.500 mg/L	0.0135	2.69%
	QC value within limits for Tl 190.800 Recovery = 100.07%						
V	292.402	272110.0	0.992 mg/L	0.0111	0.992 mg/L	0.0111	1.12%
	QC value within limits for V 292.402 Recovery = 99.16%						
Zn	206.200	187038.2	0.951 mg/L	0.0223	0.951 mg/L	0.0223	2.34%
	QC value within limits for Zn 206.200 Recovery = 95.14%						
K	766.490	1020259.8	47.8 mg/L	0.60	47.8 mg/L	0.60	1.25%
	QC value within limits for K 766.490 Recovery = 95.51%						
Na	589.592	1754651.5	47.9 mg/L	0.45	47.9 mg/L	0.45	0.94%
	QC value within limits for Na 589.592 Recovery = 95.88%						
Sr	407.771	1494984.6	0.928 mg/L	0.0071	0.928 mg/L	0.0071	0.76%
	QC value within limits for Sr 407.771 Recovery = 92.78%						
Sr	421.552	724362.8	0.930 mg/L	0.0071	0.930 mg/L	0.0071	0.77%
	QC value within limits for Sr 421.552 Recovery = 93.05%						
Sr	460.733	21533.1	0.962 mg/L	0.0081	0.962 mg/L	0.0081	0.84%
	QC value within limits for Sr 460.733 Recovery = 96.16%						

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/24/2001 11:42:17 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2838775.3						24939.90	0.88%
Ag 328.068	-59.6	-0.00009	mg/L	0.000075	-0.00009	mg/L	0.000075	85.31%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-11.9	-0.00070	mg/L	0.000053	-0.00070	mg/L	0.000053	7.57%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	7.0	0.00067	mg/L	0.000055	0.00067	mg/L	0.000055	8.26%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-12.8	-0.00004	mg/L	0.000011	-0.00004	mg/L	0.000011	29.11%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	15.9	0.00001	mg/L	0.000004	0.00001	mg/L	0.000004	43.90%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	8.2	0.00652	mg/L	0.007709	0.00652	mg/L	0.007709	118.31%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-2.3	-0.00001	mg/L	0.000018	-0.00001	mg/L	0.000018	338.76%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	18.4	0.00010	mg/L	0.000020	0.00010	mg/L	0.000020	20.10%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	54.5	0.00016	mg/L	0.000003	0.00016	mg/L	0.000003	1.55%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-36.4	-0.00009	mg/L	0.000102	-0.00009	mg/L	0.000102	113.90%
QC value within limits for Cu 327.396 Recovery = Not calculated								

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Fe 261.387	81.4	0.00361 mg/L	0.000055	0.00361 mg/L	0.000055	1.53%
QC value within limits for Fe 261.387 Recovery = Not calculated						
Mg 279.079	-28.8	-0.00049 mg/L	0.000025	-0.00049 mg/L	0.000025	5.18%
QC value within limits for Mg 279.079 Recovery = Not calculated						
Mn 257.610	21.5	0.00001 mg/L	0.000001	0.00001 mg/L	0.000001	8.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	97.7	0.00149 mg/L	0.000116	0.00149 mg/L	0.000116	7.78%
QC value within limits for Mo 202.030 Recovery = Not calculated						
Ni 231.604	9.0	0.00005 mg/L	0.000033	0.00005 mg/L	0.000033	72.30%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	-0.1	0.00000 mg/L	0.000200	0.00000 mg/L	0.000200	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-3.0	-0.00017 mg/L	0.000570	-0.00017 mg/L	0.000570	345.50%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	23.1	0.00256 mg/L	0.000524	0.00256 mg/L	0.000524	20.44%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	345.5	0.00325 mg/L	0.000144	0.00325 mg/L	0.000144	4.43%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	55.5	0.00341 mg/L	0.000347	0.00341 mg/L	0.000347	10.16%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	101.3	0.00007 mg/L	0.000054	0.00007 mg/L	0.000054	71.97%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	18.8	0.00143 mg/L	0.001149	0.00143 mg/L	0.001149	80.25%
QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	36.1	0.00013 mg/L	0.000004	0.00013 mg/L	0.000004	2.69%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	37.7	0.00019 mg/L	0.000011	0.00019 mg/L	0.000011	5.51%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	221.8	0.0104 mg/L	0.00081	0.0104 mg/L	0.00081	7.76%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	-1264.4	-0.0345 mg/L	0.00032	-0.0345 mg/L	0.00032	0.93%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	-42.1	0.00271 mg/L	0.000020	0.00271 mg/L	0.000020	0.75%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552	-35.9	0.00488 mg/L	0.000024	0.00488 mg/L	0.000024	0.50%
Sample signal is less than that of the lowest standard.						
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 460.733	80.2	0.00814 mg/L	0.003913	0.00814 mg/L	0.003913	48.05%
QC value within limits for Sr 460.733 Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 13
Sample ID: 0524901
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 5/24/2001 11:46:27 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524901

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2999878.1						31577.72	1.05%
Ag 328.068	966.5	0.00142	mg/L	0.000013	0.00142	mg/L	0.000013	0.90%
Al 237.312	784.3	0.0410	mg/L	0.00128	0.0410	mg/L	0.00128	3.13%
As 188.979	-1.6	-0.00015	mg/L	0.000395	-0.00015	mg/L	0.000395	260.89%
Ba 230.424	10756.8	0.0313	mg/L	0.00003	0.0313	mg/L	0.00003	0.10%
Be 234.861	128.6	0.00007	mg/L	0.000000	0.00007	mg/L	0.000000	0.31%
Ca 227.549	132244.6	106	mg/L	1.9	106	mg/L	1.9	1.75%
Cd 228.802	123.2	0.00018	mg/L	0.000021	0.00018	mg/L	0.000021	11.99%
Co 228.616	31.9	0.00025	mg/L	0.000028	0.00025	mg/L	0.000028	11.32%
Cr 267.716	188.5	0.00038	mg/L	0.000067	0.00038	mg/L	0.000067	17.94%
Cu 327.396	386.9	0.00095	mg/L	0.000000	0.00095	mg/L	0.000000	0.03%
Fe 261.387	2028.5	0.0901	mg/L	0.00236	0.0901	mg/L	0.00236	2.62%
Mg 279.079	2237983.1	37.8	mg/L	0.57	37.8	mg/L	0.57	1.52%
Mn 257.610	20228.4	0.00866	mg/L	0.000150	0.00866	mg/L	0.000150	1.73%
Mo 202.030	91.1	0.00139	mg/L	0.000004	0.00139	mg/L	0.000004	0.29%
Ni 231.604	153.2	0.00078	mg/L	0.000123	0.00078	mg/L	0.000123	15.78%
Pb 220.353	73.1	0.00290	mg/L	0.000074	0.00290	mg/L	0.000074	2.56%
Sb 206.833	22.6	0.00019	mg/L	0.000328	0.00019	mg/L	0.000328	173.21%
Se 196.026	36.5	0.00404	mg/L	0.001299	0.00404	mg/L	0.001299	32.19%

Si 288.158	471787.9	4.49 mg/L	0.042	4.49 mg/L	0.042	0.93%
Sn 189.933	-68.1	-0.0116 mg/L	0.00009	-0.0116 mg/L	0.00009	0.81%
Ti 337.280	413.8	0.00366 mg/L	0.000122	0.00366 mg/L	0.000122	3.35%
Tl 190.800	74.2	0.00575 mg/L	0.000163	0.00575 mg/L	0.000163	2.84%
V 292.402	94.1	0.00035 mg/L	0.000033	0.00035 mg/L	0.000033	9.51%
Zn 206.200	1320.7	0.00633 mg/L	0.000028	0.00633 mg/L	0.000028	0.45%
K 766.490	67124.9	3.03 mg/L	0.011	3.03 mg/L	0.011	0.36%
Na 589.592	4191439.0	115 mg/L	1.3	115 mg/L	1.3	1.14%
Sr 407.771	1828144.6	1.13 mg/L	0.010	1.13 mg/L	0.010	0.92%
Sr 421.552	890223.8	1.14 mg/L	0.013	1.14 mg/L	0.013	1.17%
Sr 460.733	27176.7	1.20 mg/L	0.002	1.20 mg/L	0.002	0.16%

Sequence No.: 14
Sample ID: 0524902
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 5/24/2001 11:50:45 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524902

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3181159.9						52242.28	1.64%
Ag 328.068	1449.9	0.00213	mg/L	0.000297	0.00213	mg/L	0.000297	13.90%
Al 237.312	706.2	0.0392	mg/L	0.00251	0.0392	mg/L	0.00251	6.40%
As 188.979	-16.4	-0.00156	mg/L	0.000067	-0.00156	mg/L	0.000067	4.28%
Ba 230.424	321558.7	0.922	mg/L	0.0193	0.922	mg/L	0.0193	2.09%
Be 234.861	279.3	0.00009	mg/L	0.000012	0.00009	mg/L	0.000012	13.51%
Ca 227.549	237246.6	190	mg/L	2.4	190	mg/L	2.4	1.24%
Cd 228.802	94.6	0.00004	mg/L	0.000006	0.00004	mg/L	0.000006	15.74%
Co 228.616	-96.0	-0.00037	mg/L	0.000008	-0.00037	mg/L	0.000008	2.21%
Cr 267.716	171.6	0.00035	mg/L	0.000027	0.00035	mg/L	0.000027	7.90%
Cu 327.396	316.0	0.00078	mg/L	0.000112	0.00078	mg/L	0.000112	14.38%
Fe 261.387	25128.3	1.11	mg/L	0.024	1.11	mg/L	0.024	2.11%
Mg 279.079	2490774.1	42.1	mg/L	1.00	42.1	mg/L	1.00	2.37%
Mn 257.610	72512.4	0.0330	mg/L	0.00062	0.0330	mg/L	0.00062	1.87%
Mo 202.030	81.8	0.00125	mg/L	0.000040	0.00125	mg/L	0.000040	3.23%
Ni 231.604	371.6	0.00191	mg/L	0.000016	0.00191	mg/L	0.000016	0.83%
Pb 220.353	111.8	0.00443	mg/L	0.000018	0.00443	mg/L	0.000018	0.41%
Sb 206.833	18.4	-0.00069	mg/L	0.000028	-0.00069	mg/L	0.000028	4.08%
Se 196.026	21.1	0.00233	mg/L	0.000570	0.00233	mg/L	0.000570	24.45%
Si 288.158	622428.1	5.95	mg/L	0.110	5.95	mg/L	0.110	1.85%
Sn 189.933	-129.4	-0.0213	mg/L	0.00034	-0.0213	mg/L	0.00034	1.62%
Ti 337.280	-71.2	0.00675	mg/L	0.000026	0.00675	mg/L	0.000026	0.38%
Tl 190.800	36.7	0.00378	mg/L	0.000544	0.00378	mg/L	0.000544	14.41%
V 292.402	41.5	0.00024	mg/L	0.000050	0.00024	mg/L	0.000050	20.75%
Zn 206.200	808.1	0.00361	mg/L	0.000036	0.00361	mg/L	0.000036	1.00%
K 766.490	340015.9	15.8	mg/L	0.45	15.8	mg/L	0.45	2.82%
Na 589.592	1365704.9	37.3	mg/L	1.12	37.3	mg/L	1.12	3.00%
Sr 407.771	6761370.5	4.19	mg/L	0.032	4.19	mg/L	0.032	0.77%
Sr 421.552	3316011.1	4.24	mg/L	0.034	4.24	mg/L	0.034	0.80%
Sr 460.733	104586.8	4.09	mg/L	0.093	4.09	mg/L	0.093	2.28%

Sequence No.: 15
Sample ID: 0524903
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 5/24/2001 11:55:02 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524903

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3209756.5						6919.54	0.22%
Ag 328.068	276.0	0.00041	mg/L	0.000051	0.00041	mg/L	0.000051	12.68%
Al 237.312	1397.5	0.0855	mg/L	0.00091	0.0855	mg/L	0.00091	1.06%
As 188.979	5.8	0.00056	mg/L	0.000335	0.00056	mg/L	0.000335	59.84%
Ba 230.424	40594.7	0.116	mg/L	0.0018	0.116	mg/L	0.0018	1.53%
Be 234.861	96.8	0.00005	mg/L	0.000013	0.00005	mg/L	0.000013	26.50%

Method: SB

Ca 227.549	14418.2	11.5 mg/L	0.19	11.5 mg/L	0.19	1.64%
Cd 228.802	13.9	0.00002 mg/L	0.000017	0.00002 mg/L	0.000017	81.24%
Co 228.616	24.7	0.00015 mg/L	0.000014	0.00015 mg/L	0.000014	9.57%
Cr 267.716	211.4	0.00062 mg/L	0.000106	0.00062 mg/L	0.000106	17.07%
Cu 327.396	427.7	0.00105 mg/L	0.000013	0.00105 mg/L	0.000013	1.25%
Fe 261.387	3055.6	0.136 mg/L	0.0009	0.136 mg/L	0.0009	0.70%
Mg 279.079	192852.4	3.26 mg/L	0.044	3.26 mg/L	0.044	1.34%
Mn 257.610	35755.6	0.0166 mg/L	0.00024	0.0166 mg/L	0.00024	1.47%
Mo 202.030	198.1	0.00302 mg/L	0.000122	0.00302 mg/L	0.000122	4.05%
Ni 231.604	107.5	0.00055 mg/L	0.000056	0.00055 mg/L	0.000056	10.11%
Pb 220.353	35.2	0.00141 mg/L	0.000069	0.00141 mg/L	0.000069	4.93%
Sb 206.833	41.2	0.00210 mg/L	0.000228	0.00210 mg/L	0.000228	10.89%
Se 196.026	6.0	0.00065 mg/L	0.000635	0.00065 mg/L	0.000635	97.52%
Si 288.158	276587.8	2.61 mg/L	0.008	2.61 mg/L	0.008	0.31%
Sn 189.933	-20.0	-0.00205 mg/L	0.000299	-0.00205 mg/L	0.000299	14.57%
Ti 337.280	1078.2	0.00119 mg/L	0.000004	0.00119 mg/L	0.000004	0.32%
Tl 190.800	80.0	0.00631 mg/L	0.000545	0.00631 mg/L	0.000545	8.62%
V 292.402	139.2	0.00052 mg/L	0.000052	0.00052 mg/L	0.000052	10.02%
Zn 206.200	964.8	0.00486 mg/L	0.000047	0.00486 mg/L	0.000047	0.96%
K 766.490	71250.6	3.33 mg/L	0.011	3.33 mg/L	0.011	0.32%
Na 589.592	8206238.1	224 mg/L	0.3	224 mg/L	0.3	0.12%
Sr 407.771	884502.7	0.550 mg/L	0.0010	0.550 mg/L	0.0010	0.17%
Sr 421.552	428942.6	0.553 mg/L	0.0013	0.553 mg/L	0.0013	0.23%
Sr 460.733	13115.0	0.597 mg/L	0.0016	0.597 mg/L	0.0016	0.27%

Sequence No.: 16
Sample ID: 0524904
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 5/24/2001 11:59:21 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524904

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3267054.7						5180.48	0.16%
Ag 328.068	361.1	0.00053	mg/L	0.000066	0.00053	mg/L	0.000066	12.39%
Al 237.312	-111.5	-0.00821	mg/L	0.001716	-0.00821	mg/L	0.001716	20.89%
As 188.979	8.8	0.00085	mg/L	0.000377	0.00085	mg/L	0.000377	44.40%
Ba 230.424	41993.7	0.120	mg/L	0.0020	0.120	mg/L	0.0020	1.66%
Be 234.861	106.8	0.00006	mg/L	0.000001	0.00006	mg/L	0.000001	2.03%
Ca 227.549	33620.6	26.9	mg/L	0.47	26.9	mg/L	0.47	1.74%
Cd 228.802	10.4	-0.00001	mg/L	0.000014	-0.00001	mg/L	0.000014	177.27%
Co 228.616	45.3	0.00027	mg/L	0.000018	0.00027	mg/L	0.000018	6.67%
Cr 267.716	168.1	0.00044	mg/L	0.000052	0.00044	mg/L	0.000052	11.85%
Cu 327.396	249.8	0.00062	mg/L	0.000042	0.00062	mg/L	0.000042	6.89%
Fe 261.387	2335.7	0.105	mg/L	0.0006	0.105	mg/L	0.0006	0.59%
Mg 279.079	803759.5	13.6	mg/L	0.22	13.6	mg/L	0.22	1.65%
Mn 257.610	118416.9	0.0551	mg/L	0.00101	0.0551	mg/L	0.00101	1.83%
Mo 202.030	75.3	0.00115	mg/L	0.000011	0.00115	mg/L	0.000011	0.96%
Ni 231.604	119.3	0.00061	mg/L	0.000022	0.00061	mg/L	0.000022	3.55%
Pb 220.353	33.8	0.00134	mg/L	0.000222	0.00134	mg/L	0.000222	16.58%
Sb 206.833	8.2	0.00011	mg/L	0.000466	0.00011	mg/L	0.000466	418.07%
Se 196.026	12.2	0.00135	mg/L	0.000544	0.00135	mg/L	0.000544	40.36%
Si 288.158	471686.8	4.45	mg/L	0.051	4.45	mg/L	0.051	1.15%
Sn 189.933	-48.0	-0.00484	mg/L	0.000412	-0.00484	mg/L	0.000412	8.51%
Ti 337.280	95.4	0.00109	mg/L	0.000022	0.00109	mg/L	0.000022	2.05%
Tl 190.800	50.2	0.00437	mg/L	0.000628	0.00437	mg/L	0.000628	14.37%
V 292.402	68.3	0.00026	mg/L	0.000002	0.00026	mg/L	0.000002	0.87%
Zn 206.200	3115.8	0.0157	mg/L	0.00009	0.0157	mg/L	0.00009	0.58%
K 766.490	82725.5	3.83	mg/L	0.027	3.83	mg/L	0.027	0.71%
Na 589.592	3927715.7	107	mg/L	1.1	107	mg/L	1.1	0.99%
Sr 407.771	2155002.4	1.34	mg/L	0.011	1.34	mg/L	0.011	0.85%
Sr 421.552	1022267.2	1.31	mg/L	0.003	1.31	mg/L	0.003	0.25%
Sr 460.733	31292.6	1.37	mg/L	0.005	1.37	mg/L	0.005	0.40%

Sequence No.: 17
Sample ID: 0524905
Analyst:

Autosampler Location: 26
Date Collected: 5/24/2001 12:03:41 PM

Method: SB

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: 0524905

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3287998.1						35840.57	1.09%
Ag 328.068	473.2	0.00070	mg/L	0.000064	0.00070	mg/L	0.000064	9.12%
Al 237.312	16872.9	1.03	mg/L	0.003	1.03	mg/L	0.003	0.25%
As 188.979	63.9	0.00612	mg/L	0.000031	0.00612	mg/L	0.000031	0.50%
Ba 230.424	8331.1	0.0239	mg/L	0.00032	0.0239	mg/L	0.00032	1.35%
Be 234.861	222.0	0.00008	mg/L	0.000004	0.00008	mg/L	0.000004	4.59%
Ca 227.549	1957.6	1.55	mg/L	0.009	1.55	mg/L	0.009	0.61%
Cd 228.802	21.3	0.00005	mg/L	0.000003	0.00005	mg/L	0.000003	5.70%
Co 228.616	78.9	0.00044	mg/L	0.000042	0.00044	mg/L	0.000042	9.65%
Cr 267.716	633.9	0.00192	mg/L	0.000066	0.00192	mg/L	0.000066	3.42%
Cu 327.396	780.9	0.00192	mg/L	0.000119	0.00192	mg/L	0.000119	6.19%
Fe 261.387	13890.2	0.616	mg/L	0.0053	0.616	mg/L	0.0053	0.86%
Mg 279.079	31843.9	0.538	mg/L	0.0023	0.538	mg/L	0.0023	0.42%
Mn 257.610	45725.9	0.0214	mg/L	0.00001	0.0214	mg/L	0.00001	0.04%
Mo 202.030	330.5	0.00503	mg/L	0.000236	0.00503	mg/L	0.000236	4.69%
Ni 231.604	225.9	0.00116	mg/L	0.000013	0.00116	mg/L	0.000013	1.09%
Pb 220.353	40.7	0.00173	mg/L	0.000194	0.00173	mg/L	0.000194	11.22%
Sb 206.833	58.8	0.00295	mg/L	0.000073	0.00295	mg/L	0.000073	2.46%
Se 196.026	25.5	0.00264	mg/L	0.001076	0.00264	mg/L	0.001076	40.74%
Si 288.158	487821.4	4.59	mg/L	0.063	4.59	mg/L	0.063	1.38%
Sn 189.933	13.7	0.00056	mg/L	0.000112	0.00056	mg/L	0.000112	20.19%
Ti 337.280	7734.4	0.00529	mg/L	0.000017	0.00529	mg/L	0.000017	0.33%
Tl 190.800	82.8	0.00652	mg/L	0.000723	0.00652	mg/L	0.000723	11.09%
V 292.402	677.9	0.00250	mg/L	0.000139	0.00250	mg/L	0.000139	5.55%
Zn 206.200	1431.6	0.00720	mg/L	0.000207	0.00720	mg/L	0.000207	2.88%
K 766.490	60064.3	2.81	mg/L	0.049	2.81	mg/L	0.049	1.74%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	128731.5	0.0824	mg/L	0.00148	0.0824	mg/L	0.00148	1.79%
Sr 421.552	62322.4	0.0846	mg/L	0.00150	0.0846	mg/L	0.00150	1.77%
Sr 460.733	1819.8	0.0886	mg/L	0.00068	0.0886	mg/L	0.00068	0.76%

Sequence No.: 18
Sample ID: 0524906
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 5/24/2001 12:07:55 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524906

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3196365.9						2608.66	0.08%
Ag 328.068	2493.8	0.00367	mg/L	0.000009	0.00367	mg/L	0.000009	0.23%
Al 237.312	168.1	0.0173	mg/L	0.00012	0.0173	mg/L	0.00012	0.72%
As 188.979	-5.3	-0.00047	mg/L	0.000169	-0.00047	mg/L	0.000169	35.83%
Ba 230.424	11588.1	0.0342	mg/L	0.00036	0.0342	mg/L	0.00036	1.06%
Be 234.861	640.1	0.00015	mg/L	0.000007	0.00015	mg/L	0.000007	4.69%
Ca 227.549	307786.5	246	mg/L	0.1	246	mg/L	0.1	0.06%
Cd 228.802	10.8	-0.00026	mg/L	0.000153	-0.00026	mg/L	0.000153	59.21%
Co 228.616	11830.6	0.0634	mg/L	0.00056	0.0634	mg/L	0.00056	0.88%
Cr 267.716	913.4	0.00229	mg/L	0.000041	0.00229	mg/L	0.000041	1.80%
Cu 327.396	372.1	0.00092	mg/L	0.000212	0.00092	mg/L	0.000212	23.15%
Fe 261.387	80991.0	3.70	mg/L	0.018	3.70	mg/L	0.018	0.47%
Mg 279.079	6716867.2	113	mg/L	1.8	113	mg/L	1.8	1.63%
Mn 257.610	7675427.8	3.59	mg/L	0.046	3.59	mg/L	0.046	1.29%
Mo 202.030	69.1	0.00105	mg/L	0.000153	0.00105	mg/L	0.000153	14.56%
Ni 231.604	20358.9	0.104	mg/L	0.0013	0.104	mg/L	0.0013	1.23%
Pb 220.353	148.0	0.00585	mg/L	0.000097	0.00585	mg/L	0.000097	1.66%
Sb 206.833	29.1	-0.00277	mg/L	0.000523	-0.00277	mg/L	0.000523	18.87%
Se 196.026	48.8	0.00541	mg/L	0.000828	0.00541	mg/L	0.000828	15.31%
Si 288.158	800742.2	7.65	mg/L	0.021	7.65	mg/L	0.021	0.28%
Sn 189.933	-146.5	-0.0262	mg/L	0.00041	-0.0262	mg/L	0.00041	1.54%

Ti 337.280	-158.1	0.0241 mg/L	0.00006	0.0241 mg/L	0.00006	0.27%
Tl 190.800	29.5	0.0325 mg/L	0.00046	0.0325 mg/L	0.00046	1.42%
V 292.402	-228.8	-0.00055 mg/L	0.000024	-0.00055 mg/L	0.000024	4.44%
Zn 206.200	1516.3	0.00633 mg/L	0.000205	0.00633 mg/L	0.000205	3.23%
K 766.490	76272.0	3.23 mg/L	0.008	3.23 mg/L	0.008	0.25%
Na 589.592	912255.2	24.9 mg/L	0.19	24.9 mg/L	0.19	0.78%
Sr 407.771	5482915.4	3.40 mg/L	0.049	3.40 mg/L	0.049	1.44%
Sr 421.552	2696804.4	3.45 mg/L	0.053	3.45 mg/L	0.053	1.53%
Sr 460.733	85292.1	3.42 mg/L	0.006	3.42 mg/L	0.006	0.17%

Sequence No.: 19
Sample ID: 0524907
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 5/24/2001 12:12:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524907

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3207201.4						49664.10	1.55%
Ag 328.068	1286.1	0.00189	mg/L	0.000008	0.00189	mg/L	0.000008	0.41%
Al 237.312	303.2	0.00575	mg/L	0.001192	0.00575	mg/L	0.001192	20.74%
As 188.979	-17.3	-0.00165	mg/L	0.000713	-0.00165	mg/L	0.000713	43.29%
Ba 230.424	6188.6	0.0184	mg/L	0.00022	0.0184	mg/L	0.00022	1.18%
Be 234.861	176.4	0.00010	mg/L	0.000001	0.00010	mg/L	0.000001	0.87%
Ca 227.549	200742.3	161	mg/L	1.2	161	mg/L	1.2	0.76%
Cd 228.802	3.5	-0.00019	mg/L	0.000017	-0.00019	mg/L	0.000017	8.57%
Co 228.616	55.6	0.00043	mg/L	0.000043	0.00043	mg/L	0.000043	10.12%
Cr 267.716	118.6	-0.00009	mg/L	0.000027	-0.00009	mg/L	0.000027	28.91%
Cu 327.396	301.6	0.00074	mg/L	0.000126	0.00074	mg/L	0.000126	16.94%
Fe 261.387	2150.7	0.0954	mg/L	0.00029	0.0954	mg/L	0.00029	0.31%
Mg 279.079	5355809.4	90.5	mg/L	2.53	90.5	mg/L	2.53	2.80%
Mn 257.610	6670.2	0.00124	mg/L	0.000008	0.00124	mg/L	0.000008	0.68%
Mo 202.030	72.2	0.00110	mg/L	0.000054	0.00110	mg/L	0.000054	4.91%
Ni 231.604	522.1	0.00266	mg/L	0.000123	0.00266	mg/L	0.000123	4.62%
Pb 220.353	90.1	0.00356	mg/L	0.000194	0.00356	mg/L	0.000194	5.45%
Sb 206.833	15.6	-0.00104	mg/L	0.000032	-0.00104	mg/L	0.000032	3.12%
Se 196.026	43.3	0.00480	mg/L	0.000181	0.00480	mg/L	0.000181	3.76%
Si 288.158	769083.2	7.31	mg/L	0.164	7.31	mg/L	0.164	2.25%
Sn 189.933	-121.1	-0.0187	mg/L	0.00022	-0.0187	mg/L	0.00022	1.15%
Ti 337.280	310.0	0.00448	mg/L	0.000175	0.00448	mg/L	0.000175	3.91%
Tl 190.800	16.0	0.00126	mg/L	0.000551	0.00126	mg/L	0.000551	43.77%
V 292.402	77.3	0.00029	mg/L	0.000050	0.00029	mg/L	0.000050	17.17%
Zn 206.200	2100.0	0.00977	mg/L	0.000198	0.00977	mg/L	0.000198	2.03%
K 766.490	54019.7	2.26	mg/L	0.011	2.26	mg/L	0.011	0.51%
Na 589.592	324289.2	8.86	mg/L	0.036	8.86	mg/L	0.036	0.40%
Sr 407.771	3462650.6	2.15	mg/L	0.014	2.15	mg/L	0.014	0.66%
Sr 421.552	1691065.4	2.17	mg/L	0.016	2.17	mg/L	0.016	0.75%
Sr 460.733	52905.3	2.23	mg/L	0.011	2.23	mg/L	0.011	0.49%

Sequence No.: 20
Sample ID: 0524908
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 5/24/2001 12:16:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524908

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3167417.0						78982.88	2.49%
Ag 328.068	1248.2	0.00184	mg/L	0.000074	0.00184	mg/L	0.000074	4.02%
Al 237.312	-496.1	-0.0123	mg/L	0.00421	-0.0123	mg/L	0.00421	34.25%
As 188.979	-9.4	-0.00089	mg/L	0.000002	-0.00089	mg/L	0.000002	0.20%
Ba 230.424	18277.7	0.0531	mg/L	0.00128	0.0531	mg/L	0.00128	2.42%
Be 234.861	683.2	0.00012	mg/L	0.000006	0.00012	mg/L	0.000006	4.74%
Ca 227.549	203604.5	163	mg/L	4.0	163	mg/L	4.0	2.48%
Cd 228.802	-1.4	-0.00021	mg/L	0.000003	-0.00021	mg/L	0.000003	1.57%

Co 228.616	118.1	0.00085 mg/L	0.000023	0.00085 mg/L	0.000023	2.76%
Cr 267.716	195.5	0.00027 mg/L	0.000015	0.00027 mg/L	0.000015	5.36%
Cu 327.396	8.4	0.00002 mg/L	0.000008	0.00002 mg/L	0.000008	37.74%
Fe 261.387	99228.7	4.41 mg/L	0.168	4.41 mg/L	0.168	3.80%
Mg 279.079	5859045.4	99.0 mg/L	3.72	99.0 mg/L	3.72	3.76%
Mn 257.610	1202840.7	0.560 mg/L	0.0187	0.560 mg/L	0.0187	3.34%
Mo 202.030	72.5	0.00110 mg/L	0.000034	0.00110 mg/L	0.000034	3.04%
Ni 231.604	393.6	0.00206 mg/L	0.000038	0.00206 mg/L	0.000038	1.83%
Pb 220.353	115.0	0.00454 mg/L	0.000086	0.00454 mg/L	0.000086	1.90%
Sb 206.833	29.1	-0.00104 mg/L	0.000450	-0.00104 mg/L	0.000450	43.39%
Se 196.026	13.3	0.00148 mg/L	0.000755	0.00148 mg/L	0.000755	50.90%
Si 288.158	802072.5	7.62 mg/L	0.236	7.62 mg/L	0.236	3.10%
Sn 189.933	-131.6	-0.0195 mg/L	0.00093	-0.0195 mg/L	0.00093	4.80%
Ti 337.280	-128.7	0.00688 mg/L	0.000079	0.00688 mg/L	0.000079	1.15%
Tl 190.800	9.5	0.00589 mg/L	0.000804	0.00589 mg/L	0.000804	13.65%
V 292.402	-97.0	0.00000 mg/L	0.000018	0.00000 mg/L	0.000018	>999.9%
Zn 206.200	1206.4	0.00484 mg/L	0.000148	0.00484 mg/L	0.000148	3.05%
K 766.490	74451.4	3.19 mg/L	0.039	3.19 mg/L	0.039	1.22%
Na 589.592	2907630.2	79.4 mg/L	0.60	79.4 mg/L	0.60	0.76%
Sr 407.771	5527282.9	3.42 mg/L	0.026	3.42 mg/L	0.026	0.75%
Sr 421.552	2718750.0	3.48 mg/L	0.025	3.48 mg/L	0.025	0.72%
Sr 460.733	85704.1	3.44 mg/L	0.025	3.44 mg/L	0.025	0.72%

Sequence No.: 21
Sample ID: 0524909
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 5/24/2001 12:20:56 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524909

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3164472.9						21249.98	0.67%
Ag 328.068	1304.5	0.00192	mg/L	0.000098	0.00192	mg/L	0.000098	5.13%
Al 237.312	575.5	0.0305	mg/L	0.00229	0.0305	mg/L	0.00229	7.51%
As 188.979	-2.5	-0.00022	mg/L	0.000962	-0.00022	mg/L	0.000962	431.36%
Ba 230.424	22332.3	0.0647	mg/L	0.00040	0.0647	mg/L	0.00040	0.62%
Be 234.861	348.1	0.00012	mg/L	0.000011	0.00012	mg/L	0.000011	8.60%
Ca 227.549	215866.3	173	mg/L	0.4	173	mg/L	0.4	0.21%
Cd 228.802	37.2	-0.00012	mg/L	0.000015	-0.00012	mg/L	0.000015	12.85%
Co 228.616	487.1	0.00276	mg/L	0.000050	0.00276	mg/L	0.000050	1.83%
Cr 267.716	307.0	0.00053	mg/L	0.000044	0.00053	mg/L	0.000044	8.32%
Cu 327.396	359.8	0.00089	mg/L	0.000165	0.00089	mg/L	0.000165	18.62%
Fe 261.387	28501.7	1.28	mg/L	0.006	1.28	mg/L	0.006	0.46%
Mg 279.079	5164093.5	87.2	mg/L	0.84	87.2	mg/L	0.84	0.96%
Mn 257.610	1524095.2	0.711	mg/L	0.0044	0.711	mg/L	0.0044	0.62%
Mo 202.030	62.2	0.00095	mg/L	0.000051	0.00095	mg/L	0.000051	5.43%
Ni 231.604	7864.6	0.0401	mg/L	0.00065	0.0401	mg/L	0.00065	1.62%
Pb 220.353	100.7	0.00399	mg/L	0.000229	0.00399	mg/L	0.000229	5.75%
Sb 206.833	16.9	-0.00140	mg/L	0.000735	-0.00140	mg/L	0.000735	52.48%
Se 196.026	36.2	0.00401	mg/L	0.001118	0.00401	mg/L	0.001118	27.90%
Si 288.158	741238.7	7.05	mg/L	0.031	7.05	mg/L	0.031	0.44%
Sn 189.933	-146.6	-0.0211	mg/L	0.00012	-0.0211	mg/L	0.00012	0.56%
Ti 337.280	377.6	0.00847	mg/L	0.000010	0.00847	mg/L	0.000010	0.12%
Tl 190.800	6.2	0.00659	mg/L	0.000139	0.00659	mg/L	0.000139	2.11%
V 292.402	-32.6	-0.00002	mg/L	0.000059	-0.00002	mg/L	0.000059	314.84%
Zn 206.200	1721.8	0.00780	mg/L	0.000136	0.00780	mg/L	0.000136	1.75%
K 766.490	52064.2	2.18	mg/L	0.013	2.18	mg/L	0.013	0.60%
Na 589.592	2073963.5	56.7	mg/L	0.40	56.7	mg/L	0.40	0.70%
Sr 407.771	3913225.2	2.42	mg/L	0.013	2.42	mg/L	0.013	0.53%
Sr 421.552	1915707.8	2.45	mg/L	0.013	2.45	mg/L	0.013	0.53%
Sr 460.733	60850.2	2.53	mg/L	0.020	2.53	mg/L	0.020	0.79%

Sequence No.: 22
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/24/2001 12:25:16 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3263002.5						16990.16	0.52%
Ag 328.068	253194.6	0.373	mg/L	0.0026	0.373	mg/L	0.0026	0.71%
QC value within limits for Ag 328.068 Recovery = 93.15%								
Al 237.312	156421.6	9.57	mg/L	0.110	9.57	mg/L	0.110	1.15%
QC value within limits for Al 237.312 Recovery = 95.74%								
As 188.979	3751.7	0.363	mg/L	0.0022	0.363	mg/L	0.0022	0.60%
QC value within limits for As 188.979 Recovery = 90.76%								
Ba 230.424	344566.2	0.989	mg/L	0.0078	0.989	mg/L	0.0078	0.79%
QC value within limits for Ba 230.424 Recovery = 98.85%								
Be 234.861	83843.7	0.0493	mg/L	0.00038	0.0493	mg/L	0.00038	0.76%
QC value within limits for Be 234.861 Recovery = 98.63%								
Ca 227.549	12565.1	9.94	mg/L	0.010	9.94	mg/L	0.010	0.10%
QC value within limits for Ca 227.549 Recovery = 99.35%								
Cd 228.802	20611.5	0.0480	mg/L	0.00010	0.0480	mg/L	0.00010	0.22%
QC value within limits for Cd 228.802 Recovery = 95.98%								
Co 228.616	37663.3	0.201	mg/L	0.0018	0.201	mg/L	0.0018	0.88%
QC value within limits for Co 228.616 Recovery = 100.56%								
Cr 267.716	166315.6	0.500	mg/L	0.0046	0.500	mg/L	0.0046	0.92%
QC value within limits for Cr 267.716 Recovery = 99.98%								
Cu 327.396	200114.2	0.493	mg/L	0.0047	0.493	mg/L	0.0047	0.94%
QC value within limits for Cu 327.396 Recovery = 98.55%								
Fe 261.387	90501.7	4.05	mg/L	0.036	4.05	mg/L	0.036	0.90%
QC value within limits for Fe 261.387 Recovery = 101.14%								
Mg 279.079	567436.2	9.57	mg/L	0.107	9.57	mg/L	0.107	1.12%
QC value within limits for Mg 279.079 Recovery = 95.74%								
Mn 257.610	1055621.0	0.493	mg/L	0.0044	0.493	mg/L	0.0044	0.89%
QC value within limits for Mn 257.610 Recovery = 98.56%								
Mo 202.030	62133.8	0.946	mg/L	0.0138	0.946	mg/L	0.0138	1.46%
QC value within limits for Mo 202.030 Recovery = 95.09%								
Ni 231.604	97957.1	0.500	mg/L	0.0049	0.500	mg/L	0.0049	0.98%
QC value within limits for Ni 231.604 Recovery = 99.92%								
Pb 220.353	12030.1	0.480	mg/L	0.0017	0.480	mg/L	0.0017	0.36%
QC value within limits for Pb 220.353 Recovery = 95.93%								
Sb 206.833	20559.7	1.11	mg/L	0.002	1.11	mg/L	0.002	0.14%
QC value within limits for Sb 206.833 Recovery = 91.91%								
Se 196.026	3440.4	0.379	mg/L	0.0022	0.379	mg/L	0.0022	0.57%
QC value within limits for Se 196.026 Recovery = 94.78%								
Si 288.158	2672.0	0.0335	mg/L	0.00032	0.0335	mg/L	0.00032	0.97%
QC value less than the lower limit for Si 288.158 Recovery = 0.67%								
Sn 189.933	13448.6	0.825	mg/L	0.0209	0.825	mg/L	0.0209	2.53%
QC value less than the lower limit for Sn 189.933 Recovery = 82.59%								
Ti 337.280	1467292.3	0.967	mg/L	0.0077	0.967	mg/L	0.0077	0.79%
QC value within limits for Ti 337.280 Recovery = 96.79%								
Tl 190.800	6234.7	0.485	mg/L	0.0082	0.485	mg/L	0.0082	1.70%
QC value within limits for Tl 190.800 Recovery = 97.07%								
V 292.402	270498.2	0.986	mg/L	0.0088	0.986	mg/L	0.0088	0.89%
QC value within limits for V 292.402 Recovery = 98.58%								
Zn 206.200	182732.4	0.929	mg/L	0.0115	0.929	mg/L	0.0115	1.24%
QC value within limits for Zn 206.200 Recovery = 92.95%								
K 766.490	1021915.6	47.8	mg/L	0.07	47.8	mg/L	0.07	0.14%
QC value within limits for K 766.490 Recovery = 95.67%								
Na 589.592	1740555.2	47.6	mg/L	0.25	47.6	mg/L	0.25	0.52%
QC value within limits for Na 589.592 Recovery = 95.11%								
Sr 407.771	1460785.0	0.907	mg/L	0.0041	0.907	mg/L	0.0041	0.45%
QC value within limits for Sr 407.771 Recovery = 90.66%								
Sr 421.552	711021.0	0.913	mg/L	0.0043	0.913	mg/L	0.0043	0.47%
QC value within limits for Sr 421.552 Recovery = 91.34%								
Sr 460.733	21424.7	0.957	mg/L	0.0007	0.957	mg/L	0.0007	0.07%
QC value within limits for Sr 460.733 Recovery = 95.70%								

QC Failed. Continue with analysis.

Sequence No.: 23
Sample ID: CCB
Analyst:
Sample Wt:

Autosampler Location: 1
Date Collected: 5/24/2001 12:29:32 PM

Sample Prep Volume:

Dilution: Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2794746.6						30627.79	1.10%
Ag 328.068	-39.7	-0.00006	mg/L	0.000034	-0.00006	mg/L	0.000034	58.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-19.8	-0.00117	mg/L	0.000932	-0.00117	mg/L	0.000932	79.43%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	3.3	0.00031	mg/L	0.000343	0.00031	mg/L	0.000343	109.48%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-9.2	-0.00003	mg/L	0.000033	-0.00003	mg/L	0.000033	126.04%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	13.2	0.00001	mg/L	0.000002	0.00001	mg/L	0.000002	24.12%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	7.2	0.00567	mg/L	0.003878	0.00567	mg/L	0.003878	68.45%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-1.5	0.00000	mg/L	0.000014	0.00000	mg/L	0.000014	414.28%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	18.0	0.00010	mg/L	0.000023	0.00010	mg/L	0.000023	23.50%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	37.4	0.00011	mg/L	0.000000	0.00011	mg/L	0.000000	0.05%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	21.0	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	21.46%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	112.1	0.00497	mg/L	0.000227	0.00497	mg/L	0.000227	4.57%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-44.6	-0.00075	mg/L	0.000032	-0.00075	mg/L	0.000032	4.23%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	16.5	0.00001	mg/L	0.000005	0.00001	mg/L	0.000005	60.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	73.5	0.00112	mg/L	0.000110	0.00112	mg/L	0.000110	9.87%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	5.4	0.00003	mg/L	0.000082	0.00003	mg/L	0.000082	295.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-1.4	-0.00005	mg/L	0.000008	-0.00005	mg/L	0.000008	15.08%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-0.8	-0.00004	mg/L	0.000274	-0.00004	mg/L	0.000274	650.50%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	21.5	0.00239	mg/L	0.000944	0.00239	mg/L	0.000944	39.53%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	266.8	0.00251	mg/L	0.000889	0.00251	mg/L	0.000889	35.39%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	60.9	0.00374	mg/L	0.001146	0.00374	mg/L	0.001146	30.61%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	61.8	0.00005	mg/L	0.000059	0.00005	mg/L	0.000059	125.09%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	8.5	0.00065	mg/L	0.000061	0.00065	mg/L	0.000061	9.48%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	-11.5	-0.00004	mg/L	0.000013	-0.00004	mg/L	0.000013	30.72%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	32.8	0.00017	mg/L	0.000008	0.00017	mg/L	0.000008	4.99%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	-252.2	-0.0118	mg/L	0.00652	-0.0118	mg/L	0.00652	55.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	-1400.0	-0.0382	mg/L	0.00452	-0.0382	mg/L	0.00452	11.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-16.1	0.00273	mg/L	0.000038	0.00273	mg/L	0.000038	1.40%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	22.6	0.00496	mg/L	0.000044	0.00496	mg/L	0.000044	0.89%
Sample signal is less than that of the lowest standard.								
QC value within limits for Sr 421.552 Recovery = Not calculated								
Sr 460.733	-42.9	0.00243	mg/L	0.001269	0.00243	mg/L	0.001269	52.19%
QC value within limits for Sr 460.733 Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 24
Sample ID: 0524910

Autosampler Location: 31
Date Collected: 5/24/2001 12:33:42 PM

1502

Analyst:
Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: 0524910

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2895387.6						36848.91	1.27%
Ag 328.068	1311.7	0.00193	mg/L	0.000089	0.00193	mg/L	0.000089	4.60%
Al 237.312	-1128.8	0.0203	mg/L	0.00643	0.0203	mg/L	0.00643	31.68%
As 188.979	116.8	0.0113	mg/L	0.00060	0.0113	mg/L	0.00060	5.33%
Ba 230.424	210327.6	0.604	mg/L	0.0117	0.604	mg/L	0.0117	1.94%
Be 234.861	1780.9	0.00013	mg/L	0.000058	0.00013	mg/L	0.000058	44.80%
Ca 227.549	186628.1	149	mg/L	0.2	149	mg/L	0.2	0.13%
Cd 228.802	142.7	0.00013	mg/L	0.000024	0.00013	mg/L	0.000024	18.41%
Co 228.616	1447.5	0.00816	mg/L	0.000271	0.00816	mg/L	0.000271	3.32%
Cr 267.716	4077.1	0.0121	mg/L	0.00024	0.0121	mg/L	0.00024	1.94%
Cu 327.396	31554.3	0.0777	mg/L	0.00003	0.0777	mg/L	0.00003	0.04%
Fe 261.387	321504.8	14.3	mg/L	0.24	14.3	mg/L	0.24	1.65%
Mg 279.079	7131548.2	120	mg/L	3.8	120	mg/L	3.8	3.12%
Mn 257.610	2837559.9	1.32	mg/L	0.030	1.32	mg/L	0.030	2.26%
Mo 202.030	728.7	0.0111	mg/L	0.00018	0.0111	mg/L	0.00018	1.64%
Ni 231.604	24844.7	0.127	mg/L	0.0032	0.127	mg/L	0.0032	2.49%
Pb 220.353	254.5	0.0101	mg/L	0.00034	0.0101	mg/L	0.00034	3.37%
Sb 206.833	72.0	-0.00034	mg/L	0.000361	-0.00034	mg/L	0.000361	105.96%
Se 196.026	38.3	0.00425	mg/L	0.001296	0.00425	mg/L	0.001296	30.45%
Si 288.158	1067800.8	10.1	mg/L	0.23	10.1	mg/L	0.23	2.26%
Sn 189.933	-75.9	-0.0151	mg/L	0.00025	-0.0151	mg/L	0.00025	1.65%
Ti 337.280	8409.2	0.0155	mg/L	0.00011	0.0155	mg/L	0.00011	0.73%
Tl 190.800	13.5	0.0140	mg/L	0.00015	0.0140	mg/L	0.00015	1.09%
V 292.402	925.7	0.00451	mg/L	0.000041	0.00451	mg/L	0.000041	0.91%
Zn 206.200	41536.0	0.209	mg/L	0.0089	0.209	mg/L	0.0089	4.24%
K 766.490	3702236.8	173	mg/L	1.3	173	mg/L	1.3	0.75%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	2600176.3	1.61	mg/L	0.013	1.61	mg/L	0.013	0.80%
Sr 421.552	1271294.1	1.63	mg/L	0.013	1.63	mg/L	0.013	0.83%
Sr 460.733	41077.2	1.77	mg/L	0.027	1.77	mg/L	0.027	1.55%

Sequence No.: 25
Sample ID: 0524911
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 5/24/2001 12:38:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524911

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3193992.2						7873.73	0.25%
Ag 328.068	1165.0	0.00171	mg/L	0.000097	0.00171	mg/L	0.000097	5.63%
Al 237.312	484.4	0.0257	mg/L	0.00095	0.0257	mg/L	0.00095	3.71%
As 188.979	-16.9	-0.00161	mg/L	0.000235	-0.00161	mg/L	0.000235	14.55%
Ba 230.424	310882.7	0.892	mg/L	0.0100	0.892	mg/L	0.0100	1.12%
Be 234.861	284.9	0.00010	mg/L	0.000014	0.00010	mg/L	0.000014	14.59%
Ca 227.549	230404.1	184	mg/L	1.0	184	mg/L	1.0	0.54%
Cd 228.802	74.7	0.00000	mg/L	0.000024	0.00000	mg/L	0.000024	558.16%
Co 228.616	-95.0	-0.00037	mg/L	0.000035	-0.00037	mg/L	0.000035	9.54%
Cr 267.716	45.3	-0.00003	mg/L	0.000032	-0.00003	mg/L	0.000032	97.27%
Cu 327.396	245.2	0.00060	mg/L	0.000102	0.00060	mg/L	0.000102	16.87%
Fe 261.387	24463.5	1.08	mg/L	0.007	1.08	mg/L	0.007	0.65%
Mg 279.079	2523968.1	42.6	mg/L	0.33	42.6	mg/L	0.33	0.77%
Mn 257.610	72954.5	0.0332	mg/L	0.00037	0.0332	mg/L	0.00037	1.11%
Mo 202.030	30.6	0.00047	mg/L	0.000101	0.00047	mg/L	0.000101	21.73%
Ni 231.604	326.2	0.00168	mg/L	0.000035	0.00168	mg/L	0.000035	2.10%
Pb 220.353	97.3	0.00385	mg/L	0.000016	0.00385	mg/L	0.000016	0.42%
Sb 206.833	19.9	-0.00058	mg/L	0.000049	-0.00058	mg/L	0.000049	8.51%
Se 196.026	23.9	0.00265	mg/L	0.001200	0.00265	mg/L	0.001200	45.34%
Si 288.158	616705.7	5.89	mg/L	0.029	5.89	mg/L	0.029	0.49%

Sn 189.933	-153.1	-0.0223	mg/L	0.00039	-0.0223	mg/L	0.00039	1.74%
Ti 337.280	-338.3	0.00634	mg/L	0.000057	0.00634	mg/L	0.000057	0.90%
Tl 190.800	3.1	0.00120	mg/L	0.000695	0.00120	mg/L	0.000695	57.94%
V 292.402	-14.7	0.00003	mg/L	0.000050	0.00003	mg/L	0.000050	153.03%
Zn 206.200	840.5	0.00377	mg/L	0.000080	0.00377	mg/L	0.000080	2.11%
K 766.490	328557.1	15.3	mg/L	0.09	15.3	mg/L	0.09	0.60%
Na 589.592	1327471.3	36.3	mg/L	0.27	36.3	mg/L	0.27	0.75%
Sr 407.771	6530954.0	4.04	mg/L	0.009	4.04	mg/L	0.009	0.22%
Sr 421.552	3199778.8	4.09	mg/L	0.010	4.09	mg/L	0.010	0.24%
Sr 460.733	100751.1	3.96	mg/L	0.016	3.96	mg/L	0.016	0.40%

Sequence No.: 26 **Autosampler Location: 33**
Sample ID: 0524912 **Date Collected: 5/24/2001 12:42:16 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0524912

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2875892.4						6932.56	0.24%
Ag 328.068	198.9	0.00029	mg/L	0.000009	0.00029	mg/L	0.000009	3.08%
Al 237.312	48.1	0.00308	mg/L	0.000133	0.00308	mg/L	0.000133	4.33%
As 188.979	5.4	0.00051	mg/L	0.000411	0.00051	mg/L	0.000411	80.09%
Ba 230.424	175.0	0.00050	mg/L	0.000006	0.00050	mg/L	0.000006	1.18%
Be 234.861	25.7	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	6.03%
Ca 227.549	22.1	0.0173	mg/L	0.01240	0.0173	mg/L	0.01240	71.56%
Cd 228.802	3.5	0.00001	mg/L	0.000002	0.00001	mg/L	0.000002	26.07%
Co 228.616	31.7	0.00017	mg/L	0.000005	0.00017	mg/L	0.000005	2.93%
Cr 267.716	9.2	0.00003	mg/L	0.000028	0.00003	mg/L	0.000028	98.07%
Cu 327.396	-1.3	0.00000	mg/L	0.000077	0.00000	mg/L	0.000077	>999.9%
Fe 261.387	452.6	0.0201	mg/L	0.00023	0.0201	mg/L	0.00023	1.15%
Mg 279.079	476.2	0.00804	mg/L	0.000120	0.00804	mg/L	0.000120	1.49%
Mn 257.610	2144.3	0.00100	mg/L	0.000006	0.00100	mg/L	0.000006	0.62%
Mo 202.030	16.3	0.00025	mg/L	0.000050	0.00025	mg/L	0.000050	19.93%
Ni 231.604	86.6	0.00044	mg/L	0.000022	0.00044	mg/L	0.000022	4.88%
Pb 220.353	0.3	0.00001	mg/L	0.000078	0.00001	mg/L	0.000078	561.79%
Sb 206.833	-4.7	-0.00026	mg/L	0.000203	-0.00026	mg/L	0.000203	78.34%
Se 196.026	20.3	0.00225	mg/L	0.001014	0.00225	mg/L	0.001014	45.15%
Si 288.158	14064.2	0.132	mg/L	0.0009	0.132	mg/L	0.0009	0.66%
Sn 189.933	-14.5	-0.00089	mg/L	0.000076	-0.00089	mg/L	0.000076	8.50%
Ti 337.280	529.5	0.00035	mg/L	0.000008	0.00035	mg/L	0.000008	2.35%
Tl 190.800	7.3	0.00057	mg/L	0.000584	0.00057	mg/L	0.000584	102.51%
V 292.402	26.4	0.00010	mg/L	0.000025	0.00010	mg/L	0.000025	25.91%
Zn 206.200	585.4	0.00298	mg/L	0.000020	0.00298	mg/L	0.000020	0.68%
K 766.490	1493.4	0.0699	mg/L	0.00084	0.0699	mg/L	0.00084	1.21%
Na 589.592	3962.3	0.108	mg/L	0.0002	0.108	mg/L	0.0002	0.21%
Sr 407.771	47.5	0.00277	mg/L	0.000031	0.00277	mg/L	0.000031	1.11%
Sr 421.552	79.2	0.00503	mg/L	0.000061	0.00503	mg/L	0.000061	1.21%
Sample signal is less than that of the lowest standard.								
Sr 460.733	33.1	0.00596	mg/L	0.004006	0.00596	mg/L	0.004006	67.26%

Sequence No.: 27 **Autosampler Location: 34**
Sample ID: 0524913 **Date Collected: 5/24/2001 12:46:26 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0524913

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3022186.2						28068.07	0.93%
Ag 328.068	1013.6	0.00149	mg/L	0.000079	0.00149	mg/L	0.000079	5.31%
Al 237.312	87.0	0.00710	mg/L	0.003432	0.00710	mg/L	0.003432	48.34%
As 188.979	-4.3	-0.00040	mg/L	0.000343	-0.00040	mg/L	0.000343	85.35%
Ba 230.424	33133.5	0.0954	mg/L	0.00120	0.0954	mg/L	0.00120	1.26%
Be 234.861	313.1	0.00010	mg/L	0.000024	0.00010	mg/L	0.000024	25.50%

Ca 227.549	142805.9	114 mg/L	1.0	114 mg/L	1.0	0.85%
Cd 228.802	2.1	-0.00012 mg/L	0.000019	-0.00012 mg/L	0.000019	16.28%
Co 228.616	110.4	0.00070 mg/L	0.000044	0.00070 mg/L	0.000044	6.33%
Cr 267.716	238.0	0.00056 mg/L	0.000002	0.00056 mg/L	0.000002	0.28%
Cu 327.396	102.6	0.00025 mg/L	0.000230	0.00025 mg/L	0.000230	91.10%
Fe 261.387	30933.1	1.39 mg/L	0.019	1.39 mg/L	0.019	1.38%
Mg 279.079	2462379.7	41.6 mg/L	1.33	41.6 mg/L	1.33	3.20%
Mn 257.610	1742832.9	0.814 mg/L	0.0186	0.814 mg/L	0.0186	2.28%
Mo 202.030	11.1	0.00017 mg/L	0.000029	0.00017 mg/L	0.000029	17.12%
Ni 231.604	745.2	0.00382 mg/L	0.000045	0.00382 mg/L	0.000045	1.18%
Pb 220.353	69.6	0.00275 mg/L	0.000327	0.00275 mg/L	0.000327	11.86%
Sb 206.833	27.6	-0.00006 mg/L	0.000326	-0.00006 mg/L	0.000326	576.46%
Se 196.026	21.2	0.00235 mg/L	0.001370	0.00235 mg/L	0.001370	58.39%
Si 288.158	623776.4	5.92 mg/L	0.126	5.92 mg/L	0.126	2.12%
Sn 189.933	-118.4	-0.0153 mg/L	0.00029	-0.0153 mg/L	0.00029	1.91%
Ti 337.280	180.5	0.00758 mg/L	0.000108	0.00758 mg/L	0.000108	1.43%
Tl 190.800	9.4	0.00772 mg/L	0.000051	0.00772 mg/L	0.000051	0.66%
V 292.402	-30.7	0.00000 mg/L	0.000054	0.00000 mg/L	0.000054	>999.9%
Zn 206.200	407.6	0.00156 mg/L	0.000167	0.00156 mg/L	0.000167	10.67%
K 766.490	148211.7	6.82 mg/L	0.134	6.82 mg/L	0.134	1.97%
Na 589.592	Saturated2					
Saturated in preshot (code 2)						
Sr 407.771	4828870.9	2.99 mg/L	0.018	2.99 mg/L	0.018	0.59%
Sr 421.552	2372487.7	3.04 mg/L	0.019	3.04 mg/L	0.019	0.63%
Sr 460.733	75856.4	3.09 mg/L	0.020	3.09 mg/L	0.020	0.66%

Sequence No.: 28 **Autosampler Location: 35**
Sample ID: 0541201 **Date Collected: 5/24/2001 12:50:39 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0541201

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	3123122.3						50084.45	1.60%
Ag 328.068	592.9	0.00087	mg/L	0.000119	0.00087	mg/L	0.000119	13.59%
Al 237.312	447.3	0.0259	mg/L	0.00036	0.0259	mg/L	0.00036	1.40%
As 188.979	25.0	0.00239	mg/L	0.000000	0.00239	mg/L	0.000000	0.02%
Ba 230.424	18023.6	0.0519	mg/L	0.00028	0.0519	mg/L	0.00028	0.53%
Be 234.861	106.4	0.00004	mg/L	0.000038	0.00004	mg/L	0.000038	85.75%
Ca 227.549	64282.4	51.4	mg/L	0.29	51.4	mg/L	0.29	0.57%
Cd 228.802	37.5	0.00004	mg/L	0.000002	0.00004	mg/L	0.000002	6.69%
Co 228.616	66.1	0.00039	mg/L	0.000038	0.00039	mg/L	0.000038	9.79%
Cr 267.716	239.4	0.00065	mg/L	0.000001	0.00065	mg/L	0.000001	0.08%
Cu 327.396	2047.6	0.00504	mg/L	0.000037	0.00504	mg/L	0.000037	0.74%
Fe 261.387	6341.5	0.282	mg/L	0.0005	0.282	mg/L	0.0005	0.16%
Mg 279.079	844221.7	14.3	mg/L	0.40	14.3	mg/L	0.40	2.80%
Mn 257.610	58946.9	0.0272	mg/L	0.00020	0.0272	mg/L	0.00020	0.72%
Mo 202.030	71.4	0.00109	mg/L	0.000043	0.00109	mg/L	0.000043	3.91%
Ni 231.604	409.7	0.00209	mg/L	0.000022	0.00209	mg/L	0.000022	1.03%
Pb 220.353	56.1	0.00222	mg/L	0.000001	0.00222	mg/L	0.000001	0.03%
Sb 206.833	10.5	0.00006	mg/L	0.000095	0.00006	mg/L	0.000095	148.16%
Se 196.026	16.2	0.00179	mg/L	0.001287	0.00179	mg/L	0.001287	71.72%
Si 288.158	48390.8	0.481	mg/L	0.0040	0.481	mg/L	0.0040	0.84%
Sn 189.933	-110.0	-0.0104	mg/L	0.00026	-0.0104	mg/L	0.00026	2.46%
Ti 337.280	974.2	0.00250	mg/L	0.000039	0.00250	mg/L	0.000039	1.54%
Tl 190.800	12.7	0.00127	mg/L	0.000291	0.00127	mg/L	0.000291	22.92%
V 292.402	111.3	0.00043	mg/L	0.000007	0.00043	mg/L	0.000007	1.57%
Zn 206.200	5725.5	0.0290	mg/L	0.00033	0.0290	mg/L	0.00033	1.15%
K 766.490	74373.3	3.44	mg/L	0.010	3.44	mg/L	0.010	0.29%
Na 589.592	2789262.4	76.2	mg/L	0.20	76.2	mg/L	0.20	0.26%
Sr 407.771	219732.8	0.139	mg/L	0.0004	0.139	mg/L	0.0004	0.32%
Sr 421.552	105875.3	0.140	mg/L	0.0003	0.140	mg/L	0.0003	0.24%
Sr 460.733	3130.5	0.149	mg/L	0.0022	0.149	mg/L	0.0022	1.50%

Sequence No.: 29 **Autosampler Location: 36**
Sample ID: 0541202 **Date Collected: 5/24/2001 12:54:52 PM**

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Analyst:
Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: 0541202

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3174781.1						44197.09	1.39%
Ag 328.068	1073.6	0.00158	mg/L	0.000063	0.00158	mg/L	0.000063	3.97%
Al 237.312	390.3	0.0243	mg/L	0.00157	0.0243	mg/L	0.00157	6.47%
As 188.979	2.7	0.00026	mg/L	0.000226	0.00026	mg/L	0.000226	86.49%
Ba 230.424	21327.1	0.0614	mg/L	0.00009	0.0614	mg/L	0.00009	0.15%
Be 234.861	168.4	0.00006	mg/L	0.000009	0.00006	mg/L	0.000009	15.22%
Ca 227.549	83001.6	66.4	mg/L	0.13	66.4	mg/L	0.13	0.19%
Cd 228.802	64.5	0.00009	mg/L	0.000003	0.00009	mg/L	0.000003	3.24%
Co 228.616	71.8	0.00044	mg/L	0.000012	0.00044	mg/L	0.000012	2.68%
Cr 267.716	285.0	0.00083	mg/L	0.000059	0.00083	mg/L	0.000059	7.12%
Cu 327.396	1236.7	0.00305	mg/L	0.000063	0.00305	mg/L	0.000063	2.08%
Fe 261.387	13477.2	0.598	mg/L	0.0024	0.598	mg/L	0.0024	0.41%
Mg 279.079	571867.3	9.65	mg/L	0.216	9.65	mg/L	0.216	2.23%
Mn 257.610	104220.4	0.0485	mg/L	0.00018	0.0485	mg/L	0.00018	0.38%
Mo 202.030	348.2	0.00530	mg/L	0.000161	0.00530	mg/L	0.000161	3.03%
Ni 231.604	825.1	0.00421	mg/L	0.000047	0.00421	mg/L	0.000047	1.11%
Pb 220.353	55.4	0.00220	mg/L	0.000338	0.00220	mg/L	0.000338	15.33%
Sb 206.833	18.3	0.00041	mg/L	0.000186	0.00041	mg/L	0.000186	45.42%
Se 196.026	20.7	0.00229	mg/L	0.001084	0.00229	mg/L	0.001084	47.35%
Si 288.158	642909.6	6.08	mg/L	0.116	6.08	mg/L	0.116	1.90%
Sn 189.933	-114.9	-0.0117	mg/L	0.00063	-0.0117	mg/L	0.00063	5.35%
Ti 337.280	370.0	0.00295	mg/L	0.000050	0.00295	mg/L	0.000050	1.70%
Tl 190.800	22.6	0.00222	mg/L	0.000056	0.00222	mg/L	0.000056	2.54%
V 292.402	139.3	0.00056	mg/L	0.000005	0.00056	mg/L	0.000005	0.88%
Zn 206.200	15296.6	0.0777	mg/L	0.00095	0.0777	mg/L	0.00095	1.22%
K 766.490	140773.9	6.56	mg/L	0.092	6.56	mg/L	0.092	1.41%
Na 589.592	4135743.3	113	mg/L	1.1	113	mg/L	1.1	1.00%
Sr 407.771	604123.3	0.377	mg/L	0.0053	0.377	mg/L	0.0053	1.42%
Sr 421.552	292151.7	0.378	mg/L	0.0048	0.378	mg/L	0.0048	1.28%
Sr 460.733	8941.8	0.412	mg/L	0.0027	0.412	mg/L	0.0027	0.66%

Sequence No.: 30
Sample ID: 0542601
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 5/24/2001 12:59:08 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0542601

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3234912.3						23804.50	0.74%
Ag 328.068	995.4	0.00146	mg/L	0.000126	0.00146	mg/L	0.000126	8.63%
Al 237.312	11761.3	0.714	mg/L	0.0038	0.714	mg/L	0.0038	0.54%
As 188.979	52.5	0.00502	mg/L	0.000175	0.00502	mg/L	0.000175	3.48%
Ba 230.424	84775.6	0.243	mg/L	0.0032	0.243	mg/L	0.0032	1.33%
Be 234.861	201.0	0.00010	mg/L	0.000008	0.00010	mg/L	0.000008	8.51%
Ca 227.549	125723.4	101	mg/L	1.0	101	mg/L	1.0	1.02%
Cd 228.802	2347.9	0.00545	mg/L	0.000014	0.00545	mg/L	0.000014	0.26%
Co 228.616	49.9	0.00032	mg/L	0.000008	0.00032	mg/L	0.000008	2.35%
Cr 267.716	232.7	0.00068	mg/L	0.000033	0.00068	mg/L	0.000033	4.91%
Cu 327.396	36685.6	0.0904	mg/L	0.00154	0.0904	mg/L	0.00154	1.70%
Fe 261.387	4714.8	0.210	mg/L	0.0002	0.210	mg/L	0.0002	0.10%
Mg 279.079	483504.7	8.16	mg/L	0.129	8.16	mg/L	0.129	1.58%
Mn 257.610	68115.4	0.0316	mg/L	0.00042	0.0316	mg/L	0.00042	1.33%
Mo 202.030	204.8	0.00312	mg/L	0.000088	0.00312	mg/L	0.000088	2.84%
Ni 231.604	845.8	0.00431	mg/L	0.000069	0.00431	mg/L	0.000069	1.60%
Pb 220.353	223.2	0.00890	mg/L	0.000247	0.00890	mg/L	0.000247	2.78%
Sb 206.833	1205.3	0.0647	mg/L	0.00075	0.0647	mg/L	0.00075	1.16%
Se 196.026	36.1	0.00387	mg/L	0.000662	0.00387	mg/L	0.000662	17.12%
Si 288.158	1429748.3	13.5	mg/L	0.21	13.5	mg/L	0.21	1.56%
Sn 189.933	102.9	-0.00084	mg/L	0.000159	-0.00084	mg/L	0.000159	18.90%

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Ti 337.280	6701.4	0.00840 mg/L	0.000132	0.00840 mg/L	0.000132	1.57%
Tl 190.800	18.8	0.00185 mg/L	0.000547	0.00185 mg/L	0.000547	29.54%
V 292.402	836.8	0.00305 mg/L	0.000004	0.00305 mg/L	0.000004	0.14%
Zn 206.200	117103.2	0.596 mg/L	0.0114	0.596 mg/L	0.0114	1.91%
K 766.490	60469.9	2.81 mg/L	0.011	2.81 mg/L	0.011	0.40%
Na 589.592	1437535.4	39.3 mg/L	0.17	39.3 mg/L	0.17	0.44%
Sr 407.771	300045.6	0.188 mg/L	0.0008	0.188 mg/L	0.0008	0.41%
Sr 421.552	141531.6	0.186 mg/L	0.0001	0.186 mg/L	0.0001	0.05%
Sr 460.733	4437.1	0.208 mg/L	0.0034	0.208 mg/L	0.0034	1.61%

Sequence No.: 31
Sample ID: 0524910
Analyst:
Sample Wt:
Dilution: 20X

Autosampler Location: 38
Date Collected: 5/24/2001 1:03:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524910

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3149227.8						49418.57	1.57%
Ag 328.068	147.0	0.00022	mg/L	0.000022	0.00433	mg/L	0.000434	10.02%
Al 237.312	-149.6	-0.00444	mg/L	0.002940	-0.0889	mg/L	0.05879	66.15%
As 188.979	12.8	0.00123	mg/L	0.000036	0.0247	mg/L	0.00072	2.90%
Ba 230.424	12541.6	0.0360	mg/L	0.00014	0.720	mg/L	0.0029	0.40%
Be 234.861	136.9	0.00003	mg/L	0.000002	0.00064	mg/L	0.000039	6.13%
Ca 227.549	10748.5	8.59	mg/L	0.044	172	mg/L	0.9	0.51%
Cd 228.802	-1.8	-0.00002	mg/L	0.000030	-0.00031	mg/L	0.000608	193.96%
Co 228.616	100.8	0.00056	mg/L	0.000037	0.0112	mg/L	0.00074	6.57%
Cr 267.716	258.9	0.00077	mg/L	0.000041	0.0154	mg/L	0.00082	5.32%
Cu 327.396	1639.1	0.00404	mg/L	0.000095	0.0808	mg/L	0.00189	2.34%
Fe 261.387	17018.8	0.756	mg/L	0.0085	15.1	mg/L	0.17	1.13%
Mg 279.079	376559.6	6.36	mg/L	0.079	127	mg/L	1.6	1.25%
Mn 257.610	170485.0	0.0796	mg/L	0.00088	1.59	mg/L	0.018	1.11%
Mo 202.030	22.5	0.00034	mg/L	0.000039	0.00684	mg/L	0.000785	11.48%
Ni 231.604	1430.8	0.00730	mg/L	0.000067	0.146	mg/L	0.0013	0.91%
Pb 220.353	22.3	0.00088	mg/L	0.000208	0.0177	mg/L	0.00415	23.50%
Sb 206.833	8.2	0.00021	mg/L	0.000222	0.00423	mg/L	0.004442	105.11%
Se 196.026	20.3	0.00225	mg/L	0.001036	0.0450	mg/L	0.02072	46.06%
Si 288.158	35440.8	0.337	mg/L	0.0086	6.75	mg/L	0.172	2.55%
Sn 189.933	-62.4	-0.00444	mg/L	0.000228	-0.0888	mg/L	0.00456	5.13%
Ti 337.280	464.8	0.00091	mg/L	0.000033	0.0181	mg/L	0.00066	3.67%
Tl 190.800	24.1	0.00260	mg/L	0.000031	0.0521	mg/L	0.00061	1.18%
V 292.402	34.6	0.00019	mg/L	0.000078	0.00373	mg/L	0.001566	42.01%
Zn 206.200	2553.0	0.0129	mg/L	0.00002	0.257	mg/L	0.0005	0.18%
K 766.490	172062.4	8.04	mg/L	0.084	161	mg/L	1.7	1.04%
Na 589.592	1170835.4	32.0	mg/L	0.91	640	mg/L	18.1	2.83%
Sr 407.771	132046.5	0.0844	mg/L	0.00117	1.69	mg/L	0.023	1.39%
Sr 421.552	64342.7	0.0871	mg/L	0.00120	1.74	mg/L	0.024	1.38%
Sr 460.733	1787.7	0.0871	mg/L	0.00060	1.74	mg/L	0.012	0.69%

Sequence No.: 32
Sample ID: 0524913
Analyst:
Sample Wt:
Dilution: 20X

Autosampler Location: 39
Date Collected: 5/24/2001 1:07:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524913

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2992343.5						62412.00	2.09%
Ag 328.068	60.1	0.00009	mg/L	0.000003	0.00177	mg/L	0.000067	3.79%
Al 237.312	-23.7	-0.00139	mg/L	0.000547	-0.0278	mg/L	0.01095	39.32%
As 188.979	4.8	0.00046	mg/L	0.000759	0.00925	mg/L	0.015183	164.06%
Ba 230.424	1739.6	0.00501	mg/L	0.000023	0.100	mg/L	0.0005	0.45%
Be 234.861	46.9	0.00002	mg/L	0.000001	0.00047	mg/L	0.000011	2.25%
Ca 227.549	7735.5	6.19	mg/L	0.052	124	mg/L	1.0	0.83%
Cd 228.802	-3.0	-0.00001	mg/L	0.000009	-0.00027	mg/L	0.000173	64.07%

Co 228.616	24.7	0.00014 mg/L	0.000011	0.00274 mg/L	0.000218	7.96%
Cr 267.716	50.8	0.00014 mg/L	0.000002	0.00288 mg/L	0.000037	1.27%
Cu 327.396	85.8	0.00021 mg/L	0.000059	0.00423 mg/L	0.001177	27.84%
Fe 261.387	1486.8	0.0671 mg/L	0.00100	1.34 mg/L	0.020	1.49%
Mg 279.079	113379.4	1.91 mg/L	0.027	38.3 mg/L	0.53	1.40%
Mn 257.610	91698.6	0.0428 mg/L	0.00054	0.857 mg/L	0.0108	1.26%
Mo 202.030	-16.4	-0.00025 mg/L	0.000156	-0.00500 mg/L	0.003115	62.33%
Ni 231.604	56.0	0.00029 mg/L	0.000030	0.00572 mg/L	0.000603	10.55%
Pb 220.353	10.5	0.00041 mg/L	0.000069	0.00830 mg/L	0.001385	16.70%
Sb 206.833	-7.4	-0.00049 mg/L	0.000034	-0.00971 mg/L	0.000679	6.99%
Se 196.026	20.7	0.00230 mg/L	0.000227	0.0460 mg/L	0.00455	9.89%
Si 288.158	18018.4	0.172 mg/L	0.0036	3.45 mg/L	0.072	2.09%
Sn 189.933	-63.3	-0.00433 mg/L	0.000715	-0.0865 mg/L	0.01431	16.53%
Ti 337.280	74.6	0.00045 mg/L	0.000020	0.00908 mg/L	0.000404	4.44%
Tl 190.800	18.4	0.00177 mg/L	0.000417	0.0354 mg/L	0.00833	23.53%
V 292.402	8.6	0.00004 mg/L	0.000030	0.00074 mg/L	0.000598	81.37%
Zn 206.200	177.9	0.00088 mg/L	0.000032	0.0176 mg/L	0.00063	3.59%
K 766.490	4560.3	0.208 mg/L	0.0050	4.16 mg/L	0.100	2.41%
Na 589.592	668981.5	18.3 mg/L	0.45	366 mg/L	8.9	2.44%
Sr 407.771	230590.9	0.145 mg/L	0.0032	2.91 mg/L	0.065	2.22%
Sr 421.552	109935.8	0.145 mg/L	0.0002	2.91 mg/L	0.005	0.16%
Sr 460.733	3299.8	0.157 mg/L	0.0005	3.13 mg/L	0.010	0.31%

Sequence No.: 33
Sample ID: 0524905
Analyst:
Sample Wt:
Dilution: 20X

Autosampler Location: 40
Date Collected: 5/24/2001 1:11:51 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0524905

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2927921.3						9125.27	0.31%
Ag 328.068	-37.2	-0.00005	mg/L	0.000003	-0.00109	mg/L	0.000056	5.09%
Al 237.312	716.4	0.0440	mg/L	0.00100	0.880	mg/L	0.0200	2.27%
As 188.979	6.9	0.00066	mg/L	0.000207	0.0133	mg/L	0.00414	31.18%
Ba 230.424	397.6	0.00114	mg/L	0.000016	0.0228	mg/L	0.00033	1.43%
Be 234.861	37.9	0.00002	mg/L	0.000004	0.00039	mg/L	0.000088	22.56%
Ca 227.549	108.6	0.0861	mg/L	0.00384	1.72	mg/L	0.077	4.45%
Cd 228.802	-1.8	0.00000	mg/L	0.000003	-0.00009	mg/L	0.000053	59.66%
Co 228.616	21.8	0.00012	mg/L	0.000016	0.00234	mg/L	0.000324	13.87%
Cr 267.716	65.6	0.00020	mg/L	0.000023	0.00393	mg/L	0.000451	11.48%
Cu 327.396	96.7	0.00024	mg/L	0.000062	0.00476	mg/L	0.001243	26.11%
Fe 261.387	846.7	0.0375	mg/L	0.00042	0.751	mg/L	0.0085	1.13%
Mg 279.079	1421.8	0.0240	mg/L	0.00005	0.480	mg/L	0.0009	0.20%
Mn 257.610	2226.1	0.00104	mg/L	0.000002	0.0208	mg/L	0.00003	0.14%
Mo 202.030	-0.9	-0.00001	mg/L	0.000060	-0.00026	mg/L	0.001193	451.11%
Ni 231.604	24.7	0.00013	mg/L	0.000035	0.00252	mg/L	0.000706	27.94%
Pb 220.353	-1.9	-0.00007	mg/L	0.000388	-0.00137	mg/L	0.007753	564.60%
Sb 206.833	-7.9	-0.00044	mg/L	0.000507	-0.00888	mg/L	0.010138	114.12%
Se 196.026	17.3	0.00191	mg/L	0.000590	0.0382	mg/L	0.01180	30.92%
Si 288.158	16437.7	0.155	mg/L	0.0003	3.09	mg/L	0.005	0.17%
Sn 189.933	-22.0	-0.00137	mg/L	0.000051	-0.0273	mg/L	0.00101	3.71%
Ti 337.280	376.6	0.00026	mg/L	0.000010	0.00516	mg/L	0.000201	3.90%
Tl 190.800	29.2	0.00223	mg/L	0.000146	0.0447	mg/L	0.00292	6.53%
V 292.402	21.0	0.00008	mg/L	0.000145	0.00157	mg/L	0.002909	185.09%
Zn 206.200	303.8	0.00154	mg/L	0.000003	0.0308	mg/L	0.00005	0.17%
K 766.490	1460.3	0.0683	mg/L	0.00290	1.37	mg/L	0.058	4.25%
Na 589.592	559959.5	15.3	mg/L	0.38	306	mg/L	7.5	2.47%
Sr 407.771	5579.6	0.00619	mg/L	0.000060	0.124	mg/L	0.0012	0.97%
Sr 421.552	2604.2	0.00826	mg/L	0.000066	0.165	mg/L	0.0013	0.81%
Sample signal is less than that of the lowest standard.								
Sr 460.733	-129.8	-0.00160	mg/L	0.004231	-0.0321	mg/L	0.08462	263.69%

Sequence No.: 34
Sample ID: CCV
Analyst:
Sample Wt:

Autosampler Location: 5
Date Collected: 5/24/2001 1:16:06 PM

Sample Prep Volume:

Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3306904.4						198.98	0.01%
Ag 328.068	254003.9	0.374	mg/L	0.0021	0.374	mg/L	0.0021	0.57%
QC value within limits for Ag 328.068 Recovery = 93.45%								
Al 237.312	158026.7	9.67	mg/L	0.041	9.67	mg/L	0.041	0.43%
QC value within limits for Al 237.312 Recovery = 96.72%								
As 188.979	3749.5	0.363	mg/L	0.0017	0.363	mg/L	0.0017	0.48%
QC value within limits for As 188.979 Recovery = 90.72%								
Ba 230.424	347092.0	0.996	mg/L	0.0002	0.996	mg/L	0.0002	0.02%
QC value within limits for Ba 230.424 Recovery = 99.58%								
Be 234.861	84050.9	0.0494	mg/L	0.00017	0.0494	mg/L	0.00017	0.35%
QC value within limits for Be 234.861 Recovery = 98.87%								
Ca 227.549	12562.0	9.93	mg/L	0.033	9.93	mg/L	0.033	0.33%
QC value within limits for Ca 227.549 Recovery = 99.31%								
Cd 228.802	20768.5	0.0484	mg/L	0.00025	0.0484	mg/L	0.00025	0.51%
QC value within limits for Cd 228.802 Recovery = 96.71%								
Co 228.616	38078.1	0.203	mg/L	0.0002	0.203	mg/L	0.0002	0.09%
QC value within limits for Co 228.616 Recovery = 101.66%								
Cr 267.716	168375.0	0.506	mg/L	0.0001	0.506	mg/L	0.0001	0.02%
QC value within limits for Cr 267.716 Recovery = 101.21%								
Cu 327.396	200683.9	0.494	mg/L	0.0031	0.494	mg/L	0.0031	0.63%
QC value within limits for Cu 327.396 Recovery = 98.83%								
Fe 261.387	91416.1	4.09	mg/L	0.000	4.09	mg/L	0.000	0.01%
QC value within limits for Fe 261.387 Recovery = 102.16%								
Mg 279.079	574255.3	9.69	mg/L	0.008	9.69	mg/L	0.008	0.09%
QC value within limits for Mg 279.079 Recovery = 96.89%								
Mn 257.610	1067152.1	0.498	mg/L	0.0005	0.498	mg/L	0.0005	0.11%
QC value within limits for Mn 257.610 Recovery = 99.64%								
Mo 202.030	62523.4	0.952	mg/L	0.0000	0.952	mg/L	0.0000	0.00%
QC value within limits for Mo 202.030 Recovery = 95.68%								
Ni 231.604	99219.0	0.506	mg/L	0.0004	0.506	mg/L	0.0004	0.07%
QC value within limits for Ni 231.604 Recovery = 101.20%								
Pb 220.353	12102.3	0.483	mg/L	0.0019	0.483	mg/L	0.0019	0.40%
QC value within limits for Pb 220.353 Recovery = 96.51%								
Sb 206.833	20400.7	1.10	mg/L	0.006	1.10	mg/L	0.006	0.51%
QC value within limits for Sb 206.833 Recovery = 91.18%								
Se 196.026	3428.3	0.378	mg/L	0.0014	0.378	mg/L	0.0014	0.37%
QC value within limits for Se 196.026 Recovery = 94.44%								
Si 288.158	2572.3	0.0326	mg/L	0.00004	0.0326	mg/L	0.00004	0.11%
QC value less than the lower limit for Si 288.158 Recovery = 0.65%								
Sn 189.933	14412.5	0.884	mg/L	0.0119	0.884	mg/L	0.0119	1.35%
QC value less than the lower limit for Sn 189.933 Recovery = 88.53%								
Ti 337.280	1480604.6	0.976	mg/L	0.0021	0.976	mg/L	0.0021	0.22%
QC value within limits for Ti 337.280 Recovery = 97.66%								
Tl 190.800	6378.0	0.496	mg/L	0.0073	0.496	mg/L	0.0073	1.47%
QC value within limits for Tl 190.800 Recovery = 99.27%								
V 292.402	272238.8	0.992	mg/L	0.0013	0.992	mg/L	0.0013	0.13%
QC value within limits for V 292.402 Recovery = 99.21%								
Zn 206.200	182529.2	0.928	mg/L	0.0035	0.928	mg/L	0.0035	0.38%
QC value within limits for Zn 206.200 Recovery = 92.84%								
K 766.490	1040637.1	48.7	mg/L	0.37	48.7	mg/L	0.37	0.76%
QC value within limits for K 766.490 Recovery = 97.42%								
Na 589.592	1771605.0	48.4	mg/L	0.79	48.4	mg/L	0.79	1.64%
QC value within limits for Na 589.592 Recovery = 96.81%								
Sr 407.771	1501133.2	0.932	mg/L	0.0151	0.932	mg/L	0.0151	1.62%
QC value within limits for Sr 407.771 Recovery = 93.16%								
Sr 421.552	726960.3	0.934	mg/L	0.0148	0.934	mg/L	0.0148	1.59%
QC value within limits for Sr 421.552 Recovery = 93.38%								
Sr 460.733	21897.6	0.977	mg/L	0.0039	0.977	mg/L	0.0039	0.40%
QC value within limits for Sr 460.733 Recovery = 97.71%								

QC Failed. Continue with analysis.

Sequence No.: 35 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 5/24/2001 1:20:23 PM**
Analyst:

1509

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2845041.5						47223.71	1.66%
Ag 328.068	6.5	0.00001	mg/L	0.000035	0.00001	mg/L	0.000035	368.35%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	-13.4	-0.00080	mg/L	0.000690	-0.00080	mg/L	0.000690	85.91%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	0.6	0.00006	mg/L	0.000076	0.00006	mg/L	0.000076	134.98%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	69.3	0.00020	mg/L	0.000275	0.00020	mg/L	0.000275	138.15%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	19.0	0.00001	mg/L	0.000001	0.00001	mg/L	0.000001	11.44%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	0.9	0.00069	mg/L	0.000136	0.00069	mg/L	0.000136	19.70%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-13.3	-0.00003	mg/L	0.000003	-0.00003	mg/L	0.000003	8.98%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	15.2	0.00008	mg/L	0.000006	0.00008	mg/L	0.000006	6.65%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	27.1	0.00008	mg/L	0.000002	0.00008	mg/L	0.000002	2.85%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-32.3	-0.00008	mg/L	0.000101	-0.00008	mg/L	0.000101	127.55%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	49.2	0.00219	mg/L	0.000433	0.00219	mg/L	0.000433	19.79%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	-39.4	-0.00067	mg/L	0.000010	-0.00067	mg/L	0.000010	1.45%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	11.7	0.00001	mg/L	0.000000	0.00001	mg/L	0.000000	1.41%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	85.0	0.00129	mg/L	0.000127	0.00129	mg/L	0.000127	9.77%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	11.3	0.00006	mg/L	0.000001	0.00006	mg/L	0.000001	1.77%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-3.7	-0.00014	mg/L	0.000077	-0.00014	mg/L	0.000077	53.54%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-4.0	-0.00022	mg/L	0.000287	-0.00022	mg/L	0.000287	133.51%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	18.1	0.00201	mg/L	0.000505	0.00201	mg/L	0.000505	25.14%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	211.7	0.00199	mg/L	0.000238	0.00199	mg/L	0.000238	11.97%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	33.2	0.00204	mg/L	0.000602	0.00204	mg/L	0.000602	29.46%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	62.5	0.00005	mg/L	0.000024	0.00005	mg/L	0.000024	50.19%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	12.6	0.00096	mg/L	0.000005	0.00096	mg/L	0.000005	0.55%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	-45.1	-0.00016	mg/L	0.000048	-0.00016	mg/L	0.000048	29.18%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	42.8	0.00022	mg/L	0.000013	0.00022	mg/L	0.000013	5.84%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	-203.4	-0.00952	mg/L	0.004194	-0.00952	mg/L	0.004194	44.04%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	-1366.6	-0.0373	mg/L	0.00342	-0.0373	mg/L	0.00342	9.15%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-9.6	0.00273	mg/L	0.000009	0.00273	mg/L	0.000009	0.32%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	20.1	0.00495	mg/L	0.000006	0.00495	mg/L	0.000006	0.11%
Sample signal is less than that of the lowest standard.								
QC value within limits for Sr 421.552 Recovery = Not calculated								
Sr 460.733	-17.6	0.00360	mg/L	0.001654	0.00360	mg/L	0.001654	45.89%
QC value within limits for Sr 460.733 Recovery = Not calculated								

All analytes passed QC.

Metals

Date: 5/24/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: 98106 98123 98190

	Analyst
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
icsa/icsab/cri	X
Blank/LCS	X
MS/MSD	X
Postspike/Serial Dilution	X
Duplicate	X
Record Results	X
Excel Spreadsheets	X
Results Reporting / Data Qualifiers	X
Calculations & Correct Factors	X
Reanalysis Assign	NA
Instrument Failure/Reassign	NA
Case Narrative	X
QA Approval - Seedpak 3	NA
Check for Completeness	X
Level IV Data	

Primary Reviewer Initials & Date Checked JYH 5/24/01

Secondary Reviewer Initials & Date Checked [illegible] 5/24/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/24 5/25

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST JYH DATE 5-24-01 TIME 10:12
METHOD # 6020A SOP # ME700 Rev # 1 WORK GROUP # 98106, 98123, 98190
CAL STD SOURCE M2-9-50A ICV/CCV SOURCE M2-10-2B
ICS AB SOURCE M2-9-42B ICS A SOURCE M2-9-42A POST SPK SOURCE MSF8-6
Instrument ID: TJA IRIS: Data File: 052401 Perkin Elmer Optima: Perkin Elmer ELAN: ✓

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	50				27.	052731 6 PP	10	0.52/50	WG 97429-07
	1 1/10				28.	04		0.50	01
	2 1/5				29.	05 S		0.50	05
	3				30.	06 SD		0.53	06
	ICV				31.	052731 04 PS		0.50	
	ICB				32.	04 SD2	50	0.50	
	ICSA				33.	01	10	0.49	
	ICSAB			LW/LB	34.	02		0.51	
1.	PBW 6N		40/50	WG 98063-03	35.	03		0.51	LW/LB
2.	SPLP BLK 5-23				36.	07		0.49	
3.	LCSW 6N	4		04	37.	08		0.53	
4.	0547111	2		02	38.	09		0.51	
5.	11 DP			07	39.	12		0.50	
6.	12			01	40.	13		0.53	
7.	12 S			05	41.	14		0.50	
8.	12 SD			06	42.	17		0.48	
9.	12 PS				43.	18		0.50	
10.	12 SDL	10		LW/LB	44.	ICSA			
11.	01	2			45.	ICSAB			2 x LW/LB x 2
12.	02				46.	0527307	10	0.49/50	
13.	03				47.	08		0.53	
14.	04				48.	09		0.51	
15.	05				49.	12		0.50	
16.	06				50.	13		0.53	
17.	07				51.	14		0.50	
18.	08				52.	17		0.48	
19.	09				53.	18		0.50	
20.	10			LW/LB	54.	ICSA			JYH 5/24/01
21.	04	20			55.	ICSAB			LW/LB
22.	PBS PJ	10	0.50/50	WG 97429-03	56.	PBW 62		40/50	WG 97853-03
23.	LCSS PJ	10		04	57.	SPLP 5-20			
24.	ICSA				58.	LCSW 62	4		04
25.	ICSAB			LW/LB	59.	0543317	2		
26.	052731 5	10	0.52/50	WG 97429-02	60.	17 DP	2		

Reviewed by: Lwit

Comments:

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST JYH DATE 5-24-01 TIME 10:12
METHOD # 6020A SOP # ME700 Rev # 1 WORK GROUP # 98106, 98123 98190
CAL STD SOURCE M1-9-50A ICV/CCV SOURCE M2-10-2B
ICS AB SOURCE M1-9-42B ICS A SOURCE M1-9-42A POST SPK SOURCE M5-18-6
Instrument ID: TJA IRIS: _____ Data File: C524O1 Perkin Elmer Optima: _____ Perkin Elmer ELAN: ✓

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.				
					28.				
					29.				
					30.				
					31.				
					32.				
					33.				
					34.				
1.	0543318	2	40/50	WG97853-01	35.				
2.	18S	"	"	05	36.				
3.	18SD	"	"	06	37.				
4.	18PS	"	"	CCV/CCB	38.				
5.	18SDL	10			39.				
6.	04	2			40.				
7.	05	"			41.				
8.	06	"			42.				
9.	07SDL	10			43.				
10.	08SDL	10			44.				
11.	09	2			45.				
12.	10	"			46.				
13.	11	"			47.				
14.	12	"		CCV/CCB	48.				
15.	13	"			49.				
16.	14	"			50.				
17.	15	"			51.				
18.	16	"	"		52.				
19.	0540411				53.				
20.	ICSA				54.				
21.	ICSAB			CCV/CCB	55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.		JYH	5/24/01	

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank

FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/24/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Antimony	0	22.062	10	68319	20	140798	100	701962			1.00000	
Selenium	0	137.1	10	2968.2	20	6039.7	100	28538			0.99996	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICV Time: 10:25 AM
CCV1 Time: 10:46 AM
CCV2 Time: 11:47 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.0	88.0	50	49.2	98.4	44.3	88.6	*
Antimony	50	48.4	96.8	50	48.8	97.6	47.3	94.6	
Arsenic	50	49.4	98.8	50	48.3	96.6	47.0	94.0	
Barium	50	42.7	85.4	50	46.3	92.6	43.8	87.6	*
Beryllium	50	44.3	88.6	50	41.9	83.8	45.2	90.4	*
Cadmium	50	49.3	98.6	50	49.6	99.2	48.3	96.6	
Calcium	5000	5150	103.0	5000	4860	97.2	4300	86.0	*
Chromium	50	45.8	91.6	50	36.5	73.0	39.2	78.4	*
Cobalt	50	49.6	99.2	50	49.6	99.2	49.4	98.8	
Copper	50	51.1	102.2	50	50.1	100.2	51.2	102.4	
Iron	5000	5110	102.2	5000	4600	92.0	4640	92.8	
Lead	50	50.5	101.0	50	49.8	99.6	50.1	100.2	
Magnesium	5000	4690	93.8	5000	4780	95.6	5010	100.2	
Manganese	50	48.2	96.4	50	46.1	92.2	50.5	101.0	
Nickel	50	47.9	95.8	50	48.3	96.6	46.7	93.4	
Potassium	5000	4670	93.4	5000	4670	93.4	5200	104.0	
Selenium	50	51.0	102.0	50	50.1	100.2	49.8	99.6	
Silver	50	51.6	103.2	50	48.8	97.6	50.3	100.6	
Sodium	5000	4460	89.2	5000	4530	90.6	4830	96.6	*
Thallium	50	49.5	99.0	50	49.1	98.2	48.9	97.8	
Vanadium	50	49.5	99.0	50	49.6	99.2	52.7	105.4	
Zinc	50	48.2	96.4	50	49.3	98.6	53.4	106.8	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICV Time: 10:25 AM
CCV1 Time: 12:54 PM
CCV2 Time: 1:30 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.0	88.0	50	51.8	103.6	46.0	92.0	*
Antimony	50	48.4	96.8	50	47.4	94.8	45.5	91.0	
Arsenic	50	49.4	98.8	50	47.2	94.4	46.3	92.6	
Barium	50	42.7	85.4	50	45.4	90.8	42.1	84.2	*
Beryllium	50	44.3	88.6	50	48.1	96.2	49.5	99.0	*
Cadmium	50	49.3	98.6	50	49.1	98.2	46.9	93.8	
Calcium	5000	5150	103.0	5000	4780	95.6	4880	97.6	
Chromium	50	45.8	91.6	50	42.0	84.0	34.9	69.8	*
Cobalt	50	49.6	99.2	50	49.7	99.4	46.4	92.8	
Copper	50	51.1	102.2	50	52.7	105.4	49.2	98.4	
Iron	5000	5110	102.2	5000	4390	87.8	4220	84.4	*
Lead	50	50.5	101.0	50	48.5	97.0	48.1	96.2	
Magnesium	5000	4690	93.8	5000	5130	102.6	5160	103.2	
Manganese	50	48.2	96.4	50	50.2	100.4	50.6	101.2	
Nickel	50	47.9	95.8	50	48.6	97.2	47.2	94.4	
Potassium	5000	4670	93.4	5000	4780	95.6	4680	93.6	
Selenium	50	51.0	102.0	50	48.9	97.8	48.0	96.0	
Silver	50	51.6	103.2	50	47.9	95.8	47.8	95.6	
Sodium	5000	4460	89.2	5000	5180	103.6	5050	101.0	*
Thallium	50	49.5	99.0	50	47.5	95.0	46.2	92.4	
Vanadium	50	49.5	99.0	50	53.9	107.8	52.1	104.2	
Zinc	50	48.2	96.4	50	52.5	105.0	49.3	98.6	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICV Time: 10:25 AM
CCV1 Time: 2:36 PM
CCV2 Time: 3:53 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.0	88.0	50	56.3	112.6	58.6	117.2	*
Antimony	50	48.4	96.8	50	46.8	93.6	48.0	96.0	
Arsenic	50	49.4	98.8	50	47.1	94.2	47.8	95.6	
Barium	50	42.7	85.4	50	47.1	94.2	47.2	94.4	*
Beryllium	50	44.3	88.6	50	52.4	104.8	52.5	105.0	*
Cadmium	50	49.3	98.6	50	48.5	97.0	48.9	97.8	
Calcium	5000	5150	103.0	5000	5010	100.2	5480	109.6	
Chromium	50	45.8	91.6	50	34.2	68.4	45.9	91.8	*
Cobalt	50	49.6	99.2	50	50.0	100.0	50.2	100.4	
Copper	50	51.1	102.2	50	49.4	98.8	49.9	99.8	
Iron	5000	5110	102.2	5000	4420	88.4	4630	92.6	*
Lead	50	50.5	101.0	50	49.3	98.6	49.5	99.0	
Magnesium	5000	4690	93.8	5000	5330	106.6	5530	110.6	*
Manganese	50	48.2	96.4	50	51.5	103.0	54.0	108.0	
Nickel	50	47.9	95.8	50	48.8	97.6	50.4	100.8	
Potassium	5000	4670	93.4	5000	5080	101.6	5290	105.8	
Selenium	50	51.0	102.0	50	47.9	95.8	48.8	97.6	
Silver	50	51.6	103.2	50	47.4	94.8	48.4	96.8	
Sodium	5000	4460	89.2	5000	5250	105.0	5620	112.4	*
Thallium	50	49.5	99.0	50	47.5	95.0	48.4	96.8	
Vanadium	50	49.5	99.0	50	55.4	110.8	57.7	115.4	*
Zinc	50	48.2	96.4	50	48.6	97.2	53.8	107.6	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICV Time: 10:25 AM
CCV1 Time: 5:15 PM
CCV2 Time: 6:17 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.0	88.0	50	54.5	109.0	52.2	104.4	*
Antimony	50	48.4	96.8	50	48.0	96.0	48.0	96.0	
Arsenic	50	49.4	98.8	50	47.3	94.6	47.6	95.2	
Barium	50	42.7	85.4	50	41.9	83.8	44.9	89.8	*
Beryllium	50	44.3	88.6	50	54.8	109.6	53.1	106.2	*
Cadmium	50	49.3	98.6	50	49.4	98.8	49.6	99.2	
Calcium	5000	5150	103.0	5000	5150	103.0	4780	95.6	
Chromium	50	45.8	91.6	50	43.7	87.4	49.4	98.8	*
Cobalt	50	49.6	99.2	50	54.5	109.0	53.3	106.6	
Copper	50	51.1	102.2	50	53.8	107.6	52.1	104.2	
Iron	5000	5110	102.2	5000	3860	77.2	3960	79.2	*
Lead	50	50.5	101.0	50	44.8	89.6	47.8	95.6	*
Magnesium	5000	4690	93.8	5000	5950	119.0	5600	112.0	*
Manganese	50	48.2	96.4	50	56.3	112.6	57.3	114.6	*
Nickel	50	47.9	95.8	50	52.3	104.6	51.4	102.8	
Potassium	5000	4670	93.4	5000	5050	101.0	4880	97.6	
Selenium	50	51.0	102.0	50	47.3	94.6	47.7	95.4	
Silver	50	51.6	103.2	50	50.6	101.2	48.7	97.4	
Sodium	5000	4460	89.2	5000	5730	114.6	5490	109.8	*
Thallium	50	49.5	99.0	50	43.6	87.2	46.0	92.0	*
Vanadium	50	49.5	99.0	50	63.5	127.0	59.1	118.2	*
Zinc	50	48.2	96.4	50	58.7	117.4	52.5	105.0	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICV Time: 10:25 AM
CCV1 Time: 7:24 PM
CCV2 Time:

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.0	88.0	50	46.3	92.6			*
Antimony	50	48.4	96.8	50	47.8	95.6			
Arsenic	50	49.4	98.8	50	47.7	95.4			
Barium	50	42.7	85.4	50	43.0	86.0			*
Beryllium	50	44.3	88.6	50	49.0	98.0			*
Cadmium	50	49.3	98.6	50	49.3	98.6			
Calcium	5000	5150	103.0	5000	4140	82.8			*
Chromium	50	45.8	91.6	50	51.1	102.2			
Cobalt	50	49.6	99.2	50	51.7	103.4			
Copper	50	51.1	102.2	50	53.0	106.0			
Iron	5000	5110	102.2	5000	3680	73.6			*
Lead	50	50.5	101.0	50	48.8	97.6			
Magnesium	5000	4690	93.8	5000	4890	97.8			
Manganese	50	48.2	96.4	50	54.8	109.6			
Nickel	50	47.9	95.8	50	49.2	98.4			
Potassium	5000	4670	93.4	5000	4730	94.6			
Selenium	50	51.0	102.0	50	48.2	96.4			
Silver	50	51.6	103.2	50	49.9	99.8			
Sodium	5000	4460	89.2	5000	5230	104.6			*
Thallium	50	49.5	99.0	50	47.1	94.2			
Vanadium	50	49.5	99.0	50	55.5	111.0			*
Zinc	50	48.2	96.4	50	49.5	99.0			

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Thursday, May 24, 2001
UNITS:	ug/L
ICB Time:	10:30:53
CCB1 Time:	10:51:28
CCB2 Time:	11:53:02
CCB3 Time:	12:59:15

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1		CCB2		CCB3	
			1		2		3	
Aluminum	-0.378		-0.386		0.0642		-0.1	
Antimony	0.13		0.10		0.129		0.126	
Arsenic	-0.0003		0.0011		0.0149		-0.0349	
Barium	-0.0124		0.0019		-0.0124		0.0402	
Beryllium	-0.13		0.149		-0.13		0.112	
Cadmium	0.0009		-0.0009		0.0005		0.0006	
Calcium	0		0		33.3		0	
Chromium	-17.5		-19.6		-21.5		-22.4	
Cobalt	-0.0065		0.0087		-0.0043		-0.0065	
Copper	0.0184		0.0269		-0.0091		-0.0091	
Iron	13.6		16.0		-3.90		4.7	
Lead	0.0012		0.0008		0.0005		0.0024	
Magnesium	-0.10		-0.20		0.10		0.3	
Manganese	-0.0403		-0.0458		-0.0541		-0.0739	
Nickel	0.01		0.0298		-0.0099		0.0003	
Potassium	6.90		7.70		2.80		6.2	
Selenium	-0.0024		0.0069		0.0044		-0.09	
Silver	0		-0.0028		0.0001		0.0001	
Sodium	0.70		0.40		1.10		0.5	
Thallium	0.0012		0.0005		-0.0045		-0.0048	
Vanadium	-0.0697		-0.136		0.0683		-0.0864	
Zinc	0.402		0		0		0	

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Thursday, May 24, 2001
UNITS:	ug/L
ICB Time:	10:30:53
CCB1 Time:	13:35:52
CCB2 Time:	14:41:54
CCB3 Time:	16:00:45

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	-0.378	-0.171	-0.238	-0.329
Antimony	0.13	0.136	0.13	0.139
Arsenic	-0.0003	-0.0129	-0.0266	-0.0304
Barium	-0.0124	0.0146	-0.0124	0.0143
Beryllium	-0.13	-0.13	-0.13	-0.13
Cadmium	0.0009	0.0008	0.0007	0.0007
Calcium	0	15.7	0	0
Chromium	-17.5	-22.2	-21.9	-22.8
Cobalt	-0.0065	-0.0065	-0.0065	-0.0065
Copper	0.0184	-0.0091	-0.0004	0.0085
Iron	13.6	2.00	3.10	4.4
Lead	0.0012	0.0035	0.0029	-0.0006
Magnesium	-0.10	0	0.10	-0.1
Manganese	-0.0403	-0.0582	-0.0672	-0.069
Nickel	0.01	0.0487	-0.0002	0.0189
Potassium	6.90	2.20	-1.60	6.2
Selenium	-0.0024	-0.0508	-0.0975	-0.116
Silver	0	-0.0028	-0.0028	0.0085
Sodium	0.70	0.70	0.60	1
Thallium	0.0012	-0.0039	-0.006	-0.0061
Vanadium	-0.0697	0.0393	0.115	0.119
Zinc	0.402	0.266	0	0.132

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Thursday, May 24, 2001
UNITS:	ug/L
ICB Time:	10:30:53
CCB1 Time:	17:20:39
CCB2 Time:	18:22:18
CCB3 Time:	19:29:18

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	-0.378	0.112	-0.154	-0.243
Antimony	0.13	0.148	0.136	0.139
Arsenic	-0.0003	-0.0115	-0.0253	-0.0057
Barium	-0.0124	0.0026	0.0142	-0.0124
Beryllium	-0.13	-0.13	-0.13	-0.13
Cadmium	0.0009	0.0002	0.0006	-0.0001
Calcium	0	15.2	0	0
Chromium	-17.5	-22.0	-23.1	-22
Cobalt	-0.0065	-0.002	-0.0003	-0.0044
Copper	0.0184	0.0098	-0.0091	0.035
Iron	13.6	0.20	0.50	4
Lead	0.0012	0.0002	0.0023	0.0007
Magnesium	-0.10	-0.20	0	-0.1
Manganese	-0.0403	-0.0535	-0.0624	-0.0486
Nickel	0.01	-0.0099	-0.0099	-0.0099
Potassium	6.90	-8.40	-1.80	9.7
Selenium	-0.0024	-0.0836	-0.0594	-0.0372
Silver	0	-0.0028	-0.0028	0.0002
Sodium	0.70	0.70	0.60	1.5
Thallium	0.0012	-0.0065	-0.0062	-0.0034
Vanadium	-0.0697	0.0296	-0.0363	0.0717
Zinc	0.402	0.278	0.126	0

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Thursday, May 24, 2001

UNITS: ug/L

ICSA Time: 10:36:01
ICSAB Time: 10:41:11

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	8750	9560.0	95.6	
Antimony	0	0	0	0.1		
Arsenic	0	10	0	9.5	94.7	
Barium	0	0	0	0.1		
Beryllium	0	0	0	-0.1		
Cadmium	0	10	0	9.9	98.7	
Calcium	30000	30000	27000	28000.0	93.3	
Chromium	0	20	-17	5.2	25.9	*
Cobalt	0	20	0	19.0	95.0	
Copper	0	20	0	19.6	98.0	
Iron	25000	25000	22000	22100.0	88.4	
Lead	0	0	0	0.1		
Magnesium	10000	10000	9290	9030.0	90.3	
Manganese	0	20	0	19.0	95.0	
Nickel	0	20	1	18.8	94.0	
Potassium	10000	10000	8990	8930.0	89.3	
Selenium	0	10	0	9.7	96.6	
Silver	0	5	0	4.5	89.8	
Sodium	25000	25000	21700	21900.0	87.6	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	19.2	96.0	
Zinc	0	10	2	9.2	91.8	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 5/21/2001

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	1	0.500
Arsenic	75	1	0.500
Cadmium	114	0.5	0.021
Chromium	52	4	0.793
Cobalt	59	0.8	0.043
Copper	65	2	0.181
Lead	208	1	0.500
Manganese	55	2	0.487
Nickel	60	2	0.063
Selenium	82	1	0.500
Silver	107	2	0.036
Thallium	203	0.2	0.100
Vanadium	51	5	0.471

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;a/n 110163351

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	581	2064	0.694	
Li	7.016	6.979	1574	2060	0.679	
Co	58.933	58.879	14265	1950	0.704	
In	114.904	114.879	27911	1939	0.716	
Tl	204.975	204.975	49692	2242	0.696	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.919
3.000	0.788
4.000	19.688
5.000	18.531
6.000	1.013
7.000	0.518 ✓
8.000	47.140
9.000	26.938
58.000	1.783
59.000	1.531 ✓
60.000	19.108
114.000	1.212
115.000	1.609 ✓
116.000	3.756
204.000	1.358
205.000	1.551 ✓
206.000	0.808

Report Date/Time: Thursday, May 24, 2001 09:38:30
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Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	583	2064	0.697	
Li	7.016	7.029	1576	2060	0.681	
Co	58.933	58.928	14263	1950	0.710	
In	114.904	114.928	27916	1939	0.714	
Tl	204.975	204.975	49691	2242	0.694	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.672
3.000	1.049
4.000	4.834
5.000	23.702
6.000	2.068
7.000	1.979 ✓
8.000	42.173
9.000	42.216
58.000	1.245
59.000	1.175 ✓
60.000	9.286
114.000	1.807
115.000	0.571 ✓
116.000	9.186
204.000	4.618
205.000	0.403 ✓
206.000	0.423

Report Date/Time: Thursday, May 24, 2001 09:40:36
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	585	2064	0.690	
Li	7.016	7.029	1578	2060	0.680	
Co	58.933	58.928	14261	1950	0.711	
In	114.904	114.929	27921	1939	0.720	
Tl	204.975	204.975	49691	2242	0.694	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	2.765	
3.000	1.096	
4.000	13.862	
5.000	21.542	
6.000	2.134	
7.000	1.956	✓
8.000	35.297	
9.000	20.808	
58.000	2.868	
59.000	0.933	✓
60.000	25.478	
114.000	2.235	
115.000	0.936	✓
116.000	5.649	
204.000	2.841	
205.000	0.598	✓
206.000	1.101	

Report Date/Time: Thursday, May 24, 2001 09:42:41
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Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.977	577	2064	0.696	
Li	7.016	7.029	1580	2060	0.684	
Co	58.933	58.929	14259	1950	0.712	
In	114.904	114.929	27926	1939	0.712	
Tl	204.975	204.975	49691	2242	0.696	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.674	
3.000	1.982	
4.000	14.351	
5.000	28.468	
6.000	2.383	
7.000	0.927	✓
8.000	41.247	
9.000	32.904	
58.000	0.834	
59.000	1.661	✓
60.000	23.106	
114.000	2.258	
115.000	1.613	✓
116.000	7.228	
204.000	1.026	
205.000	1.031	✓
206.000	1.127	

Report Date/Time: Thursday, May 24, 2001 09:46:18
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Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, May 24, 2001 09:48:39
Sample Description:
Method File: C:\elandata\Method\Service\6020 methods\6020 daily.mth
Dataset File: C:\elandata\Dataset\052401\Sample.005
Tuning File: C:\elandata\Tuning\010201.tun
Optimization File: c:\elandata\Optimize\6020.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 70
Current Dead Time (ns): 70

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	48777.4	48777.397	561.651	1.2
	Rh	102.9	316522.0	316522.026	1996.648	0.6
	Pb	208.0	241821.0	241821.034	997.488	0.4
⌈>	Ba	137.9	325853.3	325853.300	3727.379	1.1
⌊	Ba++	69.0	7660.9	0.024	0.000	1.2
⌈>	Ce	139.9	398108.8	398108.781	4468.677	1.1
⌊	CeO	155.9	11524.1	0.029	0.001	2.9
	Bkgd	220.0	10.6	10.550	1.204	11.4

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
9.00	Lens Voltage
1450.00	ICP RF Power
-1850.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	53	6.3	16.0
Co	59	53	8.5	140737.9
Rh	103	53	9.5	290267.8
Pb	208	53	11.3	312869.4

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, May 24, 2001 10:12:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11676.311					ug/L
⌈	Be	9	33.367					ug/L
|	Al	27	4668.581					ug/L
⌊>	Sc-1	45	371434.133					ug/L
⌈	V	51	3582.597					ug/L
|	Cr	52	11687.947					ug/L
|	Cr	53	28392.472					ug/L
|	Mn	55	1535.036					ug/L
|	Co	59	100.101					ug/L
|	Ni	60	33.367					ug/L
|	Cu	65	33.367					ug/L
|	Zn	66	0.000					ug/L
\>	Ge	72	1012187.731					ug/L
|	As	75	179.693					ug/L
|	Se	77	560.022					ug/L
⌊	Se	82	137.097					ug/L
	Y	89	839239.786					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	33.367					ug/L
|	Cd	114	20.703					ug/L
\>	In	115	905702.195					ug/L
⌊	Sb	123	22.062					ug/L
⌈	Ba	135	33.367					ug/L
|	Ce	140	0.000					ug/L
⌊>	Tb	159	911496.464					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	95.335					ug/L
|	Tl	205	192.671					ug/L
|	Pb	206	50.005					ug/L
|	Pb	207	36.670					ug/L
|	Pb	208	175.344					ug/L
⌊>	Bi	209	793944.654					ug/L
⌈	Na	23	3334.174					mg/L
|	Mg	24	666.713					mg/L
|	K	39	592614.840					mg/L
|	Ca	43	0.000					mg/L
|	Fe	54	34422.329					mg/L
|	Fe	57	6670.823					mg/L

>	Sc	45	371434.133	mg/L
	Cl	35	638570.574	mg/L
	Kr	83	190.338	mg/L
	U	238	0.000	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72					
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115					
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159					
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Thursday, May 24, 2001 10:13:03

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, May 24, 2001 10:15:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14347.979	2671.67				ug/L
⌈	Be	9	2569.719	0.01	10.0000	3.065	30.650	ug/L
|	Al	27	50512.355	0.12	10.0000	0.972	9.717	ug/L
⌊>	Sc-1	45	382400.704	382400.70				ug/L
⌈	V	51	119773.771	0.11	10.0000	0.699	6.992	ug/L
|	Cr	52	125314.179	0.11	10.0000	0.193	1.935	ug/L
|	Cr	53	40113.585	0.01	10.0000	4.745	47.448	ug/L
|	Mn	55	185258.376	0.18	10.0000	0.544	5.438	ug/L
|	Co	59	145681.758	0.14	10.0000	0.127	1.266	ug/L
|	Ni	60	33210.452	0.03	10.0000	0.821	8.206	ug/L
|	Cu	65	41058.899	0.04	10.0000	0.593	5.926	ug/L
|	Zn	66	20363.503	0.02	10.0000	2.481	24.810	ug/L
| >	Ge	72	1027868.160	1027868.16				ug/L
|	As	75	27213.012	0.03	10.0000	0.051	0.514	ug/L
|	Se	77	2792.546	0.00	10.0000	0.243	2.428	ug/L
⌊	Se	82	2968.227	0.00	10.0000	0.292	2.922	ug/L
	Y	89	824979.285	-14260.50				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	119985.755	0.13	10.0000	0.405	4.048	ug/L
|	Cd	114	70751.889	0.08	10.0000	0.127	1.271	ug/L
| >	In	115	904867.312	904867.31				ug/L
⌊	Sb	123	68319.435	0.08	10.0000	0.119	1.190	ug/L
⌈	Ba	135	23328.376	0.03	10.0000	1.337	13.375	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	923430.502	923430.50				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	109006.289	108910.95	10.0000	0.116	1.162	ug/L
|	Tl	205	271424.969	271232.30	10.0000	0.186	1.858	ug/L
|	Pb	206	94709.954	94659.95	10.0000	0.168	1.680	ug/L
|	Pb	207	79120.630	79083.96	10.0000	0.325	3.250	ug/L
|	Pb	208	370595.729	370420.39	10.0000	0.164	1.642	ug/L
⌊>	Bi	209	798255.861	798255.86				ug/L
⌈	Na	23	3575204.726	9.38	1.0000	0.047	4.726	mg/L
|	Mg	24	2947924.946	7.80	1.0000	0.149	14.896	mg/L
|	K	39	10539841.589	26.10	1.0000	0.063	6.323	mg/L
|	Ca	43	16354.105	0.04	1.0000	0.377	37.681	mg/L
|	Fe	54	1059640.532	2.71	1.0000	0.158	15.768	mg/L
|	Fe	57	418592.558	1.09	1.0000	0.106	10.640	mg/L

>	Sc	45	382400.704	382400.70	mg/L
	Cl	35	385137.039	-253433.54	mg/L
	Kr	83	191.338	1.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Thursday, May 24, 2001 10:15:50

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, May 24, 2001 10:17:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14681.756	3005.44				ug/L
⌈	Be	9	4940.103	0.01	20.3166	6.927	34.096	ug/L
|	Al	27	103073.689	0.29	20.7384	1.437	6.929	ug/L
⌊>	Sc-1	45	338156.169	338156.17				ug/L
⌈	V	51	242120.876	0.24	20.1578	0.873	4.328	ug/L
|	Cr	52	231490.036	0.22	19.9244	0.763	3.827	ug/L
|	Cr	53	36428.156	0.01	14.7448	13.179	89.383	ug/L
|	Mn	55	371483.309	0.36	20.0787	0.467	2.324	ug/L
|	Co	59	315472.795	0.31	20.3635	1.372	6.737	ug/L
|	Ni	60	67181.862	0.07	20.0976	0.889	4.422	ug/L
|	Cu	65	77259.756	0.08	19.8068	0.784	3.960	ug/L
|	Zn	66	51856.958	0.05	20.9383	2.905	13.872	ug/L
|>	Ge	72	1014412.611	1014412.61				ug/L
|	As	75	54583.143	0.05	20.0779	0.260	1.295	ug/L
|	Se	77	4984.407	0.00	20.0319	1.154	5.760	ug/L
⌊	Se	82	6039.708	0.01	20.2185	0.468	2.315	ug/L
	Y	89	875409.808	36170.02				ug/L
⌈	Rh	103	200.203	0.00				ug/L
|	Ag	107	250358.622	0.28	20.1822	0.318	1.577	ug/L
|	Cd	114	143376.601	0.16	20.0680	0.169	0.841	ug/L
|>	In	115	901398.669	901398.67				ug/L
⌊	Sb	123	140797.548	0.16	20.1344	0.142	0.706	ug/L
⌈	Ba	135	48848.755	0.06	20.6269	0.625	3.032	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	819469.581	819469.58				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	218367.589	218272.25	20.0083	0.291	1.456	ug/L
|	Tl	205	549849.980	549657.31	20.0525	0.174	0.868	ug/L
|	Pb	206	190729.965	190679.96	20.0286	0.622	3.106	ug/L
|	Pb	207	162661.558	162624.89	20.1102	0.546	2.713	ug/L
|	Pb	208	751302.559	751127.21	20.0549	0.310	1.546	ug/L
⌊>	Bi	209	792926.151	792926.15				ug/L
⌈	Na	23	7481297.475	22.14	2.0631	0.175	8.480	mg/L
|	Mg	24	5525914.213	16.36	2.0185	0.132	6.557	mg/L
|	K	39	20401555.109	58.76	2.0456	0.099	4.849	mg/L
|	Ca	43	35086.713	0.10	2.0770	0.237	11.434	mg/L
|	Fe	54	1915923.793	5.58	2.0114	0.117	5.828	mg/L
|	Fe	57	737379.219	2.17	1.9989	0.220	11.014	mg/L

⌊>	Sc	45	338156.169	338156.17	mg/L
	Cl	35	309279.208	-329291.37	mg/L
	Kr	83	183.671	-6.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Thursday, May 24, 2001 10:18:38

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, May 24, 2001 10:20:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13346.788	1670.48				ug/L
⌈	Be	9	21588.100	0.07	99.8332	14.246	14.270	ug/L
|	Al	27	438495.523	1.40	99.9560	10.481	10.485	ug/L
|>	Sc-1	45	311684.021	311684.02				ug/L
⌈	V	51	1258812.487	1.28	100.4088	5.400	5.378	ug/L
|	Cr	52	1103849.836	1.11	100.0959	5.920	5.915	ug/L
|	Cr	53	143426.949	0.12	102.6638	6.664	6.491	ug/L
|	Mn	55	1847337.060	1.87	100.1498	3.608	3.603	ug/L
|	Co	59	1500091.752	1.52	99.9903	5.431	5.431	ug/L
|	Ni	60	328057.116	0.33	100.0561	3.530	3.528	ug/L
|	Cu	65	356849.274	0.36	99.7158	3.977	3.989	ug/L
|	Zn	66	241703.076	0.25	100.0334	8.610	8.607	ug/L
|>	Ge	72	984488.814	984488.81				ug/L
|	As	75	268813.115	0.27	100.1012	1.887	1.885	ug/L
|	Se	77	22457.933	0.02	100.1050	3.634	3.630	ug/L
⌊	Se	82	28537.543	0.03	100.0122	1.593	1.593	ug/L
	Y	89	824068.352	-15171.43				ug/L
⌈	Rh	103	1468.297	0.00				ug/L
|	Ag	107	1181725.269	1.32	99.8061	3.042	3.048	ug/L
|	Cd	114	709953.092	0.79	100.0105	2.894	2.894	ug/L
|>	In	115	894046.014	894046.01				ug/L
⌊	Sb	123	701962.181	0.79	100.0579	1.134	1.134	ug/L
⌈	Ba	135	244627.680	0.30	100.1125	1.240	1.239	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	827313.875	827313.88				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	1109998.540	1109903.21	100.0816	0.935	0.934	ug/L
|	Tl	205	2568494.362	2568301.69	99.6806	0.733	0.735	ug/L
|	Pb	206	943582.316	943532.31	99.9571	1.122	1.122	ug/L
|	Pb	207	809974.529	809937.86	100.0075	0.681	0.681	ug/L
|	Pb	208	3710524.257	3710348.91	99.9551	1.717	1.718	ug/L
⌊>	Bi	209	781440.431	781440.43				ug/L
⌈	Na	23	34261706.090	110.55	10.0139	1.341	13.390	mg/L
|	Mg	24	26473522.065	85.07	10.0226	0.632	6.306	mg/L
|	K	39	93956808.252	301.31	10.0223	0.880	8.776	mg/L
|	Ca	43	164203.642	0.53	10.0275	1.229	12.253	mg/L
|	Fe	54	7846508.971	25.13	9.9511	0.448	4.500	mg/L
|	Fe	57	3600695.248	11.55	10.0295	0.274	2.736	mg/L

\>	Sc	45	311684.021	311684.02	mg/L
	Cl	35	236177.764	-402392.81	mg/L
	Kr	83	174.337	-16.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Thursday, May 24, 2001 10:21:26

Corr. Coef.	Cr	53	Correlation Coefficient not >0.995

Sample ID: Standard 3
Report Date/Time: Thursday, May 24, 2001 10:21:26
Page 3

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, May 24, 2001 10:25:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.204	1001.89				ug/L
⌈	Be	9	10217.555	0.03	44.3208	0.877	1.979	ug/L
|	Al	27	208350.152	0.62	44.0289	2.006	4.557	ug/L
|>	Sc-1	45	332279.975	332279.97				ug/L
⌈	V	51	625729.951	0.63	49.5085	3.397	6.862	ug/L
|	Cr	52	563077.497	0.56	50.2877	2.280	4.533	ug/L
|	Cr	53	79783.442	0.05	45.8204	10.729	23.415	ug/L
|	Mn	55	893754.689	0.90	48.1531	2.194	4.557	ug/L
|	Co	59	748393.984	0.76	49.5983	2.019	4.071	ug/L
|	Ni	60	157916.395	0.16	47.8958	1.035	2.160	ug/L
|	Cu	65	183853.120	0.19	51.0829	2.234	4.374	ug/L
|	Zn	66	117289.903	0.12	48.2466	2.130	4.415	ug/L
|>	Ge	72	989877.923	989877.92				ug/L
|	As	75	133454.352	0.13	49.3910	1.230	2.491	ug/L
|	Se	77	11331.653	0.01	48.9936	1.896	3.870	ug/L
_	Se	82	14684.981	0.01	50.9589	1.701	3.339	ug/L
	Y	89	838143.812	-1095.97				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	622854.249	0.68	51.5894	1.014	1.965	ug/L
|	Cd	114	357209.436	0.39	49.3421	0.314	0.636	ug/L
|>	In	115	911607.915	911607.92				ug/L
_	Sb	123	346447.181	0.38	48.4394	0.991	2.046	ug/L
⌈	Ba	135	112693.957	0.13	42.6978	2.106	4.931	ug/L
|	Ce	140	0.000	0.00				ug/L
_>	Tb	159	894827.624	894827.62				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	549462.096	549366.76	49.5372	0.499	1.008	ug/L
|	Tl	205	1366924.654	1366731.98	53.0455	1.558	2.937	ug/L
|	Pb	206	501656.710	501606.70	53.1398	1.304	2.454	ug/L
|	Pb	207	386323.791	386287.12	47.6970	0.497	1.043	ug/L
|	Pb	208	1873063.538	1872888.19	50.4547	0.386	0.765	ug/L
_>	Bi	209	787638.680	787638.68				ug/L
⌈	Na	23	16331879.528	49.20	4.4571	0.317	7.122	mg/L
|	Mg	24	13210749.930	39.82	4.6908	0.277	5.910	mg/L
|	K	39	46862978.072	140.54	4.6749	0.492	10.533	mg/L
|	Ca	43	90240.464	0.27	5.1549	0.683	13.246	mg/L
|	Fe	54	3921180.500	11.71	4.6390	0.126	2.724	mg/L
|	Fe	57	1935826.765	5.88	5.1064	0.880	17.226	mg/L

\> Sc	45	332279.975	332279.97		mg/L
Cl	35	158448.880	-480121.69		mg/L
Kr	83	185.671	-4.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	88.642				
|	Al	27	88.058				
|>	Sc-1	45		89.459			
⌈	V	51	99.017				
|	Cr	52	100.575				
|	Cr	53	91.641				
|	Mn	55	96.306				
|	Co	59	99.197				
|	Ni	60	95.792				
|	Cu	65	102.166				
|	Zn	66	96.493				
|>	Ge	72		97.796			
|	As	75	98.782				
|	Se	77	97.987				
⌊	Se	82	101.918				
	Y	89					
⌈	Rh	103					
|	Ag	107	103.179				
|	Cd	114	98.684				
|>	In	115		100.652			
⌊	Sb	123	96.879				
⌈	Ba	135	85.396				
|	Ce	140					
|>	Tb	159		98.171			
⌈	Ho	165					
|	Tl	203	99.074				
|	Tl	205	106.091				
|	Pb	206	106.280				
|	Pb	207	95.394				
|	Pb	208	100.909				
|>	Bi	209		99.206			
⌈	Na	23	89.143				
|	Mg	24	93.817				
|	K	39	93.497				
|	Ca	43	103.098				
|	Fe	54	92.780				
|	Fe	57	102.128				
|>	Sc	45		89.459			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Thursday, May 24, 2001 10:26:35

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Ba	135	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, May 24, 2001 10:30:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13346.226	1669.91				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	2333.823	-0.01	-0.3782	0.382	100.979	ug/L
⌊>	Sc-1	45	333646.682	333646.68				ug/L
⌈	V	51	2698.262	-0.00	-0.0697	0.384	550.804	ug/L
|	Cr	52	11988.765	0.00	0.0325	0.116	355.056	ug/L
|	Cr	53	8005.230	-0.02	-17.5352	3.445	19.644	ug/L
|	Mn	55	767.476	-0.00	-0.0403	0.008	20.309	ug/L
|	Co	59	0.000	-0.00	-0.0065	0.000	0.000	ug/L
|	Ni	60	66.734	0.00	0.0100	0.017	172.120	ug/L
|	Cu	65	100.101	0.00	0.0184	0.028	149.875	ug/L
|	Zn	66	1000.210	0.00	0.4021	0.697	173.205	ug/L
|>	Ge	72	1007332.453	1007332.45				ug/L
|	As	75	177.968	-0.00	-0.0003	0.009	2682.930	ug/L
|	Se	77	303.340	-0.00	-1.1336	0.139	12.297	ug/L
⌊	Se	82	135.699	-0.00	-0.0024	0.034	1386.205	ug/L
	Y	89	881733.670	42493.88				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0000	0.005	22862.459	ug/L
|	Cd	114	27.213	0.00	0.0009	0.001	56.471	ug/L
|>	In	115	908400.172	908400.17				ug/L
⌊	Sb	123	948.510	0.00	0.1300	0.008	6.078	ug/L
⌈	Ba	135	0.000	-0.00	-0.0124	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	841140.517	841140.52				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	108.335	13.00	0.0012	0.000	36.352	ug/L
|	Tl	205	268.674	76.00	0.0029	0.001	20.099	ug/L
|	Pb	206	60.006	10.00	0.0011	0.003	299.999	ug/L
|	Pb	207	53.339	16.67	0.0021	0.001	69.282	ug/L
|	Pb	208	220.680	45.34	0.0012	0.001	67.393	ug/L
⌊>	Bi	209	807913.394	807913.39				ug/L
⌈	Na	23	5669.679	0.01	0.0007	0.001	142.028	mg/L
|	Mg	24	333.357	-0.00	-0.0001	0.000	273.556	mg/L
|	K	39	598407.104	0.21	0.0069	0.006	84.664	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	34748.835	0.01	0.0045	0.004	96.675	mg/L
|	Fe	57	11342.721	0.02	0.0136	0.006	40.409	mg/L

⌊>	Sc	45	333646.682	333646.68	mg/L
	Cl	35	150235.083	-488335.49	mg/L
	Kr	83	160.003	-30.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		89.827			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.520			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.298			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.281			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.759			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		89.827			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Thursday, May 24, 2001 10:31:41
Page 2

QC Std 2	Be	9	ICB is out of limits (+/-3*IDL)
QC Std 2	Cr	53	ICB is out of limits (+/-3*IDL)
QC Std 2	Se	77	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, May 24, 2001 10:36:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.689	4342.38				ug/L
⌈	Be	9	33.367	0.00	0.0046	0.233	5088.220	ug/L
|	Al	27	40574511.252	122.30	8752.3822	437.156	4.995	ug/L
⌊>	Sc-1	45	332597.125	332597.13				ug/L
⌈	V	51	289.984	-0.00	-0.2544	0.088	34.471	ug/L
|	Cr	52	12924.766	0.00	0.1897	0.183	96.215	ug/L
|	Cr	53	8673.065	-0.02	-16.4793	4.542	27.560	ug/L
|	Mn	55	4339.005	0.00	0.1638	0.035	21.075	ug/L
|	Co	59	1201.304	0.00	0.0767	0.014	17.868	ug/L
|	Ni	60	1735.327	0.00	0.5407	0.322	59.605	ug/L
|	Cu	65	900.968	0.00	0.2528	0.134	52.915	ug/L
|	Zn	66	4001.167	0.00	1.7211	0.432	25.108	ug/L
|>	Ge	72	946887.077	946887.08				ug/L
|	As	75	231.421	0.00	0.0245	0.029	116.471	ug/L
|	Se	77	531.353	0.00	0.0354	0.202	572.610	ug/L
⌊	Se	82	140.068	0.00	0.0432	0.057	131.974	ug/L
	Y	89	803150.628	-36089.16				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	200.203	0.00	0.0144	0.009	59.210	ug/L
|	Cd	114	2610.241	0.00	0.3710	0.020	5.344	ug/L
|>	In	115	879746.957	879746.96				ug/L
⌊	Sb	123	1159.198	0.00	0.1648	0.001	0.745	ug/L
⌈	Ba	135	467.150	0.00	0.1803	0.068	37.923	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	825243.994	825243.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	99.002	3.67	0.0003	0.000	98.333	ug/L
|	Tl	205	215.005	22.33	0.0009	0.000	42.714	ug/L
|	Pb	206	1210.224	1160.22	0.1229	0.003	2.586	ug/L
|	Pb	207	926.820	890.15	0.1099	0.007	6.773	ug/L
|	Pb	208	4575.484	4400.14	0.1185	0.002	2.060	ug/L
⌊>	Bi	209	759822.049	759822.05				ug/L
⌈	Na	23	79025744.197	239.92	21.7334	4.393	20.214	mg/L
|	Mg	24	26080465.405	78.82	9.2859	0.962	10.356	mg/L
|	K	39	90032322.404	270.29	8.9906	1.249	13.891	mg/L
|	Ca	43	471793.358	1.43	27.0260	3.789	14.019	mg/L
|	Fe	54	18668191.260	56.46	22.3583	3.168	14.171	mg/L
|	Fe	57	8375771.100	25.34	22.0066	3.071	13.953	mg/L

|>	Sc	45	332597.125	332597.13	mg/L
	Cl	35	4542530.570	3903960.00	mg/L
	Kr	83	199.005	8.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	87.524				
|>	Sc-1	45		89.544			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.549			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		97.134			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		90.537			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		95.702			
⌈	Na	23	86.934				
|	Mg	24	92.859				
|	K	39	89.906				
|	Ca	43	90.087				
|	Fe	54	89.433				
|	Fe	57	88.026				
|>	Sc	45		89.544			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Thursday, May 24, 2001 10:36:51

QC Std 4	Na	23	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, May 24, 2001 10:41:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13012.730	1336.42				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	43906717.490	133.58	9559.2616	974.549	10.195	ug/L
⌊>	Sc-1	45	329431.688	329431.69				ug/L
⌈	V	51	238620.619	0.24	19.2097	1.645	8.565	ug/L
|	Cr	52	219611.615	0.22	19.5002	1.227	6.290	ug/L
|	Cr	53	32741.927	0.01	5.1699	3.305	63.920	ug/L
|	Mn	55	344309.405	0.36	18.9884	0.942	4.959	ug/L
|	Co	59	279893.987	0.29	19.0277	1.106	5.813	ug/L
|	Ni	60	60381.243	0.06	18.7699	0.489	2.605	ug/L
|	Cu	65	68865.689	0.07	19.6245	0.760	3.873	ug/L
|	Zn	66	21700.812	0.02	9.1815	2.291	24.956	ug/L
|>	Ge	72	965204.270	965204.27				ug/L
|	As	75	25075.419	0.03	9.4685	0.335	3.536	ug/L
|	Se	77	2673.167	0.00	9.9716	0.536	5.373	ug/L
⌊	Se	82	2821.789	0.00	9.6627	0.061	0.629	ug/L
	Y	89	734968.669	-104271.12				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	51536.710	0.06	4.4904	0.181	4.038	ug/L
|	Cd	114	67882.607	0.08	9.8666	0.171	1.731	ug/L
|>	In	115	866179.223	866179.22				ug/L
⌊	Sb	123	967.046	0.00	0.1392	0.000	0.195	ug/L
⌈	Ba	135	266.941	0.00	0.1021	0.093	90.756	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	797553.388	797553.39				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.334	-25.00	-0.0023	0.001	28.937	ug/L
|	Tl	205	199.671	7.00	0.0003	0.000	64.418	ug/L
|	Pb	206	1180.216	1130.21	0.1197	0.009	7.866	ug/L
|	Pb	207	916.817	880.15	0.1087	0.006	5.606	ug/L
|	Pb	208	4479.121	4303.78	0.1159	0.002	1.536	ug/L
⌊>	Bi	209	757386.483	757386.48				ug/L
⌈	Na	23	79370082.952	241.85	21.9076	3.669	16.746	mg/L
|	Mg	24	25178747.187	76.63	9.0282	0.997	11.040	mg/L
|	K	39	88878061.860	268.33	8.9255	0.535	5.993	mg/L
|	Ca	43	487077.553	1.48	28.0144	2.132	7.610	mg/L
|	Fe	54	19045861.390	57.85	22.9107	2.126	9.282	mg/L
|	Fe	57	8372078.079	25.44	22.0927	1.677	7.589	mg/L

⌊>	Sc	45	329431.688	329431.69	mg/L
	Cl	35	4637876.040	3999305.47	mg/L
	Kr	83	196.671	6.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	95.593				
⌊>	Sc-1	45		88.692			
⌈	V	51	96.048				
|	Cr	52	97.501				
|	Cr	53	25.849				
|	Mn	55	94.942				
|	Co	59	95.139				
|	Ni	60	93.850				
|	Cu	65	98.122				
|	Zn	66	91.815				
|>	Ge	72		95.358			
|	As	75	94.685				
|	Se	77	99.716				
⌊	Se	82	96.627				
	Y	89					
⌈	Rh	103					
|	Ag	107	89.807				
|	Cd	114	98.666				
|>	In	115		95.636			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		87.499			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		95.395			
⌈	Na	23	87.631				
|	Mg	24	90.282				
|	K	39	89.255				
|	Ca	43	93.381				
|	Fe	54	91.643				
|	Fe	57	88.371				
⌊>	Sc	45		88.692			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Thursday, May 24, 2001 10:42:01

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 10:46:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.656	3340.34				ug/L
⌈	Be	9	10117.406	0.03	41.9076	9.523	22.724	ug/L
|	Al	27	242080.852	0.69	49.2236	11.189	22.730	ug/L
⌊>	Sc-1	45	350792.913	350792.91				ug/L
⌈	V	51	635585.321	0.63	49.6478	1.547	3.117	ug/L
|	Cr	52	573033.271	0.56	50.5491	3.255	6.439	ug/L
|	Cr	53	70011.498	0.04	36.4598	7.439	20.403	ug/L
|	Mn	55	866879.743	0.86	46.1293	0.711	1.542	ug/L
|	Co	59	757763.135	0.76	49.6236	3.400	6.852	ug/L
|	Ni	60	160990.576	0.16	48.2525	3.385	7.014	ug/L
|	Cu	65	182655.223	0.18	50.1369	2.472	4.931	ug/L
|	Zn	66	121355.759	0.12	49.3130	0.837	1.697	ug/L
|>	Ge	72	1002151.050	1002151.05				ug/L
|	As	75	132149.724	0.13	48.3058	0.971	2.010	ug/L
|	Se	77	11103.961	0.01	47.3449	1.802	3.807	ug/L
⌊	Se	82	14618.552	0.01	50.0990	1.545	3.084	ug/L
	Y	89	876076.734	36836.95				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	577731.284	0.65	48.7966	1.210	2.479	ug/L
|	Cd	114	351818.266	0.39	49.5868	1.258	2.538	ug/L
|>	In	115	893677.834	893677.83				ug/L
⌊	Sb	123	342258.833	0.38	48.8187	1.426	2.920	ug/L
⌈	Ba	135	118085.549	0.14	46.2536	1.449	3.132	ug/L
|	Ce	140	666.760	0.00				ug/L
⌊>	Tb	159	864310.988	864310.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	544331.815	544236.48	49.0746	0.580	1.181	ug/L
|	Tl	205	1350418.112	1350225.44	52.4048	0.879	1.678	ug/L
|	Pb	206	498148.336	498098.33	52.7682	0.643	1.219	ug/L
|	Pb	207	371151.664	371114.99	45.8236	0.299	0.653	ug/L
|	Pb	208	1849433.178	1849257.83	49.8182	0.263	0.528	ug/L
⌊>	Bi	209	790697.721	790697.72				ug/L
⌈	Na	23	17348754.913	50.05	4.5340	0.941	20.755	mg/L
|	Mg	24	14089347.169	40.57	4.7799	0.732	15.321	mg/L
|	K	39	49402351.268	140.29	4.6666	0.685	14.679	mg/L
|	Ca	43	89899.776	0.26	4.8550	0.398	8.200	mg/L
|	Fe	54	4476804.475	12.77	5.0591	0.800	15.810	mg/L
|	Fe	57	1856378.047	5.30	4.6038	0.404	8.780	mg/L

>	Sc	45	350792.913	350792.91	mg/L
	Cl	35	159768.326	-478802.25	mg/L
	Kr	83	166.670	-23.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	83.815				
	Al	27	98.447				
>	Sc-1	45		94.443			
	V	51	99.296				
	Cr	52	101.098				
	Cr	53	72.920				
	Mn	55	92.259				
	Co	59	99.247				
	Ni	60	96.505				
	Cu	65	100.274				
	Zn	66	98.626				
>	Ge	72		99.008			
	As	75	96.612				
	Se	77	94.690				
	Se	82	100.198				
	Y	89					
	Rh	103					
	Ag	107	97.593				
	Cd	114	99.174				
>	In	115		98.672			
	Sb	123	97.637				
	Ba	135	92.507				
	Ce	140					
>	Tb	159		94.823			
	Ho	165					
	Tl	203	98.149				
	Tl	205	104.810				
	Pb	206	105.536				
	Pb	207	91.647				
	Pb	208	99.636				
>	Bi	209		99.591			
	Na	23	90.681				
	Mg	24	95.598				
	K	39	93.331				
	Ca	43	97.101				
	Fe	54	101.182				
	Fe	57	92.075				
>	Sc	45		94.443			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 10:47:10

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Na	23	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 10:51:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.188	3339.88				ug/L
⌈	Be	9	66.734	0.00	0.1489	0.245	164.173	ug/L
|	Al	27	2333.964	-0.01	-0.3861	0.537	139.112	ug/L
|>	Sc-1	45	341354.423	341354.42				ug/L
⌈	V	51	1821.545	-0.00	-0.1356	0.155	114.580	ug/L
|	Cr	52	11487.502	-0.00	-0.0172	0.162	946.340	ug/L
|	Cr	53	5669.118	-0.02	-19.5984	1.720	8.774	ug/L
|	Mn	55	667.369	-0.00	-0.0458	0.015	33.234	ug/L
|	Co	59	233.572	0.00	0.0087	0.010	116.414	ug/L
|	Ni	60	133.468	0.00	0.0298	0.018	59.572	ug/L
|	Cu	65	133.469	0.00	0.0269	0.031	115.787	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1012990.308	1012990.31				ug/L
|	As	75	182.850	0.00	0.0011	0.025	2182.939	ug/L
|	Se	77	227.337	-0.00	-1.4793	0.070	4.729	ug/L
⌊	Se	82	139.199	0.00	0.0069	0.044	636.767	ug/L
	Y	89	864781.419	25541.63				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	13.826	-0.00	-0.0009	0.001	97.108	ug/L
|>	In	115	899470.415	899470.41				ug/L
⌊	Sb	123	729.307	0.00	0.1002	0.004	3.633	ug/L
⌈	Ba	135	33.367	0.00	0.0019	0.025	1304.182	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	858111.111	858111.11				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	101.335	6.00	0.0005	0.001	118.243	ug/L
|	Tl	205	236.340	43.67	0.0017	0.001	51.633	ug/L
|	Pb	206	56.673	6.67	0.0007	0.003	458.255	ug/L
|	Pb	207	43.338	6.67	0.0008	0.003	312.249	ug/L
|	Pb	208	206.012	30.67	0.0008	0.002	184.008	ug/L
|>	Bi	209	797660.577	797660.58				ug/L
⌈	Na	23	4668.254	0.00	0.0004	0.000	41.277	mg/L
|	Mg	24	0.000	-0.00	-0.0002			mg/L
|	K	39	620921.413	0.23	0.0077	0.005	70.349	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	37788.719	0.02	0.0086	0.022	255.447	mg/L
|	Fe	57	12011.913	0.02	0.0160	0.019	116.683	mg/L

>	Sc	45	341354.423	341354.42	mg/L
	Cl	35	125774.435	-512796.14	mg/L
	Kr	83	167.670	-22.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		91.902			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		100.079			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		99.312			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		94.143			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		100.468			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		91.902			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 10:52:17

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBW 6N WG98063-03

Sample Date/Time: Thursday, May 24, 2001 10:56:34
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 11
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15685.053	4008.74				ug/L
⌈	Be	9	66.734	0.00	0.1677	0.571	340.598	ug/L
|	Al	27	83148.876	0.21	18.5844	1.637	8.810	ug/L
⌊>	Sc-1	45	378092.863	378092.86				ug/L
⌈	V	51	-3543.276	-0.01	-0.6850	0.147	21.456	ug/L
|	Cr	52	12724.062	0.00	0.0785	0.081	102.843	ug/L
|	Cr	53	6669.888	-0.02	-23.5994	1.489	6.308	ug/L
|	Mn	55	2469.596	0.00	0.0573	0.055	95.786	ug/L
|	Co	59	166.836	0.00	0.0051	0.009	182.204	ug/L
|	Ni	60	400.415	0.00	0.1325	0.097	73.219	ug/L
|	Cu	65	367.045	0.00	0.1093	0.066	60.350	ug/L
|	Zn	66	6002.942	0.01	2.9224	1.410	48.249	ug/L
|>	Ge	72	1039319.999	1039320.00				ug/L
|	As	75	90.091	-0.00	-0.0415	0.034	81.545	ug/L
|	Se	77	234.004	-0.00	-1.8439	0.057	3.092	ug/L
⌊	Se	82	132.510	-0.00	-0.0345	0.004	11.460	ug/L
	Y	89	862462.784	23223.00				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	266.940	0.00	0.0231	0.015	64.909	ug/L
|	Cd	114	34.007	0.00	0.0020	0.002	85.637	ug/L
|>	In	115	945618.786	945618.79				ug/L
⌊	Sb	123	427.285	0.00	0.0681	0.003	4.076	ug/L
⌈	Ba	135	166.836	0.00	0.0586	0.047	80.730	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	933327.600	933327.60				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	100.002	4.67	0.0005	0.003	484.397	ug/L
|	Tl	205	222.006	29.33	0.0014	0.001	79.878	ug/L
|	Pb	206	286.701	236.70	0.0313	0.011	35.184	ug/L
|	Pb	207	220.025	183.36	0.0283	0.007	23.776	ug/L
|	Pb	208	1160.430	985.09	0.0332	0.002	7.433	ug/L
⌊>	Bi	209	821929.196	821929.20				ug/L
⌈	Na	23	88560.121	0.23	0.0257	0.006	24.166	mg/L
|	Mg	24	4001.167	0.01	0.0013	0.000	34.478	mg/L
|	K	39	664296.755	0.16	0.0068	0.007	103.802	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	60572.599	0.07	0.0331	0.012	35.620	mg/L
|	Fe	57	8672.364	0.01	0.0055	0.010	171.639	mg/L

\>	Sc	45	378092.863	378092.86	mg/L
	Cl	35	107812.109	-530758.46	mg/L
	Kr	83	162.670	-27.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		101.793			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.681			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		104.407			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		102.395			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		103.525			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		101.793			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6N WG98063-03
Report Date/Time: Thursday, May 24, 2001 10:57:23

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: SPLP BLK 5-23

Sample Date/Time: Thursday, May 24, 2001 11:01:41
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18358.406	6682.09				ug/L
⌈	Be	9	0.000	-0.00	-0.1621	0.000	0.000	ug/L
|	Al	27	3334.594	-0.00	-0.2198	0.976	444.161	ug/L
⌊>	Sc-1	45	362741.279	362741.28				ug/L
⌈	V	51	2391.832	-0.00	-0.1222	0.236	193.041	ug/L
|	Cr	52	12623.795	0.00	0.0698	0.110	157.574	ug/L
|	Cr	53	3667.717	-0.02	-26.7358	1.587	5.936	ug/L
|	Mn	55	533.888	-0.00	-0.0669	0.007	11.117	ug/L
|	Co	59	0.000	-0.00	-0.0081	0.000	0.000	ug/L
|	Ni	60	66.734	0.00	0.0118	0.021	177.824	ug/L
|	Cu	65	66.734	0.00	0.0109	0.019	176.624	ug/L
|	Zn	66	666.713	0.00	0.3250	0.281	86.608	ug/L
|>	Ge	72	1038166.639	1038166.64				ug/L
|	As	75	181.029	-0.00	-0.0013	0.032	2495.208	ug/L
|	Se	77	204.670	-0.00	-2.0014	0.015	0.744	ug/L
⌊	Se	82	140.771	0.00	0.0010	0.041	4317.282	ug/L
	Y	89	826656.694	-12583.09				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0035	0.000	0.000	ug/L
|	Cd	114	18.989	-0.00	-0.0004	0.000	61.901	ug/L
|>	In	115	924076.337	924076.34				ug/L
⌊	Sb	123	165.356	0.00	0.0246	0.003	11.123	ug/L
⌈	Ba	135	33.367	-0.00	-0.0004	0.026	6009.750	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	891826.765	891826.76				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	81.668	-13.67	-0.0015	0.000	4.225	ug/L
|	Tl	205	184.671	-8.00	-0.0004	0.000	112.731	ug/L
|	Pb	206	66.674	16.67	0.0022	0.003	124.900	ug/L
|	Pb	207	70.007	33.34	0.0051	0.002	30.000	ug/L
|	Pb	208	259.683	84.34	0.0028	0.001	30.952	ug/L
⌊>	Bi	209	805743.153	805743.15				ug/L
⌈	Na	23	12680.263	0.02	0.0028	0.002	66.911	mg/L
|	Mg	24	666.713	-0.00	-0.0000	0.000	1797.872	mg/L
|	K	39	729526.723	0.43	0.0178	0.006	33.830	mg/L
|	Ca	43	666.760	0.00	0.0509	0.088	173.205	mg/L
|	Fe	54	32725.913	0.00	0.0004	0.021	4995.774	mg/L
|	Fe	57	6670.543	-0.00	-0.0002	0.010	5387.494	mg/L

>	Sc	45	362741.279	362741.28	mg/L
	Cl	35	86869.710	-551700.86	mg/L
	Kr	83	161.337	-29.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		97.660			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		102.567			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.029			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		97.842			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		101.486			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		97.660			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: SPLP BLK 5-23
Report Date/Time: Thursday, May 24, 2001 11:02:29

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6N WG98063-04

Sample Date/Time: Thursday, May 24, 2001 11:06:48
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.116	4007.80				ug/L
⌈	Be	9	6709.870	0.02	118.2623	22.323	18.876	ug/L
|	Al	27	233095.865	0.55	197.8902	12.336	6.234	ug/L
|>	Sc-1	45	413766.923	413766.92				ug/L
⌈	V	51	354928.773	0.33	130.1345	0.482	0.370	ug/L
|	Cr	52	326236.924	0.30	133.3323	0.574	0.430	ug/L
|	Cr	53	47493.246	0.02	72.9440	32.941	45.159	ug/L
|	Mn	55	505363.059	0.47	126.7009	4.781	3.773	ug/L
|	Co	59	419869.540	0.40	129.5997	1.886	1.455	ug/L
|	Ni	60	87419.986	0.08	123.4718	6.499	5.264	ug/L
|	Cu	65	101212.830	0.10	130.9775	1.451	1.108	ug/L
|	Zn	66	67316.326	0.06	128.9800	4.930	3.822	ug/L
|>	Ge	72	1062209.838	1062209.84				ug/L
|	As	75	67518.360	0.06	116.2779	3.149	2.708	ug/L
|	Se	77	5509.459	0.00	104.1609	2.474	2.375	ug/L
⌊	Se	82	6923.540	0.01	110.6171	1.456	1.316	ug/L
	Y	89	893616.200	54376.41				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	324714.022	0.33	126.3145	4.692	3.715	ug/L
|	Cd	114	181627.704	0.19	117.9071	1.610	1.365	ug/L
|>	In	115	969830.857	969830.86				ug/L
⌊	Sb	123	173933.009	0.18	114.2685	1.468	1.285	ug/L
⌈	Ba	135	61390.926	0.07	119.1447	18.771	15.755	ug/L
|	Ce	140	666.713	0.00				ug/L
|>	Tb	159	881171.252	881171.25				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	287363.018	287267.68	129.5167	2.247	1.735	ug/L
|	Tl	205	721537.256	721344.59	139.9837	1.282	0.916	ug/L
|	Pb	206	264042.271	263992.27	139.8357	2.869	2.052	ug/L
|	Pb	207	203649.182	203612.51	125.7058	1.055	0.839	ug/L
|	Pb	208	986628.914	986453.57	132.8730	0.879	0.661	ug/L
|>	Bi	209	839060.463	839060.46				ug/L
⌈	Na	23	60931.749	0.14	0.0625	0.007	11.762	mg/L
|	Mg	24	13682.859	0.03	0.0195	0.015	75.880	mg/L
|	K	39	635140.610	-0.05	-0.0078	0.033	426.583	mg/L
|	Ca	43	666.760	0.00	0.1351	0.234	173.205	mg/L
|	Fe	54	75630.776	0.09	0.1815	0.061	33.651	mg/L
|	Fe	57	13012.449	0.01	0.0580	0.028	47.691	mg/L

L>	Sc	45	413766.923	413766.92	mg/L
	Cl	35	105101.700	-533468.87	mg/L
	Kr	83	158.003	-32.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		111.397			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.942			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		107.081			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		96.673			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		105.682			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		111.397			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6N WG98063-04
Report Date/Time: Thursday, May 24, 2001 11:07:36

Method 6020 - Summary Report

Sample ID: 0547111 WG98063-02

Sample Date/Time: Thursday, May 24, 2001 11:11:55
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.571	5010.26				ug/L
⌈	Be	9	66.734	0.00	0.3082	0.549	178.124	ug/L
|	Al	27	11120625.782	28.42	5083.9262	507.247	9.977	ug/L
⌊>	Sc-1	45	390758.500	390758.50				ug/L
⌈	V	51	223054.006	0.22	43.0121	1.653	3.844	ug/L
|	Cr	52	50831.241	0.04	8.8080	0.564	6.401	ug/L
|	Cr	53	8004.669	-0.02	-43.7661	4.451	10.169	ug/L
|	Mn	55	1957283.996	1.95	260.0514	6.850	2.634	ug/L
|	Co	59	23863.807	0.02	3.8794	0.305	7.855	ug/L
|	Ni	60	19546.561	0.02	14.5936	2.105	14.422	ug/L
|	Cu	65	20851.436	0.02	14.2460	1.410	9.898	ug/L
|	Zn	66	28396.881	0.03	28.7236	12.479	43.446	ug/L
|>	Ge	72	1004345.013	1004345.01				ug/L
|	As	75	6235.439	0.01	5.5306	0.172	3.109	ug/L
|	Se	77	254.005	-0.00	-3.3774	0.345	10.215	ug/L
⌊	Se	82	171.207	0.00	0.3037	0.156	51.302	ug/L
	Y	89	942778.002	103538.22				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	567.261	0.00	0.1080	0.063	58.687	ug/L
|	Cd	114	337.158	0.00	0.1062	0.009	8.449	ug/L
|>	In	115	936077.704	936077.70				ug/L
⌊	Sb	123	11380.443	0.01	3.8654	0.030	0.773	ug/L
⌈	Ba	135	89344.202	0.10	83.6394	3.404	4.069	ug/L
|	Ce	140	202159.965	0.22				ug/L
⌊>	Tb	159	904565.995	904565.99				ug/L
⌈	Ho	165	3334.360	3334.36				ug/L
|	Tl	203	537.359	442.02	0.0996	0.005	4.650	ug/L
|	Tl	205	1358.476	1165.80	0.1131	0.005	4.063	ug/L
|	Pb	206	604452.973	604402.97	160.0750	1.362	0.851	ug/L
|	Pb	207	522773.459	522736.79	161.3629	1.695	1.050	ug/L
|	Pb	208	2437380.752	2437205.41	164.1430	0.032	0.019	ug/L
⌊>	Bi	209	796569.070	796569.07				ug/L
⌈	Na	23	30818318.543	78.78	17.8396	1.897	10.631	mg/L
|	Mg	24	2476834.979	6.34	1.8682	0.180	9.652	mg/L
|	K	39	7015739.867	16.34	1.3588	0.039	2.892	mg/L
|	Ca	43	990963.058	2.54	119.8995	8.672	7.233	mg/L
|	Fe	54	1698860.412	4.26	4.2131	0.171	4.048	mg/L
⌊	Fe	57	649338.663	1.65	3.5769	0.349	9.746	mg/L

>	Sc	45	390758.500	390758.50	mg/L
	Cl	35	147169.415	-491401.16	mg/L
	Kr	83	169.337	-21.00	mg/L
	U	238	4001.307	4001.31	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		105.203			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		99.225			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.354			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		99.240			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		100.331			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		105.203			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547111 WG98063-02
Report Date/Time: Thursday, May 24, 2001 11:12:44

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0547111 DP WG98063-07

Sample Date/Time: Thursday, May 24, 2001 11:17:02
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	4342.24				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	13448269.845	30.53	5461.9577	705.376	12.914	ug/L
|>	Sc-1	45	442714.923	442714.92				ug/L
⌈	V	51	237001.307	0.23	46.1317	0.548	1.189	ug/L
|	Cr	52	55133.769	0.04	9.8793	0.450	4.555	ug/L
|	Cr	53	8338.400	-0.02	-42.8825	4.669	10.889	ug/L
|	Mn	55	1954713.959	1.96	261.8359	8.310	3.174	ug/L
|	Co	59	23227.933	0.02	3.8062	0.432	11.355	ug/L
|	Ni	60	23194.190	0.02	17.4621	1.241	7.105	ug/L
|	Cu	65	22825.979	0.02	15.7318	0.979	6.225	ug/L
|	Zn	66	28055.973	0.03	28.6595	4.564	15.926	ug/L
|>	Ge	72	995997.700	995997.70				ug/L
|	As	75	6530.620	0.01	5.8492	0.099	1.687	ug/L
|	Se	77	244.671	-0.00	-3.4577	0.106	3.079	ug/L
⌊	Se	82	169.925	0.00	0.3048	0.066	21.565	ug/L
	Y	89	959499.320	120259.53				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.571	0.00	0.0408	0.012	29.421	ug/L
|	Cd	114	336.924	0.00	0.1078	0.008	7.197	ug/L
|>	In	115	922960.871	922960.87				ug/L
⌊	Sb	123	10852.860	0.01	3.7384	0.033	0.877	ug/L
⌈	Ba	135	99081.137	0.11	91.6896	10.468	11.417	ug/L
|	Ce	140	182313.854	0.20				ug/L
⌊>	Tb	159	920674.108	920674.11				ug/L
⌈	Ho	165	3667.670	3667.67				ug/L
|	Tl	203	579.696	484.36	0.1092	0.004	3.724	ug/L
|	Tl	205	1431.158	1238.49	0.1202	0.004	2.931	ug/L
|	Pb	206	630956.138	630906.13	167.0943	0.832	0.498	ug/L
|	Pb	207	545327.167	545290.50	168.3250	2.760	1.640	ug/L
|	Pb	208	2541617.525	2541442.18	171.1632	0.726	0.424	ug/L
⌊>	Bi	209	801839.399	801839.40				ug/L
⌈	Na	23	33745197.958	76.69	17.3667	2.037	11.730	mg/L
|	Mg	24	2592439.879	5.89	1.7352	0.181	10.445	mg/L
|	K	39	7953576.558	16.48	1.3703	0.159	11.591	mg/L
|	Ca	43	1167624.084	2.65	125.3731	11.280	8.997	mg/L
|	Fe	54	1810263.458	4.01	3.9745	0.381	9.589	mg/L
|	Fe	57	672004.595	1.51	3.2735	0.381	11.635	mg/L

\>	Sc	45	442714.923	442714.92	mg/L
	Cl	35	128147.262	-510423.31	mg/L
	Kr	83	181.004	-9.33	mg/L
	U	238	5001.937	5001.94	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		119.191			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		98.400			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		101.906			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		101.007			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		100.994			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		119.191			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547111 DP WG98063-07
Report Date/Time: Thursday, May 24, 2001 11:17:51

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0547112 WG98063-01

Sample Date/Time: Thursday, May 24, 2001 11:22:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16687.835	5011.52				ug/L
⌈	Be	9	66.734	0.00	0.2256	0.952	422.086	ug/L
|	Al	27	8985931.160	21.10	3774.4904	481.863	12.766	ug/L
⌊>	Sc-1	45	427077.669	427077.67				ug/L
⌈	V	51	144646.958	0.14	27.0477	0.491	1.814	ug/L
|	Cr	52	47572.478	0.03	7.8539	0.770	9.806	ug/L
|	Cr	53	7671.079	-0.02	-44.8293	5.486	12.238	ug/L
|	Mn	55	1194464.514	1.16	155.3288	15.491	9.973	ug/L
|	Co	59	12256.127	0.01	1.9429	0.157	8.094	ug/L
|	Ni	60	10117.279	0.01	7.3762	0.306	4.142	ug/L
|	Cu	65	19345.490	0.02	12.9419	0.376	2.905	ug/L
|	Zn	66	37097.395	0.04	36.8244	5.451	14.803	ug/L
|>	Ge	72	1026130.202	1026130.20				ug/L
|	As	75	5393.616	0.01	4.6565	0.074	1.580	ug/L
|	Se	77	243.338	-0.00	-3.5523	0.381	10.736	ug/L
⌊	Se	82	155.120	0.00	0.1366	0.112	81.922	ug/L
	Y	89	860281.238	21041.45				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	333.675	0.00	0.0610	0.013	20.567	ug/L
|	Cd	114	205.465	0.00	0.0624	0.005	8.340	ug/L
|>	In	115	928776.054	928776.05				ug/L
⌊	Sb	123	16414.485	0.02	5.6230	0.071	1.262	ug/L
⌈	Ba	135	46631.695	0.05	42.8837	2.730	6.365	ug/L
|	Ce	140	118311.728	0.13				ug/L
⌊>	Tb	159	921217.404	921217.40				ug/L
⌈	Ho	165	3000.957	3000.96				ug/L
|	Tl	203	359.679	264.34	0.0596	0.002	3.576	ug/L
|	Tl	205	917.402	724.73	0.0703	0.005	7.335	ug/L
|	Pb	206	522094.323	522044.32	138.2624	2.086	1.509	ug/L
|	Pb	207	431377.252	431340.58	133.1500	1.600	1.201	ug/L
|	Pb	208	2049814.394	2049639.05	138.0408	1.969	1.426	ug/L
⌊>	Bi	209	802473.555	802473.56				ug/L
⌈	Na	23	39943295.542	93.53	21.1820	0.835	3.940	mg/L
|	Mg	24	1739914.167	4.09	1.2037	0.153	12.748	mg/L
|	K	39	5868693.452	12.17	1.0117	0.075	7.430	mg/L
|	Ca	43	602159.157	1.42	67.0579	14.712	21.940	mg/L
|	Fe	54	1134747.942	2.57	2.5413	0.125	4.937	mg/L
|	Fe	57	530321.120	1.22	2.6579	0.765	28.775	mg/L

> Sc	45	427077.669	427077.67		mg/L
Cl	35	134616.014	-503954.56		mg/L
Kr	83	149.336	-41.00		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		114.981			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.377			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		102.548			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.066			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		101.074			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		114.981			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547112 WG98063-01
Report Date/Time: Thursday, May 24, 2001 11:22:59

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0547112 S WG98063-05

Sample Date/Time: Thursday, May 24, 2001 11:27:18
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15015.813	3339.50				ug/L
⌈	Be	9	11621.063	0.03	109.0452	15.207	13.945	ug/L
|	Al	27	11126751.161	28.90	5169.9403	566.383	10.955	ug/L
⌊>	Sc-1	45	388407.026	388407.03				ug/L
⌈	V	51	911607.947	0.88	173.6531	4.921	2.834	ug/L
|	Cr	52	683054.350	0.65	147.1464	1.860	1.264	ug/L
|	Cr	53	87196.430	0.06	123.7201	10.846	8.766	ug/L
|	Mn	55	2090358.048	2.03	271.1458	3.970	1.464	ug/L
|	Co	59	842775.242	0.82	134.3836	7.812	5.814	ug/L
|	Ni	60	178308.557	0.17	130.0863	3.691	2.837	ug/L
|	Cu	65	215034.899	0.21	143.7262	4.649	3.234	ug/L
|	Zn	66	141400.776	0.14	140.0223	19.052	13.607	ug/L
|>	Ge	72	1028808.592	1028808.59				ug/L
|	As	75	129033.749	0.13	114.8539	1.989	1.732	ug/L
|	Se	77	9179.896	0.01	94.0777	0.894	0.950	ug/L
⌊	Se	82	11725.426	0.01	97.5848	0.554	0.568	ug/L
	Y	89	916604.968	77365.18				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	594055.645	0.64	120.7375	1.677	1.389	ug/L
|	Cd	114	342731.733	0.37	116.1864	1.309	1.126	ug/L
|>	In	115	928564.340	928564.34				ug/L
⌊	Sb	123	278119.466	0.30	95.4139	1.388	1.455	ug/L
⌈	Ba	135	173013.119	0.20	168.0750	7.151	4.255	ug/L
|	Ce	140	128481.637	0.15				ug/L
⌊>	Tb	159	873663.602	873663.60				ug/L
⌈	Ho	165	2000.280	2000.28				ug/L
|	Tl	203	566773.786	566678.45	127.7455	0.412	0.322	ug/L
|	Tl	205	1432929.525	1432736.85	139.0181	2.775	1.996	ug/L
|	Pb	206	1087489.930	1087439.92	288.0064	6.208	2.155	ug/L
|	Pb	207	861467.812	861431.14	265.9141	4.642	1.746	ug/L
|	Pb	208	3978453.241	3978277.90	267.9325	3.255	1.215	ug/L
⌊>	Bi	209	794656.565	794656.57				ug/L
⌈	Na	23	42525836.202	110.25	24.9683	2.073	8.302	mg/L
|	Mg	24	2043664.246	5.30	1.5618	0.166	10.629	mg/L
|	K	39	6900313.812	16.34	1.3589	0.169	12.466	mg/L
|	Ca	43	607221.622	1.57	74.2837	3.959	5.329	mg/L
|	Fe	54	1460735.321	3.73	3.6919	0.651	17.645	mg/L
|	Fe	57	584030.034	1.52	3.2992	0.789	23.925	mg/L

|> Sc	45	388407.026	388407.03		mg/L
Cl	35	133914.388	-504656.19		mg/L
Kr	83	148.336	-42.00		mg/L
U	238	2667.180	2667.18		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		104.570			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.642			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		102.524			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		95.849			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.090			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		104.570			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE Al	27
Mn 55 Upper, S, EEE Mn	55
Pb 206 Upper, S, EEEPb	206
Pb 207 Upper, S, EEEPb	207
Pb 208 Upper, S, EEEPb	208
Ca 43 Upper, S, EEE Ca	43

Method 6020 - Summary Report

Sample ID: 0547112 SD WG98063-06

Sample Date/Time: Thursday, May 24, 2001 11:32:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17689.728	6013.42				ug/L
⌈	Be	9	14128.180	0.03	122.2565	16.278	13.315	ug/L
|	Al	27	10051747.126	24.14	4318.3212	383.153	8.873	ug/L
|>	Sc-1	45	416821.383	416821.38				ug/L
⌈	V	51	873324.084	0.86	169.6830	2.018	1.189	ug/L
|	Cr	52	678110.572	0.66	149.0041	1.549	1.039	ug/L
|	Cr	53	90234.281	0.06	133.9017	12.148	9.072	ug/L
|	Mn	55	2101990.731	2.08	278.0404	8.200	2.949	ug/L
|	Co	59	838593.889	0.83	136.3329	3.219	2.361	ug/L
|	Ni	60	181729.946	0.18	135.1973	3.208	2.373	ug/L
|	Cu	65	215824.713	0.21	147.0859	1.374	0.934	ug/L
|	Zn	66	120339.774	0.12	121.4682	5.990	4.931	ug/L
|>	Ge	72	1008818.401	1008818.40				ug/L
|	As	75	127665.107	0.13	115.8886	2.391	2.063	ug/L
|	Se	77	9219.949	0.01	96.5143	2.646	2.742	ug/L
⌊	Se	82	11541.552	0.01	97.9755	2.413	2.463	ug/L
	Y	89	886567.482	47327.70				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	593841.288	0.64	120.7645	2.218	1.837	ug/L
|	Cd	114	338774.529	0.37	114.9104	0.575	0.501	ug/L
|>	In	115	928004.174	928004.17				ug/L
⌊	Sb	123	278481.180	0.30	95.5914	0.868	0.908	ug/L
⌈	Ba	135	169904.510	0.19	160.1883	14.573	9.098	ug/L
|	Ce	140	122373.707	0.14				ug/L
|>	Tb	159	898907.116	898907.12				ug/L
⌈	Ho	165	2333.730	2333.73				ug/L
|	Tl	203	560377.412	560282.08	126.3036	0.403	0.319	ug/L
|	Tl	205	1419665.625	1419472.95	137.7311	1.341	0.974	ug/L
|	Pb	206	1082158.027	1082108.02	286.5942	1.874	0.654	ug/L
|	Pb	207	853406.651	853369.98	263.4257	4.618	1.753	ug/L
|	Pb	208	3927707.080	3927531.74	264.5148	2.119	0.801	ug/L
|>	Bi	209	782610.993	782610.99				ug/L
⌈	Na	23	44591868.730	107.17	24.2696	2.793	11.507	mg/L
|	Mg	24	1904647.660	4.57	1.3473	0.162	12.011	mg/L
|	K	39	6391717.760	13.74	1.1425	0.096	8.435	mg/L
|	Ca	43	638428.084	1.53	72.3885	5.047	6.972	mg/L
|	Fe	54	1278341.793	2.98	2.9490	0.324	10.989	mg/L
|	Fe	57	480340.426	1.14	2.4665	0.228	9.243	mg/L

> Sc	45	416821.383	416821.38		mg/L
Cl	35	188799.373	-449771.20		mg/L
Kr	83	168.337	-22.00		mg/L
U	238	4668.581	4668.58		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		112.219			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.667			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		102.462			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.619			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		98.572			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		112.219			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547112 SD WG98063-06
Report Date/Time: Thursday, May 24, 2001 11:33:16

Al 27 Upper, S, EEE Al	27
Mn 55 Upper, S, EEE Mn	55
Pb 206 Upper, S, EEEPb	206
Pb 207 Upper, S, EEEPb	207
Pb 208 Upper, S, EEEPb	208
Ca 43 Upper, S, EEE Ca	43

Method 6020 - Summary Report

Sample ID: 0547112 PS

Sample Date/Time: Thursday, May 24, 2001 11:37:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14349.148	2672.84				ug/L
⌈	Be	9	13258.938	0.03	114.7347	14.313	12.474	ug/L
|	Al	27	8633721.861	20.79	3718.8033	748.673	20.132	ug/L
|>	Sc-1	45	417924.300	417924.30				ug/L
⌈	V	51	877305.185	0.87	171.2437	8.686	5.072	ug/L
|	Cr	52	683518.661	0.67	150.8843	5.696	3.775	ug/L
|	Cr	53	84498.551	0.06	122.3461	14.683	12.001	ug/L
|	Mn	55	2010691.788	2.00	267.1847	10.761	4.028	ug/L
|	Co	59	852036.372	0.85	139.0671	7.609	5.471	ug/L
|	Ni	60	183647.694	0.18	137.2584	6.264	4.564	ug/L
|	Cu	65	212803.052	0.21	145.6988	7.272	4.991	ug/L
|	Zn	66	136979.609	0.14	138.8229	16.367	11.790	ug/L
|>	Ge	72	1004426.350	1004426.35				ug/L
|	As	75	132607.109	0.13	120.9039	1.696	1.403	ug/L
|	Se	77	9462.264	0.01	99.6740	1.126	1.130	ug/L
⌊	Se	82	12191.006	0.01	104.0041	2.089	2.009	ug/L
	Y	89	897397.081	58157.29				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	552204.177	0.61	114.3996	3.299	2.884	ug/L
|	Cd	114	343081.107	0.38	118.5965	1.896	1.599	ug/L
|>	In	115	910726.988	910726.99				ug/L
⌊	Sb	123	365442.956	0.40	127.8352	1.268	0.992	ug/L
⌈	Ba	135	167371.063	0.20	172.0309	14.897	8.659	ug/L
|	Ce	140	110179.911	0.13				ug/L
|>	Tb	159	826279.726	826279.73				ug/L
⌈	Ho	165	666.713	666.71				ug/L
|	Tl	203	578029.442	577934.11	130.2829	1.628	1.249	ug/L
|	Tl	205	1439079.163	1438886.49	139.6148	1.253	0.897	ug/L
|	Pb	206	1036434.505	1036384.50	274.4844	5.632	2.052	ug/L
|	Pb	207	843944.836	843908.17	260.5049	7.926	3.043	ug/L
|	Pb	208	3859149.921	3858974.58	259.8975	1.341	0.516	ug/L
|>	Bi	209	781239.103	781239.10				ug/L
⌈	Na	23	40459803.674	97.31	22.0380	4.167	18.906	mg/L
|	Mg	24	1686457.723	4.04	1.1904	0.157	13.208	mg/L
|	K	39	6128402.074	13.15	1.0938	0.139	12.671	mg/L
|	Ca	43	603519.419	1.45	68.7562	9.230	13.424	mg/L
|	Fe	54	1015849.233	2.35	2.3293	0.323	13.851	mg/L
|	Fe	57	426361.350	1.00	2.1662	0.362	16.699	mg/L

>	Sc	45	417924.300	417924.30	mg/L
	Cl	35	109163.829	-529406.75	mg/L
	Kr	83	161.337	-29.00	mg/L
	U	238	2667.367	2667.37	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		112.516			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		99.233			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.555			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		90.651			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		98.400			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		112.516			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547112 PS
Report Date/Time: Thursday, May 24, 2001 11:38:26

Al 27 Upper, S, EEE Al	27
Mn 55 Upper, S, EEE Mn	55
Pb 206 Upper, S, EEEPb	206
Pb 207 Upper, S, EEEPb	207
Pb 208 Upper, S, EEEPb	208
Ca 43 Upper, S, EEE Ca	43

Method 6020 - Summary Report

Sample ID: 0547112 SDL

Sample Date/Time: Thursday, May 24, 2001 11:42:45
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11009.085	-667.23				ug/L
⌈	Be	9	33.367	-0.00	-0.2053	2.452	1194.447	ug/L
|	Al	27	1865418.359	4.64	4149.7430	259.837	6.262	ug/L
|>	Sc-1	45	402041.482	402041.48				ug/L
⌈	V	51	32366.715	0.03	28.1394	2.304	8.189	ug/L
|	Cr	52	19546.232	0.01	8.8641	0.431	4.860	ug/L
|	Cr	53	2667.227	-0.03	-276.8485	12.823	4.632	ug/L
|	Mn	55	230537.236	0.23	151.8283	12.601	8.300	ug/L
|	Co	59	2870.130	0.00	2.2578	0.509	22.542	ug/L
|	Ni	60	2002.301	0.00	7.3266	2.288	31.226	ug/L
|	Cu	65	4105.291	0.00	13.9093	1.506	10.825	ug/L
|	Zn	66	16352.419	0.02	82.6532	14.698	17.783	ug/L
|>	Ge	72	1007184.515	1007184.51				ug/L
|	As	75	1345.683	0.00	5.3107	0.260	4.900	ug/L
|	Se	77	190.003	-0.00	-20.4911	2.236	10.914	ug/L
⌊	Se	82	128.206	-0.00	-0.3512	0.449	127.971	ug/L
	Y	89	814634.001	-24605.79				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.573	0.00	0.2063	0.214	103.898	ug/L
|	Cd	114	89.113	0.00	0.1192	0.016	13.393	ug/L
|>	In	115	905174.403	905174.40				ug/L
⌊	Sb	123	3893.570	0.00	6.8175	0.394	5.781	ug/L
⌈	Ba	135	9716.334	0.01	49.0531	4.122	8.402	ug/L
|	Ce	140	19026.053	0.02				ug/L
⌊>	Tb	159	837064.445	837064.45				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	107.669	12.33	0.0139	0.016	117.591	ug/L
|	Tl	205	267.008	74.34	0.0361	0.010	28.251	ug/L
|	Pb	206	105872.766	105822.76	140.1348	1.546	1.103	ug/L
|	Pb	207	87541.893	87505.22	135.0594	0.679	0.503	ug/L
|	Pb	208	412302.913	412127.57	138.7816	0.798	0.575	ug/L
⌊>	Bi	209	799317.055	799317.06				ug/L
⌈	Na	23	8282961.138	20.70	23.4411	3.241	13.825	mg/L
|	Mg	24	348750.263	0.86	1.2737	0.142	11.121	mg/L
|	K	39	1678785.988	2.60	1.0816	0.193	17.857	mg/L
|	Ca	43	127127.868	0.32	74.7234	3.615	4.838	mg/L
|	Fe	54	248077.150	0.52	2.5973	0.324	12.473	mg/L
|	Fe	57	88890.355	0.20	2.1971	0.178	8.093	mg/L

>	Sc	45	402041.482	402041.48	mg/L
	Cl	35	65633.560	-572937.01	mg/L
	Kr	83	154.003	-36.33	mg/L
	U	238	666.713	666.71	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		108.240			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		99.506			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		99.942			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		91.834			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		100.677			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		108.240			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547112 SDL
Report Date/Time: Thursday, May 24, 2001 11:43:35

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 11:47:54
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13346.179	1669.87				ug/L
⌈	Be	9	11821.630	0.03	45.1658	5.775	12.786	ug/L
|	Al	27	237576.774	0.62	44.3114	6.965	15.719	ug/L
|>	Sc-1	45	378461.518	378461.52				ug/L
⌈	V	51	688123.299	0.67	52.6610	3.564	6.767	ug/L
|	Cr	52	604498.986	0.58	52.2431	2.934	5.615	ug/L
|	Cr	53	74728.888	0.04	39.1881	9.989	25.491	ug/L
|	Mn	55	968647.644	0.95	50.4789	1.709	3.385	ug/L
|	Co	59	770410.026	0.75	49.3733	1.541	3.121	ug/L
|	Ni	60	159047.422	0.16	46.6613	3.443	7.379	ug/L
|	Cu	65	190668.071	0.19	51.2247	1.564	3.054	ug/L
|	Zn	66	134256.247	0.13	53.4115	4.561	8.540	ug/L
|>	Ge	72	1023446.742	1023446.74				ug/L
|	As	75	131430.091	0.13	47.0372	0.650	1.381	ug/L
|	Se	77	11337.660	0.01	47.3215	1.033	2.183	ug/L
⌊	Se	82	14834.720	0.01	49.7676	1.126	2.262	ug/L
	Y	89	876438.959	37199.17				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	603555.948	0.67	50.2582	1.886	3.753	ug/L
|	Cd	114	347941.102	0.38	48.3173	0.756	1.565	ug/L
|>	In	115	906786.163	906786.16				ug/L
⌊	Sb	123	336638.198	0.37	47.3094	0.694	1.468	ug/L
⌈	Ba	135	114524.492	0.13	43.8058	2.660	6.072	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	887375.422	887375.42				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	542316.362	542221.03	48.8928	0.498	1.018	ug/L
|	Tl	205	1359614.312	1359421.64	52.7617	0.491	0.930	ug/L
|	Pb	206	501473.730	501423.72	53.1204	2.041	3.843	ug/L
|	Pb	207	382316.077	382279.41	47.2021	0.461	0.976	ug/L
|	Pb	208	1860280.215	1860104.87	50.1104	0.782	1.560	ug/L
|>	Bi	209	805296.369	805296.37				ug/L
⌈	Na	23	20044281.727	53.28	4.8261	1.014	21.019	mg/L
|	Mg	24	15993937.894	42.49	5.0056	0.784	15.656	mg/L
|	K	39	59328991.943	156.29	5.1985	0.955	18.365	mg/L
|	Ca	43	85517.380	0.23	4.2975	0.849	19.765	mg/L
|	Fe	54	4394993.446	11.51	4.5599	0.466	10.219	mg/L
|	Fe	57	2024231.905	5.34	4.6351	0.120	2.581	mg/L

>	Sc	45	378461.518	378461.52	mg/L
	Cl	35	50178.067	-588392.51	mg/L
	Kr	83	149.336	-41.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	90.332				
|	Al	27	88.623				
>	Sc-1	45		101.892			
⌈	V	51	105.322				
|	Cr	52	104.486				
|	Cr	53	78.376				
|	Mn	55	100.958				
|	Co	59	98.747				
|	Ni	60	93.323				
|	Cu	65	102.449				
|	Zn	66	106.823				
>	Ge	72		101.112			
|	As	75	94.074				
|	Se	77	94.643				
⌊	Se	82	99.535				
	Y	89					
⌈	Rh	103					
|	Ag	107	100.516				
|	Cd	114	96.635				
>	In	115		100.120			
⌊	Sb	123	94.619				
⌈	Ba	135	87.612				
|	Ce	140					
>	Tb	159		97.354			
⌈	Ho	165					
|	Tl	203	97.786				
|	Tl	205	105.523				
|	Pb	206	106.241				
|	Pb	207	94.404				
|	Pb	208	100.221				
>	Bi	209		101.430			
⌈	Na	23	96.522				
|	Mg	24	100.112				
|	K	39	103.971				
|	Ca	43	85.949				
|	Fe	54	91.198				
|	Fe	57	92.703				
>	Sc	45		101.892			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 11:48:44

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
QC Std 6	Na	23	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 11:53:02
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16353.637	4677.33				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	5002.078	0.00	0.0642	0.493	768.713	ug/L
⌊>	Sc-1	45	367909.054	367909.05				ug/L
⌈	V	51	4369.675	0.00	0.0683	0.075	110.508	ug/L
|	Cr	52	11320.309	-0.00	-0.0136	0.060	445.790	ug/L
|	Cr	53	3334.314	-0.02	-21.5213	1.838	8.540	ug/L
|	Mn	55	500.519	-0.00	-0.0541	0.005	10.081	ug/L
|	Co	59	33.367	-0.00	-0.0043	0.004	87.981	ug/L
|	Ni	60	0.000	-0.00	-0.0099	0.000	0.000	ug/L
|	Cu	65	0.000	-0.00	-0.0091	0.000	0.000	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	992670.898	992670.90				ug/L
|	As	75	216.004	0.00	0.0149	0.036	241.657	ug/L
|	Se	77	146.002	-0.00	-1.8251	0.103	5.671	ug/L
⌊	Se	82	135.402	0.00	0.0044	0.103	2335.999	ug/L
	Y	89	863911.129	24671.34				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0001	0.005	7925.529	ug/L
|	Cd	114	23.454	0.00	0.0005	0.001	212.600	ug/L
|>	In	115	875976.109	875976.11				ug/L
⌊	Sb	123	908.911	0.00	0.1291	0.003	2.324	ug/L
⌈	Ba	135	0.000	-0.00	-0.0124	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	841668.447	841668.45				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	45.334	-50.00	-0.0045	0.000	5.773	ug/L
|	Tl	205	108.335	-84.34	-0.0033	0.000	10.360	ug/L
|	Pb	206	50.005	-0.00	-0.0000	488610727067673090.000		ug/L
|	Pb	207	43.338	6.67	0.0008	0.002	229.129	ug/L
|	Pb	208	194.678	19.33	0.0005	0.000	91.419	ug/L
⌊>	Bi	209	787702.530	787702.53				ug/L
⌈	Na	23	7671.220	0.01	0.0011	0.001	74.199	mg/L
|	Mg	24	1000.070	0.00	0.0001	0.000	8.850	mg/L
|	K	39	616409.144	0.08	0.0028	0.008	282.819	mg/L
|	Ca	43	666.760	0.00	0.0333	0.058	173.205	mg/L
|	Fe	54	40465.932	0.02	0.0067	0.007	105.415	mg/L
|	Fe	57	5001.891	-0.00	-0.0039	0.004	99.751	mg/L

>	Sc	45	367909.054	367909.05	mg/L
	Cl	35	44136.551	-594434.02	mg/L
	Kr	83	153.003	-37.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		99.051			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		98.072			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		96.718			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		92.339			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		99.214			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		99.051			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 11:53:50

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0547101

Sample Date/Time: Thursday, May 24, 2001 11:58:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13345.805	1669.49				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	9169692.534	21.83	3906.2367	168.401	4.311	ug/L
|>	Sc-1	45	420376.905	420376.91				ug/L
⌈	V	51	104327.823	0.10	19.2974	1.440	7.462	ug/L
|	Cr	52	53923.413	0.04	9.2312	0.403	4.364	ug/L
|	Cr	53	5335.528	-0.02	-49.8122	4.484	9.001	ug/L
|	Mn	55	65665.906	0.06	8.3333	0.172	2.070	ug/L
|	Co	59	3404.246	0.00	0.5281	0.135	25.656	ug/L
|	Ni	60	2636.503	0.00	1.8973	0.717	37.812	ug/L
|	Cu	65	15632.885	0.02	10.4330	1.230	11.788	ug/L
|	Zn	66	21365.817	0.02	21.1941	3.680	17.364	ug/L
|>	Ge	72	1027330.944	1027330.94				ug/L
|	As	75	3036.780	0.00	2.5481	0.074	2.887	ug/L
|	Se	77	186.002	-0.00	-4.1828	0.197	4.708	ug/L
⌊	Se	82	133.952	-0.00	-0.0438	0.104	237.406	ug/L
	Y	89	865457.352	26217.57				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	200.203	0.00	0.0335	0.020	60.385	ug/L
|	Cd	114	666.280	0.00	0.2171	0.008	3.503	ug/L
|>	In	115	935484.078	935484.08				ug/L
⌊	Sb	123	42304.101	0.05	14.4029	0.292	2.027	ug/L
⌈	Ba	135	17639.457	0.02	17.3143	1.134	6.549	ug/L
|	Ce	140	28055.739	0.03				ug/L
⌊>	Tb	159	861859.917	861859.92				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	176.004	80.67	0.0182	0.003	15.233	ug/L
|	Tl	205	459.686	267.01	0.0259	0.003	11.905	ug/L
|	Pb	206	182224.360	182174.35	48.2485	1.393	2.887	ug/L
|	Pb	207	155578.187	155541.52	48.0139	0.366	0.762	ug/L
|	Pb	208	727674.015	727498.67	48.9962	0.385	0.786	ug/L
⌊>	Bi	209	804472.997	804473.00				ug/L
⌈	Na	23	84707333.649	201.92	45.7279	3.343	7.311	mg/L
|	Mg	24	934225.394	2.22	0.6536	0.019	2.978	mg/L
|	K	39	6687497.025	14.35	1.1935	0.084	7.066	mg/L
|	Ca	43	16018.830	0.04	1.7924	0.407	22.729	mg/L
|	Fe	54	1193385.734	2.75	2.7258	0.176	6.448	mg/L
|	Fe	57	412707.657	0.97	2.1090	0.407	19.306	mg/L

>	Sc	45	420376.905	420376.91	mg/L
	Cl	35	118986.291	-519584.28	mg/L
	Kr	83	141.669	-48.67	mg/L
	U	238	1333.473	1333.47	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		113.177			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		101.496			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.288			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		94.554			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		101.326			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		113.177			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547101
Report Date/Time: Thursday, May 24, 2001 11:59:00

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0547102

Sample Date/Time: Thursday, May 24, 2001 12:03:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.667	7015.36				ug/L
⌈	Be	9	33.367	-0.00	-0.0207	0.526	2544.343	ug/L
|	Al	27	3087191.074	7.21	1290.3920	91.544	7.094	ug/L
|>	Sc-1	45	428157.374	428157.37				ug/L
⌈	V	51	62480.941	0.06	11.2239	0.860	7.661	ug/L
|	Cr	52	37703.549	0.03	5.6427	0.267	4.727	ug/L
|	Cr	53	2667.600	-0.03	-55.5313	6.408	11.539	ug/L
|	Mn	55	45423.055	0.04	5.6781	0.389	6.855	ug/L
|	Co	59	2269.327	0.00	0.3456	0.134	38.857	ug/L
|	Ni	60	16000.687	0.02	11.6141	1.133	9.758	ug/L
|	Cu	65	6375.888	0.01	4.2279	0.178	4.208	ug/L
|	Zn	66	25047.346	0.02	24.6912	8.402	34.029	ug/L
|>	Ge	72	1031314.141	1031314.14				ug/L
|	As	75	2024.745	0.00	1.6378	0.063	3.840	ug/L
|	Se	77	155.335	-0.00	-4.5264	0.093	2.059	ug/L
⌊	Se	82	123.003	-0.00	-0.1399	0.098	70.122	ug/L
	Y	89	904198.331	64958.54				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0003	0.012	4272.195	ug/L
|	Cd	114	67.561	0.00	0.0156	0.005	32.810	ug/L
|>	In	115	933912.203	933912.20				ug/L
⌊	Sb	123	13602.140	0.01	4.6328	0.106	2.293	ug/L
⌈	Ba	135	5774.783	0.01	5.5542	0.667	12.001	ug/L
|	Ce	140	30063.133	0.03				ug/L
|>	Tb	159	877875.637	877875.64				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	111.669	16.33	0.0037	0.004	110.261	ug/L
|	Tl	205	295.342	102.67	0.0100	0.001	7.375	ug/L
|	Pb	206	66629.377	66579.37	17.6334	0.373	2.115	ug/L
|	Pb	207	55644.788	55608.12	17.1656	0.138	0.803	ug/L
|	Pb	208	262271.079	262095.74	17.6518	0.250	1.418	ug/L
|>	Bi	209	810371.132	810371.13				ug/L
⌈	Na	23	79886591.084	186.47	42.2289	4.966	11.759	mg/L
|	Mg	24	499283.772	1.17	0.3433	0.030	8.642	mg/L
|	K	39	4104839.058	7.99	0.6647	0.012	1.852	mg/L
|	Ca	43	18691.761	0.04	2.0622	0.368	17.823	mg/L
|	Fe	54	391081.051	0.82	0.8146	0.048	5.855	mg/L
|	Fe	57	140376.713	0.31	0.6776	0.120	17.750	mg/L

>	Sc	45	428157.374	428157.37	mg/L
	Cl	35	135284.958	-503285.62	mg/L
	Kr	83	138.003	-52.34	mg/L
	U	238	1000.210	1000.21	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		115.271			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		101.890			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		103.115			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		96.311			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		102.069			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		115.271			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547102
Report Date/Time: Thursday, May 24, 2001 12:04:10

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0547103

Sample Date/Time: Thursday, May 24, 2001 12:08:28
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.204	1001.89				ug/L
⌈	Be	9	33.367	-0.00	-0.0396	0.493	1243.400	ug/L
|	Al	27	11659659.144	24.78	4433.5668	470.497	10.612	ug/L
|>	Sc-1	45	473644.271	473644.27				ug/L
⌈	V	51	100961.763	0.10	18.8176	0.931	4.949	ug/L
|	Cr	52	61592.878	0.05	11.0389	0.807	7.311	ug/L
|	Cr	53	7670.986	-0.02	-44.7411	4.420	9.879	ug/L
|	Mn	55	329833.332	0.32	43.0485	0.876	2.035	ug/L
|	Co	59	10719.107	0.01	1.7111	0.453	26.495	ug/L
|	Ni	60	17137.695	0.02	12.6104	0.807	6.400	ug/L
|	Cu	65	7478.069	0.01	5.0241	0.361	7.189	ug/L
|	Zn	66	29396.992	0.03	29.3644	8.300	28.267	ug/L
|>	Ge	72	1018460.495	1018460.49				ug/L
|	As	75	2356.171	0.00	1.9586	0.018	0.939	ug/L
|	Se	77	218.003	-0.00	-3.8126	0.097	2.538	ug/L
⌊	Se	82	139.365	0.00	0.0123	0.059	480.036	ug/L
	Y	89	914393.025	75153.24				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	200.203	0.00	0.0344	0.021	61.240	ug/L
|	Cd	114	142.899	0.00	0.0419	0.004	8.504	ug/L
|>	In	115	916184.391	916184.39				ug/L
⌊	Sb	123	4030.907	0.00	1.3938	0.029	2.109	ug/L
⌈	Ba	135	45489.931	0.05	40.6480	4.456	10.962	ug/L
|	Ce	140	173415.763	0.18				ug/L
|>	Tb	159	951209.373	951209.37				ug/L
⌈	Ho	165	2000.467	2000.47				ug/L
|	Tl	203	404.349	309.01	0.0697	0.002	2.752	ug/L
|	Tl	205	951.406	758.74	0.0736	0.006	8.318	ug/L
|	Pb	206	104867.971	104817.97	27.7608	0.204	0.734	ug/L
|	Pb	207	91505.097	91468.43	28.2353	0.762	2.697	ug/L
|	Pb	208	423554.783	423379.44	28.5141	0.360	1.261	ug/L
|>	Bi	209	789699.915	789699.91				ug/L
⌈	Na	23	84535164.272	178.70	40.4697	1.956	4.832	mg/L
|	Mg	24	2471054.734	5.26	1.5498	0.220	14.199	mg/L
|	K	39	10283740.031	20.37	1.6939	0.293	17.313	mg/L
|	Ca	43	107814.493	0.23	10.7903	1.036	9.597	mg/L
|	Fe	54	1646301.452	3.42	3.3881	0.550	16.222	mg/L
|	Fe	57	638359.472	1.34	2.9074	0.328	11.297	mg/L

>	Sc	45	473644.271	473644.27	mg/L
	Cl	35	124414.772	-514155.80	mg/L
	Kr	83	160.003	-30.33	mg/L
	U	238	2667.180	2667.18	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		127.518			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		100.620			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		101.157			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		104.357			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		99.465			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		127.518			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547103
Report Date/Time: Thursday, May 24, 2001 12:09:17

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547104

Sample Date/Time: Thursday, May 24, 2001 12:13:35
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Rerun 2v fold JYH 5/24/01

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.667	7015.36				ug/L
[	Be	9	133.469	0.00	0.7246	0.908	125.367	ug/L
|	Al	27	32538013.854	70.79	12664.8363	554.647	4.379	ug/L
|>	Sc-1	45	459663.385	459663.39				ug/L
[	V	51	330089.339	0.33	64.1717	2.258	3.519	ug/L
|	Cr	52	122496.733	0.11	24.9831	1.150	4.601	ug/L
|	Cr	53	13680.237	-0.01	-31.3841	6.987	22.264	ug/L
|	Mn	55	1484356.748	1.48	197.6819	10.491	5.307	ug/L
|	Co	59	38643.083	0.04	6.3068	0.330	5.229	ug/L
|	Ni	60	28317.643	0.03	21.1965	0.672	3.169	ug/L
|	Cu	65	3527323.211	3.52	2420.4353	29.742	1.229	ug/L
|	Zn	66	326295.407	0.33	331.5273	12.277	3.703	ug/L
|>	Ge	72	1001864.210	1001864.21				ug/L
|	As	75	6629.947	0.01	5.9059	0.120	2.025	ug/L
|	Se	77	276.672	-0.00	-3.1138	0.170	5.463	ug/L
[	Se	82	188.005	0.00	0.4516	0.160	35.401	ug/L
	Y	89	1013550.344	174310.56				ug/L
[	Rh	103	3905.040	0.00				ug/L
|	Ag	107	4639.487	0.00	0.9390	0.077	8.228	ug/L
|	Cd	114	649.739	0.00	0.2139	0.008	3.575	ug/L
|>	In	115	924880.481	924880.48				ug/L
[	Sb	123	1146517.758	1.24	394.9736	6.620	1.676	ug/L
[	Ba	135	224465.063	0.25	215.7456	13.784	6.389	ug/L
|	Ce	140	427454.097	0.49				ug/L
|>	Tb	159	881211.661	881211.66				ug/L
[	Ho	165	5335.901	5335.90				ug/L
|	Tl	203	1245.121	1149.79	0.2592	0.013	4.920	ug/L
|	Tl	205	3144.057	2951.39	0.2864	0.006	2.247	ug/L
|	Pb	206	64724906.973	64724856.97	17142.2531	642.703	3.749	ug/L
|	Pb	207	56051652.947	56051616.28	17302.5012	303.019	1.751	ug/L
|	Pb	208	260555841.571	260555666.23	17548.1257	339.665	1.936	ug/L
|>	Bi	209	916832.612	916832.61				ug/L
[	Na	23	46657901.258	101.47	22.9785	3.252	14.152	mg/L
|	Mg	24	6725315.049	14.63	4.3087	0.078	1.803	mg/L
|	K	39	20318592.632	42.60	3.5421	0.187	5.279	mg/L
|	Ca	43	792848.939	1.73	81.6058	7.319	8.969	mg/L
|	Fe	54	5372636.203	11.60	11.4873	1.108	9.642	mg/L
|	Fe	57	2260128.710	4.90	10.6360	0.854	8.028	mg/L

> Sc	45	459663.385	459663.39		mg/L
Cl	35	123391.176	-515179.40		mg/L
Kr	83	184.004	-6.33		mg/L
U	238	5335.621	5335.62		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		123.754			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		98.980			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.118			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		96.677			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		115.478			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		123.754			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547104
Report Date/Time: Thursday, May 24, 2001 12:14:24

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
Se 77 Lower	Se	77
Sb 123 Upper, S, EEE	Sb	123
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547105

Sample Date/Time: Thursday, May 24, 2001 12:18:42
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.130	6346.82				ug/L
⌈	Be	9	100.102	0.00	0.3969	1.249	314.677	ug/L
|	Al	27	14066933.136	29.06	5199.0677	551.318	10.604	ug/L
\>	Sc-1	45	486403.799	486403.80				ug/L
⌈	V	51	127770.846	0.12	22.9066	0.203	0.886	ug/L
|	Cr	52	63612.043	0.05	10.8637	0.330	3.040	ug/L
|	Cr	53	6003.269	-0.02	-48.9554	8.016	16.375	ug/L
|	Mn	55	394000.133	0.37	49.1798	1.562	3.176	ug/L
|	Co	59	11687.917	0.01	1.7822	0.067	3.753	ug/L
|	Ni	60	9950.217	0.01	6.9893	0.471	6.732	ug/L
|	Cu	65	68158.365	0.06	43.9827	2.019	4.590	ug/L
|	Zn	66	29394.268	0.03	28.1253	3.815	13.563	ug/L
\>	Ge	72	1065434.516	1065434.52				ug/L
|	As	75	2477.209	0.00	1.9698	0.090	4.570	ug/L
|	Se	77	229.337	-0.00	-3.7990	0.182	4.788	ug/L
⌊	Se	82	154.025	0.00	0.0783	0.077	98.558	ug/L
	Y	89	989808.355	150568.57				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	233.571	0.00	0.0383	0.012	32.458	ug/L
|	Cd	114	124.382	0.00	0.0328	0.002	5.601	ug/L
\>	In	115	978414.073	978414.07				ug/L
⌊	Sb	123	33454.303	0.03	10.8867	0.077	0.711	ug/L
⌈	Ba	135	39045.378	0.04	36.1882	3.393	9.376	ug/L
|	Ce	140	153640.887	0.17				ug/L
\>	Tb	159	917227.685	917227.69				ug/L
⌈	Ho	165	1666.923	1666.92				ug/L
|	Tl	203	456.686	361.35	0.0815	0.009	11.037	ug/L
|	Tl	205	1098.429	905.76	0.0879	0.001	1.327	ug/L
|	Pb	206	833618.154	833568.15	220.7689	4.309	1.952	ug/L
|	Pb	207	704292.016	704255.35	217.3957	3.210	1.477	ug/L
|	Pb	208	3333141.872	3332966.53	224.4715	2.827	1.259	ug/L
\>	Bi	209	810191.447	810191.45				ug/L
⌈	Na	23	62669653.350	128.98	29.2101	1.880	6.435	mg/L
|	Mg	24	2817869.434	5.82	1.7131	0.158	9.220	mg/L
|	K	39	11376680.483	21.88	1.8191	0.157	8.639	mg/L
|	Ca	43	169682.914	0.35	16.6650	3.575	21.453	mg/L
|	Fe	54	1941789.857	3.92	3.8789	0.386	9.962	mg/L
|	Fe	57	689049.486	1.41	3.0523	0.311	10.181	mg/L

>	Sc	45	486403.799	486403.80	mg/L
	Cl	35	148872.243	-489698.33	mg/L
	Kr	83	173.671	-16.67	mg/L
	U	238	4334.944	4334.94	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		130.953			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		105.261			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		108.028			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		100.629			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		102.046			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		130.953			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547105
Report Date/Time: Thursday, May 24, 2001 12:19:31

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547106

Sample Date/Time: Thursday, May 24, 2001 12:23:50
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20698.029	9021.72				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	20241315.283	41.68	7457.4871	249.413	3.344	ug/L
|>	Sc-1	45	485652.285	485652.29				ug/L
⌈	V	51	146568.901	0.14	27.1529	1.537	5.662	ug/L
|	Cr	52	86745.942	0.07	16.2815	1.480	9.089	ug/L
|	Cr	53	7337.396	-0.02	-45.6601	5.497	12.038	ug/L
|	Mn	55	722788.017	0.70	93.0096	1.942	2.088	ug/L
|	Co	59	20248.974	0.02	3.1938	0.267	8.350	ug/L
|	Ni	60	17003.939	0.02	12.2979	0.751	6.103	ug/L
|	Cu	65	126164.782	0.12	83.7395	3.154	3.766	ug/L
|	Zn	66	84834.343	0.08	83.4196	1.778	2.131	ug/L
|>	Ge	72	1035290.299	1035290.30				ug/L
|	As	75	2932.932	0.00	2.4356	0.113	4.636	ug/L
|	Se	77	216.003	-0.00	-3.8717	0.240	6.201	ug/L
⌊	Se	82	179.178	0.00	0.3266	0.142	43.367	ug/L
	Y	89	908327.921	69088.13				ug/L
⌈	Rh	103	166.836	0.00				ug/L
|	Ag	107	333.675	0.00	0.0606	0.012	20.416	ug/L
|	Cd	114	218.531	0.00	0.0665	0.003	4.101	ug/L
|>	In	115	933179.827	933179.83				ug/L
⌊	Sb	123	75744.318	0.08	25.8505	0.064	0.249	ug/L
⌈	Ba	135	63511.156	0.07	61.7332	3.176	5.145	ug/L
|	Ce	140	241010.721	0.28				ug/L
|>	Tb	159	872352.183	872352.18				ug/L
⌈	Ho	165	3000.770	3000.77				ug/L
|	Tl	203	594.031	498.70	0.1124	0.010	8.454	ug/L
|	Tl	205	1514.509	1321.84	0.1283	0.005	3.675	ug/L
|	Pb	206	2301725.468	2301675.46	609.5943	7.047	1.156	ug/L
|	Pb	207	1974660.518	1974623.85	609.5441	11.556	1.896	ug/L
|	Pb	208	9140658.928	9140483.58	615.6011	5.196	0.844	ug/L
|>	Bi	209	775259.064	775259.06				ug/L
⌈	Na	23	73516324.122	151.52	34.3129	1.361	3.966	mg/L
|	Mg	24	5089505.716	10.48	3.0865	0.091	2.961	mg/L
|	K	39	18233709.525	35.95	2.9897	0.097	3.257	mg/L
|	Ca	43	272127.655	0.56	26.4633	2.254	8.517	mg/L
|	Fe	54	3100767.954	6.29	6.2255	0.170	2.728	mg/L
|	Fe	57	1208585.626	2.48	5.3820	0.622	11.562	mg/L

|> Sc	45	485652.285	485652.29		mg/L
Cl	35	139378.528	-499192.05		mg/L
Kr	83	147.336	-43.00		mg/L
U	238	4001.167	4001.17		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		130.751			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.282			
|	As	75					
|	Se	77					
\⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		103.034			
\⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		95.705			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		97.646			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		130.751			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547107

Sample Date/Time: Thursday, May 24, 2001 12:28:58
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19026.756	7350.44				ug/L
⌈	Be	9	33.367	-0.00	-0.0558	0.465	833.048	ug/L
|	Al	27	2091816.967	4.58	818.7654	53.967	6.591	ug/L
|>	Sc-1	45	455758.919	455758.92				ug/L
⌈	V	51	50895.692	0.04	8.8550	0.310	3.497	ug/L
|	Cr	52	37837.938	0.02	5.5408	0.632	11.402	ug/L
|	Cr	53	5002.078	-0.02	-50.6934	5.629	11.103	ug/L
|	Mn	55	65127.325	0.06	8.0956	0.434	5.357	ug/L
|	Co	59	2336.056	0.00	0.3486	0.044	12.489	ug/L
|	Ni	60	14295.431	0.01	10.1933	1.264	12.397	ug/L
|	Cu	65	20248.940	0.02	13.2480	0.496	3.742	ug/L
|	Zn	66	32075.410	0.03	31.2443	8.959	28.674	ug/L
|>	Ge	72	1048661.157	1048661.16				ug/L
|	As	75	3773.935	0.00	3.1381	0.111	3.540	ug/L
|	Se	77	200.003	-0.00	-4.0714	0.324	7.968	ug/L
⌊	Se	82	188.737	0.00	0.3863	0.150	38.843	ug/L
	Y	89	891750.314	52510.53				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.836	0.00	0.0265	0.023	86.674	ug/L
|	Cd	114	99.003	0.00	0.0261	0.004	16.289	ug/L
|>	In	115	938235.140	938235.14				ug/L
⌊	Sb	123	248767.786	0.27	84.5030	2.692	3.186	ug/L
⌈	Ba	135	6910.350	0.01	6.6952	1.794	26.801	ug/L
|	Ce	140	28727.046	0.03				ug/L
|>	Tb	159	879308.347	879308.35				ug/L
⌈	Ho	165	666.713	666.71				ug/L
|	Tl	203	97.002	1.67	0.0004	0.001	334.066	ug/L
|	Tl	205	229.006	36.33	0.0035	0.001	18.048	ug/L
|	Pb	206	231891.424	231841.42	61.4028	1.400	2.280	ug/L
|	Pb	207	200948.142	200911.47	62.0191	1.402	2.261	ug/L
|	Pb	208	937428.351	937253.01	63.1229	0.787	1.247	ug/L
|>	Bi	209	780173.284	780173.28				ug/L
⌈	Na	23	65080024.633	142.77	32.3322	0.848	2.623	mg/L
|	Mg	24	719156.569	1.58	0.4642	0.010	2.221	mg/L
|	K	39	2791867.690	4.53	0.3768	0.032	8.473	mg/L
|	Ca	43	89895.543	0.20	9.3268	0.022	0.237	mg/L
|	Fe	54	455100.397	0.91	0.8963	0.063	7.074	mg/L
|	Fe	57	135960.228	0.28	0.6082	0.069	11.407	mg/L

>	Sc	45	455758.919	455758.92	mg/L
	Cl	35	133251.556	-505319.02	mg/L
	Kr	83	137.669	-52.67	mg/L
	U	238	666.713	666.71	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
[	Be	9					
|	Al	27					
>	Sc-1	45		122.702			
[	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.603			
|	As	75					
|	Se	77					
[	Se	82					
	Y	89					
[	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.592			
[	Sb	123					
[	Ba	135					
|	Ce	140					
>	Tb	159		96.469			
[	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		98.265			
[	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		122.702			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547107
Report Date/Time: Thursday, May 24, 2001 12:29:47

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547108

Sample Date/Time: Thursday, May 24, 2001 12:34:06
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	4342.24				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	2023944.893	4.28	766.2755	39.989	5.219	ug/L
|>	Sc-1	45	471401.290	471401.29				ug/L
⌈	V	51	160855.218	0.15	29.5125	0.813	2.756	ug/L
|	Cr	52	30327.945	0.02	3.9205	0.286	7.288	ug/L
|	Cr	53	3667.810	-0.02	-53.5618	4.214	7.868	ug/L
|	Mn	55	38173.252	0.03	4.6621	0.238	5.107	ug/L
|	Co	59	2102.423	0.00	0.3129	0.080	25.568	ug/L
|	Ni	60	8246.471	0.01	5.8762	1.208	20.559	ug/L
|	Cu	65	3137.190	0.00	2.0319	0.517	25.440	ug/L
|	Zn	66	48498.469	0.05	47.1473	5.203	11.036	ug/L
|>	Ge	72	1048194.816	1048194.82				ug/L
|	As	75	4435.700	0.00	3.7182	0.086	2.326	ug/L
|	Se	77	183.336	-0.00	-4.2537	0.075	1.771	ug/L
⌊	Se	82	139.764	-0.00	-0.0194	0.141	728.885	ug/L
	Y	89	877842.918	38603.13				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0001	0.012	19325.031	ug/L
|	Cd	114	114.004	0.00	0.0319	0.002	7.328	ug/L
|>	In	115	918723.501	918723.50				ug/L
⌊	Sb	123	452.820	0.00	0.1493	0.001	0.728	ug/L
⌈	Ba	135	8313.179	0.01	7.8926	0.563	7.136	ug/L
|	Ce	140	10341.109	0.01				ug/L
|>	Tb	159	886895.606	886895.61				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	84.335	-11.00	-0.0025	0.002	91.060	ug/L
|	Tl	205	197.338	4.67	0.0005	0.002	439.328	ug/L
|	Pb	206	3204.374	3154.37	0.8354	0.051	6.153	ug/L
|	Pb	207	2607.405	2570.73	0.7936	0.066	8.368	ug/L
|	Pb	208	12574.715	12399.37	0.8351	0.012	1.392	ug/L
|>	Bi	209	782799.868	782799.87				ug/L
⌈	Na	23	67146057.161	142.41	32.2494	1.223	3.792	mg/L
|	Mg	24	710407.537	1.50	0.4433	0.062	14.027	mg/L
|	K	39	2943364.386	4.65	0.3865	0.004	1.013	mg/L
|	Ca	43	45816.523	0.10	4.6009	0.896	19.472	mg/L
|	Fe	54	303872.525	0.55	0.5461	0.043	7.925	mg/L
|	Fe	57	104091.009	0.20	0.4412	0.055	12.561	mg/L

> Sc	45	471401.290	471401.29		mg/L
Cl	35	104432.896	-534137.68		mg/L
Kr	83	144.336	-46.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		126.914			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.557			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		101.438			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		97.301			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		98.596			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		126.914			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547109

Sample Date/Time: Thursday, May 24, 2001 12:39:15
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21700.531	10024.22				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	3993747.182	8.21	1469.1421	191.356	13.025	ug/L
|>	Sc-1	45	486712.829	486712.83				ug/L
⌈	V	51	74717.002	0.07	14.0651	0.691	4.910	ug/L
|	Cr	52	30428.458	0.02	4.2937	0.433	10.084	ug/L
|	Cr	53	3334.407	-0.02	-53.8907	5.480	10.169	ug/L
|	Mn	55	80666.561	0.08	10.6175	0.061	0.578	ug/L
|	Co	59	3237.311	0.00	0.5170	0.065	12.515	ug/L
|	Ni	60	18743.411	0.02	14.0965	1.042	7.392	ug/L
|	Cu	65	4138.671	0.00	2.8373	0.179	6.313	ug/L
|	Zn	66	51185.695	0.05	52.2618	7.301	13.970	ug/L
|>	Ge	72	995599.944	995599.94				ug/L
|	As	75	4251.280	0.00	3.7538	0.105	2.792	ug/L
|	Se	77	189.336	-0.00	-4.0817	0.060	1.471	ug/L
⌊	Se	82	170.149	0.00	0.3078	0.054	17.426	ug/L
	Y	89	867753.787	28514.00				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	200.204	0.00	0.0370	0.038	102.877	ug/L
|	Cd	114	72.345	0.00	0.0192	0.002	10.564	ug/L
|>	In	115	861111.603	861111.60				ug/L
⌊	Sb	123	3402.452	0.00	1.2510	0.026	2.070	ug/L
⌈	Ba	135	16903.713	0.02	17.6646	2.856	16.169	ug/L
|	Ce	140	22703.267	0.03				ug/L
|>	Tb	159	814062.582	814062.58				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	273.675	178.34	0.0402	0.003	7.467	ug/L
|	Tl	205	665.371	472.70	0.0459	0.002	4.539	ug/L
|	Pb	206	57425.644	57375.64	15.1958	0.116	0.765	ug/L
|	Pb	207	50670.833	50634.16	15.6302	0.228	1.456	ug/L
|	Pb	208	231283.555	231108.21	15.5649	0.037	0.240	ug/L
|>	Bi	209	748644.076	748644.08				ug/L
⌈	Na	23	60947959.577	125.28	28.3713	0.820	2.891	mg/L
|	Mg	24	1283195.614	2.64	0.7761	0.028	3.584	mg/L
|	K	39	4404225.387	7.47	0.6213	0.072	11.628	mg/L
|	Ca	43	114262.656	0.23	11.1017	2.160	19.461	mg/L
|	Fe	54	529536.094	1.00	0.9860	0.090	9.147	mg/L
|	Fe	57	177860.135	0.35	0.7559	0.076	10.019	mg/L

|> Sc	45	486712.829	486712.83		mg/L
Cl	35	110199.948	-528370.63		mg/L
Kr	83	248.007	57.67		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		131.036			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.361			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		95.077			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		89.311			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		94.294			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		131.036			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547109
Report Date/Time: Thursday, May 24, 2001 12:40:05

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0547110

Sample Date/Time: Thursday, May 24, 2001 12:44:24
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17355.530	5679.22				ug/L
⌈	Be	9	100.102	0.00	0.4848	1.401	289.024	ug/L
|	Al	27	14161876.512	31.48	5632.3062	137.569	2.442	ug/L
|>	Sc-1	45	449726.087	449726.09				ug/L
⌈	V	51	196019.810	0.20	39.1352	1.292	3.300	ug/L
|	Cr	52	52141.850	0.04	9.5345	0.516	5.415	ug/L
|	Cr	53	6336.719	-0.02	-46.8762	7.952	16.964	ug/L
|	Mn	55	1031995.805	1.06	142.0703	1.522	1.071	ug/L
|	Co	59	18341.839	0.02	3.0892	0.023	0.742	ug/L
|	Ni	60	13459.468	0.01	10.4048	0.463	4.447	ug/L
|	Cu	65	29624.234	0.03	21.0040	0.492	2.340	ug/L
|	Zn	66	31069.719	0.03	32.6304	7.213	22.106	ug/L
| >	Ge	72	968640.183	968640.18				ug/L
|	As	75	5596.374	0.01	5.1352	0.146	2.850	ug/L
|	Se	77	200.670	-0.00	-3.8895	0.299	7.687	ug/L
⌊	Se	82	178.657	0.00	0.4244	0.055	13.019	ug/L
	Y	89	852453.323	13213.54				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	367.046	0.00	0.0744	0.057	76.107	ug/L
|	Cd	114	286.666	0.00	0.0982	0.008	7.851	ug/L
| >	In	115	856297.005	856297.00				ug/L
⌊	Sb	123	16529.159	0.02	6.1431	0.150	2.447	ug/L
⌈	Ba	135	66070.845	0.08	64.5854	9.257	14.333	ug/L
|	Ce	140	166934.977	0.19				ug/L
|>	Tb	159	872060.983	872060.98				ug/L
⌈	Ho	165	2334.010	2334.01				ug/L
|	Tl	203	415.683	320.35	0.0722	0.006	7.813	ug/L
|	Tl	205	972.743	780.07	0.0757	0.002	2.721	ug/L
|	Pb	206	533330.701	533280.70	141.2384	1.651	1.169	ug/L
|	Pb	207	462712.626	462675.96	142.8228	1.343	0.940	ug/L
|	Pb	208	2130252.511	2130077.17	143.4583	0.708	0.494	ug/L
|>	Bi	209	732297.448	732297.45				ug/L
⌈	Na	23	35294722.354	78.45	17.7653	1.323	7.450	mg/L
|	Mg	24	2627121.349	5.84	1.7197	0.084	4.913	mg/L
|	K	39	9317046.826	19.12	1.5902	0.166	10.427	mg/L
|	Ca	43	905530.464	2.01	95.1760	7.236	7.603	mg/L
|	Fe	54	1567064.040	3.39	3.3584	0.064	1.911	mg/L
|	Fe	57	569240.775	1.25	2.7089	0.221	8.149	mg/L

> Sc	45	449726.087	449726.09		mg/L
Cl	35	109842.982	-528727.59		mg/L
Kr	83	150.003	-40.33		mg/L
U	238	7676.130	7676.13		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
[	Be	9					
|	Al	27					
>	Sc-1	45		121.078			
[	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		95.698			
|	As	75					
|	Se	77					
[	Se	82					
	Y	89					
[	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		94.545			
[	Sb	123					
[	Ba	135					
|	Ce	140					
>	Tb	159		95.674			
[	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		92.235			
[	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		121.078			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547110
Report Date/Time: Thursday, May 24, 2001 12:45:14

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 12:54:08
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18358.500	6682.19				ug/L
⌈	Be	9	13091.930	0.03	48.0812	13.230	27.515	ug/L
|	Al	27	289425.060	0.72	51.7752	10.134	19.572	ug/L
|>	Sc-1	45	400750.278	400750.28				ug/L
⌈	V	51	702176.458	0.68	53.9253	2.262	4.195	ug/L
|	Cr	52	604761.483	0.58	52.4690	1.700	3.241	ug/L
|	Cr	53	77764.690	0.05	41.9703	12.165	28.984	ug/L
|	Mn	55	959607.194	0.94	50.1759	3.009	5.996	ug/L
|	Co	59	772939.548	0.76	49.7183	1.270	2.554	ug/L
|	Ni	60	165048.484	0.16	48.5996	0.294	0.605	ug/L
|	Cu	65	195398.427	0.19	52.6948	1.485	2.817	ug/L
|	Zn	66	131563.746	0.13	52.4905	9.782	18.635	ug/L
|>	Ge	72	1019499.385	1019499.39				ug/L
|	As	75	131333.047	0.13	47.1843	0.234	0.495	ug/L
|	Se	77	11281.574	0.01	47.2809	1.974	4.175	ug/L
⌊	Se	82	14512.481	0.01	48.8700	0.500	1.024	ug/L
	Y	89	889934.279	50694.49				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	565852.649	0.64	47.9383	2.048	4.271	ug/L
|	Cd	114	347247.220	0.39	49.0618	0.713	1.452	ug/L
|>	In	115	891254.723	891254.72				ug/L
⌊	Sb	123	331524.660	0.37	47.4009	0.843	1.779	ug/L
⌈	Ba	135	112355.320	0.13	45.3914	2.018	4.445	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	838520.660	838520.66				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	527180.064	527084.73	47.5280	0.627	1.320	ug/L
|	Tl	205	1325365.097	1325172.43	51.4324	0.494	0.960	ug/L
|	Pb	206	476719.281	476669.28	50.4980	0.713	1.412	ug/L
|	Pb	207	367340.825	367304.15	45.3531	1.461	3.222	ug/L
|	Pb	208	1799558.598	1799383.25	48.4746	0.673	1.388	ug/L
|>	Bi	209	777486.191	777486.19				ug/L
⌈	Na	23	22747878.980	57.15	5.1769	0.639	12.344	mg/L
|	Mg	24	17207789.342	43.56	5.1321	0.765	14.910	mg/L
|	K	39	57482175.073	143.82	4.7839	0.674	14.089	mg/L
|	Ca	43	100375.010	0.25	4.7811	0.745	15.586	mg/L
|	Fe	54	4342210.247	10.84	4.2918	0.475	11.075	mg/L
|	Fe	57	2010556.290	5.06	4.3914	0.542	12.340	mg/L

\> Sc	45	400750.278	400750.28		mg/L
Cl	35	45478.796	-593091.78		mg/L
Kr	83	142.003	-48.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	96.162				
|	Al	27	103.550				
\>	Sc-1	45		107.893			
⌈	V	51	107.851				
|	Cr	52	104.938				
|	Cr	53	83.941				
|	Mn	55	100.352				
|	Co	59	99.437				
|	Ni	60	97.199				
|	Cu	65	105.390				
|	Zn	66	104.981				
\>	Ge	72		100.722			
|	As	75	94.369				
|	Se	77	94.562				
⌊	Se	82	97.740				
	Y	89					
⌈	Rh	103					
|	Ag	107	95.877				
|	Cd	114	98.124				
\>	In	115		98.405			
⌊	Sb	123	94.802				
⌈	Ba	135	90.783				
|	Ce	140					
\>	Tb	159		91.994			
⌈	Ho	165					
|	Tl	203	95.056				
|	Tl	205	102.865				
|	Pb	206	100.996				
|	Pb	207	90.706				
|	Pb	208	96.949				
\>	Bi	209		97.927			
⌈	Na	23	103.538				
|	Mg	24	102.642				
|	K	39	95.678				
|	Ca	43	95.623				
|	Fe	54	85.836				
|	Fe	57	87.828				
\>	Sc	45		107.893			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 12:54:57

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 12:59:15
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.516	3340.20				ug/L
⌈	Be	9	66.734	0.00	0.1119	0.209	187.007	ug/L
|	Al	27	4334.664	-0.00	-0.1004	0.100	99.358	ug/L
|>	Sc-1	45	388289.696	388289.70				ug/L
⌈	V	51	2440.835	-0.00	-0.0864	0.078	90.094	ug/L
|	Cr	52	11320.400	-0.00	-0.0183	0.154	841.749	ug/L
|	Cr	53	2333.730	-0.03	-22.4211	0.528	2.354	ug/L
|	Mn	55	133.468	-0.00	-0.0739	0.003	3.895	ug/L
|	Co	59	0.000	-0.00	-0.0065	0.000	0.000	ug/L
|	Ni	60	33.367	0.00	0.0003	0.018	5709.240	ug/L
|	Cu	65	0.000	-0.00	-0.0091	0.000	0.000	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	998482.781	998482.78				ug/L
|	As	75	81.521	-0.00	-0.0349	0.015	43.942	ug/L
|	Se	77	149.335	-0.00	-1.8139	0.115	6.361	ug/L
⌊	Se	82	109.024	-0.00	-0.0900	0.064	71.327	ug/L
	Y	89	821810.069	-17429.72				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0001	0.005	3589.359	ug/L
|	Cd	114	24.168	0.00	0.0006	0.000	73.240	ug/L
|>	In	115	874878.579	874878.58				ug/L
⌊	Sb	123	884.252	0.00	0.1257	0.004	2.988	ug/L
⌈	Ba	135	133.469	0.00	0.0402	0.061	150.438	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	858689.755	858689.75				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	41.667	-53.67	-0.0048	0.000	3.879	ug/L
|	Tl	205	75.334	-117.34	-0.0046	0.000	3.548	ug/L
|	Pb	206	60.006	10.00	0.0011	0.003	264.574	ug/L
|	Pb	207	66.674	30.00	0.0037	0.006	157.527	ug/L
|	Pb	208	264.349	89.01	0.0024	0.002	99.422	ug/L
|>	Bi	209	769451.832	769451.83				ug/L
⌈	Na	23	5669.118	0.01	0.0005	0.000	90.764	mg/L
|	Mg	24	1666.923	0.00	0.0003	0.000	125.738	mg/L
|	K	39	689793.003	0.19	0.0062	0.005	76.346	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	38456.142	0.01	0.0023	0.008	342.525	mg/L
|	Fe	57	9006.001	0.01	0.0047	0.007	141.816	mg/L

>	Sc	45	388289.696	388289.70		mg/L
	Cl	35	38101.914	-600468.66		mg/L
	Kr	83	143.003	-47.33		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		104.538			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		98.646			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		96.597			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		94.207			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		96.915			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		104.538			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 13:00:04

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0547104 SDL-20

Sample Date/Time: Thursday, May 24, 2001 13:04:23
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 1000.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 20

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17689.962	6013.65				ug/L
⌈	Be	9	33.367	-0.00	-0.3892	4.941	1269.407	ug/L
|	Al	27	3546594.507	8.61	15404.9952	1459.010	9.471	ug/L
|>	Sc-1	45	412601.621	412601.62				ug/L
⌈	V	51	33347.629	0.03	57.4114	6.844	11.921	ug/L
|	Cr	52	20985.296	0.01	20.3429	4.843	23.805	ug/L
|	Cr	53	3667.670	-0.02	-533.0838	25.334	4.752	ug/L
|	Mn	55	148104.056	0.14	191.8794	14.054	7.324	ug/L
|	Co	59	3304.082	0.00	5.1597	0.977	18.927	ug/L
|	Ni	60	3771.443	0.00	27.4619	2.920	10.635	ug/L
|	Cu	65	366843.805	0.36	2472.9043	84.234	3.406	ug/L
|	Zn	66	54556.828	0.05	543.0321	178.852	32.936	ug/L
|>	Ge	72	1020309.223	1020309.22				ug/L
|	As	75	785.870	0.00	5.4419	0.572	10.505	ug/L
|	Se	77	136.668	-0.00	-47.1230	0.915	1.942	ug/L
⌊	Se	82	112.647	-0.00	-2.1485	1.781	82.890	ug/L
	Y	89	869792.280	30552.49				ug/L
⌈	Rh	103	333.675	0.00				ug/L
|	Ag	107	233.572	0.00	0.4278	0.324	75.697	ug/L
|	Cd	114	115.154	0.00	0.3380	0.027	8.076	ug/L
|>	In	115	884063.071	884063.07				ug/L
⌊	Sb	123	118040.951	0.13	425.3090	4.612	1.084	ug/L
⌈	Ba	135	20315.837	0.02	208.4036	16.573	7.952	ug/L
|	Ce	140	43471.035	0.05				ug/L
|>	Tb	159	825870.826	825870.83				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	148.670	53.33	0.1202	0.021	17.422	ug/L
|	Tl	205	350.345	157.67	0.1530	0.010	6.353	ug/L
|	Pb	206	6034673.522	6034623.52	15982.5836	12.101	0.076	ug/L
|	Pb	207	5140048.452	5140011.78	15866.6362	351.780	2.217	ug/L
|	Pb	208	24256847.561	24256672.22	16336.5909	86.266	0.528	ug/L
|>	Bi	209	807972.962	807972.96				ug/L
⌈	Na	23	4713136.705	11.47	25.9766	3.746	14.420	mg/L
|	Mg	24	761543.149	1.85	5.4422	0.331	6.089	mg/L
|	K	39	2705298.149	4.98	4.1411	0.453	10.947	mg/L
|	Ca	43	74726.039	0.18	85.4233	6.279	7.350	mg/L
|	Fe	54	554157.870	1.25	12.4107	0.974	7.845	mg/L
|	Fe	57	215197.911	0.50	10.9376	0.116	1.059	mg/L

>	Sc	45	412601.621	412601.62	mg/L
	Cl	35	38107.420	-600463.15	mg/L
	Kr	83	148.336	-42.00	mg/L
	U	238	666.713	666.71	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		111.083			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		100.802			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		97.611			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		90.606			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		101.767			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		111.083			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0547104 SDL-20
Report Date/Time: Thursday, May 24, 2001 13:05:13

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208

Method 6020 - Summary Report

Sample ID: PBS PJ WG97429-03

Sample Date/Time: Thursday, May 24, 2001 13:09:32
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 500.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21366.380	9690.07				ug/L
⌈	Be	9	0.000	-0.00	-129.6752	0.000	0.000	ug/L
|	Al	27	12678.859	0.02	1186.6084	638.790	53.833	ug/L
|>	Sc-1	45	430997.122	430997.12				ug/L
⌈	V	51	3131.024	-0.00	-39.1935	131.695	336.014	ug/L
|	Cr	52	14194.982	0.00	198.7047	76.224	38.361	ug/L
|	Cr	53	333.357	-0.03	-24179.1502	492.442	2.037	ug/L
|	Mn	55	1368.172	-0.00	-10.3017	18.944	183.893	ug/L
|	Co	59	33.367	-0.00	-4.3651	3.676	84.215	ug/L
|	Ni	60	33.367	-0.00	-0.1004	16.970	16897.103	ug/L
|	Cu	65	166.836	0.00	35.4819	15.712	44.281	ug/L
|	Zn	66	12344.801	0.01	4860.3137	1594.232	32.801	ug/L
|>	Ge	72	1032132.639	1032132.64				ug/L
|	As	75	137.497	-0.00	-16.2718	5.665	34.817	ug/L
|	Se	77	155.335	-0.00	-1810.6924	121.601	6.716	ug/L
⌊	Se	82	122.756	-0.00	-57.1222	20.644	36.140	ug/L
	Y	89	843175.384	3935.60				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-2.7812	0.000	0.000	ug/L
|	Cd	114	16.679	-0.00	-0.5835	0.310	53.154	ug/L
|>	In	115	915097.965	915097.97				ug/L
⌊	Sb	123	304.823	0.00	39.3462	0.644	1.637	ug/L
⌈	Ba	135	33.367	0.00	0.1687	21.760	12895.556	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	899661.399	899661.40				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	28.334	-67.00	-6.0416	0.683	11.301	ug/L
|	Tl	205	54.667	-138.00	-5.3562	0.081	1.508	ug/L
|	Pb	206	186.688	136.68	14.4801	2.666	18.414	ug/L
|	Pb	207	176.687	140.02	17.2886	2.571	14.869	ug/L
|	Pb	208	757.723	582.38	15.6890	1.524	9.716	ug/L
|>	Bi	209	797552.919	797552.92				ug/L
⌈	Na	23	30400.195	0.06	5.6636	1.884	33.259	mg/L
|	Mg	24	3667.624	0.01	0.7899	0.134	16.953	mg/L
|	K	39	642841.377	-0.10	-3.2997	5.955	180.472	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	95254.198	0.13	51.9744	23.944	46.068	mg/L
|	Fe	57	5336.322	-0.01	-4.9735	9.261	186.201	mg/L

\> Sc	45	430997.122	430997.12		mg/L
Cl	35	42461.900	-596108.67		mg/L
Kr	83	158.003	-32.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		116.036			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.970			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.037			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		98.702			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.454			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		116.036			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS PJ WG97429-03
Report Date/Time: Thursday, May 24, 2001 13:10:22

Be 9 Lower	Be	9
V 51 Lower	V	51
Cr 53 Lower	Cr	53
Mn 55 Lower	Mn	55
Co 59 Lower	Co	59
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
Tl 203 Lower	Tl	203
Tl 205 Lower	Tl	205
K 39 Lower	K	39
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: LCSS PJ WG97429-04

Sample Date/Time: Thursday, May 24, 2001 13:15:06
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.430	5010.12				ug/L
⌈	Be	9	2636.486	0.01	9636.8359	3504.495	36.366	ug/L
|	Al	27	76744.600	0.18	13058.9879	914.223	7.001	ug/L
|>	Sc-1	45	394300.637	394300.64				ug/L
⌈	V	51	145759.141	0.14	10752.1274	514.211	4.782	ug/L
|	Cr	52	138978.477	0.12	11009.4460	673.787	6.120	ug/L
|	Cr	53	17354.687	-0.01	-9903.0504	2272.047	22.943	ug/L
|	Mn	55	224633.010	0.21	11450.1465	360.958	3.152	ug/L
|	Co	59	161535.584	0.16	10170.1282	324.105	3.187	ug/L
|	Ni	60	35490.039	0.03	10230.3025	262.201	2.563	ug/L
|	Cu	65	38106.046	0.04	10062.4816	209.438	2.081	ug/L
|	Zn	66	33077.299	0.03	12961.8313	1934.422	14.924	ug/L
|>	Ge	72	1040866.753	1040866.75				ug/L
|	As	75	25524.011	0.02	8929.6284	62.609	0.701	ug/L
|	Se	77	2074.968	0.00	6478.1783	228.384	3.525	ug/L
⌊	Se	82	2733.054	0.00	8632.6238	163.271	1.891	ug/L
	Y	89	849452.787	10213.00				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	120087.066	0.13	10039.8210	155.012	1.544	ug/L
|	Cd	114	67790.219	0.08	9455.2787	266.262	2.816	ug/L
|>	In	115	902747.808	902747.81				ug/L
⌊	Sb	123	67396.337	0.07	9512.6735	203.640	2.141	ug/L
⌈	Ba	135	23160.748	0.03	8745.1336	1202.624	13.752	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	900918.025	900918.02				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	108217.045	108121.71	9749.4884	79.817	0.819	ug/L
|	Tl	205	272553.024	272360.35	10570.8206	50.032	0.473	ug/L
|	Pb	206	100475.717	100425.71	10639.0222	404.574	3.803	ug/L
|	Pb	207	75952.695	75916.02	9373.7679	203.823	2.174	ug/L
|	Pb	208	374495.503	374320.16	10084.0136	141.262	1.401	ug/L
|>	Bi	209	801550.816	801550.82				ug/L
⌈	Na	23	21700.343	0.05	4.1638	0.732	17.572	mg/L
|	Mg	24	4001.307	0.01	1.0046	0.626	62.331	mg/L
|	K	39	649981.124	0.06	1.9316	3.621	187.455	mg/L
|	Ca	43	333.357	0.00	16.0212	27.750	173.205	mg/L
|	Fe	54	87999.985	0.13	51.7466	1.524	2.945	mg/L
|	Fe	57	8672.130	0.00	3.5208	4.488	127.468	mg/L

\>	Sc	45	394300.637	394300.64	mg/L
	Cl	35	43132.269	-595438.31	mg/L
	Kr	83	144.003	-46.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		106.156			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.833			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.674			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		98.839			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		100.958			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		106.156			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS PJ WG97429-04
Report Date/Time: Thursday, May 24, 2001 13:16:05
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Sample ID: LCSS PJ WG97429-04
Report Date/Time: Thursday, May 24, 2001 13:16:05
Page 3

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, May 24, 2001 13:20:24
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.350	4008.04				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	51943214.888	136.37	9758.9015	241.747	2.477	ug/L
|>	Sc-1	45	381282.035	381282.04				ug/L
⌈	V	51	3654.249	0.00	0.0137	0.122	887.694	ug/L
|	Cr	52	14763.440	0.00	0.3112	0.152	48.982	ug/L
|	Cr	53	2667.273	-0.03	-22.0968	1.362	6.162	ug/L
|	Mn	55	4439.154	0.00	0.1598	0.017	10.625	ug/L
|	Co	59	1401.545	0.00	0.0868	0.024	27.239	ug/L
|	Ni	60	1701.906	0.00	0.5090	0.061	11.997	ug/L
|	Cu	65	1101.192	0.00	0.2983	0.101	33.707	ug/L
|	Zn	66	1666.877	0.00	0.6888	0.238	34.479	ug/L
|>	Ge	72	984845.580	984845.58				ug/L
|	As	75	180.284	0.00	0.0020	0.010	472.120	ug/L
|	Se	77	454.014	-0.00	-0.4146	0.083	19.949	ug/L
⌊	Se	82	110.770	-0.00	-0.0795	0.022	27.649	ug/L
	Y	89	773403.310	-65836.48				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	233.571	0.00	0.0179	0.010	57.445	ug/L
|	Cd	114	2546.532	0.00	0.3727	0.007	1.746	ug/L
|>	In	115	853811.246	853811.25				ug/L
⌊	Sb	123	964.215	0.00	0.1408	0.006	4.028	ug/L
⌈	Ba	135	200.204	0.00	0.0708	0.075	105.806	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	835786.315	835786.32				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	65.668	-29.67	-0.0027	0.000	16.966	ug/L
|	Tl	205	172.004	-20.67	-0.0008	0.000	36.531	ug/L
|	Pb	206	1110.198	1060.19	0.1123	0.008	6.803	ug/L
|	Pb	207	900.147	863.48	0.1066	0.011	9.897	ug/L
|	Pb	208	4326.744	4151.40	0.1118	0.003	3.036	ug/L
|>	Bi	209	747604.398	747604.40				ug/L
⌈	Na	23	103129457.024	270.59	24.5115	1.278	5.215	mg/L
|	Mg	24	32369371.957	84.92	10.0049	0.125	1.252	mg/L
|	K	39	108269638.993	282.99	9.4129	0.635	6.743	mg/L
|	Ca	43	574930.245	1.52	28.6696	3.072	10.716	mg/L
|	Fe	54	19948831.863	52.41	20.7551	1.555	7.491	mg/L
|	Fe	57	8807854.530	23.21	20.1630	2.290	11.356	mg/L

|> Sc	45	381282.035	381282.04		mg/L
Cl	35	5308699.520	4670128.95		mg/L
Kr	83	192.005	1.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	97.589				
|>	Sc-1	45		102.651			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.299			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		94.271			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		91.694			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		94.163			
⌈	Na	23	98.046				
|	Mg	24	100.049				
|	K	39	94.129				
|	Ca	43	95.565				
|	Fe	54	83.021				
|	Fe	57	80.652				
|>	Sc	45		102.651			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Thursday, May 24, 2001 13:21:14
Page 2

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, May 24, 2001 13:25:34
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17354.968	5678.66				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	56451493.916	155.35	11117.4389	1109.134	9.977	ug/L
|>	Sc-1	45	364411.665	364411.66				ug/L
⌈	V	51	266900.867	0.27	21.4214	0.679	3.168	ug/L
|	Cr	52	243900.816	0.24	21.6842	0.149	0.688	ug/L
|	Cr	53	30063.180	0.00	2.6151	0.815	31.166	ug/L
|	Mn	55	346979.313	0.36	19.0597	0.869	4.561	ug/L
|	Co	59	270880.523	0.28	18.3453	0.808	4.404	ug/L
|	Ni	60	62938.909	0.06	19.5096	0.611	3.131	ug/L
|	Cu	65	70011.148	0.07	19.8784	0.200	1.004	ug/L
|	Zn	66	28390.641	0.03	11.9465	1.997	16.713	ug/L
|>	Ge	72	968185.374	968185.37				ug/L
|	As	75	24284.066	0.02	9.1341	0.081	0.884	ug/L
|	Se	77	2392.401	0.00	8.6231	0.212	2.459	ug/L
⌊	Se	82	2696.332	0.00	9.1822	0.296	3.220	ug/L
	Y	89	825429.413	-13810.37				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	52780.523	0.06	4.6682	0.277	5.926	ug/L
|	Cd	114	65897.642	0.08	9.7211	0.114	1.175	ug/L
|>	In	115	853366.154	853366.15				ug/L
⌊	Sb	123	821.063	0.00	0.1195	0.005	3.872	ug/L
⌈	Ba	135	66.734	0.00	0.0177	0.026	147.171	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	757492.263	757492.26				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	74.334	-21.00	-0.0019	0.002	79.302	ug/L
|	Tl	205	164.004	-28.67	-0.0011	0.000	33.277	ug/L
|	Pb	206	1113.532	1063.53	0.1127	0.015	13.705	ug/L
|	Pb	207	956.827	920.16	0.1136	0.008	6.642	ug/L
|	Pb	208	4357.748	4182.40	0.1127	0.002	2.030	ug/L
|>	Bi	209	735763.424	735763.42				ug/L
⌈	Na	23	111737925.891	306.43	27.7577	0.635	2.287	mg/L
|	Mg	24	32924275.476	90.16	10.6217	0.874	8.226	mg/L
|	K	39	104345153.145	285.46	9.4950	0.904	9.521	mg/L
|	Ca	43	591624.745	1.62	30.6809	1.234	4.022	mg/L
|	Fe	54	20617894.342	56.51	22.3810	1.674	7.481	mg/L
|	Fe	57	8955575.360	24.56	21.3332	0.403	1.888	mg/L

> Sc	45	364411.665	364411.66		mg/L
Cl	35	5478959.286	4840388.71		mg/L
Kr	83	180.004	-10.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	111.174				
⌊>	Sc-1	45			98.109		
⌈	V	51	107.107				
|	Cr	52	108.421				
|	Cr	53	13.075				
|	Mn	55	95.298				
|	Co	59	91.726				
|	Ni	60	97.548				
|	Cu	65	99.392				
|	Zn	66	119.465				
|>	Ge	72			95.653		
|	As	75	91.341				
|	Se	77	86.231				
⌊	Se	82	91.822				
	Y	89					
⌈	Rh	103					
|	Ag	107	93.363				
|	Cd	114	97.211				
|>	In	115			94.221		
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159			83.104		
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209			92.672		
⌈	Na	23	111.031				
|	Mg	24	106.217				
|	K	39	94.950				
|	Ca	43	102.270				
|	Fe	54	89.524				
|	Fe	57	85.333				
⌊>	Sc	45			98.109		
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Thursday, May 24, 2001 13:26:25

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 13:30:44
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13011.981	1335.67				ug/L
⌈	Be	9	14128.138	0.03	49.5443	7.323	14.780	ug/L
|	Al	27	267250.159	0.64	45.9779	9.288	20.202	ug/L
⌊>	Sc-1	45	415186.428	415186.43				ug/L
⌈	V	51	678266.819	0.66	52.1074	2.264	4.344	ug/L
|	Cr	52	591669.685	0.57	51.3001	1.165	2.270	ug/L
|	Cr	53	69336.166	0.04	34.9082	5.866	16.805	ug/L
|	Mn	55	966509.566	0.95	50.5603	2.632	5.206	ug/L
|	Co	59	720867.724	0.71	46.3606	1.327	2.863	ug/L
|	Ni	60	160547.383	0.16	47.2174	1.544	3.271	ug/L
|	Cu	65	182619.360	0.18	49.2339	0.344	0.699	ug/L
|	Zn	66	123391.990	0.12	49.2993	3.415	6.927	ug/L
|>	Ge	72	1020092.459	1020092.46				ug/L
|	As	75	128860.300	0.13	46.2978	1.711	3.696	ug/L
|	Se	77	11049.874	0.01	46.2419	1.370	2.962	ug/L
⌊	Se	82	14250.837	0.01	47.9819	1.733	3.613	ug/L
	Y	89	861854.798	22615.01				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	568073.751	0.63	47.7514	0.625	1.310	ug/L
|	Cd	114	334184.248	0.37	46.8591	1.123	2.397	ug/L
|>	In	115	898062.536	898062.54				ug/L
⌊	Sb	123	320877.609	0.36	45.5297	0.844	1.853	ug/L
⌈	Ba	135	105038.714	0.12	42.0884	1.679	3.989	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	845297.810	845297.81				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	512513.452	512418.12	46.2055	0.116	0.251	ug/L
|	Tl	205	1301595.336	1301402.66	50.5099	1.030	2.039	ug/L
|	Pb	206	474133.376	474083.37	50.2240	1.344	2.676	ug/L
|	Pb	207	368842.830	368806.16	45.5385	0.166	0.365	ug/L
|	Pb	208	1785826.486	1785651.14	48.1046	0.722	1.500	ug/L
⌊>	Bi	209	784416.192	784416.19				ug/L
⌈	Na	23	22898527.186	55.72	5.0474	0.675	13.367	mg/L
|	Mg	24	18045924.866	43.84	5.1645	0.626	12.120	mg/L
|	K	39	58174731.399	140.83	4.6844	0.879	18.759	mg/L
|	Ca	43	105446.832	0.26	4.8763	0.977	20.038	mg/L
|	Fe	54	4455168.128	10.74	4.2516	0.458	10.770	mg/L
|	Fe	57	2002164.842	4.86	4.2173	0.519	12.317	mg/L

⌊>	Sc	45	415186.428	415186.43		mg/L
	Cl	35	87554.175	-551016.40		mg/L
	Kr	83	146.003	-44.33		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	99.089				
|	Al	27	91.956				
⌊>	Sc-1	45		111.779			
⌈	V	51	104.215				
|	Cr	52	102.600				
|	Cr	53	69.816				
|	Mn	55	101.121				
|	Co	59	92.721				
|	Ni	60	94.435				
|	Cu	65	98.468				
|	Zn	66	98.599				
|>	Ge	72		100.781			
|	As	75	92.596				
|	Se	77	92.484				
⌊	Se	82	95.964				
	Y	89					
⌈	Rh	103					
|	Ag	107	95.503				
|	Cd	114	93.718				
|>	In	115		99.156			
⌊	Sb	123	91.059				
⌈	Ba	135	84.177				
|	Ce	140					
⌊>	Tb	159		92.737			
⌈	Ho	165					
|	Tl	203	92.411				
|	Tl	205	101.020				
|	Pb	206	100.448				
|	Pb	207	91.077				
|	Pb	208	96.209				
⌊>	Bi	209		98.800			
⌈	Na	23	100.948				
|	Mg	24	103.291				
|	K	39	93.688				
|	Ca	43	97.526				
|	Fe	54	85.032				
|	Fe	57	84.345				
⌊>	Sc	45		111.779			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 13:31:34

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 13:35:52
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	9674.631	-2001.68				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	4334.664	-0.00	-0.1709	0.146	85.348	ug/L
|>	Sc-1	45	430699.355	430699.36				ug/L
⌈	V	51	4112.006	0.00	0.0393	0.197	500.524	ug/L
|	Cr	52	12623.977	0.00	0.0708	0.177	250.606	ug/L
|	Cr	53	2667.460	-0.03	-22.1979	2.119	9.546	ug/L
|	Mn	55	433.785	-0.00	-0.0582	0.017	29.602	ug/L
|	Co	59	0.000	-0.00	-0.0065	0.000	0.000	ug/L
|	Ni	60	200.203	0.00	0.0487	0.029	58.881	ug/L
|	Cu	65	0.000	-0.00	-0.0091	0.000	0.000	ug/L
|	Zn	66	666.760	0.00	0.2659	0.461	173.205	ug/L
|>	Ge	72	1022481.437	1022481.44				ug/L
⌈	As	75	145.164	-0.00	-0.0129	0.019	147.578	ug/L
|	Se	77	146.668	-0.00	-1.8432	0.094	5.095	ug/L
⌊	Se	82	123.466	-0.00	-0.0508	0.018	36.238	ug/L
	Y	89	816850.813	-22388.97				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	25.264	0.00	0.0008	0.001	100.729	ug/L
|>	In	115	870969.627	870969.63				ug/L
⌊	Sb	123	949.050	0.00	0.1357	0.013	9.288	ug/L
⌈	Ba	135	66.734	0.00	0.0146	0.023	160.088	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	820979.827	820979.83				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	52.334	-43.00	-0.0039	0.000	8.804	ug/L
|	Tl	205	114.002	-78.67	-0.0031	0.000	12.520	ug/L
|	Pb	206	86.676	36.67	0.0039	0.003	78.730	ug/L
|	Pb	207	80.008	43.34	0.0054	0.003	61.056	ug/L
|	Pb	208	305.020	129.68	0.0035	0.001	23.908	ug/L
|>	Bi	209	785657.060	785657.06				ug/L
⌈	Na	23	7337.536	0.01	0.0007	0.001	77.080	mg/L
|	Mg	24	666.713	-0.00	-0.0000	0.000	1000.983	mg/L
|	K	39	711842.999	0.07	0.0022	0.004	193.874	mg/L
|	Ca	43	333.357	0.00	0.0157	0.027	173.205	mg/L
|	Fe	54	35735.048	-0.01	-0.0038	0.002	54.750	mg/L
|	Fe	57	8339.194	0.00	0.0020	0.011	532.216	mg/L

|> Sc	45	430699.355	430699.36		mg/L
Cl	35	42799.204	-595771.37		mg/L
Kr	83	152.670	-37.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		115.956			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.017			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		96.165			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		90.069			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		98.956			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		115.956			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 13:36:40

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Ni	60	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0527315 WG97429-02

Sample Date/Time: Thursday, May 24, 2001 13:41:22
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 50.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15353.196	3676.88				ug/L
⌈	Be	9	33.367	-0.00	-18.9572	183.131	966.019	ug/L
|	Al	27	16388451.820	39.78	2737682.8723	136689.084	4.993	ug/L
⌊>	Sc-1	45	412608.199	412608.20				ug/L
⌈	V	51	68629.043	0.06	4770.4689	114.080	2.391	ug/L
|	Cr	52	50394.280	0.04	3237.6637	186.911	5.773	ug/L
|	Cr	53	6002.708	-0.02	-18641.9557	1629.409	8.741	ug/L
|	Mn	55	3060805.890	2.97	152352.0764	6119.904	4.017	ug/L
|	Co	59	35791.827	0.03	2183.2757	15.467	0.708	ug/L
|	Ni	60	11119.773	0.01	3103.4372	123.500	3.979	ug/L
|	Cu	65	17840.138	0.02	4566.5958	305.879	6.698	ug/L
|	Zn	66	60925.838	0.06	23136.9849	1194.993	5.165	ug/L
⌊>	Ge	72	1031097.722	1031097.72				ug/L
|	As	75	3065.410	0.00	985.9796	22.708	2.303	ug/L
|	Se	77	242.671	-0.00	-1374.2270	199.786	14.538	ug/L
⌊	Se	82	185.845	0.00	149.5912	54.543	36.461	ug/L
	Y	89	1091820.754	252580.97				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	533.890	0.00	39.6226	17.888	45.146	ug/L
|	Cd	114	1257.028	0.00	163.7890	5.161	3.151	ug/L
⌊>	In	115	913917.137	913917.14				ug/L
⌊	Sb	123	757.971	0.00	98.6496	2.257	2.288	ug/L
⌈	Ba	135	204420.129	0.24	78393.2063	5472.447	6.981	ug/L
|	Ce	140	712984.913	0.84				ug/L
⌊>	Tb	159	850514.574	850514.57				ug/L
⌈	Ho	165	11677.387	11677.39				ug/L
|	Tl	203	858.394	763.06	66.1597	2.786	4.211	ug/L
|	Tl	205	2188.691	1996.02	74.4897	1.157	1.553	ug/L
|	Pb	206	248979.187	248929.18	25357.0815	843.381	3.326	ug/L
|	Pb	207	209372.358	209335.69	24853.6783	504.014	2.028	ug/L
|	Pb	208	985204.897	985029.55	25515.6201	153.645	0.602	ug/L
⌊>	Bi	209	810846.642	810846.64				ug/L
⌈	Na	23	284291.993	0.68	59.0213	5.356	9.075	mg/L
|	Mg	24	4051951.740	9.82	1112.6693	12.820	1.152	mg/L
|	K	39	15088349.544	35.14	1124.0463	139.413	12.403	mg/L
|	Ca	43	218637.121	0.53	9641.7222	398.313	4.131	mg/L
|	Fe	54	2964576.963	7.13	2713.4560	399.075	14.707	mg/L
|	Fe	57	1237460.649	2.98	2492.1955	117.746	4.725	mg/L

\> Sc	45	412608.199	412608.20		mg/L
Cl	35	37100.360	-601470.21		mg/L
Kr	83	178.004	-12.33		mg/L
U	238	8005.230	8005.23		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		111.085			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.868			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.907			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		93.310			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		102.129			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		111.085			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527315 WG97429-02
Report Date/Time: Thursday, May 24, 2001 13:42:21

1650

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0527316 DP WG97429-07

Sample Date/Time: Thursday, May 24, 2001 13:47:03
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 50.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13012.402	1336.09				ug/L
⌈	Be	9	166.836	0.00	370.8580	362.734	97.809	ug/L
|	Al	27	29009795.485	61.07	4202288.7172	329040.922	7.830	ug/L
⌊>	Sc-1	45	476786.311	476786.31				ug/L
⌈	V	51	156290.807	0.15	11171.2937	427.577	3.827	ug/L
|	Cr	52	77630.648	0.06	5508.9251	262.516	4.765	ug/L
|	Cr	53	14349.429	-0.01	-11900.9848	4847.052	40.728	ug/L
|	Mn	55	3668172.992	3.55	182076.8721	4423.093	2.429	ug/L
|	Co	59	42132.585	0.04	2563.3813	26.878	1.049	ug/L
|	Ni	60	13626.645	0.01	3794.1920	268.889	7.087	ug/L
|	Cu	65	20684.024	0.02	5279.8754	422.720	8.006	ug/L
|	Zn	66	84497.839	0.08	31988.6433	1708.153	5.340	ug/L
|>	Ge	72	1034210.520	1034210.52				ug/L
|	As	75	4089.431	0.00	1331.8306	22.021	1.653	ug/L
|	Se	77	256.005	-0.00	-1321.7348	33.076	2.502	ug/L
⌊	Se	82	217.557	0.00	249.5661	35.096	14.063	ug/L
	Y	89	1148692.891	309453.10				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	700.736	0.00	53.3276	8.406	15.763	ug/L
|	Cd	114	1474.554	0.00	193.6319	5.634	2.910	ug/L
|>	In	115	908927.778	908927.78				ug/L
⌊	Sb	123	339.468	0.00	42.7921	3.435	8.026	ug/L
⌈	Ba	135	271155.460	0.32	102714.5165	2206.481	2.148	ug/L
|	Ce	140	856078.357	1.00				ug/L
⌊>	Tb	159	859913.044	859913.04				ug/L
⌈	Ho	165	10674.653	10674.65				ug/L
|	Tl	203	1213.782	1118.45	96.9730	2.407	2.482	ug/L
|	Tl	205	3052.016	2859.34	106.7083	2.491	2.335	ug/L
|	Pb	206	344649.363	344599.36	35102.4895	149.644	0.426	ug/L
|	Pb	207	283834.868	283798.20	33694.3462	530.257	1.574	ug/L
|	Pb	208	1356363.998	1356188.65	35129.9048	218.285	0.621	ug/L
⌊>	Bi	209	791957.458	791957.46				ug/L
⌈	Na	23	316562.031	0.66	57.4779	8.827	15.357	mg/L
|	Mg	24	6051916.507	12.76	1445.1193	156.537	10.832	mg/L
|	K	39	22821895.186	46.36	1482.7627	83.535	5.634	mg/L
|	Ca	43	226924.611	0.48	8702.5849	1515.168	17.411	mg/L
|	Fe	54	5074839.784	10.59	4034.3083	392.591	9.731	mg/L
|	Fe	57	2256435.689	4.74	3957.8657	528.866	13.362	mg/L

> Sc	45	476786.311	476786.31		mg/L
Cl	35	40449.052	-598121.52		mg/L
Kr	83	157.337	-33.00		mg/L
U	238	17688.838	17688.84		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		128.364			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.176			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		100.356			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		94.341			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		99.750			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		128.364			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527316 DP WG97429-07
Report Date/Time: Thursday, May 24, 2001 13:48:02

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ba 135 Upper, S, EEE	Ba	135
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527304 WG97429-01

Sample Date/Time: Thursday, May 24, 2001 13:52:44
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.632	7349.32				ug/L
⌈	Be	9	133.469	0.00	313.5878	499.748	159.365	ug/L
|	Al	27	16710034.223	39.58	2832221.3890	367673.106	12.982	ug/L
|>	Sc-1	45	423185.337	423185.34				ug/L
⌈	V	51	117891.230	0.11	8628.7638	413.930	4.797	ug/L
|	Cr	52	52781.247	0.04	3528.4799	416.575	11.806	ug/L
|	Cr	53	5669.024	-0.02	-19717.6874	1282.170	6.503	ug/L
|	Mn	55	3299804.668	3.17	169079.0508	2942.016	1.740	ug/L
|	Co	59	36999.526	0.04	2323.1247	182.783	7.868	ug/L
|	Ni	60	11855.042	0.01	3406.7441	253.014	7.427	ug/L
|	Cu	65	16937.005	0.02	4461.3111	208.335	4.670	ug/L
|	Zn	66	54216.085	0.05	21188.3666	6059.000	28.596	ug/L
|>	Ge	72	1041951.089	1041951.09				ug/L
|	As	75	3750.903	0.00	1255.1818	31.117	2.479	ug/L
|	Se	77	260.005	-0.00	-1365.5707	77.204	5.654	ug/L
⌊	Se	82	198.274	0.00	189.9598	105.820	55.706	ug/L
	Y	89	1129860.731	290620.94				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	467.153	0.00	35.2234	23.667	67.190	ug/L
|	Cd	114	972.696	0.00	128.9111	1.260	0.978	ug/L
|>	In	115	929384.609	929384.61				ug/L
⌊	Sb	123	466.991	0.00	60.9248	0.972	1.596	ug/L
⌈	Ba	135	173386.378	0.19	65988.5109	366.162	0.555	ug/L
|	Ce	140	830645.752	0.94				ug/L
|>	Tb	159	889542.337	889542.34				ug/L
⌈	Ho	165	8338.447	8338.45				ug/L
|	Tl	203	959.074	863.74	77.8846	3.445	4.423	ug/L
|	Tl	205	2381.421	2188.75	84.9495	1.287	1.515	ug/L
|	Pb	206	192916.793	192866.79	20432.1582	394.540	1.931	ug/L
|	Pb	207	160376.353	160339.68	19798.0200	118.219	0.597	ug/L
|	Pb	208	753268.215	753092.87	20287.9769	234.812	1.157	ug/L
|>	Bi	209	806036.802	806036.80				ug/L
⌈	Na	23	208332.978	0.48	43.8446	3.303	7.534	mg/L
|	Mg	24	4508591.094	10.70	1260.1306	215.094	17.069	mg/L
|	K	39	14096406.889	31.72	1055.1131	46.264	4.385	mg/L
|	Ca	43	159768.374	0.38	7143.5617	229.114	3.207	mg/L
|	Fe	54	2770998.358	6.47	2560.9469	254.033	9.919	mg/L
|	Fe	57	1112098.600	2.61	2269.4471	248.406	10.946	mg/L

\> Sc	45	423185.337	423185.34		mg/L
Cl	35	41120.033	-597450.54		mg/L
Kr	83	169.004	-21.33		mg/L
U	238	13012.168	13012.17		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		113.933			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.940			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.615			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		97.591			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		101.523			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		113.933			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527304 WG97429-01
Report Date/Time: Thursday, May 24, 2001 13:53:43

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0527305 S WG97429-05

Sample Date/Time: Thursday, May 24, 2001 13:58:26
Number of Replicates: 3
Allquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.337	5010.03				ug/L
⌜	Be	9	2669.872	0.01	8707.8875	3155.619	36.239	ug/L
|	Al	27	17748285.983	40.51	2898858.4853	29674.556	1.024	ug/L
|>	Sc-1	45	438036.699	438036.70				ug/L
⌜	V	51	257845.419	0.25	19356.2257	775.789	4.008	ug/L
|	Cr	52	187928.657	0.17	15344.1809	365.746	2.384	ug/L
|	Cr	53	17688.838	-0.01	-9536.9287	2245.695	23.547	ug/L
|	Mn	55	4734149.845	4.57	244344.3977	4349.362	1.780	ug/L
|	Co	59	198072.093	0.19	12563.3621	567.594	4.518	ug/L
|	Ni	60	44214.434	0.04	12818.1983	867.409	6.767	ug/L
|	Cu	65	53755.104	0.05	14285.9923	95.490	0.668	ug/L
|	Zn	66	82137.652	0.08	32335.5892	2054.970	6.355	ug/L
|>	Ge	72	1034306.437	1034306.44				ug/L
|	As	75	23481.969	0.02	8264.3196	178.711	2.162	ug/L
|	Se	77	2038.291	0.00	6373.2716	90.029	1.413	ug/L
⌊	Se	82	2580.714	0.00	8181.5509	316.628	3.870	ug/L
	Y	89	1199377.834	360138.05				ug/L
⌜	Rh	103	0.000	0.00				ug/L
|	Ag	107	110863.983	0.12	9148.3072	272.579	2.980	ug/L
|	Cd	114	69484.904	0.08	9563.4463	201.553	2.108	ug/L
|>	In	115	914740.242	914740.24				ug/L
⌊	Sb	123	9903.759	0.01	1376.6684	17.523	1.273	ug/L
⌜	Ba	135	210121.892	0.23	79495.3999	5439.662	6.843	ug/L
|	Ce	140	906445.219	1.01				ug/L
⌊>	Tb	159	896717.237	896717.24				ug/L
⌜	Ho	165	13012.028	13012.03				ug/L
|	Tl	203	110145.969	110050.63	9923.4222	149.174	1.503	ug/L
|	Tl	205	275755.674	275563.00	10695.1215	137.526	1.286	ug/L
|	Pb	206	288936.468	288886.46	30604.4082	160.307	0.524	ug/L
|	Pb	207	228359.353	228322.68	28192.2539	459.717	1.631	ug/L
|	Pb	208	1103201.720	1103026.38	29715.0252	204.244	0.687	ug/L
⌊>	Bi	209	812461.040	812461.04				ug/L
⌜	Na	23	226192.315	0.51	45.9822	1.205	2.621	mg/L
|	Mg	24	4708009.546	10.75	1266.2428	66.077	5.218	mg/L
|	K	39	15957652.016	34.87	1159.7076	62.127	5.357	mg/L
|	Ca	43	223167.957	0.51	9664.5874	1882.747	19.481	mg/L
|	Fe	54	2668668.880	6.01	2378.4201	178.940	7.523	mg/L
⌊	Fe	57	1153143.139	2.62	2271.5272	53.532	2.357	mg/L

\> Sc	45	438036.699	438036.70		mg/L
Cl	35	29728.841	-608841.73		mg/L
Kr	83	171.004	-19.33		mg/L
U	238	14682.972	14682.97		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		117.931			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		102.185			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		100.998			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		98.379			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		102.332			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		117.931			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527305 S WG97429-05
Report Date/Time: Thursday, May 24, 2001 13:59:25

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55

Method 6020 - Summary Report

Sample ID: 0527306 SD WG97429-06

Sample Date/Time: Thursday, May 24, 2001 14:04:07
Number of Replicates: 3
Aliquot Volume (mL): 0.530
Diluted To Volume (mL): 50.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14686.438	3010.13				ug/L
⌈	Be	9	3103.813	0.01	9098.9249	1785.598	19.624	ug/L
|	Al	27	21576647.930	47.69	3219795.6887	213226.059	6.622	ug/L
|>	Sc-1	45	453694.408	453694.41				ug/L
⌈	V	51	271663.659	0.25	18909.5423	882.009	4.664	ug/L
|	Cr	52	183683.304	0.16	13872.7338	748.666	5.397	ug/L
|	Cr	53	24375.430	-0.00	-4021.1121	2776.149	69.039	ug/L
|	Mn	55	3959695.101	3.76	189499.6393	5343.416	2.820	ug/L
|	Co	59	211117.305	0.20	12407.6004	254.861	2.054	ug/L
|	Ni	60	47370.571	0.04	12742.6218	510.199	4.004	ug/L
|	Cu	65	57993.685	0.06	14293.8782	1448.002	10.130	ug/L
|	Zn	66	89221.252	0.08	32567.0121	1479.254	4.542	ug/L
|>	Ge	72	1052402.537	1052402.54				ug/L
|	As	75	26308.160	0.02	8587.7253	98.841	1.151	ug/L
|	Se	77	2123.649	0.00	6213.9306	279.451	4.497	ug/L
⌊	Se	82	2608.885	0.00	7661.7076	237.727	3.103	ug/L
	Y	89	1197802.808	358563.02				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	117882.206	0.13	9118.5011	416.146	4.564	ug/L
|	Cd	114	70759.591	0.08	9125.8399	221.421	2.426	ug/L
|>	In	115	920946.771	920946.77				ug/L
⌊	Sb	123	7347.363	0.01	956.2074	3.840	0.402	ug/L
⌈	Ba	135	263084.628	0.32	101235.2812	7824.016	7.729	ug/L
|	Ce	140	1050042.983	1.27				ug/L
|>	Tb	159	832224.749	832224.75				ug/L
⌈	Ho	165	13347.865	13347.86				ug/L
|	Tl	203	110401.488	110306.15	9383.4554	108.652	1.158	ug/L
|	Tl	205	276773.273	276580.60	10126.9967	83.866	0.828	ug/L
|	Pb	206	310474.643	310424.64	31024.6658	196.427	0.633	ug/L
|	Pb	207	247655.237	247618.57	28844.1722	474.405	1.645	ug/L
|	Pb	208	1197004.164	1196828.82	30417.0001	137.178	0.451	ug/L
|>	Bi	209	801267.475	801267.47				ug/L
⌈	Na	23	200825.528	0.43	36.9227	2.437	6.599	mg/L
|	Mg	24	5181989.636	11.47	1275.0165	112.681	8.838	mg/L
|	K	39	17007307.698	36.01	1130.0662	109.450	9.685	mg/L
|	Ca	43	206634.896	0.46	8161.2937	1090.551	13.362	mg/L
|	Fe	54	3390057.838	7.37	2754.9479	134.528	4.883	mg/L
|	Fe	57	1526440.023	3.36	2756.2408	268.110	9.727	mg/L

|> Sc	45	453694.408	453694.41		mg/L
Cl	35	39109.066	-599461.51		mg/L
Kr	83	177.004	-13.33		mg/L
U	238	19025.913	19025.91		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		122.147			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.973			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.683			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		91.303			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.922			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		122.147			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527306 SD WG97429-06
Report Date/Time: Thursday, May 24, 2001 14:05:07

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Ba 135 Upper, S, EEE	Ba	135
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527304 PS

Sample Date/Time: Thursday, May 24, 2001 14:09:26
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 500.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17355.576	5679.27				ug/L
⌈	Be	9	15900.435	0.04	59706.8506	8965.508	15.016	ug/L
|	Al	27	17242942.206	44.94	3216349.5659	265846.466	8.265	ug/L
|>	Sc-1	45	385520.928	385520.93				ug/L
⌈	V	51	813668.947	0.77	60954.7339	852.066	1.398	ug/L
|	Cr	52	674581.378	0.63	57097.7823	2989.320	5.235	ug/L
|	Cr	53	91922.743	0.06	52298.3611	7253.547	13.870	ug/L
|	Mn	55	4430995.052	4.23	226186.5855	6249.877	2.763	ug/L
|	Co	59	853682.897	0.82	53533.3757	820.103	1.532	ug/L
|	Ni	60	188820.883	0.18	54223.8996	3647.259	6.726	ug/L
|	Cu	65	215587.697	0.21	56677.3282	2335.929	4.121	ug/L
|	Zn	66	143086.048	0.14	55741.9201	2773.136	4.975	ug/L
|>	Ge	72	1046258.357	1046258.36				ug/L
|	As	75	133999.436	0.13	46929.0646	1141.547	2.432	ug/L
|	Se	77	10537.771	0.01	42843.8894	2445.579	5.708	ug/L
⌊	Se	82	13132.277	0.01	43053.7858	1121.848	2.606	ug/L
	Y	89	1162576.766	323336.98				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	544343.539	0.60	45262.1995	1831.025	4.045	ug/L
|	Cd	114	344703.208	0.38	47792.9591	807.492	1.690	ug/L
|>	In	115	908306.470	908306.47				ug/L
⌊	Sb	123	342655.242	0.38	48089.5547	1620.483	3.370	ug/L
⌈	Ba	135	294300.880	0.33	111148.1913	12853.684	11.564	ug/L
|	Ce	140	884313.355	0.98				ug/L
⌊>	Tb	159	902562.249	902562.25				ug/L
⌈	Ho	165	10007.753	10007.75				ug/L
|	Tl	203	550620.789	550525.45	49641.6632	1138.130	2.293	ug/L
|	Tl	205	1383962.511	1383769.84	53706.7257	454.787	0.847	ug/L
|	Pb	206	706956.892	706906.89	74889.1682	1431.936	1.912	ug/L
|	Pb	207	560230.326	560193.66	69170.1831	875.306	1.265	ug/L
|	Pb	208	2700186.862	2700011.52	72737.0733	566.791	0.779	ug/L
⌊>	Bi	209	808299.263	808299.26				ug/L
⌈	Na	23	230339.534	0.59	53.3774	2.495	4.674	mg/L
|	Mg	24	4329403.499	11.29	1329.8785	128.875	9.691	mg/L
|	K	39	15737621.100	39.38	1309.8972	110.021	8.399	mg/L
|	Ca	43	205249.786	0.53	10088.3276	374.094	3.708	mg/L
|	Fe	54	2894182.868	7.48	2964.2258	443.539	14.963	mg/L
|	Fe	57	1169805.397	3.05	2652.4843	523.576	19.739	mg/L

|> Sc	45	385520.928	385520.93		mg/L
Cl	35	37097.537	-601473.04		mg/L
Kr	83	173.671	-16.67		mg/L
U	238	15350.574	15350.57		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		103.793			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.366			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.288			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		99.020			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		101.808			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		103.793			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527304 PS
Report Date/Time: Thursday, May 24, 2001 14:10:17

Al 27 Upper, S, EEE Al	27
Mn 55 Upper, S, EEE Mn	55
Ba 135 Upper, S, EEEBa	135
Ca 43 Upper, S, EEE Ca	43

Method 6020 - Summary Report

Sample ID: 0527304 SDL

Sample Date/Time: Thursday, May 24, 2001 14:14:35
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 2500.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 50

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.149	5009.84				ug/L
⌈	Be	9	66.734	0.00	486.9885	1966.509	403.810	ug/L
|	Al	27	3617036.367	8.53	3053142.7549	83900.493	2.748	ug/L
⌊>	Sc-1	45	423181.511	423181.51				ug/L
⌈	V	51	27097.200	0.02	8757.6867	778.486	8.889	ug/L
|	Cr	52	21052.186	0.01	3834.7898	897.429	23.402	ug/L
|	Cr	53	3334.174	-0.02	-108503.2028	4697.774	4.330	ug/L
|	Mn	55	730848.849	0.69	185406.2230	3602.730	1.943	ug/L
|	Co	59	7678.540	0.01	2366.2402	399.623	16.889	ug/L
|	Ni	60	1868.787	0.00	2619.7321	561.670	21.440	ug/L
|	Cu	65	3003.647	0.00	3890.3944	716.890	18.427	ug/L
|	Zn	66	11344.078	0.01	22046.9533	12087.462	54.826	ug/L
|>	Ge	72	1050372.968	1050372.97				ug/L
|	As	75	926.342	0.00	1291.4534	54.390	4.212	ug/L
|	Se	77	170.669	-0.00	-8784.2860	377.122	4.293	ug/L
⌊	Se	82	133.843	-0.00	-138.2070	124.191	89.859	ug/L
	Y	89	917793.845	78554.06				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	166.836	0.00	54.4061	23.179	42.603	ug/L
|	Cd	114	226.390	0.00	140.5640	8.749	6.224	ug/L
|>	In	115	919820.322	919820.32				ug/L
⌊	Sb	123	663.141	0.00	443.9219	11.993	2.702	ug/L
⌈	Ba	135	37301.228	0.04	69923.9549	871.804	1.247	ug/L
|	Ce	140	195313.327	0.22				ug/L
⌊>	Tb	159	901964.415	901964.42				ug/L
⌈	Ho	165	3000.770	3000.77				ug/L
|	Tl	203	229.006	133.67	60.2665	10.830	17.971	ug/L
|	Tl	205	569.695	377.02	73.1651	12.130	16.579	ug/L
|	Pb	206	39831.487	39781.48	21072.0967	772.194	3.665	ug/L
|	Pb	207	34667.411	34630.74	21380.2372	479.664	2.243	ug/L
|	Pb	208	158419.188	158243.84	21315.0833	193.400	0.907	ug/L
⌊>	Bi	209	797460.603	797460.60				ug/L
⌈	Na	23	57569.760	0.13	57.7457	13.086	22.662	mg/L
|	Mg	24	955617.704	2.26	1329.4039	134.535	10.120	mg/L
|	K	39	3834309.243	7.46	1241.2229	110.128	8.873	mg/L
|	Ca	43	42124.739	0.10	9402.4774	739.419	7.864	mg/L
|	Fe	54	603992.152	1.34	2646.7936	219.020	8.275	mg/L
|	Fe	57	256213.794	0.59	2549.7515	241.750	9.481	mg/L

\> Sc	45	423181.511	423181.51		mg/L
Cl	35	38771.906	-599798.67		mg/L
Kr	83	147.336	-43.00		mg/L
U	238	3334.127	3334.13		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		113.932			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.773			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.559			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		98.954			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		100.443			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		113.932			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527304 SDL
Report Date/Time: Thursday, May 24, 2001 14:15:24

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Se 82 Lower	Se	82

Method 6020 - Summary Report

Sample ID: 0527301

Sample Date/Time: Thursday, May 24, 2001 14:20:05
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18022.755	6346.44				ug/L
⌈	Be	9	133.469	0.00	345.5583	414.057	119.823	ug/L
|	Al	27	23083491.192	54.93	4011007.6390	374760.442	9.343	ug/L
|>	Sc-1	45	419299.356	419299.36				ug/L
⌈	V	51	127130.065	0.12	9346.5617	593.883	6.354	ug/L
|	Cr	52	58261.449	0.04	3996.3817	146.741	3.672	ug/L
|	Cr	53	6336.251	-0.02	-19644.5766	1272.289	6.477	ug/L
|	Mn	55	3157039.911	2.98	162232.9284	613.490	0.378	ug/L
|	Co	59	45993.507	0.04	2897.3634	55.448	1.914	ug/L
|	Ni	60	13927.538	0.01	4016.0509	340.261	8.473	ug/L
|	Cu	65	14663.043	0.01	3871.8030	175.629	4.536	ug/L
|	Zn	66	41789.978	0.04	16389.3573	2277.031	13.893	ug/L
|>	Ge	72	1060107.821	1060107.82				ug/L
|	As	75	4017.670	0.00	1351.9565	6.741	0.499	ug/L
|	Se	77	252.671	-0.00	-1445.2430	79.686	5.514	ug/L
⌊	Se	82	214.687	0.00	237.0065	41.640	17.569	ug/L
	Y	89	1089228.831	249989.04				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	800.864	0.00	63.3285	51.583	81.453	ug/L
|	Cd	114	813.222	0.00	108.9463	4.059	3.726	ug/L
|>	In	115	934084.196	934084.20				ug/L
⌊	Sb	123	421.030	0.00	55.4484	2.893	5.217	ug/L
⌈	Ba	135	262321.874	0.30	104661.9888	681.507	0.651	ug/L
|	Ce	140	817257.211	0.94				ug/L
⌊>	Tb	159	865816.335	865816.34				ug/L
⌈	Ho	165	7671.266	7671.27				ug/L
|	Tl	203	1079.092	983.76	90.5171	1.847	2.041	ug/L
|	Tl	205	2716.211	2523.54	99.9422	5.527	5.530	ug/L
|	Pb	206	89131.577	89081.57	9629.8293	119.848	1.245	ug/L
|	Pb	207	70459.580	70422.91	8872.9621	175.224	1.975	ug/L
|	Pb	208	339683.464	339508.12	9332.8502	120.309	1.289	ug/L
⌊>	Bi	209	818948.989	818948.99				ug/L
⌈	Na	23	224500.758	0.53	48.5718	3.651	7.516	mg/L
|	Mg	24	5786025.237	13.78	1656.5211	92.734	5.598	mg/L
|	K	39	17447369.530	40.07	1359.9821	163.391	12.014	mg/L
|	Ca	43	281484.302	0.67	13003.8657	1939.072	14.912	mg/L
|	Fe	54	3692660.804	8.72	3522.4317	164.488	4.670	mg/L
|	Fe	57	1585747.079	3.76	3335.4124	326.655	9.794	mg/L

|> Sc	45	419299.356	419299.36		mg/L
Cl	35	41790.873	-596779.70		mg/L
Kr	83	156.670	-33.67		mg/L
U	238	10674.653	10674.65		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
|> Sc-1	45		112.887			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
|> Ge	72		104.734			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
|> In	115		103.134			
Sb	123					
Ba	135					
Ce	140					
|> Tb	159		94.988			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
|> Bi	209		103.149			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
|> Sc	45		112.887			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527301
Report Date/Time: Thursday, May 24, 2001 14:21:04

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ba 135 Upper, S, EEE	Ba	135
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: 0527302

Sample Date/Time: Thursday, May 24, 2001 14:25:46
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 50.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19359.596	7683.28				ug/L
⌈	Be	9	66.734	0.00	100.6073	394.457	392.076	ug/L
|	Al	27	15573776.398	36.58	2566635.9007	233869.435	9.112	ug/L
⌊>	Sc-1	45	426367.164	426367.16				ug/L
⌈	V	51	80331.134	0.07	5604.4905	185.194	3.304	ug/L
|	Cr	52	42636.169	0.03	2554.0107	156.303	6.120	ug/L
|	Cr	53	4668.628	-0.02	-20209.5645	2450.698	12.126	ug/L
|	Mn	55	2435813.509	2.31	120839.5621	794.463	0.657	ug/L
|	Co	59	27614.489	0.03	1676.7465	151.371	9.028	ug/L
|	Ni	60	8747.429	0.01	2431.2988	23.214	0.955	ug/L
|	Cu	65	11821.713	0.01	3014.2496	437.384	14.511	ug/L
|	Zn	66	32407.824	0.03	12267.1928	1897.113	15.465	ug/L
|>	Ge	72	1054881.446	1054881.45				ug/L
|	As	75	2669.629	0.00	846.1289	25.058	2.962	ug/L
|	Se	77	236.004	-0.00	-1452.8442	119.596	8.232	ug/L
⌊	Se	82	172.830	0.00	96.2851	48.500	50.372	ug/L
	Y	89	1118959.008	279719.22				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	567.259	0.00	42.7026	18.277	42.802	ug/L
|	Cd	114	732.903	0.00	95.3163	2.510	2.634	ug/L
|>	In	115	922176.355	922176.36				ug/L
⌊	Sb	123	270.312	0.00	33.5734	0.800	2.384	ug/L
⌈	Ba	135	137624.153	0.15	49106.8859	1958.480	3.988	ug/L
|	Ce	140	568464.467	0.61				ug/L
⌊>	Tb	159	929695.704	929695.70				ug/L
⌈	Ho	165	7337.910	7337.91				ug/L
|	Tl	203	738.046	642.71	56.8178	2.160	3.802	ug/L
|	Tl	205	1847.257	1654.59	62.9585	1.518	2.411	ug/L
|	Pb	206	103288.581	103238.58	10722.5635	229.730	2.142	ug/L
|	Pb	207	85234.336	85197.67	10313.5520	328.043	3.181	ug/L
|	Pb	208	402364.515	402189.17	10622.3451	186.550	1.756	ug/L
⌊>	Bi	209	804676.137	804676.14				ug/L
⌈	Na	23	153640.796	0.35	31.2695	3.275	10.473	mg/L
|	Mg	24	3031738.498	7.12	822.1281	42.389	5.156	mg/L
|	K	39	11748208.096	25.96	846.6562	20.174	2.383	mg/L
|	Ca	43	84834.391	0.20	3693.7414	193.619	5.242	mg/L
|	Fe	54	2605920.572	6.02	2337.6254	25.062	1.072	mg/L
|	Fe	57	1159677.000	2.71	2303.6184	206.265	8.954	mg/L

⌊> Sc	45	426367.164	426367.16		mg/L
Cl	35	29394.174	-609176.40		mg/L
Kr	83	174.671	-15.67		mg/L
U	238	10674.746	10674.75		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
⌊> Sc-1	45		114.789			
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72		104.218			
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115		101.819			
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
⌊> Tb	159		101.997			
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
⌊> Bi	209		101.352			
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
⌊> Sc	45		114.789			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527302
Report Date/Time: Thursday, May 24, 2001 14:26:46

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0527303

Sample Date/Time: Thursday, May 24, 2001 14:31:28
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 50.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.025	2671.71				ug/L
⌈	Be	9	0.000	-0.00	-127.1325	0.000	0.000	ug/L
|	Al	27	13108311.304	30.94	2171118.8981	137658.038	6.340	ug/L
|>	Sc-1	45	423890.403	423890.40				ug/L
⌈	V	51	104952.914	0.10	7354.7739	484.417	6.586	ug/L
|	Cr	52	47135.612	0.03	2902.1120	181.891	6.268	ug/L
|	Cr	53	8338.493	-0.02	-17282.8911	1962.454	11.355	ug/L
|	Mn	55	2212324.976	2.08	108987.9817	3612.068	3.314	ug/L
|	Co	59	31367.024	0.03	1893.9300	185.626	9.801	ug/L
|	Ni	60	11119.783	0.01	3070.6172	169.902	5.533	ug/L
|	Cu	65	16167.770	0.02	4094.0981	76.764	1.875	ug/L
|	Zn	66	78432.202	0.07	29459.4781	3302.954	11.212	ug/L
|>	Ge	72	1062372.979	1062372.98				ug/L
|	As	75	2600.779	0.00	816.3302	45.050	5.519	ug/L
|	Se	77	204.670	-0.00	-1590.0323	76.819	4.831	ug/L
⌊	Se	82	168.584	0.00	79.2312	80.154	101.165	ug/L
	Y	89	1042076.257	202836.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	1601.804	0.00	125.6226	56.277	44.799	ug/L
|	Cd	114	867.877	0.00	113.0764	5.450	4.820	ug/L
|>	In	115	924227.365	924227.37				ug/L
⌊	Sb	123	163.799	0.00	19.0814	2.781	14.576	ug/L
⌈	Ba	135	159348.890	0.19	62582.9444	1101.152	1.760	ug/L
|	Ce	140	710744.173	0.84				ug/L
⌊>	Tb	159	845230.336	845230.34				ug/L
⌈	Ho	165	8004.483	8004.48				ug/L
|	Tl	203	743.713	648.38	57.3188	1.791	3.125	ug/L
|	Tl	205	1844.923	1652.25	62.8696	1.881	2.991	ug/L
|	Pb	206	147430.589	147380.58	15307.2402	90.139	0.589	ug/L
|	Pb	207	122127.915	122091.24	14779.6819	435.878	2.949	ug/L
|	Pb	208	573023.193	572847.85	15129.6653	89.284	0.590	ug/L
⌊>	Bi	209	801658.357	801658.36				ug/L
⌈	Na	23	218012.700	0.50	44.7319	6.665	14.900	mg/L
|	Mg	24	3708027.163	8.72	1007.5882	126.847	12.589	mg/L
|	K	39	10251276.453	22.61	737.3381	39.651	5.378	mg/L
|	Ca	43	144133.565	0.34	6317.0390	1173.660	18.579	mg/L
|	Fe	54	2486168.447	5.78	2244.4171	157.767	7.029	mg/L
|	Fe	57	1105409.662	2.60	2209.7466	253.415	11.468	mg/L

> Sc	45	423890.403	423890.40		mg/L
Cl	35	31737.596	-606832.98		mg/L
Kr	83	179.337	-11.00		mg/L
U	238	13346.928	13346.93		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		114.123			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.958			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		102.045			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		92.730			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		100.972			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		114.123			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527303
Report Date/Time: Thursday, May 24, 2001 14:32:27

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 14:36:47
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16019.391	4343.08				ug/L
⌈	Be	9	14194.976	0.04	52.4219	7.241	13.812	ug/L
|	Al	27	310652.986	0.79	56.2565	10.332	18.366	ug/L
\>	Sc-1	45	392535.985	392535.99				ug/L
⌈	V	51	745794.166	0.70	55.3611	1.273	2.300	ug/L
|	Cr	52	631661.628	0.59	52.9551	1.231	2.324	ug/L
|	Cr	53	71019.737	0.04	34.2474	5.393	15.747	ug/L
|	Mn	55	1019720.976	0.96	51.5352	1.501	2.912	ug/L
|	Co	59	804862.023	0.76	50.0198	1.705	3.409	ug/L
|	Ni	60	171402.704	0.16	48.7550	1.224	2.511	ug/L
|	Cu	65	189710.078	0.18	49.4408	2.442	4.940	ug/L
|	Zn	66	125779.143	0.12	48.5540	7.155	14.736	ug/L
\>	Ge	72	1055294.578	1055294.58				ug/L
|	As	75	135710.119	0.13	47.1011	0.446	0.946	ug/L
|	Se	77	11264.877	0.01	45.5055	0.560	1.231	ug/L
⌊	Se	82	14731.497	0.01	47.9139	0.165	0.344	ug/L
	Y	89	829307.519	-9932.27				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	573908.440	0.63	47.4304	1.833	3.864	ug/L
|	Cd	114	351714.276	0.39	48.4892	0.544	1.123	ug/L
\>	In	115	913304.065	913304.06				ug/L
⌊	Sb	123	335795.783	0.37	46.8489	0.140	0.299	ug/L
⌈	Ba	135	113684.540	0.14	47.0856	3.917	8.318	ug/L
|	Ce	140	0.000	0.00				ug/L
\>	Tb	159	817841.599	817841.60				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	526747.136	526651.80	47.4889	0.767	1.614	ug/L
|	Tl	205	1335675.569	1335482.90	51.8326	0.771	1.488	ug/L
|	Pb	206	491314.989	491264.98	52.0442	0.725	1.393	ug/L
|	Pb	207	375989.220	375952.55	46.4209	0.461	0.993	ug/L
|	Pb	208	1829256.227	1829080.88	49.2746	0.344	0.698	ug/L
\>	Bi	209	784422.693	784422.69				ug/L
⌈	Na	23	22597230.775	57.98	5.2519	0.818	15.570	mg/L
|	Mg	24	17629747.227	45.21	5.3268	0.754	14.152	mg/L
|	K	39	60021548.269	152.85	5.0841	1.063	20.917	mg/L
|	Ca	43	103410.808	0.26	5.0112	0.584	11.648	mg/L
|	Fe	54	4784767.598	12.17	4.8192	0.567	11.773	mg/L
|	Fe	57	2001303.725	5.09	4.4225	0.309	6.990	mg/L

⌊> Sc	45	392535.985	392535.99		mg/L
Cl	35	31074.790	-607495.78		mg/L
Kr	83	163.003	-27.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9	104.844				
| Al	27	112.513				
⌊> Sc-1	45		105.681			
⌈ V	51	110.722				
| Cr	52	105.910				
| Cr	53	68.495				
| Mn	55	103.070				
| Co	59	100.040				
| Ni	60	97.510				
| Cu	65	98.882				
| Zn	66	97.108				
|> Ge	72		104.259			
| As	75	94.202				
| Se	77	91.011				
⌊ Se	82	95.828				
Y	89					
⌈ Rh	103					
| Ag	107	94.861				
| Cd	114	96.978				
|> In	115		100.839			
⌊ Sb	123	93.698				
⌈ Ba	135	94.171				
| Ce	140					
⌊> Tb	159		89.725			
⌈ Ho	165					
| Tl	203	94.978				
| Tl	205	103.665				
| Pb	206	104.088				
| Pb	207	92.842				
| Pb	208	98.549				
⌊> Bi	209		98.801			
⌈ Na	23	105.038				
| Mg	24	106.535				
| K	39	101.681				
| Ca	43	100.224				
| Fe	54	96.383				
| Fe	57	88.451				
⌊> Sc	45		105.681			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 14:37:36

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	K	39	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 14:41:54
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.350	4008.04				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	4001.167	-0.00	-0.2383	0.168	70.466	ug/L
|>	Sc-1	45	433430.204	433430.20				ug/L
⌈	V	51	5196.103	0.00	0.1154	0.145	126.060	ug/L
|	Cr	52	12690.779	0.00	0.0593	0.172	290.193	ug/L
|	Cr	53	3000.817	-0.03	-21.9428	1.700	7.749	ug/L
|	Mn	55	266.940	-0.00	-0.0672	0.008	11.882	ug/L
|	Co	59	0.000	-0.00	-0.0065	0.000	0.000	ug/L
|	Ni	60	33.367	-0.00	-0.0002	0.017	10470.233	ug/L
|	Cu	65	33.367	-0.00	-0.0004	0.015	4196.532	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1040614.831	1040614.83				ug/L
|	As	75	108.548	-0.00	-0.0266	0.033	123.996	ug/L
|	Se	77	135.335	-0.00	-1.9023	0.119	6.255	ug/L
⌊	Se	82	111.546	-0.00	-0.0975	0.048	49.396	ug/L
	Y	89	848495.406	9255.62				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	25.130	0.00	0.0007	0.000	69.104	ug/L
|>	In	115	894569.811	894569.81				ug/L
⌊	Sb	123	934.757	0.00	0.1300	0.013	9.673	ug/L
⌈	Ba	135	0.000	-0.00	-0.0124	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	835570.194	835570.19				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	29.334	-66.00	-0.0060	0.001	12.886	ug/L
|	Tl	205	54.667	-138.00	-0.0054	0.000	6.694	ug/L
|	Pb	206	80.009	30.00	0.0032	0.006	176.383	ug/L
|	Pb	207	46.671	10.00	0.0012	0.001	57.735	ug/L
|	Pb	208	282.683	107.34	0.0029	0.002	53.004	ug/L
|>	Bi	209	786759.519	786759.52				ug/L
⌈	Na	23	6669.982	0.01	0.0006	0.000	75.514	mg/L
|	Mg	24	1333.520	0.00	0.0001	0.000	208.842	mg/L
|	K	39	671197.928	-0.05	-0.0016	0.003	192.304	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	30709.535	-0.02	-0.0086	0.002	27.308	mg/L
|	Fe	57	9339.544	0.00	0.0031	0.003	100.832	mg/L

⌊> Sc	45	433430.204	433430.20		mg/L
Cl	35	33748.138	-604822.44		mg/L
Kr	83	140.336	-50.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
⌊> Sc-1	45		116.691			
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72		102.808			
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115		98.771			
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
⌊> Tb	159		91.670			
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
⌊> Bi	209		99.095			
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
⌊> Sc	45		116.691			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 14:42:43

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0527307

Sample Date/Time: Thursday, May 24, 2001 14:47:25
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12347.468	671.16				ug/L
⌈	Be	9	266.939	0.00	684.2303	163.167	23.847	ug/L
|	Al	27	43514693.227	90.87	6635907.9385	529320.317	7.977	ug/L
⌊>	Sc-1	45	481475.913	481475.91				ug/L
⌈	V	51	116538.991	0.11	8553.4716	495.157	5.789	ug/L
|	Cr	52	96307.846	0.08	7313.0886	456.249	6.239	ug/L
|	Cr	53	10675.448	-0.02	-15988.8684	3491.370	21.836	ug/L
|	Mn	55	5775803.813	5.45	297234.0867	14107.055	4.746	ug/L
|	Co	59	72302.746	0.07	4563.5929	49.133	1.077	ug/L
|	Ni	60	29021.412	0.03	8386.6015	703.435	8.388	ug/L
|	Cu	65	23261.277	0.02	6150.9506	525.692	8.547	ug/L
|	Zn	66	63953.443	0.06	25073.8960	2100.665	8.378	ug/L
|>	Ge	72	1059059.142	1059059.14				ug/L
|	As	75	3484.387	0.00	1165.2820	37.178	3.190	ug/L
|	Se	77	300.673	-0.00	-1237.4609	145.431	11.752	ug/L
⌊	Se	82	276.654	0.00	444.9787	42.762	9.610	ug/L
	Y	89	1267523.281	428283.49				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	934.335	0.00	74.8101	32.102	42.911	ug/L
|	Cd	114	1321.280	0.00	179.7227	3.239	1.802	ug/L
|>	In	115	929443.556	929443.56				ug/L
⌊	Sb	123	499.321	0.00	66.6712	2.060	3.090	ug/L
⌈	Ba	135	222643.279	0.26	90348.9339	6072.110	6.721	ug/L
|	Ce	140	1221146.656	1.44				ug/L
⌊>	Tb	159	854523.480	854523.48				ug/L
⌈	Ho	165	13680.939	13680.94				ug/L
|	Tl	203	1856.593	1761.26	162.0563	2.757	1.701	ug/L
|	Tl	205	4634.883	4442.21	175.9292	1.962	1.115	ug/L
|	Pb	206	79191.137	79141.13	8555.2553	84.580	0.989	ug/L
|	Pb	207	61587.344	61550.67	7755.1013	245.304	3.163	ug/L
|	Pb	208	298465.725	298290.38	8199.8023	89.441	1.091	ug/L
⌊>	Bi	209	801853.524	801853.52				ug/L
⌈	Na	23	2431892.455	5.08	469.4273	61.430	13.086	mg/L
|	Mg	24	11537369.005	24.09	2895.6809	279.722	9.660	mg/L
|	K	39	37167189.505	76.13	2583.8081	283.170	10.959	mg/L
|	Ca	43	99361.460	0.21	4025.0153	802.479	19.937	mg/L
|	Fe	54	5447261.517	11.24	4540.6919	92.216	2.031	mg/L
|	Fe	57	2548184.329	5.33	4720.1996	719.844	15.250	mg/L

|> Sc	45	481475.913	481475.91		mg/L
Cl	35	38771.859	-599798.71		mg/L
Kr	83	194.338	4.00		mg/L
U	238	16018.081	16018.08		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		129.626			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		104.631			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.621			
Sb	123					
Ba	135					
Ce	140					
Tb	159		93.750			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.996			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		129.626			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527307
Report Date/Time: Thursday, May 24, 2001 14:48:25

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527308

Sample Date/Time: Thursday, May 24, 2001 14:53:07
Number of Replicates: 3
Aliquot Volume (mL): 0.530
Diluted To Volume (mL): 50.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.574	7015.26				ug/L
⌈	Be	9	233.571	0.00	617.2650	142.077	23.017	ug/L
|	Al	27	14719286.011	34.64	2338825.9171	436973.428	18.683	ug/L
|>	Sc-1	45	427816.616	427816.62				ug/L
⌈	V	51	125001.589	0.11	8482.0875	650.416	7.668	ug/L
|	Cr	52	50730.384	0.04	3087.1161	198.676	6.436	ug/L
|	Cr	53	8005.044	-0.02	-16875.8500	2662.189	15.775	ug/L
|	Mn	55	1385186.614	1.30	65726.2566	1629.268	2.479	ug/L
|	Co	59	30160.439	0.03	1752.7760	77.377	4.415	ug/L
|	Ni	60	12557.005	0.01	3348.3653	444.449	13.274	ug/L
|	Cu	65	6075.357	0.01	1476.3603	199.396	13.506	ug/L
|	Zn	66	29393.986	0.03	10636.7537	748.002	7.032	ug/L
|>	Ge	72	1060827.435	1060827.44				ug/L
|	As	75	4045.647	0.00	1258.4100	27.892	2.216	ug/L
|	Se	77	194.669	-0.00	-1568.9037	40.457	2.579	ug/L
⌊	Se	82	164.221	0.00	63.4731	94.702	149.200	ug/L
	Y	89	1025724.022	186484.24				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	633.999	0.00	46.2521	22.146	47.880	ug/L
|	Cd	114	51.589	0.00	3.9283	0.387	9.847	ug/L
|>	In	115	922559.353	922559.35				ug/L
⌊	Sb	123	352.286	0.00	42.9836	3.877	9.021	ug/L
⌈	Ba	135	72370.378	0.08	26116.7240	1576.490	6.036	ug/L
|	Ce	140	767650.161	0.87				ug/L
|>	Tb	159	885736.971	885736.97				ug/L
⌈	Ho	165	5335.761	5335.76				ug/L
|	Tl	203	555.027	459.69	39.1048	2.147	5.491	ug/L
|	Tl	205	1329.804	1137.13	41.6361	0.742	1.782	ug/L
|	Pb	206	30380.865	30330.86	3031.3470	76.805	2.534	ug/L
|	Pb	207	22908.966	22872.30	2664.3092	8.824	0.331	ug/L
|	Pb	208	111382.029	111206.69	2826.2803	26.251	0.929	ug/L
|>	Bi	209	801917.666	801917.67				ug/L
⌈	Na	23	1303927.233	3.06	261.6771	47.346	18.093	mg/L
|	Mg	24	6699303.946	15.77	1752.7929	316.953	18.083	mg/L
|	K	39	11582283.143	25.62	804.0338	91.133	11.334	mg/L
|	Ca	43	97672.463	0.23	4114.1011	861.108	20.931	mg/L
|	Fe	54	2563471.473	5.90	2205.7541	154.934	7.024	mg/L
|	Fe	57	1065841.883	2.48	2035.0782	207.641	10.203	mg/L

|> Sc	45	427816.616	427816.62		mg/L
Cl	35	25713.114	-612857.46		mg/L
Kr	83	142.003	-48.33		mg/L
U	238	15350.386	15350.39		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		115.180			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.805			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.861			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		97.174			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		101.004			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		115.180			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0527309

Sample Date/Time: Thursday, May 24, 2001 14:58:50
Number of Replicates: 3
Aliquot Volume (mL): 0.510
Diluted To Volume (mL): 50.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17022.080	5345.77				ug/L
⌈	Be	9	133.468	0.00	288.9859	157.953	54.658	ug/L
|	Al	27	27637710.563	61.69	4328197.2218	423126.799	9.776	ug/L
|>	Sc-1	45	449061.498	449061.50				ug/L
⌈	V	51	93067.696	0.08	6481.7229	256.319	3.954	ug/L
|	Cr	52	56277.036	0.04	3658.9318	141.614	3.870	ug/L
|	Cr	53	5669.912	-0.02	-19421.7965	3726.077	19.185	ug/L
|	Mn	55	912836.943	0.86	44868.6373	1688.199	3.763	ug/L
|	Co	59	22089.603	0.02	1329.2430	86.364	6.497	ug/L
|	Ni	60	17873.689	0.02	4936.7893	510.049	10.332	ug/L
|	Cu	65	10952.722	0.01	2767.5443	261.950	9.465	ug/L
|	Zn	66	42796.944	0.04	16068.2241	2752.501	17.130	ug/L
|>	Ge	72	1063444.330	1063444.33				ug/L
|	As	75	6815.596	0.01	2240.6353	39.919	1.782	ug/L
|	Se	77	273.339	-0.00	-1305.7159	57.022	4.367	ug/L
_	Se	82	185.345	0.00	131.9768	44.446	33.677	ug/L
	Y	89	1209216.577	369976.79				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	400.412	0.00	29.4536	0.159	0.539	ug/L
|	Cd	114	89.484	0.00	9.1771	1.149	12.523	ug/L
|>	In	115	920921.282	920921.28				ug/L
_	Sb	123	130.179	0.00	14.6172	1.644	11.246	ug/L
⌈	Ba	135	64252.179	0.07	24192.7493	1511.530	6.248	ug/L
|	Ce	140	939007.966	1.07				ug/L
|>	Tb	159	883700.689	883700.69				ug/L
⌈	Ho	165	13345.899	13345.90				ug/L
|	Tl	203	1018.083	922.75	81.5740	1.477	1.810	ug/L
|	Tl	205	2562.819	2370.15	90.1862	3.222	3.573	ug/L
|	Pb	206	32523.868	32473.86	3372.7999	135.226	4.009	ug/L
|	Pb	207	25635.179	25598.51	3098.8120	104.554	3.374	ug/L
|	Pb	208	123918.423	123743.08	3268.2175	68.351	2.091	ug/L
|>	Bi	209	799850.015	799850.01				ug/L
⌈	Na	23	498488.869	1.11	98.3001	10.963	11.152	mg/L
|	Mg	24	11962217.012	26.77	3092.3923	436.012	14.100	mg/L
|	K	39	24960884.256	54.05	1762.7025	162.151	9.199	mg/L
|	Ca	43	103411.094	0.23	4293.7442	510.146	11.881	mg/L
|	Fe	54	3453466.569	7.63	2962.5546	286.919	9.685	mg/L
|	Fe	57	1601118.927	3.56	3031.4443	302.535	9.980	mg/L

> Sc	45	449061.498	449061.50		mg/L
Cl	35	32742.961	-605827.61		mg/L
Kr	83	185.671	-4.67		mg/L
U	238	26717.586	26717.59		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		120.899			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		105.064			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		101.680			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		96.951			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		100.744			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		120.899			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527309
Report Date/Time: Thursday, May 24, 2001 14:59:50

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527312

Sample Date/Time: Thursday, May 24, 2001 15:04:34
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14682.411	3006.10				ug/L
⌈	Be	9	100.101	0.00	220.9633	40.089	18.143	ug/L
|	Al	27	10336577.255	24.98	1787350.5806	149815.427	8.382	ug/L
|>	Sc-1	45	415494.849	415494.85				ug/L
⌈	V	51	78443.144	0.07	5525.2418	383.761	6.946	ug/L
|	Cr	52	40823.970	0.03	2418.9595	202.410	8.368	ug/L
|	Cr	53	4001.541	-0.02	-21185.6175	2467.567	11.647	ug/L
|	Mn	55	1995534.048	1.87	100073.2002	1586.494	1.585	ug/L
|	Co	59	23662.768	0.02	1452.0504	25.751	1.773	ug/L
|	Ni	60	6609.703	0.01	1855.9653	268.341	14.458	ug/L
|	Cu	65	10885.844	0.01	2805.0281	148.536	5.295	ug/L
|	Zn	66	55886.996	0.05	21393.7354	2936.828	13.728	ug/L
|>	Ge	72	1064190.889	1064190.89				ug/L
|	As	75	2279.852	0.00	720.7653	50.455	7.000	ug/L
|	Se	77	228.670	-0.00	-1521.9715	130.857	8.598	ug/L
⌊	Se	82	166.801	0.00	73.7253	29.513	40.030	ug/L
	Y	89	1084973.002	245733.22				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	734.108	0.00	57.1354	17.490	30.612	ug/L
|	Cd	114	867.677	0.00	115.6767	6.047	5.227	ug/L
|>	In	115	921279.576	921279.58				ug/L
⌊	Sb	123	185.466	0.00	22.5372	0.878	3.895	ug/L
⌈	Ba	135	133164.832	0.16	55616.5195	3976.411	7.150	ug/L
|	Ce	140	495343.140	0.61				ug/L
⌊>	Tb	159	810891.981	810891.98				ug/L
⌈	Ho	165	6669.982	6669.98				ug/L
|	Tl	203	592.364	497.03	44.8178	0.788	1.758	ug/L
|	Tl	205	1342.806	1150.14	44.6389	0.157	0.351	ug/L
|	Pb	206	135755.004	135705.00	14376.4825	275.628	1.917	ug/L
|	Pb	207	114024.459	113987.79	14074.6974	285.121	2.026	ug/L
|	Pb	208	532760.122	532584.78	14347.5899	53.788	0.375	ug/L
⌊>	Bi	209	799653.197	799653.20				ug/L
⌈	Na	23	122712.448	0.29	26.1224	2.624	10.044	mg/L
|	Mg	24	2852550.904	6.92	815.1680	95.959	11.772	mg/L
|	K	39	8891413.250	19.96	663.8134	78.443	11.817	mg/L
|	Ca	43	143426.228	0.35	6588.8412	847.148	12.857	mg/L
|	Fe	54	1932631.227	4.60	1823.3273	252.275	13.836	mg/L
|	Fe	57	804751.285	1.93	1676.7718	186.055	11.096	mg/L

|> Sc	45	415494.849	415494.85		mg/L
Cl	35	30399.302	-608171.27		mg/L
Kr	83	168.004	-22.33		mg/L
U	238	12013.878	12013.88		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		111.862			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.138			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.720			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.963			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		100.719			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		111.862			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527312
Report Date/Time: Thursday, May 24, 2001 15:05:32

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0527313

Sample Date/Time: Thursday, May 24, 2001 15:10:16
Number of Replicates: 3
Aliquot Volume (mL): 0.530
Diluted To Volume (mL): 50.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14682.505	3006.19				ug/L
⌈	Be	9	66.734	0.00	82.6510	355.046	429.573	ug/L
|	Al	27	17993301.148	36.30	2450637.0234	180527.478	7.367	ug/L
⌊>	Sc-1	45	497888.985	497888.98				ug/L
⌈	V	51	111905.890	0.10	7566.2083	426.881	5.642	ug/L
|	Cr	52	49755.614	0.04	3005.4410	12.524	0.417	ug/L
|	Cr	53	4334.851	-0.02	-19726.6733	1593.112	8.076	ug/L
|	Mn	55	2454143.799	2.31	116399.3428	4819.319	4.140	ug/L
|	Co	59	33143.673	0.03	1926.1821	208.786	10.839	ug/L
|	Ni	60	10284.370	0.01	2734.0901	201.503	7.370	ug/L
|	Cu	65	14395.540	0.01	3509.5186	52.435	1.494	ug/L
|	Zn	66	52532.088	0.05	18994.9505	4156.216	21.881	ug/L
| >	Ge	72	1061772.270	1061772.27				ug/L
|	As	75	3148.423	0.00	964.6374	14.004	1.452	ug/L
|	Se	77	273.339	-0.00	-1255.1420	135.957	10.832	ug/L
⌊	Se	82	198.868	0.00	169.5275	36.317	21.423	ug/L
	Y	89	1148130.363	308890.58				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	400.415	0.00	28.0259	20.493	73.122	ug/L
|	Cd	114	911.842	0.00	113.5841	6.035	5.314	ug/L
| >	In	115	932162.393	932162.39				ug/L
⌊	Sb	123	214.182	0.00	24.7273	2.749	11.118	ug/L
⌈	Ba	135	168498.193	0.20	62527.8990	5257.588	8.408	ug/L
|	Ce	140	721472.324	0.84				ug/L
⌊>	Tb	159	864117.952	864117.95				ug/L
⌈	Ho	165	12345.176	12345.18				ug/L
|	Tl	203	850.726	755.39	64.2591	1.592	2.478	ug/L
|	Tl	205	2056.650	1863.98	68.2496	0.589	0.863	ug/L
|	Pb	206	183903.262	183853.26	18374.7846	494.435	2.691	ug/L
|	Pb	207	151157.829	151121.16	17603.5456	250.664	1.424	ug/L
|	Pb	208	708782.413	708607.07	18009.0092	228.765	1.270	ug/L
⌊>	Bi	209	808416.892	808416.89				ug/L
⌈	Na	23	150916.264	0.30	25.4124	4.053	15.947	mg/L
|	Mg	24	3803401.205	7.67	852.3509	76.733	9.002	mg/L
|	K	39	13219890.289	25.12	788.2511	101.768	12.911	mg/L
|	Ca	43	244132.928	0.49	8790.3336	1023.640	11.645	mg/L
|	Fe	54	2852006.638	5.67	2120.0980	211.759	9.988	mg/L
⌊	Fe	57	1259255.850	2.53	2072.0121	234.358	11.311	mg/L

\> Sc	45	497888.985	497888.98		mg/L
Cl	35	35086.290	-603484.28		mg/L
Kr	83	167.670	-22.67		mg/L
U	238	17356.466	17356.47		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		134.045			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.899			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.922			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		94.802			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		101.823			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		134.045			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527313
Report Date/Time: Thursday, May 24, 2001 15:11:15

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527314

Sample Date/Time: Thursday, May 24, 2001 15:15:58
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17354.687	5678.38				ug/L
⌈	Be	9	100.101	0.00	158.1378	271.694	171.808	ug/L
|	Al	27	13684096.941	29.60	2118414.4888	277834.739	13.115	ug/L
⌊>	Sc-1	45	466935.427	466935.43				ug/L
⌈	V	51	184351.902	0.17	13124.4489	212.454	1.619	ug/L
|	Cr	52	58329.465	0.04	3819.5172	373.431	9.777	ug/L
|	Cr	53	9006.281	-0.02	-17226.8256	2841.432	16.494	ug/L
|	Mn	55	3411901.441	3.15	168249.4268	3900.809	2.318	ug/L
|	Co	59	31400.441	0.03	1895.6534	128.335	6.770	ug/L
|	Ni	60	14830.265	0.01	4101.3701	307.759	7.504	ug/L
|	Cu	65	24198.561	0.02	6139.7436	484.489	7.891	ug/L
|	Zn	66	106798.174	0.10	40195.9266	4536.499	11.286	ug/L
|>	Ge	72	1082669.619	1082669.62				ug/L
|	As	75	3009.600	0.00	954.3588	32.002	3.353	ug/L
|	Se	77	238.671	-0.00	-1495.9362	140.624	9.400	ug/L
⌊	Se	82	208.586	0.00	198.3338	23.190	11.692	ug/L
	Y	89	1034945.544	195705.76				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	1768.658	0.00	139.9107	24.903	17.799	ug/L
|	Cd	114	2254.451	0.00	300.3005	18.903	6.295	ug/L
|>	In	115	936862.157	936862.16				ug/L
⌊	Sb	123	165.841	0.00	19.4354	2.391	12.304	ug/L
⌈	Ba	135	210912.024	0.23	79351.0321	4174.466	5.261	ug/L
|	Ce	140	675927.995	0.75				ug/L
⌊>	Tb	159	900397.261	900397.26				ug/L
⌈	Ho	165	5668.978	5668.98				ug/L
|	Tl	203	794.386	699.05	63.0344	3.698	5.866	ug/L
|	Tl	205	1917.610	1724.94	66.9481	2.602	3.887	ug/L
|	Pb	206	409855.540	409805.53	43414.4810	1136.900	2.619	ug/L
|	Pb	207	344839.253	344802.58	42574.6660	1653.179	3.883	ug/L
|	Pb	208	1614955.591	1614780.25	43501.4401	1619.882	3.724	ug/L
⌊>	Bi	209	819712.934	819712.93				ug/L
⌈	Na	23	189855.057	0.41	36.7990	9.165	24.906	mg/L
|	Mg	24	3479707.485	7.55	889.2623	147.960	16.639	mg/L
|	K	39	16978451.184	35.10	1167.5990	130.463	11.174	mg/L
|	Ca	43	290822.149	0.63	11970.7318	2211.232	18.472	mg/L
|	Fe	54	2654735.017	5.65	2239.0167	324.228	14.481	mg/L
|	Fe	57	1166276.546	2.51	2182.9901	358.594	16.427	mg/L

⌊>	Sc	45	466935.427	466935.43	mg/L
	Cl	35	32071.888	-606498.69	mg/L
	Kr	83	179.337	-11.00	mg/L
	U	238	11009.085	11009.08	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		125.712			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
⌊>	Ge	72		106.963			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
⌊>	In	115		103.440			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.782			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		103.246			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		125.712			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527314
Report Date/Time: Thursday, May 24, 2001 15:16:58

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0527317

Sample Date/Time: Thursday, May 24, 2001 15:21:42
Number of Replicates: 3
Aliquot Volume (mL): 0.480
Diluted To Volume (mL): 50.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21031.244	9354.93				ug/L
⌈	Be	9	133.469	0.00	321.4707	542.644	168.800	ug/L
|	Al	27	14278258.715	32.47	2420211.9085	138405.611	5.719	ug/L
⌊>	Sc-1	45	440920.030	440920.03				ug/L
⌈	V	51	106472.479	0.10	7984.7845	517.438	6.480	ug/L
|	Cr	52	44348.799	0.03	2864.8698	344.628	12.029	ug/L
|	Cr	53	5335.341	-0.02	-20888.7737	503.863	2.412	ug/L
|	Mn	55	1887535.787	1.79	99449.7752	2634.110	2.649	ug/L
|	Co	59	21320.063	0.02	1374.0701	176.192	12.823	ug/L
|	Ni	60	6576.361	0.01	1938.6816	419.418	21.634	ug/L
|	Cu	65	12857.759	0.01	3481.4400	160.734	4.617	ug/L
|	Zn	66	42128.127	0.04	16932.3041	3837.877	22.666	ug/L
|>	Ge	72	1055158.102	1055158.10				ug/L
|	As	75	2307.569	0.00	767.6878	17.113	2.229	ug/L
|	Se	77	226.004	-0.00	-1588.2498	111.697	7.033	ug/L
⌊	Se	82	171.801	0.00	98.8576	25.843	26.142	ug/L
	Y	89	1092797.555	253557.77				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	600.633	0.00	47.7496	33.532	70.225	ug/L
|	Cd	114	657.883	0.00	90.0824	6.295	6.988	ug/L
|>	In	115	927672.693	927672.69				ug/L
⌊	Sb	123	71.269	0.00	6.9607	0.377	5.415	ug/L
⌈	Ba	135	108393.183	0.13	45086.2077	456.012	1.011	ug/L
|	Ce	140	719258.481	0.85				ug/L
⌊>	Tb	159	847605.932	847605.93				ug/L
⌈	Ho	165	6002.848	6002.85				ug/L
|	Tl	203	547.693	452.36	42.4894	1.763	4.150	ug/L
|	Tl	205	1397.818	1205.15	48.7229	2.088	4.286	ug/L
|	Pb	206	123795.957	123745.95	13655.7816	178.813	1.309	ug/L
|	Pb	207	100059.730	100023.06	12864.9956	424.911	3.303	ug/L
|	Pb	208	478292.919	478117.58	13416.9463	184.928	1.378	ug/L
⌊>	Bi	209	804027.024	804027.02				ug/L
⌈	Na	23	167273.366	0.37	35.0078	1.585	4.527	mg/L
|	Mg	24	3684906.183	8.36	1025.9320	71.123	6.933	mg/L
|	K	39	11401929.933	24.34	843.4754	52.240	6.193	mg/L
|	Ca	43	148882.593	0.34	6686.6167	1036.141	15.496	mg/L
|	Fe	54	2880306.338	6.47	2668.0603	298.670	11.194	mg/L
|	Fe	57	1304514.245	2.96	2676.9019	354.080	13.227	mg/L

\> Sc	45	440920.030	440920.03		mg/L
Cl	35	29394.925	-609175.65		mg/L
Kr	83	168.004	-22.33		mg/L
U	238	14682.926	14682.93		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		118.707			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		104.245			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		102.426			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		92.991			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		101.270			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		118.707			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527317
Report Date/Time: Thursday, May 24, 2001 15:22:41

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0527318

Sample Date/Time: Thursday, May 24, 2001 15:27:22
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 35
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.899	5010.59				ug/L
⌈	Be	9	66.734	0.00	126.7844	444.201	350.359	ug/L
|	Al	27	16241442.721	40.01	2863257.1947	237943.834	8.310	ug/L
⌊>	Sc-1	45	407695.138	407695.14				ug/L
⌈	V	51	116714.612	0.11	8333.2263	568.187	6.818	ug/L
|	Cr	52	43979.230	0.03	2678.3703	297.173	11.095	ug/L
|	Cr	53	5335.574	-0.02	-20113.3488	1842.957	9.163	ug/L
|	Mn	55	2140413.839	2.00	107063.4117	4135.823	3.863	ug/L
|	Co	59	34283.125	0.03	2100.1206	96.370	4.589	ug/L
|	Ni	60	10150.748	0.01	2844.6725	308.424	10.842	ug/L
|	Cu	65	8279.747	0.01	2125.2686	125.570	5.908	ug/L
|	Zn	66	34082.006	0.03	12995.6047	1544.710	11.886	ug/L
| >	Ge	72	1067173.900	1067173.90				ug/L
|	As	75	3283.539	0.00	1063.6957	35.672	3.354	ug/L
|	Se	77	234.671	-0.00	-1499.6900	98.545	6.571	ug/L
⌊	Se	82	171.794	0.00	88.3031	48.386	54.795	ug/L
	Y	89	1069110.050	229870.26				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	600.626	0.00	45.9362	8.244	17.947	ug/L
|	Cd	114	438.591	0.00	56.4497	4.081	7.229	ug/L
| >	In	115	931053.501	931053.50				ug/L
⌊	Sb	123	69.390	0.00	6.3868	1.680	26.307	ug/L
⌈	Ba	135	119239.706	0.13	44718.4588	1525.130	3.411	ug/L
|	Ce	140	676633.324	0.75				ug/L
⌊>	Tb	159	902675.913	902675.91				ug/L
⌈	Ho	165	3334.407	3334.41				ug/L
|	Tl	203	801.720	706.38	63.6957	2.167	3.402	ug/L
|	Tl	205	1878.599	1685.93	65.4341	2.224	3.398	ug/L
|	Pb	206	51644.568	51594.56	5465.8881	120.990	2.214	ug/L
|	Pb	207	42020.788	41984.12	5184.0093	91.333	1.762	ug/L
|	Pb	208	199076.516	198901.17	5358.3065	27.556	0.514	ug/L
⌊>	Bi	209	821881.411	821881.41				ug/L
⌈	Na	23	221781.836	0.54	49.0688	11.399	23.230	mg/L
|	Mg	24	5222451.351	12.92	1522.6985	265.027	17.405	mg/L
|	K	39	13677987.442	32.22	1071.6916	166.663	15.551	mg/L
|	Ca	43	535028.385	1.32	25019.3140	3615.115	14.449	mg/L
|	Fe	54	2714952.628	6.59	2610.3175	181.179	6.941	mg/L
|	Fe	57	1216730.529	3.00	2602.4087	468.528	18.004	mg/L

\> Sc	45	407695.138	407695.14		mg/L
Cl	35	20696.717	-617873.86		mg/L
Kr	83	166.337	-24.00		mg/L
U	238	11343.376	11343.38		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		109.762			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		105.432			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		102.799			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		99.032			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		103.519			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		109.762			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527318
Report Date/Time: Thursday, May 24, 2001 15:28:21

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, May 24, 2001 15:32:41
Number of Replicates: 3
Allquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18026.644	6350.33				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	57627566.706	148.32	10614.7757	269.975	2.543	ug/L
⌊>	Sc-1	45	388293.892	388293.89				ug/L
⌈	V	51	2829.066	-0.00	-0.0556	0.236	423.621	ug/L
|	Cr	52	14663.074	0.00	0.2764	0.095	34.271	ug/L
|	Cr	53	5001.797	-0.02	-20.1214	0.827	4.109	ug/L
|	Mn	55	5507.634	0.00	0.2121	0.016	7.734	ug/L
|	Co	59	1701.911	0.00	0.1049	0.025	23.456	ug/L
|	Ni	60	1668.530	0.00	0.4893	0.030	6.210	ug/L
|	Cu	65	1301.427	0.00	0.3481	0.112	32.270	ug/L
|	Zn	66	5335.341	0.01	2.1654	0.234	10.805	ug/L
|>	Ge	72	1003361.088	1003361.09				ug/L
|	As	75	160.005	-0.00	-0.0068	0.031	462.529	ug/L
|	Se	77	403.345	-0.00	-0.6806	0.090	13.201	ug/L
⌊	Se	82	109.908	-0.00	-0.0896	0.029	32.401	ug/L
	Y	89	804625.314	-34614.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0032	0.005	162.931	ug/L
|	Cd	114	2588.287	0.00	0.3776	0.016	4.348	ug/L
|>	In	115	856476.829	856476.83				ug/L
⌊	Sb	123	800.987	0.00	0.1161	0.006	5.204	ug/L
⌈	Ba	135	233.571	0.00	0.0897	0.031	34.594	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	782361.940	782361.94				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	61.334	-34.00	-0.0031	0.000	16.199	ug/L
|	Tl	205	170.670	-22.00	-0.0009	0.000	42.234	ug/L
|	Pb	206	1030.178	980.17	0.1038	0.010	10.051	ug/L
|	Pb	207	1006.838	970.17	0.1198	0.008	6.299	ug/L
|	Pb	208	4378.757	4203.41	0.1132	0.005	4.406	ug/L
⌊>	Bi	209	746496.106	746496.11				ug/L
⌈	Na	23	113976127.796	294.14	26.6450	1.564	5.872	mg/L
|	Mg	24	36068728.752	93.00	10.9567	0.437	3.985	mg/L
|	K	39	116811167.016	300.72	10.0027	1.371	13.707	mg/L
|	Ca	43	614774.803	1.59	30.0362	3.181	10.589	mg/L
|	Fe	54	20937501.160	53.91	21.3515	0.928	4.346	mg/L
|	Fe	57	9239937.959	23.86	20.7207	2.271	10.959	mg/L

\> Sc	45	388293.892	388293.89		mg/L
Cl	35	5543657.997	4905087.42		mg/L
Kr	83	177.671	-12.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	106.148				
\> Sc-1	45		104.539			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		99.128			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		94.565			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		85.833			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		94.024			
Na	23	106.580				
Mg	24	109.567				
K	39	100.027				
Ca	43	100.121				
Fe	54	85.406				
Fe	57	82.883				
\> Sc	45		104.539			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Thursday, May 24, 2001 15:33:31

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, May 24, 2001 15:37:51
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.800	8686.49				ug/L
⌈	Be	9	33.367	-0.00	-0.0092	0.209	2260.925	ug/L
|	Al	27	58607627.364	145.51	10413.2603	185.294	1.779	ug/L
⌊>	Sc-1	45	402708.039	402708.04				ug/L
⌈	V	51	273756.089	0.27	21.4122	1.088	5.083	ug/L
|	Cr	52	249496.381	0.24	21.6090	0.652	3.016	ug/L
|	Cr	53	36763.764	0.01	7.8109	6.792	86.961	ug/L
|	Mn	55	359728.506	0.36	19.2578	0.843	4.376	ug/L
|	Co	59	286763.692	0.29	18.9271	0.893	4.718	ug/L
|	Ni	60	65026.284	0.07	19.6412	0.805	4.100	ug/L
|	Cu	65	71359.193	0.07	19.7416	0.591	2.996	ug/L
|	Zn	66	26383.200	0.03	10.8196	2.177	20.125	ug/L
|>	Ge	72	993738.359	993738.36				ug/L
|	As	75	25012.099	0.02	9.1667	0.153	1.671	ug/L
|	Se	77	2453.755	0.00	8.6150	0.319	3.705	ug/L
⌊	Se	82	2799.945	0.00	9.2964	0.057	0.617	ug/L
	Y	89	804642.953	-34596.83				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	54864.893	0.06	4.8379	0.245	5.066	ug/L
|	Cd	114	66055.258	0.08	9.7186	0.222	2.284	ug/L
|>	In	115	855756.137	855756.14				ug/L
⌊	Sb	123	769.475	0.00	0.1115	0.007	6.410	ug/L
⌈	Ba	135	300.310	0.00	0.1135	0.110	96.891	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	779808.357	779808.36				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.001	-25.33	-0.0023	0.001	28.465	ug/L
|	Tl	205	166.670	-26.00	-0.0010	0.001	60.853	ug/L
|	Pb	206	1100.195	1050.19	0.1113	0.004	3.299	ug/L
|	Pb	207	1016.842	980.17	0.1210	0.024	19.797	ug/L
|	Pb	208	4504.460	4329.12	0.1166	0.005	4.201	ug/L
⌊>	Bi	209	747949.739	747949.74				ug/L
⌈	Na	23	115525652.192	286.97	25.9950	2.128	8.186	mg/L
|	Mg	24	35698793.073	88.67	10.4459	0.873	8.359	mg/L
|	K	39	114040941.711	281.50	9.3636	0.530	5.658	mg/L
|	Ca	43	622208.776	1.54	29.2063	3.362	11.511	mg/L
|	Fe	54	21152531.072	52.43	20.7632	0.582	2.803	mg/L
|	Fe	57	9516914.517	23.62	20.5129	0.614	2.991	mg/L

\> Sc	45	402708.039	402708.04		mg/L
Cl	35	5632193.076	4993622.50		mg/L
Kr	83	173.671	-16.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	104.133				
|>	Sc-1	45			108.420		
⌈	V	51	107.061				
|	Cr	52	108.045				
|	Cr	53	39.055				
|	Mn	55	96.289				
|	Co	59	94.635				
|	Ni	60	98.206				
|	Cu	65	98.708				
|	Zn	66	108.196				
|>	Ge	72			98.177		
|	As	75	91.667				
|	Se	77	86.150				
⌊	Se	82	92.964				
	Y	89					
⌈	Rh	103					
|	Ag	107	96.758				
|	Cd	114	97.186				
|>	In	115			94.485		
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159			85.553		
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209			94.207		
⌈	Na	23	103.980				
|	Mg	24	104.459				
|	K	39	93.636				
|	Ca	43	97.354				
|	Fe	54	83.053				
|	Fe	57	82.052				
|>	Sc	45			108.420		
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Thursday, May 24, 2001 15:38:41

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 15:43:00
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.268	4341.96				ug/L
⌈	Be	9	14061.234	0.04	50.5345	5.044	9.982	ug/L
|	Al	27	287679.374	0.71	50.4536	3.741	7.415	ug/L
|>	Sc-1	45	402399.882	402399.88				ug/L
⌈	V	51	708290.725	0.68	53.1747	1.521	2.860	ug/L
|	Cr	52	635057.806	0.60	53.9023	2.271	4.213	ug/L
|	Cr	53	72703.451	0.04	36.3191	5.165	14.222	ug/L
|	Mn	55	1025476.999	0.98	52.4463	0.875	1.668	ug/L
|	Co	59	785851.370	0.75	49.4024	2.499	5.059	ug/L
|	Ni	60	174277.566	0.17	50.1457	2.411	4.809	ug/L
|	Cu	65	194985.650	0.19	51.4062	0.742	1.443	ug/L
|	Zn	66	120001.654	0.12	46.8712	2.943	6.279	ug/L
|>	Ge	72	1042923.626	1042923.63				ug/L
|	As	75	134105.029	0.13	47.0980	0.234	0.496	ug/L
|	Se	77	11357.692	0.01	46.4824	1.177	2.532	ug/L
⌊	Se	82	14462.587	0.01	47.5959	0.868	1.823	ug/L
	Y	89	850842.246	11602.46				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	600224.005	0.68	51.2603	0.520	1.014	ug/L
|	Cd	114	346252.525	0.39	49.3350	0.800	1.621	ug/L
|>	In	115	883792.712	883792.71				ug/L
⌊	Sb	123	330731.966	0.37	47.6896	0.583	1.222	ug/L
⌈	Ba	135	105580.519	0.12	41.3394	0.418	1.011	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	864366.170	864366.17				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	523461.767	523366.43	47.1927	0.317	0.671	ug/L
|	Tl	205	1315576.327	1315383.66	51.0525	0.773	1.513	ug/L
|	Pb	206	481519.341	481469.34	51.0065	0.676	1.326	ug/L
|	Pb	207	371358.709	371322.04	45.8492	0.301	0.656	ug/L
|	Pb	208	1800608.474	1800433.13	48.5028	0.404	0.833	ug/L
⌊>	Bi	209	763833.868	763833.87				ug/L
⌈	Na	23	23783585.391	59.25	5.3668	0.380	7.077	mg/L
|	Mg	24	18589267.895	46.25	5.4491	0.133	2.447	mg/L
|	K	39	57943879.290	142.88	4.7524	0.422	8.887	mg/L
|	Ca	43	95973.862	0.24	4.5270	0.307	6.781	mg/L
|	Fe	54	4665046.614	11.58	4.5843	0.581	12.664	mg/L
|	Fe	57	2031784.284	5.03	4.3681	0.082	1.884	mg/L

\> Sc	45	402399.882	402399.88		mg/L
Cl	35	84843.847	-553726.73		mg/L
Kr	83	129.002	-61.34		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	101.069				
Al	27	100.907				
\> Sc-1	45		108.337			
V	51	106.349				
Cr	52	107.805				
Cr	53	72.638				
Mn	55	104.893				
Co	59	98.805				
Ni	60	100.291				
Cu	65	102.812				
Zn	66	93.742				
\> Ge	72		103.037			
As	75	94.196				
Se	77	92.965				
Se	82	95.192				
Y	89					
Rh	103					
Ag	107	102.521				
Cd	114	98.670				
\> In	115		97.581			
Sb	123	95.379				
Ba	135	82.679				
Ce	140					
\> Tb	159		94.829			
Ho	165					
Tl	203	94.385				
Tl	205	102.105				
Pb	206	102.013				
Pb	207	91.698				
Pb	208	97.006				
\> Bi	209		96.207			
Na	23	107.337				
Mg	24	108.983				
K	39	95.049				
Ca	43	90.539				
Fe	54	91.686				
Fe	57	87.362				
\> Sc	45		108.337			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 15:43:50

QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 15:48:08
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17354.593	5678.28				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	5335.341	-0.00	-0.0304	0.069	227.233	ug/L
⌊>	Sc-1	45	438751.210	438751.21				ug/L
⌈	V	51	2740.508	-0.00	-0.0719	0.045	63.072	ug/L
|	Cr	52	12724.205	0.00	0.0596	0.148	248.359	ug/L
|	Cr	53	1000.070	-0.03	-23.6254	0.022	0.095	ug/L
|	Mn	55	634.001	-0.00	-0.0481	0.019	39.463	ug/L
|	Co	59	33.367	-0.00	-0.0043	0.004	86.669	ug/L
|	Ni	60	33.367	-0.00	-0.0003	0.017	5231.868	ug/L
|	Cu	65	33.367	-0.00	-0.0005	0.015	3238.637	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1041226.573	1041226.57				ug/L
|	As	75	136.693	-0.00	-0.0171	0.020	114.582	ug/L
|	Se	77	152.002	-0.00	-1.8305	0.130	7.109	ug/L
⌊	Se	82	122.908	-0.00	-0.0608	0.050	81.804	ug/L
	Y	89	880571.868	41332.08				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0030	0.010	333.945	ug/L
|	Cd	114	33.430	0.00	0.0019	0.001	47.588	ug/L
|>	In	115	888204.124	888204.12				ug/L
⌊	Sb	123	3899.161	0.00	0.5570	0.042	7.532	ug/L
⌈	Ba	135	33.367	0.00	0.0009	0.023	2465.314	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	900898.662	900898.66				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	67.334	-28.00	-0.0025	0.001	28.867	ug/L
|	Tl	205	176.671	-16.00	-0.0006	0.000	69.690	ug/L
|	Pb	206	76.675	26.67	0.0028	0.002	78.063	ug/L
|	Pb	207	73.341	36.67	0.0045	0.004	83.320	ug/L
|	Pb	208	309.353	134.01	0.0036	0.001	36.304	ug/L
⌊>	Bi	209	773479.328	773479.33				ug/L
⌈	Na	23	10008.828	0.01	0.0013	0.001	105.176	mg/L
|	Mg	24	2667.180	0.00	0.0005	0.000	34.371	mg/L
|	K	39	691605.597	-0.02	-0.0006	0.002	267.507	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	53849.707	0.03	0.0120	0.009	73.641	mg/L
|	Fe	57	5001.797	-0.01	-0.0057	0.002	39.761	mg/L

\> Sc	45	438751.210	438751.21		mg/L
Cl	35	40113.208	-598457.37		mg/L
Kr	83	147.003	-43.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		118.124			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.869			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		98.068			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		98.837			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		97.422			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		118.124			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 15:48:56

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)
QC Std 7	Sb	123	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 15:53:44
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17021.425	5345.11				ug/L
⌈	Be	9	14194.993	0.04	52.5035	1.905	3.629	ug/L
|	Al	27	323166.042	0.82	58.5887	3.639	6.212	ug/L
⌊>	Sc-1	45	388990.230	388990.23				ug/L
⌈	V	51	778249.371	0.73	57.7299	1.803	3.123	ug/L
|	Cr	52	665125.730	0.62	55.7584	0.793	1.422	ug/L
|	Cr	53	85181.441	0.05	45.8900	12.525	27.294	ug/L
|	Mn	55	1068790.364	1.01	53.9981	3.910	7.240	ug/L
|	Co	59	808693.946	0.77	50.2300	3.159	6.288	ug/L
|	Ni	60	177319.993	0.17	50.3996	3.057	6.065	ug/L
|	Cu	65	191697.063	0.18	49.9113	2.595	5.198	ug/L
|	Zn	66	139360.679	0.13	53.7957	7.653	14.225	ug/L
|>	Ge	72	1056541.619	1056541.62				ug/L
|	As	75	137765.873	0.13	47.7662	0.875	1.832	ug/L
|	Se	77	11622.115	0.01	46.9847	1.270	2.703	ug/L
⌊	Se	82	15005.123	0.01	48.7630	1.072	2.199	ug/L
	Y	89	813536.390	-25703.40				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	577565.224	0.64	48.3813	1.966	4.064	ug/L
|	Cd	114	349605.827	0.39	48.8643	0.753	1.540	ug/L
|>	In	115	900954.323	900954.32				ug/L
⌊	Sb	123	339062.997	0.38	47.9579	0.581	1.211	ug/L
⌈	Ba	135	117916.736	0.14	47.1921	2.987	6.330	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	848845.650	848845.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	536767.864	536672.53	48.3925	0.441	0.912	ug/L
|	Tl	205	1334001.443	1333808.77	51.7676	0.095	0.184	ug/L
|	Pb	206	495884.330	495834.32	52.5283	0.453	0.863	ug/L
|	Pb	207	373875.846	373839.18	46.1600	0.534	1.158	ug/L
|	Pb	208	1837961.187	1837785.84	49.5091	0.430	0.868	ug/L
⌊>	Bi	209	779683.022	779683.02				ug/L
⌈	Na	23	24103712.827	61.99	5.6153	0.108	1.927	mg/L
|	Mg	24	18268464.298	46.98	5.5346	0.243	4.398	mg/L
|	K	39	62560921.465	159.11	5.2926	0.203	3.843	mg/L
|	Ca	43	112894.529	0.29	5.4769	0.465	8.488	mg/L
|	Fe	54	4688826.619	11.97	4.7409	0.383	8.070	mg/L
|	Fe	57	2079170.692	5.33	4.6264	0.049	1.067	mg/L

> Sc	45	388990.230	388990.23		mg/L
Cl	35	38446.087	-600124.49		mg/L
Kr	83	145.670	-44.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	105.007				
	Al	27	117.177				
>	Sc-1	45		104.727			
	V	51	115.460				
	Cr	52	111.517				
	Cr	53	91.780				
	Mn	55	107.996				
	Co	59	100.460				
	Ni	60	100.799				
	Cu	65	99.823				
	Zn	66	107.591				
>	Ge	72		104.382			
	As	75	95.532				
	Se	77	93.969				
	Se	82	97.526				
	Y	89					
	Rh	103					
	Ag	107	96.763				
	Cd	114	97.729				
>	In	115		99.476			
	Sb	123	95.916				
	Ba	135	94.384				
	Ce	140					
>	Tb	159		93.127			
	Ho	165					
	Tl	203	96.785				
	Tl	205	103.535				
	Pb	206	105.057				
	Pb	207	92.320				
	Pb	208	99.018				
>	Bi	209		98.204			
	Na	23	112.307				
	Mg	24	110.691				
	K	39	105.851				
	Ca	43	109.537				
	Fe	54	94.817				
	Fe	57	92.528				
>	Sc	45		104.727			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 15:54:34

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 16:00:45
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.351	7349.04				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	3000.677	-0.00	-0.3290	0.190	57.601	ug/L
|>	Sc-1	45	376325.710	376325.71				ug/L
⌈	V	51	5256.359	0.00	0.1186	0.128	108.083	ug/L
|	Cr	52	13192.141	0.00	0.0986	0.162	164.768	ug/L
|	Cr	53	2000.327	-0.03	-22.7841	0.866	3.803	ug/L
|	Mn	55	233.572	-0.00	-0.0690	0.008	11.678	ug/L
|	Co	59	0.000	-0.00	-0.0065	0.000	0.000	ug/L
|	Ni	60	100.101	0.00	0.0189	0.001	2.847	ug/L
|	Cu	65	66.734	0.00	0.0085	0.030	358.782	ug/L
|	Zn	66	333.357	0.00	0.1324	0.229	173.205	ug/L
|>	Ge	72	1045467.783	1045467.78				ug/L
|	As	75	98.300	-0.00	-0.0304	0.015	50.448	ug/L
|	Se	77	152.002	-0.00	-1.8345	0.050	2.743	ug/L
⌊	Se	82	106.560	-0.00	-0.1158	0.040	34.479	ug/L
	Y	89	872519.059	33279.27				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.469	0.00	0.0085	0.013	151.652	ug/L
|	Cd	114	25.624	0.00	0.0007	0.000	51.600	ug/L
|>	In	115	890259.692	890259.69				ug/L
⌊	Sb	123	993.977	0.00	0.1392	0.004	2.696	ug/L
⌈	Ba	135	66.734	0.00	0.0143	0.023	161.570	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	824366.519	824366.52				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	27.667	-67.67	-0.0061	0.001	12.036	ug/L
|	Tl	205	57.667	-135.00	-0.0052	0.000	2.994	ug/L
|	Pb	206	46.671	-3.33	-0.0004	0.001	173.205	ug/L
|	Pb	207	33.337	-3.33	-0.0004	0.001	173.205	ug/L
|	Pb	208	154.343	-21.00	-0.0006	0.000	40.501	ug/L
|>	Bi	209	788255.913	788255.91				ug/L
⌈	Na	23	7670.892	0.01	0.0010	0.000	35.834	mg/L
|	Mg	24	333.357	-0.00	-0.0001	0.000	169.384	mg/L
|	K	39	670766.603	0.19	0.0062	0.002	29.017	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	42091.000	0.02	0.0076	0.010	132.979	mg/L
|	Fe	57	8672.130	0.01	0.0044	0.005	108.506	mg/L

> Sc	45	376325.710	376325.71		mg/L
Cl	35	33746.446	-604824.13		mg/L
Kr	83	143.670	-46.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		101.317			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.288			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		98.295			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		90.441			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		99.283			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		101.317			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 16:01:34

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0527307

Sample Date/Time: Thursday, May 24, 2001 16:17:35
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14015.559	2339.25				ug/L
⌈	Be	9	266.941	0.00	655.9369	565.775	86.254	ug/L
|	Al	27	52335239.151	108.50	7923128.6080	483816.063	6.106	ug/L
⌊>	Sc-1	45	483541.357	483541.36				ug/L
⌈	V	51	123040.111	0.11	8943.8750	760.748	8.506	ug/L
|	Cr	52	103345.878	0.08	7813.6729	366.532	4.691	ug/L
|	Cr	53	12344.099	-0.02	-14704.9005	1340.004	9.113	ug/L
|	Mn	55	6053578.204	5.65	307853.9619	9828.592	3.193	ug/L
|	Co	59	72269.335	0.07	4509.5898	229.295	5.085	ug/L
|	Ni	60	27815.760	0.03	7934.6372	927.120	11.684	ug/L
|	Cu	65	26676.565	0.02	6975.7292	541.161	7.758	ug/L
|	Zn	66	52191.812	0.05	20216.9307	2148.517	10.627	ug/L
| >	Ge	72	1071645.729	1071645.73				ug/L
|	As	75	3712.577	0.00	1230.5712	48.800	3.966	ug/L
|	Se	77	314.007	-0.00	-1194.3803	63.912	5.351	ug/L
⌊	Se	82	293.459	0.00	490.2379	85.642	17.469	ug/L
	Y	89	1310128.479	470888.69				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	1201.303	0.00	97.7737	8.024	8.207	ug/L
|	Cd	114	1317.146	0.00	181.1033	3.013	1.664	ug/L
| >	In	115	919609.381	919609.38				ug/L
⌊	Sb	123	271.058	0.00	35.1673	2.463	7.004	ug/L
⌈	Ba	135	229045.699	0.26	90652.0650	3461.879	3.819	ug/L
|	Ce	140	1289973.286	1.48				ug/L
⌊>	Tb	159	872568.672	872568.67				ug/L
⌈	Ho	165	14681.802	14681.80				ug/L
|	Tl	203	1940.283	1844.95	169.7567	2.893	1.704	ug/L
|	Tl	205	4652.895	4460.22	176.6426	3.709	2.100	ug/L
|	Pb	206	77384.640	77334.64	8359.9708	62.619	0.749	ug/L
|	Pb	207	61587.170	61550.50	7755.0793	26.366	0.340	ug/L
|	Pb	208	295825.947	295650.60	8127.2365	41.908	0.516	ug/L
⌊>	Bi	209	808457.403	808457.40				ug/L
⌈	Na	23	2633653.444	5.41	500.4740	48.881	9.767	mg/L
|	Mg	24	12109613.259	25.10	3017.2399	156.696	5.193	mg/L
|	K	39	37398041.614	75.85	2574.5462	88.423	3.434	mg/L
|	Ca	43	109838.685	0.23	4391.0067	168.538	3.838	mg/L
|	Fe	54	5763717.601	11.89	4806.2636	735.743	15.308	mg/L
|	Fe	57	2529719.226	5.20	4606.1134	353.272	7.670	mg/L

⌊> Sc	45	483541.357	483541.36		mg/L
Cl	35	48836.906	-589733.67		mg/L
Kr	83	195.338	5.00		mg/L
U	238	15350.059	15350.06		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		130.182			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.874			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.536			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.729			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		101.828			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		130.182			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0527307
Report Date/Time: Thursday, May 24, 2001 16:18:34

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: PBW 6L WG97853-03

Sample Date/Time: Thursday, May 24, 2001 16:29:22
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 11
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.632	7349.32				ug/L
⌈	Be	9	0.000	-0.00	-0.1621	0.000	0.000	ug/L
|	Al	27	1416770.604	2.87	256.3551	41.281	16.103	ug/L
|>	Sc-1	45	496078.098	496078.10				ug/L
⌈	V	51	4991.029	0.00	0.0971	0.095	97.974	ug/L
|	Cr	52	22223.621	0.01	0.9719	0.213	21.962	ug/L
|	Cr	53	3000.677	-0.03	-27.6101	0.991	3.591	ug/L
|	Mn	55	7378.001	0.01	0.3454	0.105	30.463	ug/L
|	Co	59	200.203	0.00	0.0068	0.007	110.053	ug/L
|	Ni	60	1201.305	0.00	0.3973	0.093	23.300	ug/L
|	Cu	65	3437.600	0.00	1.0620	0.079	7.453	ug/L
|	Zn	66	43468.678	0.04	20.0819	3.973	19.784	ug/L
|>	Ge	72	1101406.412	1101406.41				ug/L
|	As	75	105.660	-0.00	-0.0373	0.024	63.156	ug/L
|	Se	77	138.001	-0.00	-2.4050	0.070	2.891	ug/L
⌊	Se	82	121.829	-0.00	-0.1074	0.036	33.752	ug/L
	Y	89	884628.389	45388.60				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0035	0.000	0.000	ug/L
|	Cd	114	69.385	0.00	0.0079	0.001	10.004	ug/L
|>	In	115	950180.414	950180.41				ug/L
⌊	Sb	123	156.562	0.00	0.0224	0.002	10.548	ug/L
⌈	Ba	135	266.941	0.00	0.1126	0.103	91.257	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	888018.060	888018.06				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	37.667	-57.67	-0.0065	0.001	9.860	ug/L
|	Tl	205	82.001	-110.67	-0.0054	0.000	7.057	ug/L
|	Pb	206	736.779	686.77	0.0909	0.014	15.436	ug/L
|	Pb	207	623.423	586.75	0.0906	0.005	5.480	ug/L
|	Pb	208	2913.053	2737.71	0.0922	0.006	6.135	ug/L
|>	Bi	209	806884.834	806884.83				ug/L
⌈	Na	23	199431.100	0.40	0.0449	0.007	15.525	mg/L
|	Mg	24	30397.941	0.06	0.0088	0.001	10.683	mg/L
|	K	39	842360.882	0.11	0.0047	0.008	161.364	mg/L
|	Ca	43	666.760	0.00	0.0321	0.056	173.205	mg/L
|	Fe	54	99408.698	0.11	0.0532	0.004	8.062	mg/L
|	Fe	57	12344.287	0.01	0.0080	0.008	101.825	mg/L

> Sc	45	496078.098	496078.10		mg/L
Cl	35	39112.033	-599458.54		mg/L
Kr	83	159.337	-31.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		133.557			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		108.814			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		104.911			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		97.424			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		101.630			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		133.557			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6L WG97853-03
Report Date/Time: Thursday, May 24, 2001 16:30:10
Page 2

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Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: SPLP BLK 5-20

Sample Date/Time: Thursday, May 24, 2001 16:34:28
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12010.229	333.92				ug/L
⌈	Be	9	33.367	-0.00	-0.0103	0.263	2544.343	ug/L
|	Al	27	39442.040	0.08	7.0206	0.829	11.802	ug/L
⌊>	Sc-1	45	435617.784	435617.78				ug/L
⌈	V	51	5253.336	0.00	0.1276	0.189	147.709	ug/L
|	Cr	52	15699.679	0.00	0.3287	0.142	43.263	ug/L
|	Cr	53	1000.070	-0.03	-29.5748	0.004	0.015	ug/L
|	Mn	55	3704.700	0.00	0.1266	0.053	42.093	ug/L
|	Co	59	700.741	0.00	0.0448	0.026	58.177	ug/L
|	Ni	60	734.112	0.00	0.2411	0.130	54.024	ug/L
|	Cu	65	9382.220	0.01	2.9608	0.210	7.077	ug/L
|	Zn	66	8004.903	0.01	3.7536	1.402	37.352	ug/L
| >	Ge	72	1085299.062	1085299.06				ug/L
|	As	75	136.892	-0.00	-0.0235	0.026	111.933	ug/L
|	Se	77	150.002	-0.00	-2.3324	0.159	6.835	ug/L
⌊	Se	82	129.278	-0.00	-0.0707	0.038	53.869	ug/L
	Y	89	898265.331	59025.54				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	4906.621	0.01	0.4902	0.079	16.132	ug/L
|	Cd	114	30.595	0.00	0.0015	0.001	44.696	ug/L
| >	In	115	937265.349	937265.35				ug/L
⌊	Sb	123	130.943	0.00	0.0184	0.002	9.451	ug/L
⌈	Ba	135	100.101	0.00	0.0357	0.053	149.441	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	862581.699	862581.70				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	20.667	-74.67	-0.0084	0.000	3.370	ug/L
|	Tl	205	42.001	-150.67	-0.0073	0.000	5.786	ug/L
|	Pb	206	2257.251	2207.25	0.2923	0.026	9.000	ug/L
|	Pb	207	1777.066	1740.40	0.2686	0.010	3.827	ug/L
|	Pb	208	8743.252	8567.91	0.2885	0.015	5.026	ug/L
⌊>	Bi	209	794506.783	794506.78				ug/L
⌈	Na	23	46149.918	0.10	0.0111	0.002	21.292	mg/L
|	Mg	24	6002.568	0.01	0.0018	0.000	16.048	mg/L
|	K	39	705559.570	0.04	0.0015	0.008	539.869	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	87095.832	0.11	0.0532	0.010	19.682	mg/L
|	Fe	57	12011.071	0.01	0.0112	0.014	123.996	mg/L

> Sc	45	435617.784	435617.78		mg/L
Cl	35	45479.267	-593091.31		mg/L
Kr	83	140.003	-50.34		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		117.280			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.223			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		103.485			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.634			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		100.071			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		117.280			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: SPLP BLK 5-20
Report Date/Time: Thursday, May 24, 2001 16:35:17

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6L WG97853-04

Sample Date/Time: Thursday, May 24, 2001 16:39:35
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.502	4342.19				ug/L
⌈	Be	9	8079.322	0.02	128.5891	10.229	7.955	ug/L
|	Al	27	249294.891	0.54	192.7089	5.324	2.763	ug/L
\>	Sc-1	45	451882.505	451882.51				ug/L
⌈	V	51	398147.017	0.36	142.0516	2.077	1.462	ug/L
|	Cr	52	344449.180	0.30	137.0069	4.070	2.970	ug/L
|	Cr	53	38774.258	0.01	32.4362	30.099	92.793	ug/L
|	Mn	55	543404.261	0.50	132.4413	2.433	1.837	ug/L
|	Co	59	419198.004	0.38	125.8177	3.978	3.161	ug/L
|	Ni	60	88026.779	0.08	120.9264	3.734	3.087	ug/L
|	Cu	65	100163.596	0.09	126.0245	1.077	0.855	ug/L
|	Zn	66	56223.358	0.05	104.7603	14.721	14.052	ug/L
\>	Ge	72	1092569.751	1092569.75				ug/L
|	As	75	67383.755	0.06	112.7831	1.888	1.674	ug/L
|	Se	77	5396.705	0.00	98.6011	1.503	1.524	ug/L
⌊	Se	82	6899.754	0.01	107.1002	1.429	1.334	ug/L
	Y	89	922333.739	83093.95				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	309814.486	0.33	125.6184	3.177	2.529	ug/L
|	Cd	114	174666.131	0.19	118.1199	1.850	1.566	ug/L
\>	In	115	930945.761	930945.76				ug/L
⌊	Sb	123	168859.083	0.18	115.5623	1.685	1.458	ug/L
⌈	Ba	135	59169.672	0.06	108.7658	7.587	6.975	ug/L
|	Ce	140	0.000	0.00				ug/L
\>	Tb	159	923171.232	923171.23				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	273692.335	273597.00	123.3532	0.357	0.289	ug/L
|	Tl	205	683424.800	683232.13	132.5877	1.608	1.213	ug/L
|	Pb	206	254152.342	254102.34	134.5970	3.118	2.316	ug/L
|	Pb	207	192910.104	192873.43	119.0757	2.571	2.159	ug/L
|	Pb	208	941064.440	940889.10	126.7356	1.920	1.515	ug/L
\>	Bi	209	805628.726	805628.73				ug/L
⌈	Na	23	38101.397	0.08	0.0342	0.001	4.308	mg/L
|	Mg	24	3000.957	0.00	0.0027	0.003	114.895	mg/L
|	K	39	722230.435	0.00	0.0003	0.012	3652.965	mg/L
|	Ca	43	333.357	0.00	0.0715	0.124	173.205	mg/L
|	Fe	54	75449.233	0.07	0.1480	0.025	16.642	mg/L
|	Fe	57	12679.093	0.01	0.0440	0.050	113.617	mg/L

\> Sc	45	451882.505	451882.51		mg/L
Cl	35	30064.964	-608505.61		mg/L
Kr	83	151.670	-38.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		121.659			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		107.941			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.787			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		101.281			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		101.472			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		121.659			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6L WG97853-04
Report Date/Time: Thursday, May 24, 2001 16:40:24

Sc-1 45 Int Std for sanSc-1	45
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0543317 WG97853-02

Sample Date/Time: Thursday, May 24, 2001 16:44:42
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17020.395	5344.08				ug/L
⌈	Be	9	400.415	0.00	1.8675	1.480	79.224	ug/L
|	Al	27	213653223.501	323.29	57840.4545	2812.850	4.863	ug/L
|>	Sc-1	45	661291.909	661291.91				ug/L
⌈	V	51	1256620.201	1.30	254.9051	13.576	5.326	ug/L
|	Cr	52	581432.042	0.59	132.9748	5.208	3.917	ug/L
|	Cr	53	58573.701	0.03	70.5912	6.459	9.150	ug/L
|	Mn	55	2840137.401	2.94	392.0178	17.941	4.577	ug/L
|	Co	59	113916.908	0.12	19.3366	2.107	10.899	ug/L
|	Ni	60	90595.491	0.09	70.4166	7.187	10.206	ug/L
|	Cu	65	43307.584	0.04	30.7477	1.292	4.201	ug/L
|	Zn	66	205591.257	0.21	216.0282	4.912	2.274	ug/L
|>	Ge	72	968229.488	968229.49				ug/L
|	As	75	14433.947	0.01	13.5244	0.633	4.683	ug/L
|	Se	77	276.672	-0.00	-2.9915	0.557	18.615	ug/L
⌊	Se	82	208.781	0.00	0.6977	0.113	16.197	ug/L
	Y	89	1054746.347	215506.56				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	600.630	0.00	0.1284	0.065	50.718	ug/L
|	Cd	114	175.772	0.00	0.0597	0.008	13.297	ug/L
|>	In	115	829515.461	829515.46				ug/L
⌊	Sb	123	1109.130	0.00	0.4182	0.002	0.362	ug/L
⌈	Ba	135	114389.239	0.15	127.6864	8.901	6.971	ug/L
|	Ce	140	1374515.437	1.81				ug/L
⌊>	Tb	159	759751.631	759751.63				ug/L
⌈	Ho	165	14013.874	14013.87				ug/L
|	Tl	203	2592.830	2497.50	0.5630	0.016	2.921	ug/L
|	Tl	205	6411.274	6218.60	0.6034	0.014	2.266	ug/L
|	Pb	206	146985.529	146935.52	38.9156	1.054	2.708	ug/L
|	Pb	207	122033.561	121996.89	37.6591	1.566	4.158	ug/L
|	Pb	208	576369.848	576194.50	38.8060	0.915	2.357	ug/L
⌊>	Bi	209	698554.491	698554.49				ug/L
⌈	Na	23	119829886.626	181.65	41.1370	3.573	8.687	mg/L
|	Mg	24	31629500.598	47.93	14.1168	1.023	7.244	mg/L
|	K	39	114502645.929	171.66	14.2744	0.498	3.490	mg/L
|	Ca	43	236551.107	0.36	16.9896	2.575	15.158	mg/L
|	Fe	54	26132233.193	39.47	39.0765	1.591	4.071	mg/L
|	Fe	57	12700298.418	19.23	41.7567	3.405	8.154	mg/L

> Sc	45	661291.909	661291.91		mg/L
Cl	35	251007.803	-387562.77		mg/L
Kr	83	270.341	80.00		mg/L
U	238	23040.652	23040.65		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		178.037			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		95.657			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		91.588			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.352			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		87.985			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		178.037			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 WG97853-02
Report Date/Time: Thursday, May 24, 2001 16:45:31

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
V 51 Upper, S, EEE	V	51
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543317 DP WG97853-07

Sample Date/Time: Thursday, May 24, 2001 16:49:50
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	25713.161	14036.85				ug/L
⌈	Be	9	433.782	0.00	2.1068	1.335	63.365	ug/L
|	Al	27	182291282.437	276.71	49505.6919	4762.441	9.620	ug/L
\>	Sc-1	45	662553.310	662553.31				ug/L
⌈	V	51	1013413.040	1.07	211.5370	7.069	3.342	ug/L
|	Cr	52	467412.684	0.49	109.5898	4.112	3.752	ug/L
|	Cr	53	47155.282	0.02	48.3287	5.493	11.367	ug/L
|	Mn	55	2442158.609	2.60	347.0344	9.876	2.846	ug/L
|	Co	59	94347.961	0.10	16.4472	0.929	5.650	ug/L
|	Ni	60	78845.802	0.08	62.9375	3.198	5.081	ug/L
|	Cu	65	35926.070	0.04	26.2727	1.134	4.318	ug/L
|	Zn	66	190865.008	0.20	206.9910	22.256	10.752	ug/L
\>	Ge	72	939502.183	939502.18				ug/L
|	As	75	10410.006	0.01	9.9990	0.193	1.930	ug/L
|	Se	77	282.006	-0.00	-2.8395	0.473	16.642	ug/L
⌊	Se	82	193.621	0.00	0.6123	0.126	20.514	ug/L
	Y	89	1021182.861	181943.08				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	266.939	0.00	0.0558	0.013	23.382	ug/L
|	Cd	114	175.940	0.00	0.0619	0.010	16.373	ug/L
\>	In	115	801424.296	801424.30				ug/L
⌊	Sb	123	642.523	0.00	0.2477	0.018	7.215	ug/L
⌈	Ba	135	109135.862	0.15	129.7632	2.695	2.077	ug/L
|	Ce	140	1390465.461	1.95				ug/L
\>	Tb	159	711781.996	711782.00				ug/L
⌈	Ho	165	12678.204	12678.20				ug/L
|	Tl	203	2539.810	2444.48	0.5511	0.010	1.867	ug/L
|	Tl	205	6406.269	6213.60	0.6029	0.004	0.728	ug/L
|	Pb	206	134185.704	134135.70	35.5256	0.786	2.212	ug/L
|	Pb	207	112266.986	112230.32	34.6442	0.975	2.816	ug/L
|	Pb	208	529748.911	529573.57	35.6662	0.650	1.823	ug/L
\>	Bi	209	667419.593	667419.59				ug/L
⌈	Na	23	131881743.039	200.29	45.3587	4.822	10.630	mg/L
|	Mg	24	29039950.841	44.11	12.9913	1.531	11.787	mg/L
|	K	39	104114301.036	156.99	13.0550	1.797	13.761	mg/L
|	Ca	43	271450.054	0.41	19.4550	2.558	13.148	mg/L
|	Fe	54	23014643.129	34.98	34.6358	4.988	14.402	mg/L
|	Fe	57	10421704.605	15.91	34.5410	6.353	18.392	mg/L

> Sc	45	662553.310	662553.31		mg/L
Cl	35	319332.298	-319238.28		mg/L
Kr	83	249.007	58.67		mg/L
U	238	24711.271	24711.27		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		178.377			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		92.819			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		88.487			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		78.089			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		84.064			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		178.377			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 DP WG97853-07
Report Date/Time: Thursday, May 24, 2001 16:50:39

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543318 WG97853-01

Sample Date/Time: Thursday, May 24, 2001 16:54:57
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27054.928	15378.62				ug/L
⌈	Be	9	200.204	0.00	1.0517	1.192	113.302	ug/L
|	Al	27	71936452.317	134.31	24029.5199	1156.149	4.811	ug/L
|>	Sc-1	45	536070.450	536070.45				ug/L
⌈	V	51	419972.842	0.44	86.3460	2.196	2.543	ug/L
|	Cr	52	188816.427	0.19	42.2409	0.883	2.091	ug/L
|	Cr	53	24709.910	-0.00	-4.3940	8.401	191.189	ug/L
|	Mn	55	1047435.773	1.10	147.0864	1.662	1.130	ug/L
|	Co	59	43609.628	0.05	7.5148	0.239	3.179	ug/L
|	Ni	60	29054.687	0.03	22.9429	0.878	3.827	ug/L
|	Cu	65	13760.332	0.01	9.9420	0.404	4.067	ug/L
|	Zn	66	68662.965	0.07	73.6301	5.868	7.969	ug/L
|>	Ge	72	949640.471	949640.47				ug/L
|	As	75	4716.137	0.00	4.3906	0.091	2.071	ug/L
|	Se	77	233.337	-0.00	-3.4568	0.180	5.211	ug/L
⌊	Se	82	167.968	0.00	0.3592	0.084	23.316	ug/L
	Y	89	834452.470	-4787.32				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	300.312	0.00	0.0630	0.080	127.612	ug/L
|	Cd	114	93.855	0.00	0.0295	0.003	8.886	ug/L
|>	In	115	806044.454	806044.45				ug/L
⌊	Sb	123	900.655	0.00	0.3481	0.021	5.900	ug/L
⌈	Ba	135	46530.879	0.06	51.4528	3.493	6.789	ug/L
|	Ce	140	514203.192	0.67				ug/L
|>	Tb	159	766398.954	766398.95				ug/L
⌈	Ho	165	5002.078	5002.08				ug/L
|	Tl	203	927.403	832.07	0.1876	0.005	2.551	ug/L
|	Tl	205	2420.768	2228.10	0.2162	0.008	3.618	ug/L
|	Pb	206	52047.617	51997.61	13.7715	0.492	3.575	ug/L
|	Pb	207	43778.117	43741.45	13.5025	0.108	0.797	ug/L
|	Pb	208	206022.372	205847.03	13.8636	0.167	1.207	ug/L
|>	Bi	209	662385.293	662385.29				ug/L
⌈	Na	23	162527892.205	303.27	68.6786	2.513	3.659	mg/L
|	Mg	24	11430434.472	21.33	6.2830	0.366	5.822	mg/L
|	K	39	41322527.462	75.54	6.2815	0.232	3.697	mg/L
|	Ca	43	78095.982	0.15	6.9100	1.075	15.550	mg/L
|	Fe	54	9825040.930	18.24	18.0613	0.309	1.712	mg/L
|	Fe	57	4158341.384	7.75	16.8286	1.074	6.385	mg/L

>	Sc	45	536070.450	536070.45	mg/L
	Cl	35	304354.529	-334216.05	mg/L
	Kr	83	175.671	-14.67	mg/L
	U	238	6002.848	6002.85	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		144.324			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		93.821			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		88.997			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		84.081			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		83.430			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		144.324			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 WG97853-01
Report Date/Time: Thursday, May 24, 2001 16:55:46

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543318 S WG97853-05

Sample Date/Time: Thursday, May 24, 2001 17:00:05
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22704.205	11027.89				ug/L
⌈	Be	9	18509.163	0.03	117.0572	13.231	11.303	ug/L
|	Al	27	94673859.588	166.14	29724.0076	2583.812	8.693	ug/L
|>	Sc-1	45	571732.617	571732.62				ug/L
⌈	V	51	1247944.819	1.32	259.9707	4.598	1.769	ug/L
|	Cr	52	880662.874	0.92	208.1950	5.930	2.848	ug/L
|	Cr	53	111197.137	0.09	196.1298	23.391	11.926	ug/L
|	Mn	55	2184829.541	2.32	309.4416	6.844	2.212	ug/L
|	Co	59	849453.504	0.90	147.8395	2.107	1.426	ug/L
|	Ni	60	188202.459	0.20	149.9520	7.300	4.868	ug/L
|	Cu	65	187450.260	0.20	136.7925	7.450	5.446	ug/L
|	Zn	66	194276.000	0.21	209.9126	8.199	3.906	ug/L
|>	Ge	72	942170.575	942170.57				ug/L
|	As	75	112827.873	0.12	109.6478	1.311	1.196	ug/L
|	Se	77	7744.863	0.01	86.1881	1.456	1.689	ug/L
⌊	Se	82	9830.023	0.01	89.2302	1.308	1.466	ug/L
	Y	89	825434.815	-13804.97				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	518677.957	0.65	122.3007	2.766	2.261	ug/L
|	Cd	114	294756.927	0.37	115.9283	1.266	1.092	ug/L
|>	In	115	800368.974	800368.97				ug/L
⌊	Sb	123	135019.272	0.17	53.7342	0.350	0.651	ug/L
⌈	Ba	135	157677.716	0.22	182.2340	15.567	8.542	ug/L
|	Ce	140	529956.754	0.72				ug/L
|>	Tb	159	736299.350	736299.35				ug/L
⌈	Ho	165	5002.311	5002.31				ug/L
|	Tl	203	462579.134	462483.80	104.2571	0.520	0.499	ug/L
|	Tl	205	1166028.181	1165835.51	113.1207	0.254	0.224	ug/L
|	Pb	206	492565.730	492515.73	130.4418	2.595	1.989	ug/L
|	Pb	207	377058.196	377021.53	116.3823	2.074	1.782	ug/L
|	Pb	208	1838551.235	1838375.89	123.8125	1.274	1.029	ug/L
|>	Bi	209	651321.863	651321.86				ug/L
⌈	Na	23	180433507.448	316.83	71.7497	6.378	8.889	mg/L
|	Mg	24	13271442.502	23.29	6.8582	0.482	7.024	mg/L
|	K	39	49864055.485	85.80	7.1345	0.323	4.523	mg/L
|	Ca	43	82811.849	0.15	6.8920	0.932	13.523	mg/L
|	Fe	54	12490041.384	21.84	21.6239	2.041	9.439	mg/L
|	Fe	57	5221931.365	9.16	19.8796	1.934	9.730	mg/L

L> Sc	45	571732.617	571732.62		mg/L
Cl	35	268293.530	-370277.04		mg/L
Kr	83	180.004	-10.33		mg/L
U	238	6669.842	6669.84		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		153.926			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		93.083			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		88.370			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		80.779			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		82.036			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		153.926			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 S WG97853-05
Report Date/Time: Thursday, May 24, 2001 17:00:55
Page 2

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Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
V 51 Upper, S, EEE V	51
Mn 55 Upper, S, EEE Mn	55
Na 23 Upper, S, EEE Na	23
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0543318 SD WG97853-06

Sample Date/Time: Thursday, May 24, 2001 17:05:14
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21702.969	10026.66				ug/L
⌈	Be	9	17605.926	0.03	121.5025	6.569	5.406	ug/L
|	Al	27	89185519.902	171.24	30636.0339	3123.204	10.195	ug/L
⌊>	Sc-1	45	522465.247	522465.25				ug/L
⌈	V	51	1283283.398	1.37	269.4901	5.734	2.128	ug/L
|	Cr	52	872443.233	0.92	207.8398	6.003	2.888	ug/L
|	Cr	53	106150.397	0.09	185.9340	61.117	32.871	ug/L
|	Mn	55	2084012.947	2.23	297.5267	16.425	5.520	ug/L
|	Co	59	847432.034	0.91	148.6785	4.538	3.052	ug/L
|	Ni	60	185973.604	0.20	149.3135	1.722	1.153	ug/L
|	Cu	65	188680.399	0.20	138.7388	3.020	2.177	ug/L
|	Zn	66	173779.917	0.19	189.0995	23.726	12.547	ug/L
|>	Ge	72	934864.227	934864.23				ug/L
|	As	75	109298.070	0.12	107.0497	2.033	1.899	ug/L
|	Se	77	7486.589	0.01	83.7960	0.733	0.875	ug/L
⌊	Se	82	9626.328	0.01	88.0571	1.080	1.227	ug/L
	Y	89	861910.490	22670.70				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	515435.087	0.65	123.1614	5.929	4.814	ug/L
|	Cd	114	292840.111	0.37	116.6949	0.721	0.617	ug/L
|>	In	115	789930.559	789930.56				ug/L
⌊	Sb	123	138603.706	0.18	55.8992	1.264	2.261	ug/L
⌈	Ba	135	161467.766	0.23	195.1527	24.729	12.672	ug/L
|	Ce	140	504195.842	0.72				ug/L
⌊>	Tb	159	705378.867	705378.87				ug/L
⌈	Ho	165	3667.904	3667.90				ug/L
|	Tl	203	455145.510	455050.18	102.5813	0.426	0.416	ug/L
|	Tl	205	1156672.784	1156480.11	112.2130	1.467	1.307	ug/L
|	Pb	206	490991.970	490941.96	130.0250	2.390	1.838	ug/L
|	Pb	207	373019.037	372982.37	115.1354	1.064	0.924	ug/L
|	Pb	208	1818762.333	1818586.99	122.4798	1.403	1.145	ug/L
⌊>	Bi	209	642715.697	642715.70				ug/L
⌈	Na	23	175268426.128	335.45	75.9666	3.944	5.191	mg/L
|	Mg	24	12950638.905	24.83	7.3124	0.369	5.048	mg/L
|	K	39	45708717.528	86.30	7.1762	1.165	16.233	mg/L
|	Ca	43	84838.240	0.16	7.6985	1.020	13.246	mg/L
|	Fe	54	11202544.118	21.47	21.2560	3.700	17.406	mg/L
|	Fe	57	4708601.478	8.99	19.5219	0.291	1.489	mg/L

\> Sc	45	522465.247	522465.25		mg/L
Cl	35	250680.567	-387890.01		mg/L
Kr	83	177.004	-13.33		mg/L
U	238	8672.037	8672.04		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		140.662			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		92.361			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		87.217			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		77.387			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		80.952			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		140.662			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 SD WG97853-06
Report Date/Time: Thursday, May 24, 2001 17:06:03

Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
V 51 Upper, S, EEE V	51
Mn 55 Upper, S, EEE Mn	55
Na 23 Upper, S, EEE Na	23
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0543318 PS

Sample Date/Time: Thursday, May 24, 2001 17:10:23
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23710.506	12034.19				ug/L
⌈	Be	9	19245.181	0.04	139.7562	6.198	4.435	ug/L
|	Al	27	67624185.420	136.54	24429.3863	978.463	4.005	ug/L
L>	Sc-1	45	495629.596	495629.60				ug/L
⌈	V	51	1247693.095	1.34	263.1353	6.520	2.478	ug/L
|	Cr	52	886491.685	0.94	212.1665	7.327	3.453	ug/L
|	Cr	53	100724.822	0.08	174.4887	45.889	26.299	ug/L
|	Mn	55	1983901.365	2.13	284.3945	9.370	3.295	ug/L
|	Co	59	905545.376	0.97	159.5435	2.150	1.348	ug/L
|	Ni	60	207647.397	0.22	167.4661	4.259	2.543	ug/L
|	Cu	65	209542.271	0.23	154.7845	8.912	5.757	ug/L
|	Zn	66	179904.865	0.19	196.7768	3.228	1.640	ug/L
| >	Ge	72	930683.966	930683.97				ug/L
|	As	75	124428.142	0.13	122.4329	1.110	0.907	ug/L
|	Se	77	9143.182	0.01	104.2202	1.667	1.599	ug/L
L	Se	82	11550.028	0.01	106.3675	1.126	1.058	ug/L
	Y	89	825450.661	-13789.13				ug/L
⌈	Rh	103	166.836	0.00				ug/L
|	Ag	107	503606.733	0.63	118.8054	2.934	2.469	ug/L
|	Cd	114	319098.726	0.40	125.5771	2.850	2.269	ug/L
| >	In	115	800095.808	800095.81				ug/L
L	Sb	123	323854.864	0.40	128.9863	3.901	3.025	ug/L
⌈	Ba	135	145240.448	0.21	174.7210	5.625	3.219	ug/L
|	Ce	140	442306.745	0.63				ug/L
L>	Tb	159	704141.447	704141.45				ug/L
⌈	Ho	165	3667.810	3667.81				ug/L
|	Tl	203	502172.843	502077.51	113.1826	0.111	0.098	ug/L
|	Tl	205	1255045.755	1254853.08	121.7581	1.120	0.920	ug/L
|	Pb	206	502197.121	502147.12	132.9927	1.058	0.795	ug/L
|	Pb	207	400497.858	400461.19	123.6178	1.079	0.873	ug/L
|	Pb	208	1916574.638	1916399.29	129.0673	0.582	0.451	ug/L
L>	Bi	209	652174.957	652174.96				ug/L
⌈	Na	23	152197729.565	307.30	69.5917	2.896	4.161	mg/L
|	Mg	24	10820618.626	21.88	6.4429	0.616	9.560	mg/L
|	K	39	38090597.940	75.38	6.2682	0.574	9.161	mg/L
|	Ca	43	64964.524	0.13	6.1946	0.795	12.838	mg/L
|	Fe	54	9168520.483	18.44	18.2594	1.683	9.215	mg/L
|	Fe	57	3593309.206	7.23	15.6983	1.331	8.481	mg/L

\> Sc	45	495629.596	495629.60		mg/L
Cl	35	287373.955	-351196.62		mg/L
Kr	83	167.670	-22.67		mg/L
U	238	9006.656	9006.66		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		133.437			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		91.948			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		88.340			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		77.251			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		82.144			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		133.437			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 PS
Report Date/Time: Thursday, May 24, 2001 17:11:12

Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
V 51 Upper, S, EEE V	51
Mn 55 Upper, S, EEE Mn	55
Na 23 Upper, S, EEE Na	23
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 17:15:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17688.744	6012.43				ug/L
⌈	Be	9	17505.780	0.04	54.8410	8.351	15.228	ug/L
|	Al	27	357415.525	0.76	54.5323	1.151	2.111	ug/L
|>	Sc-1	45	461859.909	461859.91				ug/L
⌈	V	51	805968.046	0.81	63.5155	1.241	1.955	ug/L
|	Cr	52	664513.813	0.66	59.2419	0.817	1.379	ug/L
|	Cr	53	77764.557	0.05	43.6763	12.534	28.698	ug/L
|	Mn	55	1050013.067	1.05	56.3354	2.172	3.856	ug/L
|	Co	59	826003.720	0.83	54.5041	2.651	4.865	ug/L
|	Ni	60	173217.598	0.17	52.2831	2.643	5.056	ug/L
|	Cu	65	194541.604	0.20	53.8282	2.999	5.572	ug/L
|	Zn	66	143428.729	0.14	58.7168	2.708	4.611	ug/L
|>	Ge	72	994395.420	994395.42				ug/L
|	As	75	128473.972	0.13	47.3359	1.437	3.036	ug/L
|	Se	77	10824.864	0.01	46.4707	1.352	2.908	ug/L
⌊	Se	82	13692.094	0.01	47.2610	0.680	1.439	ug/L
	Y	89	776399.040	-62840.75				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	551432.661	0.67	50.5534	0.882	1.744	ug/L
|	Cd	114	323239.357	0.39	49.4383	0.983	1.988	ug/L
|>	In	115	823406.762	823406.76				ug/L
⌊	Sb	123	310305.119	0.38	48.0269	0.738	1.536	ug/L
⌈	Ba	135	102735.643	0.12	41.8557	0.948	2.266	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	831032.280	831032.28				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	483856.105	483760.77	43.6214	0.468	1.072	ug/L
|	Tl	205	1211361.389	1211168.72	47.0077	0.607	1.292	ug/L
|	Pb	206	443710.126	443660.12	47.0010	1.036	2.205	ug/L
|	Pb	207	344555.768	344519.10	42.5397	0.551	1.295	ug/L
|	Pb	208	1661437.583	1661262.24	44.7536	0.610	1.362	ug/L
|>	Bi	209	705296.672	705296.67				ug/L
⌈	Na	23	28924455.392	63.22	5.7272	1.003	17.509	mg/L
|	Mg	24	23106529.357	50.47	5.9454	1.000	16.826	mg/L
|	K	39	70640745.270	151.72	5.0466	0.533	10.571	mg/L
|	Ca	43	124751.552	0.27	5.1542	0.820	15.907	mg/L
|	Fe	54	4724027.751	10.17	4.0281	0.255	6.330	mg/L
|	Fe	57	2057012.567	4.44	3.8569	0.103	2.675	mg/L

⌊> Sc	45	461859.909	461859.91		mg/L
Cl	35	22702.891	-615867.68		mg/L
Kr	83	151.003	-39.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9	109.682				
| Al	27	109.065				
⌊> Sc-1	45		124.345			
⌈ V	51	127.031				
| Cr	52	118.484				
| Cr	53	87.353				
| Mn	55	112.671				
| Co	59	109.008				
| Ni	60	104.566				
| Cu	65	107.656				
| Zn	66	117.434				
|> Ge	72		98.242			
| As	75	94.672				
| Se	77	92.941				
⌊ Se	82	94.522				
Y	89					
⌈ Rh	103					
| Ag	107	101.107				
| Cd	114	98.877				
|> In	115		90.914			
⌊ Sb	123	96.054				
⌈ Ba	135	83.711				
| Ce	140					
⌊> Tb	159		91.172			
⌈ Ho	165					
| Tl	203	87.243				
| Tl	205	94.015				
| Pb	206	94.002				
| Pb	207	85.079				
| Pb	208	89.507				
⌊> Bi	209		88.834			
⌈ Na	23	114.543				
| Mg	24	118.909				
| K	39	100.931				
| Ca	43	103.084				
| Fe	54	80.562				
| Fe	57	77.137				
⌊> Sc	45		124.345			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 17:16:21

Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Mn	55	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
QC Std 6	Tl	203	CCV is out of limits (+/-10%)
QC Std 6	Pb	207	CCV is out of limits (+/-10%)
QC Std 6	Pb	208	CCV is out of limits (+/-10%)
Sc 45 Int Std for QC	SSc	45	

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 17:20:39
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.356	8018.04				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	6336.345	0.00	0.1123	0.350	311.886	ug/L
⌊>	Sc-1	45	449859.938	449859.94				ug/L
⌈	V	51	3792.654	0.00	0.0296	0.017	55.890	ug/L
|	Cr	52	12356.566	0.00	0.1119	0.214	191.238	ug/L
|	Cr	53	2667.227	-0.03	-22.0491	1.089	4.939	ug/L
|	Mn	55	500.521	-0.00	-0.0535	0.014	26.466	ug/L
|	Co	59	66.734	-0.00	-0.0020	0.004	200.893	ug/L
|	Ni	60	0.000	-0.00	-0.0099	0.000	0.000	ug/L
|	Cu	65	66.734	0.00	0.0098	0.033	333.237	ug/L
|	Zn	66	666.713	0.00	0.2779	0.241	86.606	ug/L
|>	Ge	72	968096.389	968096.39				ug/L
|	As	75	141.295	-0.00	-0.0115	0.008	67.396	ug/L
|	Se	77	135.335	-0.00	-1.8596	0.053	2.838	ug/L
⌊	Se	82	107.720	-0.00	-0.0836	0.031	36.849	ug/L
	Y	89	783109.650	-56130.14				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	19.508	0.00	0.0002	0.001	575.688	ug/L
|>	In	115	809830.224	809830.22				ug/L
⌊	Sb	123	963.221	0.00	0.1484	0.007	4.461	ug/L
⌈	Ba	135	33.367	0.00	0.0026	0.026	1001.007	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	742507.072	742507.07				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	23.000	-72.33	-0.0065	0.000	3.658	ug/L
|	Tl	205	52.001	-140.67	-0.0055	0.000	8.907	ug/L
|	Pb	206	46.672	-3.33	-0.0004	0.003	866.035	ug/L
|	Pb	207	46.671	10.00	0.0012	0.002	152.753	ug/L
|	Pb	208	182.011	6.67	0.0002	0.000	117.162	ug/L
⌊>	Bi	209	684077.357	684077.36				ug/L
⌈	Na	23	7338.284	0.01	0.0007	0.001	150.750	mg/L
|	Mg	24	0.000	-0.00	-0.0002			mg/L
|	K	39	599478.844	-0.25	-0.0084	0.005	55.846	mg/L
|	Ca	43	333.357	0.00	0.0152	0.026	173.205	mg/L
|	Fe	54	46473.017	0.01	0.0043	0.005	118.071	mg/L
|	Fe	57	8338.961	0.00	0.0002	0.006	4024.905	mg/L

\>	Sc	45	449859.938	449859.94		mg/L
	Cl	35	20029.774	-618540.80		mg/L
	Kr	83	149.670	-40.67		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		121.114			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		95.644			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		89.415			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		81.460			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		86.162			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		121.114			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 17:21:28

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)
Sc 45 Int Std for QC S	Sc	45	

Method 6020 - Summary Report

Sample ID: 0543318 SDL

Sample Date/Time: Thursday, May 24, 2001 17:25:47
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22703.454	11027.14				ug/L
⌈	Be	9	33.367	-0.00	-0.2262	2.416	1068.206	ug/L
|	Al	27	15699346.670	36.16	32343.1478	1838.802	5.685	ug/L
⌊>	Sc-1	45	434867.140	434867.14				ug/L
⌈	V	51	88820.763	0.09	87.6559	9.753	11.126	ug/L
|	Cr	52	49957.785	0.04	45.7407	5.604	12.251	ug/L
|	Cr	53	6002.848	-0.02	-237.2664	31.208	13.153	ug/L
|	Mn	55	231005.830	0.24	159.7767	9.193	5.754	ug/L
|	Co	59	9682.904	0.01	8.1945	0.384	4.686	ug/L
|	Ni	60	7144.050	0.01	27.8342	2.038	7.320	ug/L
|	Cu	65	3270.686	0.00	11.6089	0.791	6.815	ug/L
|	Zn	66	22703.360	0.02	120.2124	18.470	15.364	ug/L
| >	Ge	72	960160.233	960160.23				ug/L
|	As	75	1258.811	0.00	5.2000	0.449	8.628	ug/L
|	Se	77	146.002	-0.00	-22.5503	0.994	4.410	ug/L
⌊	Se	82	132.814	0.00	0.1236	0.179	144.474	ug/L
	Y	89	732095.453	-107144.33				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0445	0.069	154.321	ug/L
|	Cd	114	38.521	0.00	0.0394	0.011	28.821	ug/L
| >	In	115	804491.714	804491.71				ug/L
⌊	Sb	123	496.696	0.00	0.9454	0.080	8.473	ug/L
⌈	Ba	135	9148.381	0.01	49.5729	3.705	7.474	ug/L
|	Ce	140	106793.879	0.14				ug/L
⌊>	Tb	159	777131.830	777131.83				ug/L
⌈	Ho	165	1333.520	1333.52				ug/L
|	Tl	203	238.006	142.67	0.1608	0.021	13.318	ug/L
|	Tl	205	541.359	348.69	0.1692	0.009	5.260	ug/L
|	Pb	206	11607.251	11557.25	15.3046	0.183	1.196	ug/L
|	Pb	207	9487.255	9450.58	14.5864	0.719	4.928	ug/L
|	Pb	208	45284.310	45108.97	15.1902	0.094	0.619	ug/L
⌊>	Bi	209	688537.182	688537.18				ug/L
⌈	Na	23	34089536.712	78.47	88.8572	3.116	3.507	mg/L
|	Mg	24	2525967.062	5.83	8.5798	0.847	9.869	mg/L
|	K	39	9273762.055	19.76	8.2157	0.435	5.292	mg/L
|	Ca	43	17354.406	0.04	9.4415	0.227	2.407	mg/L
|	Fe	54	2215173.067	5.01	24.8142	3.667	14.779	mg/L
|	Fe	57	905739.356	2.07	22.4724	1.860	8.279	mg/L

> Sc	45	434867.140	434867.14		mg/L
Cl	35	76406.672	-562163.90		mg/L
Kr	83	140.669	-49.67		mg/L
U	238	3000.677	3000.68		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		117.078			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		94.860			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		88.825			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		85.259			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		86.724			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		117.078			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 SDL
Report Date/Time: Thursday, May 24, 2001 17:26:37

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0543304

Sample Date/Time: Thursday, May 24, 2001 17:30:56
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24376.087	12699.78				ug/L
⌈	Be	9	166.836	0.00	0.8746	0.391	44.662	ug/L
|	Al	27	57823578.838	115.98	20749.7800	1467.220	7.071	ug/L
|>	Sc-1	45	499198.552	499198.55				ug/L
⌈	V	51	342129.771	0.34	66.9246	2.043	3.053	ug/L
|	Cr	52	133501.773	0.12	27.6338	0.720	2.606	ug/L
|	Cr	53	14014.342	-0.01	-30.4168	8.261	27.161	ug/L
|	Mn	55	1733021.648	1.74	232.2307	7.775	3.348	ug/L
|	Co	59	48042.359	0.05	7.8978	0.356	4.510	ug/L
|	Ni	60	34014.873	0.03	25.6315	1.748	6.820	ug/L
|	Cu	65	70887.270	0.07	48.9328	1.538	3.144	ug/L
|	Zn	66	82811.659	0.08	84.6837	5.560	6.566	ug/L
|>	Ge	72	995944.371	995944.37				ug/L
|	As	75	4899.309	0.00	4.3468	0.126	2.903	ug/L
|	Se	77	270.672	-0.00	-3.1585	0.521	16.491	ug/L
⌊	Se	82	198.694	0.00	0.5549	0.148	26.618	ug/L
	Y	89	970677.501	131437.71				ug/L
⌈	Rh	103	166.837	0.00				ug/L
|	Ag	107	1134.560	0.00	0.2462	0.051	20.534	ug/L
|	Cd	114	434.702	0.00	0.1542	0.012	7.478	ug/L
|>	In	115	847655.957	847655.96				ug/L
⌊	Sb	123	34399.599	0.04	12.9205	0.027	0.208	ug/L
⌈	Ba	135	154132.629	0.20	171.2782	5.299	3.094	ug/L
|	Ce	140	642225.062	0.84				ug/L
|>	Tb	159	761552.316	761552.32				ug/L
⌈	Ho	165	10674.840	10674.84				ug/L
|	Tl	203	890.398	795.06	0.1792	0.004	2.324	ug/L
|	Tl	205	2206.029	2013.36	0.1954	0.005	2.768	ug/L
|	Pb	206	2210175.428	2210125.42	585.3474	4.214	0.720	ug/L
|	Pb	207	1911279.105	1911242.43	589.9790	5.239	0.888	ug/L
|	Pb	208	8797866.816	8797691.47	592.5144	7.407	1.250	ug/L
|>	Bi	209	701223.989	701223.99				ug/L
⌈	Na	23	211768334.123	424.40	96.1103	7.286	7.581	mg/L
|	Mg	24	12254119.384	24.54	7.2266	0.167	2.312	mg/L
|	K	39	22872394.085	44.27	3.6812	0.335	9.095	mg/L
|	Ca	43	693811.462	1.39	65.7898	3.409	5.182	mg/L
|	Fe	54	5351215.259	10.64	10.5327	0.578	5.491	mg/L
|	Fe	57	2359840.270	4.71	10.2307	0.304	2.973	mg/L

>	Sc	45	499198.552	499198.55	mg/L
	Cl	35	200449.690	-436120.88	mg/L
	Kr	83	204.338	14.00	mg/L
	U	238	19693.794	19693.79	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		134.398			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		98.395			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		93.591			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		83.550			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		88.322			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		134.398			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543304
Report Date/Time: Thursday, May 24, 2001 17:31:46

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543305

Sample Date/Time: Thursday, May 24, 2001 17:36:06
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26718.148	15041.84				ug/L
⌈	Be	9	233.573	0.00	1.1993	1.333	111.138	ug/L
|	Al	27	48414996.518	92.09	16475.9196	1288.054	7.818	ug/L
\>	Sc-1	45	527568.467	527568.47				ug/L
⌈	V	51	380057.211	0.37	73.3379	2.242	3.057	ug/L
|	Cr	52	106731.385	0.09	21.2296	0.999	4.707	ug/L
|	Cr	53	12010.229	-0.02	-35.2283	3.817	10.836	ug/L
|	Mn	55	1269830.903	1.26	167.6972	7.209	4.299	ug/L
|	Co	59	30160.419	0.03	4.8792	0.219	4.492	ug/L
|	Ni	60	21621.031	0.02	16.0475	1.225	7.633	ug/L
|	Cu	65	17639.400	0.02	11.9860	0.599	4.996	ug/L
|	Zn	66	42797.509	0.04	43.0939	7.841	18.194	ug/L
\>	Ge	72	1010169.124	1010169.12				ug/L
|	As	75	5386.718	0.01	4.7258	0.366	7.742	ug/L
|	Se	77	249.338	-0.00	-3.4458	0.297	8.610	ug/L
⌊	Se	82	195.230	0.00	0.5005	0.085	16.971	ug/L
	Y	89	953372.426	114132.64				ug/L
⌈	Rh	103	100.102	0.00				ug/L
|	Ag	107	367.044	0.00	0.0742	0.033	43.805	ug/L
|	Cd	114	377.699	0.00	0.1332	0.016	12.174	ug/L
\>	In	115	848458.099	848458.10				ug/L
⌊	Sb	123	5042.384	0.01	1.8859	0.045	2.376	ug/L
⌈	Ba	135	144966.814	0.18	153.6482	5.090	3.313	ug/L
|	Ce	140	379175.256	0.47				ug/L
\>	Tb	159	799025.461	799025.46				ug/L
⌈	Ho	165	6669.842	6669.84				ug/L
|	Tl	203	709.376	614.04	0.1384	0.003	1.874	ug/L
|	Tl	205	1766.903	1574.23	0.1527	0.003	1.913	ug/L
|	Pb	206	248971.630	248921.63	65.9264	1.951	2.960	ug/L
|	Pb	207	214749.550	214712.88	66.2794	1.679	2.533	ug/L
|	Pb	208	999652.762	999477.42	67.3137	0.527	0.783	ug/L
\>	Bi	209	709485.235	709485.23				ug/L
⌈	Na	23	191968855.729	365.15	82.6930	5.770	6.978	mg/L
|	Mg	24	8551872.466	16.26	4.7905	0.314	6.558	mg/L
|	K	39	17671007.510	32.17	2.6751	0.355	13.268	mg/L
|	Ca	43	458603.618	0.88	41.4256	4.963	11.980	mg/L
|	Fe	54	4328120.556	8.15	8.0648	0.620	7.686	mg/L
|	Fe	57	1895445.132	3.59	7.8047	0.680	8.710	mg/L

>	Sc	45	527568.467	527568.47	mg/L
	Cl	35	171043.359	-467527.22	mg/L
	Kr	83	174.337	-16.00	mg/L
	U	238	8004.810	8004.81	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		142.036			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		99.801			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		93.680			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		87.661			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		89.362			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		142.036			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543305
Report Date/Time: Thursday, May 24, 2001 17:36:56

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543306

Sample Date/Time: Thursday, May 24, 2001 17:41:15
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21700.156	10023.84				ug/L
⌈	Be	9	33.367	-0.00	-0.0988	0.390	395.111	ug/L
|	Al	27	32342001.723	63.11	11290.5642	280.266	2.482	ug/L
|>	Sc-1	45	512803.668	512803.67				ug/L
⌈	V	51	302205.802	0.29	57.2548	1.769	3.091	ug/L
|	Cr	52	85528.854	0.07	16.1839	1.043	6.442	ug/L
|	Cr	53	11342.394	-0.02	-37.0383	2.751	7.426	ug/L
|	Mn	55	844135.819	0.82	109.6577	3.062	2.793	ug/L
|	Co	59	19847.492	0.02	3.1533	0.231	7.312	ug/L
|	Ni	60	13426.033	0.01	9.7970	0.427	4.359	ug/L
|	Cu	65	12924.697	0.01	8.6343	0.958	11.094	ug/L
|	Zn	66	24376.368	0.02	24.1797	5.683	23.501	ug/L
|>	Ge	72	1026284.949	1026284.95				ug/L
|	As	75	4696.738	0.00	4.0334	0.017	0.414	ug/L
|	Se	77	250.004	-0.00	-3.4823	0.183	5.241	ug/L
⌊	Se	82	187.201	0.00	0.4075	0.070	17.074	ug/L
	Y	89	926445.653	87205.87				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	467.151	0.00	0.0937	0.044	46.750	ug/L
|	Cd	114	312.584	0.00	0.1055	0.012	11.818	ug/L
|>	In	115	873981.005	873981.00				ug/L
⌊	Sb	123	2599.095	0.00	0.9400	0.033	3.543	ug/L
⌈	Ba	135	124329.642	0.14	121.3421	6.955	5.732	ug/L
|	Ce	140	247211.491	0.28				ug/L
|>	Tb	159	868506.082	868506.08				ug/L
⌈	Ho	165	3334.174	3334.17				ug/L
|	Tl	203	513.690	418.36	0.0943	0.003	3.120	ug/L
|	Tl	205	1309.467	1116.80	0.1084	0.005	4.741	ug/L
|	Pb	206	117906.922	117856.92	31.2142	0.281	0.901	ug/L
|	Pb	207	101506.286	101469.62	31.3225	0.320	1.021	ug/L
|	Pb	208	469508.951	469333.61	31.6091	0.490	1.549	ug/L
|>	Bi	209	700611.338	700611.34				ug/L
⌈	Na	23	211079656.614	413.78	93.7044	13.299	14.193	mg/L
|	Mg	24	5679090.705	11.08	3.2633	0.343	10.523	mg/L
|	K	39	12415514.972	22.64	1.8828	0.088	4.700	mg/L
|	Ca	43	392869.810	0.77	36.3482	3.648	10.037	mg/L
|	Fe	54	3097283.922	5.97	5.9091	0.580	9.809	mg/L
|	Fe	57	1252282.204	2.43	5.2744	0.311	5.902	mg/L

|> Sc	45	512803.668	512803.67		mg/L
Cl	35	184369.321	-454201.25		mg/L
Kr	83	167.670	-22.67		mg/L
U	238	3000.630	3000.63		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		138.060			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.393			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		96.498			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		95.284			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		88.244			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		138.060			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543306
Report Date/Time: Thursday, May 24, 2001 17:42:03

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543307 SDL-10

Sample Date/Time: Thursday, May 24, 2001 17:46:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19359.924	7683.61				ug/L
⌈	Be	9	0.000	-0.00	-1.6209	0.000	0.000	ug/L
|	Al	27	3405710.787	7.63	6824.9397	835.722	12.245	ug/L
|>	Sc-1	45	449098.450	449098.45				ug/L
⌈	V	51	21276.060	0.02	16.5773	1.605	9.681	ug/L
|	Cr	52	20683.997	0.01	9.3459	1.705	18.243	ug/L
|	Cr	53	3000.817	-0.03	-274.3134	21.281	7.758	ug/L
|	Mn	55	60616.536	0.06	37.7987	1.088	2.878	ug/L
|	Co	59	1568.413	0.00	1.1529	0.281	24.347	ug/L
|	Ni	60	3137.162	0.00	11.1718	1.019	9.124	ug/L
|	Cu	65	71426.678	0.07	235.2968	6.427	2.731	ug/L
|	Zn	66	23709.192	0.02	115.7276	40.672	35.145	ug/L
|>	Ge	72	1043021.561	1043021.56				ug/L
|	As	75	1104.540	0.00	4.0395	0.222	5.494	ug/L
|	Se	77	141.335	-0.00	-23.4770	0.734	3.128	ug/L
⌊	Se	82	134.039	-0.00	-0.3049	0.651	213.464	ug/L
	Y	89	782342.071	-56897.72				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	367.044	0.00	0.3684	0.129	35.095	ug/L
|	Cd	114	47.352	0.00	0.0506	0.014	26.975	ug/L
|>	In	115	860277.297	860277.30				ug/L
⌊	Sb	123	132768.906	0.15	245.9271	9.086	3.695	ug/L
⌈	Ba	135	11019.523	0.01	60.2791	2.992	4.963	ug/L
|	Ce	140	23038.544	0.03				ug/L
⌊>	Tb	159	772775.806	772775.81				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	84.001	-11.33	-0.0128	0.011	85.091	ug/L
|	Tl	205	210.339	17.67	0.0086	0.002	18.196	ug/L
|	Pb	206	1169236.339	1169186.33	1548.2837	33.510	2.164	ug/L
|	Pb	207	977964.743	977928.07	1509.3768	4.624	0.306	ug/L
|	Pb	208	4425177.798	4425002.45	1490.0942	17.899	1.201	ug/L
⌊>	Bi	209	739683.510	739683.51				ug/L
⌈	Na	23	47002240.013	105.42	119.3640	16.616	13.920	mg/L
|	Mg	24	613613.116	1.37	2.0238	0.230	11.344	mg/L
|	K	39	2618728.608	4.25	1.7657	0.091	5.162	mg/L
|	Ca	43	21367.317	0.05	11.1835	2.842	25.412	mg/L
|	Fe	54	375083.786	0.74	3.6798	0.116	3.141	mg/L
|	Fe	57	137650.418	0.29	3.1647	0.527	16.651	mg/L

>	Sc	45	449098.450	449098.45		mg/L
	Cl	35	62946.857	-575623.72		mg/L
	Kr	83	146.336	-44.00		mg/L
	U	238	666.760	666.76		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
[	Be	9					
|	Al	27					
>	Sc-1	45		120.909			
[	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.046			
|	As	75					
|	Se	77					
[	Se	82					
	Y	89					
[	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		94.985			
[	Sb	123					
[	Ba	135					
|	Ce	140					
>	Tb	159		84.781			
[	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		93.166			
[	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		120.909			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543307 SDL-10
Report Date/Time: Thursday, May 24, 2001 17:47:10

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543308 SDL-10

Sample Date/Time: Thursday, May 24, 2001 17:51:29
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24375.102	12698.79				ug/L
⌈	Be	9	266.941	0.00	8.1100	7.166	88.365	ug/L
|	Al	27	52923275.546	110.46	98814.7173	3515.160	3.557	ug/L
|>	Sc-1	45	480030.494	480030.49				ug/L
⌈	V	51	252226.727	0.25	241.6215	24.390	10.094	ug/L
|	Cr	52	120460.042	0.11	120.9670	2.456	2.030	ug/L
|	Cr	53	13348.238	-0.01	-161.3134	79.850	49.500	ug/L
|	Mn	55	1274822.408	1.26	839.0300	47.876	5.706	ug/L
|	Co	59	48277.661	0.05	38.9890	2.663	6.830	ug/L
|	Ni	60	34216.573	0.03	126.3745	11.951	9.457	ug/L
|	Cu	65	2305038.744	2.27	7816.4049	262.205	3.355	ug/L
|	Zn	66	399918.960	0.39	2009.5690	166.044	8.263	ug/L
|>	Ge	72	1014057.872	1014057.87				ug/L
|	As	75	8921.270	0.01	39.5342	1.086	2.746	ug/L
|	Se	77	190.669	-0.00	-20.5399	2.987	14.543	ug/L
⌊	Se	82	159.547	0.00	0.9591	0.835	87.101	ug/L
	Y	89	947331.016	108091.23				ug/L
⌈	Rh	103	1535.048	0.00				ug/L
|	Ag	107	5340.693	0.01	6.0328	0.849	14.081	ug/L
|	Cd	114	488.491	0.00	0.8894	0.058	6.532	ug/L
|>	In	115	830739.721	830739.72				ug/L
⌊	Sb	123	294246.526	0.35	564.1828	12.896	2.286	ug/L
⌈	Ba	135	121613.956	0.16	672.5674	51.428	7.647	ug/L
|	Ce	140	567721.973	0.74				ug/L
|>	Tb	159	767568.090	767568.09				ug/L
⌈	Ho	165	5001.797	5001.80				ug/L
|	Tl	203	880.730	785.39	0.8853	0.039	4.448	ug/L
|	Tl	205	2207.363	2014.69	0.9774	0.023	2.385	ug/L
|	Pb	206	35220525.248	35220475.24	46640.3734	676.829	1.451	ug/L
|	Pb	207	29433785.444	29433748.77	45429.3300	713.135	1.570	ug/L
|	Pb	208	139907152.330	139906976.99	47112.8733	341.410	0.725	ug/L
|>	Bi	209	781067.445	781067.44				ug/L
⌈	Na	23	34606044.844	72.56	82.1605	9.573	11.651	mg/L
|	Mg	24	11866842.969	24.80	36.5221	1.865	5.107	mg/L
|	K	39	19734248.232	39.72	16.5157	1.343	8.133	mg/L
|	Ca	43	263468.257	0.55	130.4953	16.568	12.696	mg/L
|	Fe	54	5981374.468	12.37	61.2220	1.201	1.962	mg/L
|	Fe	57	2407849.540	5.02	54.5445	5.080	9.313	mg/L

> Sc	45	480030.494	480030.49		mg/L
Cl	35	41790.261	-596780.31		mg/L
Kr	83	171.004	-19.33		mg/L
U	238	11009.365	11009.37		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		129.237			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		100.185			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		91.723			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		84.210			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		98.378			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		129.237			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543308 SDL-10
Report Date/Time: Thursday, May 24, 2001 17:52:18

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Cu 65 Upper, S, EEE	Cu	65
Zn 66 Upper, S, EEE	Zn	66
Se 77 Lower	Se	77
Pb 206 Upper, S, EEE	Pb	206
Pb 207 Upper, S, EEE	Pb	207
Pb 208 Upper, S, EEE	Pb	208
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543309

Sample Date/Time: Thursday, May 24, 2001 17:56:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20696.905	9020.59				ug/L
⌈	Be	9	533.888	0.00	2.4440	0.969	39.665	ug/L
|	Al	27	221885733.031	315.39	56426.1482	5757.787	10.204	ug/L
|>	Sc-1	45	705986.722	705986.72				ug/L
⌈	V	51	967419.044	0.97	190.9236	4.820	2.525	ug/L
|	Cr	52	564220.111	0.56	125.4647	4.249	3.387	ug/L
|	Cr	53	64625.178	0.04	80.7256	11.413	14.138	ug/L
|	Mn	55	5194169.617	5.23	697.7713	14.629	2.097	ug/L
|	Co	59	236938.710	0.24	39.0686	1.515	3.878	ug/L
|	Ni	60	231524.037	0.23	174.9022	8.571	4.900	ug/L
|	Cu	65	163136.669	0.16	112.8669	2.881	2.553	ug/L
|	Zn	66	380209.000	0.38	389.2948	15.898	4.084	ug/L
|>	Ge	72	993872.800	993872.80				ug/L
|	As	75	9004.160	0.01	8.1438	0.146	1.796	ug/L
|	Se	77	676.032	0.00	1.4273	0.072	5.010	ug/L
⌊	Se	82	362.269	0.00	1.9867	0.195	9.800	ug/L
	Y	89	1937769.668	1098529.88				ug/L
⌈	Rh	103	500.519	0.00				ug/L
|	Ag	107	1167.931	0.00	0.2509	0.036	14.158	ug/L
|	Cd	114	558.596	0.00	0.1984	0.007	3.301	ug/L
|>	In	115	855486.840	855486.84				ug/L
⌊	Sb	123	15865.179	0.02	5.9011	0.109	1.843	ug/L
⌈	Ba	135	109883.101	0.12	105.7339	1.890	1.787	ug/L
|	Ce	140	4324807.399	4.92				ug/L
|>	Tb	159	879007.667	879007.67				ug/L
⌈	Ho	165	51183.902	51183.90				ug/L
|	Tl	203	3198.415	3103.08	0.6995	0.013	1.883	ug/L
|	Tl	205	7927.142	7734.47	0.7505	0.000	0.058	ug/L
|	Pb	206	3583960.567	3583910.56	949.1918	6.914	0.728	ug/L
|	Pb	207	3019387.783	3019351.11	932.0396	26.556	2.849	ug/L
|	Pb	208	14128677.494	14128502.15	951.5384	15.380	1.616	ug/L
|>	Bi	209	707449.097	707449.10				ug/L
⌈	Na	23	168037312.280	238.16	53.9337	1.673	3.102	mg/L
|	Mg	24	71952489.664	102.00	30.0432	0.644	2.145	mg/L
|	K	39	100651519.405	141.50	11.7666	1.084	9.214	mg/L
|	Ca	43	1053730.527	1.50	70.7880	5.334	7.535	mg/L
|	Fe	54	27740621.416	39.37	38.9815	5.180	13.289	mg/L
|	Fe	57	11518531.773	16.33	35.4499	2.066	5.828	mg/L

> Sc	45	705986.722	705986.72		mg/L
Cl	35	327383.187	-311187.39		mg/L
Kr	83	349.679	159.34		mg/L
U	238	90909.334	90909.33		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		190.071			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		98.191			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		94.456			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		96.436			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		89.106			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		190.071			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543309
Report Date/Time: Thursday, May 24, 2001 17:57:25

Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
Mn 55 Upper, S, EEE Mn	55
Zn 66 Upper, S, EEE Zn	66
Pb 206 Upper, S, EEEPb	206
Pb 207 Upper, S, EEEPb	207
Pb 208 Upper, S, EEEPb	208
Na 23 Upper, S, EEE Na	23
Mg 24 Upper, S, EEE Mg	24
Ca 43 Upper, S, EEE Ca	43
Fe 54 Upper, S, EEE Fe	54
Fe 57 Upper, S, EEE Fe	57
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0543310

Sample Date/Time: Thursday, May 24, 2001 18:01:44
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19695.200	8018.89				ug/L
⌈	Be	9	266.941	0.00	1.5175	1.503	99.033	ug/L
|	Al	27	73308537.238	136.79	24473.1201	2251.983	9.202	ug/L
⌊>	Sc-1	45	537897.185	537897.18				ug/L
⌈	V	51	576981.564	0.56	109.9572	1.261	1.147	ug/L
|	Cr	52	128642.617	0.11	25.6665	0.539	2.098	ug/L
|	Cr	53	15350.293	-0.01	-28.5532	6.774	23.726	ug/L
|	Mn	55	3972032.796	3.87	516.6648	14.564	2.819	ug/L
|	Co	59	76417.719	0.07	12.1949	0.970	7.957	ug/L
|	Ni	60	39448.565	0.04	28.8257	2.526	8.764	ug/L
|	Cu	65	28451.823	0.03	19.0397	1.400	7.354	ug/L
|	Zn	66	84841.751	0.08	84.1400	12.477	14.829	ug/L
|>	Ge	72	1026204.658	1026204.66				ug/L
|	As	75	6763.004	0.01	5.8804	0.153	2.604	ug/L
|	Se	77	330.674	-0.00	-2.5970	0.189	7.262	ug/L
⌊	Se	82	277.785	0.00	1.1722	0.142	12.133	ug/L
	Y	89	1205951.100	366711.31				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	2302.678	0.00	0.4868	0.061	12.467	ug/L
|	Cd	114	1363.233	0.00	0.4807	0.019	4.042	ug/L
|>	In	115	879559.284	879559.28				ug/L
⌊	Sb	123	960.997	0.00	0.3403	0.010	2.897	ug/L
⌈	Ba	135	398301.550	0.45	379.4344	42.085	11.092	ug/L
|	Ce	140	811281.188	0.91				ug/L
⌊>	Tb	159	893427.944	893427.94				ug/L
⌈	Ho	165	12010.978	12010.98				ug/L
|	Tl	203	986.745	891.41	0.2009	0.007	3.538	ug/L
|	Tl	205	2480.456	2287.78	0.2220	0.006	2.779	ug/L
|	Pb	206	117006.024	116956.02	30.9756	0.913	2.949	ug/L
|	Pb	207	97666.225	97629.55	30.1371	0.189	0.629	ug/L
|	Pb	208	460744.565	460569.22	31.0188	0.275	0.887	ug/L
⌊>	Bi	209	722309.579	722309.58				ug/L
⌈	Na	23	110877079.004	207.01	46.8800	7.210	15.380	mg/L
|	Mg	24	16256939.041	30.32	8.9293	0.719	8.054	mg/L
|	K	39	36474633.179	66.45	5.5255	0.479	8.666	mg/L
|	Ca	43	1403372.393	2.62	123.8481	12.676	10.235	mg/L
|	Fe	54	5453385.607	10.07	9.9710	0.934	9.365	mg/L
|	Fe	57	2215812.460	4.10	8.9084	0.343	3.847	mg/L

> Sc	45	537897.185	537897.18		mg/L
Cl	35	115936.466	-522634.11		mg/L
Kr	83	224.339	34.00		mg/L
U	238	9006.001	9006.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		144.816			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.385			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		97.114			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.018			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		90.977			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		144.816			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543310
Report Date/Time: Thursday, May 24, 2001 18:02:34

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ba 135 Upper, S, EEE	Ba	135
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543311

Sample Date/Time: Thursday, May 24, 2001 18:06:53
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20697.748	9021.44				ug/L
⌈	Be	9	66.734	0.00	0.1455	0.813	559.175	ug/L
|	Al	27	18422077.686	34.58	6187.1463	939.361	15.182	ug/L
⌊>	Sc-1	45	538010.877	538010.88				ug/L
⌈	V	51	225992.360	0.21	41.9300	1.049	2.501	ug/L
|	Cr	52	49655.223	0.04	8.1292	0.634	7.796	ug/L
|	Cr	53	5669.959	-0.02	-49.3559	9.739	19.732	ug/L
|	Mn	55	637107.015	0.61	81.3202	2.562	3.150	ug/L
|	Co	59	13793.774	0.01	2.1514	0.084	3.895	ug/L
|	Ni	60	11119.833	0.01	7.9781	0.929	11.638	ug/L
|	Cu	65	6309.127	0.01	4.1320	0.533	12.899	ug/L
|	Zn	66	19359.596	0.02	18.8975	1.298	6.871	ug/L
|>	Ge	72	1043366.211	1043366.21				ug/L
|	As	75	3047.743	0.00	2.5160	0.047	1.878	ug/L
|	Se	77	262.005	-0.00	-3.3944	0.273	8.042	ug/L
⌊	Se	82	216.825	0.00	0.6273	0.131	20.944	ug/L
	Y	89	900871.714	61631.93				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.836	0.00	0.0286	0.025	87.310	ug/L
|	Cd	114	285.169	0.00	0.0939	0.010	10.743	ug/L
|>	In	115	888227.464	888227.46				ug/L
⌊	Sb	123	552.871	0.00	0.1905	0.006	3.243	ug/L
⌈	Ba	135	76012.488	0.09	76.4235	5.800	7.590	ug/L
|	Ce	140	164560.162	0.19				ug/L
⌊>	Tb	159	846071.530	846071.53				ug/L
⌈	Ho	165	5002.078	5002.08				ug/L
|	Tl	203	341.678	246.34	0.0555	0.005	9.437	ug/L
|	Tl	205	800.720	608.05	0.0590	0.002	3.514	ug/L
|	Pb	206	20802.327	20752.32	5.4962	0.053	0.965	ug/L
|	Pb	207	17376.179	17339.51	5.3525	0.035	0.650	ug/L
|	Pb	208	81865.136	81689.79	5.5017	0.024	0.430	ug/L
⌊>	Bi	209	735790.703	735790.70				ug/L
⌈	Na	23	122412427.286	230.42	52.1816	9.235	17.698	mg/L
|	Mg	24	5008582.286	9.38	2.7626	0.284	10.287	mg/L
|	K	39	10244062.325	17.62	1.4649	0.204	13.957	mg/L
|	Ca	43	337471.601	0.63	29.8519	3.120	10.452	mg/L
|	Fe	54	1665897.169	3.03	3.0007	0.366	12.194	mg/L
|	Fe	57	662043.716	1.23	2.6623	0.402	15.114	mg/L

> Sc	45	538010.877	538010.88		mg/L
Cl	35	112886.022	-525684.55		mg/L
Kr	83	157.670	-32.67		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		144.847			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.080			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		98.071			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		92.822			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		92.675			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		144.847			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543311
Report Date/Time: Thursday, May 24, 2001 18:07:42

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543312

Sample Date/Time: Thursday, May 24, 2001 18:12:01
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17355.155	5678.84				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	2165321.517	4.60	823.4329	138.328	16.799	ug/L
|>	Sc-1	45	472137.158	472137.16				ug/L
⌈	V	51	101418.235	0.10	18.8036	0.754	4.010	ug/L
|	Cr	52	19880.822	0.01	1.7765	0.098	5.516	ug/L
|	Cr	53	3334.314	-0.02	-54.0660	4.416	8.168	ug/L
|	Mn	55	54057.951	0.05	6.8499	0.330	4.813	ug/L
|	Co	59	2502.947	0.00	0.3847	0.055	14.174	ug/L
|	Ni	60	3504.376	0.00	2.5462	0.397	15.609	ug/L
|	Cu	65	1768.659	0.00	1.1650	0.213	18.256	ug/L
|	Zn	66	5001.891	0.00	4.9716	1.712	34.444	ug/L
|>	Ge	72	1023555.274	1023555.27				ug/L
|	As	75	1511.734	0.00	1.1913	0.110	9.241	ug/L
|	Se	77	244.004	-0.00	-3.5389	0.379	10.710	ug/L
⌊	Se	82	232.072	0.00	0.7910	0.150	18.970	ug/L
	Y	89	882174.176	42934.39				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.836	0.00	0.0289	0.013	44.199	ug/L
|	Cd	114	68.605	0.00	0.0174	0.003	16.454	ug/L
|>	In	115	879953.795	879953.80				ug/L
⌊	Sb	123	760.697	0.00	0.2678	0.022	8.150	ug/L
⌈	Ba	135	18074.248	0.02	17.5937	1.208	6.864	ug/L
|	Ce	140	22034.917	0.03				ug/L
⌊>	Tb	159	869213.163	869213.16				ug/L
⌈	Ho	165	1000.117	1000.12				ug/L
|	Tl	203	82.335	-13.00	-0.0029	0.002	85.080	ug/L
|	Tl	205	172.337	-20.33	-0.0020	0.001	57.424	ug/L
|	Pb	206	5229.117	5179.11	1.3717	0.145	10.574	ug/L
|	Pb	207	4418.476	4381.81	1.3526	0.045	3.344	ug/L
|	Pb	208	20344.037	20168.69	1.3583	0.034	2.526	ug/L
⌊>	Bi	209	736016.156	736016.16				ug/L
⌈	Na	23	72827646.613	155.39	35.1895	6.740	19.154	mg/L
|	Mg	24	2939254.579	6.25	1.8395	0.171	9.278	mg/L
|	K	39	7762402.156	14.89	1.2382	0.095	7.647	mg/L
|	Ca	43	289419.716	0.61	29.0128	0.875	3.017	mg/L
|	Fe	54	292043.056	0.53	0.5253	0.119	22.629	mg/L
|	Fe	57	102058.038	0.20	0.4322	0.047	10.988	mg/L

L>	Sc	45	472137.158	472137.16	mg/L
	Cl	35	100713.130	-537857.44	mg/L
	Kr	83	137.669	-52.67	mg/L
	U	238	333.357	333.36	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		127.112			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		101.123			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		97.157			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		95.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		92.704			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		127.112			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543312
Report Date/Time: Thursday, May 24, 2001 18:12:51

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 18:17:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19027.599	7351.29				ug/L
⌈	Be	9	16903.551	0.04	53.0623	2.077	3.915	ug/L
|	Al	27	338291.031	0.73	52.1702	11.068	21.215	ug/L
⌊>	Sc-1	45	459349.707	459349.71				ug/L
⌈	V	51	796163.502	0.75	59.1201	2.567	4.342	ug/L
|	Cr	52	704979.803	0.66	59.2297	2.945	4.973	ug/L
|	Cr	53	89563.274	0.06	49.4245	7.366	14.903	ug/L
|	Mn	55	1134566.067	1.07	57.3435	1.754	3.060	ug/L
|	Co	59	857371.285	0.81	53.2642	0.853	1.602	ug/L
|	Ni	60	180407.012	0.17	51.3760	5.810	11.308	ug/L
|	Cu	65	199787.022	0.19	52.0600	2.122	4.075	ug/L
|	Zn	66	135956.867	0.13	52.4587	5.460	10.408	ug/L
|>	Ge	72	1055803.158	1055803.16				ug/L
|	As	75	137148.959	0.13	47.5872	0.702	1.474	ug/L
|	Se	77	11505.927	0.01	46.5314	1.474	3.169	ug/L
⌊	Se	82	14675.352	0.01	47.7205	1.150	2.409	ug/L
	Y	89	799082.521	-40157.27				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	570074.614	0.65	48.7340	1.545	3.170	ug/L
|	Cd	114	347776.583	0.39	49.5957	0.619	1.249	ug/L
|>	In	115	882965.333	882965.33				ug/L
⌊	Sb	123	332711.922	0.38	48.0161	0.818	1.703	ug/L
⌈	Ba	135	105647.250	0.13	44.8814	2.649	5.901	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	798316.162	798316.16				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510022.395	509927.06	45.9808	0.483	1.050	ug/L
|	Tl	205	1293690.626	1293497.95	50.2031	0.389	0.775	ug/L
|	Pb	206	476533.474	476483.47	50.4783	0.579	1.147	ug/L
|	Pb	207	365953.699	365917.03	45.1818	0.579	1.281	ug/L
|	Pb	208	1774425.441	1774250.10	47.7975	0.238	0.497	ug/L
⌊>	Bi	209	752045.630	752045.63				ug/L
⌈	Na	23	27719269.751	60.62	5.4912	0.579	10.539	mg/L
|	Mg	24	21765512.519	47.55	5.6019	0.657	11.732	mg/L
|	K	39	67870519.966	146.85	4.8845	0.783	16.025	mg/L
|	Ca	43	116277.027	0.25	4.7832	0.108	2.263	mg/L
|	Fe	54	5500448.862	11.91	4.7150	0.472	10.005	mg/L
⌊	Fe	57	2093942.775	4.56	3.9616	0.414	10.461	mg/L

> Sc	45	459349.707	459349.71		mg/L
Cl	35	29059.131	-609511.44		mg/L
Kr	83	142.670	-47.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	106.125				
|	Al	27	104.340				
⌊>	Sc-1	45		123.669			
⌈	V	51	118.240				
|	Cr	52	118.459				
|	Cr	53	98.849				
|	Mn	55	114.687				
|	Co	59	106.528				
|	Ni	60	102.752				
|	Cu	65	104.120				
|	Zn	66	104.917				
\>	Ge	72		104.309			
|	As	75	95.174				
|	Se	77	93.063				
⌊	Se	82	95.441				
	Y	89					
⌈	Rh	103					
|	Ag	107	97.468				
|	Cd	114	99.191				
\>	In	115		97.490			
⌊	Sb	123	96.032				
⌈	Ba	135	89.763				
|	Ce	140					
⌊>	Tb	159		87.583			
⌈	Ho	165					
|	Tl	203	91.962				
|	Tl	205	100.406				
|	Pb	206	100.957				
|	Pb	207	90.364				
|	Pb	208	95.595				
⌊>	Bi	209		94.723			
⌈	Na	23	109.824				
|	Mg	24	112.037				
|	K	39	97.690				
|	Ca	43	95.663				
|	Fe	54	94.300				
|	Fe	57	79.233				
⌊>	Sc	45		123.669			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 18:18:00

QC Std 6	Al	27	CCV is out of limits (+/-10%)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Mn	55	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
Sc 45 Int Std for QC S	Sc	45	

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 18:22:18
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16687.648	5011.34				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	5002.311	-0.00	-0.1545	0.464	300.388	ug/L
⌊>	Sc-1	45	467877.403	467877.40				ug/L
⌈	V	51	3245.008	-0.00	-0.0363	0.220	604.760	ug/L
|	Cr	52	11988.809	-0.00	-0.0219	0.130	593.379	ug/L
|	Cr	53	1666.970	-0.03	-23.0915	1.268	5.492	ug/L
|	Mn	55	367.044	-0.00	-0.0624	0.008	12.759	ug/L
|	Co	59	100.101	-0.00	-0.0003	0.000	35.065	ug/L
|	Ni	60	0.000	-0.00	-0.0099	0.000	0.000	ug/L
|	Cu	65	0.000	-0.00	-0.0091	0.000	0.000	ug/L
|	Zn	66	333.357	0.00	0.1256	0.218	173.205	ug/L
|>	Ge	72	1060476.642	1060476.64				ug/L
|	As	75	114.337	-0.00	-0.0253	0.027	108.439	ug/L
|	Se	77	145.335	-0.00	-1.8718	0.043	2.310	ug/L
⌊	Se	82	125.343	-0.00	-0.0594	0.041	68.676	ug/L
	Y	89	862075.015	22835.23				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	23.895	0.00	0.0006	0.000	12.002	ug/L
|>	In	115	872319.255	872319.26				ug/L
⌊	Sb	123	954.675	0.00	0.1364	0.006	4.092	ug/L
⌈	Ba	135	66.734	0.00	0.0142	0.046	324.789	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	775429.568	775429.57				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	27.000	-68.33	-0.0062	0.001	14.113	ug/L
|	Tl	205	38.667	-154.00	-0.0060	0.000	3.968	ug/L
|	Pb	206	76.675	26.67	0.0028	0.003	120.546	ug/L
|	Pb	207	70.007	33.34	0.0041	0.005	130.767	ug/L
|	Pb	208	261.018	85.67	0.0023	0.002	83.618	ug/L
⌊>	Bi	209	755657.112	755657.11				ug/L
⌈	Na	23	7338.705	0.01	0.0006	0.001	179.486	mg/L
|	Mg	24	1000.070	0.00	0.0000	0.000	38.865	mg/L
|	K	39	717732.093	-0.06	-0.0018	0.005	292.061	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	43133.246	0.00	0.0003	0.012	3637.826	mg/L
|	Fe	57	8671.943	0.00	0.0005	0.001	193.017	mg/L

> Sc	45	467877.403	467877.40		mg/L
Cl	35	34755.242	-603815.33		mg/L
Kr	83	139.669	-50.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		125.965			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.771			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		96.314			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		85.072			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		95.178			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		125.965			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 18:23:06

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Mn	55	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)
Sc 45 Int Std for QC S	Sc	45	

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 18:23:06

Method 6020 - Summary Report

Sample ID: 0543313

Sample Date/Time: Thursday, May 24, 2001 18:27:25
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.682	10358.37				ug/L
⌈	Be	9	133.469	0.00	0.6160	1.122	182.093	ug/L
|	Al	27	32930038.118	64.03	11455.7106	1527.036	13.330	ug/L
⌊>	Sc-1	45	516071.126	516071.13				ug/L
⌈	V	51	421766.671	0.40	78.0998	2.384	3.053	ug/L
|	Cr	52	75472.589	0.06	13.5525	0.849	6.262	ug/L
|	Cr	53	10674.746	-0.02	-39.0494	3.287	8.417	ug/L
|	Mn	55	1112954.360	1.05	140.8708	6.141	4.359	ug/L
|	Co	59	21286.278	0.02	3.2982	0.108	3.262	ug/L
|	Ni	60	16937.064	0.02	12.0445	0.972	8.071	ug/L
|	Cu	65	11487.471	0.01	7.4722	0.888	11.888	ug/L
|	Zn	66	55887.136	0.05	54.0072	7.303	13.522	ug/L
|>	Ge	72	1053310.567	1053310.57				ug/L
|	As	75	4988.871	0.00	4.1797	0.136	3.243	ug/L
|	Se	77	272.005	-0.00	-3.3154	0.234	7.072	ug/L
⌊	Se	82	228.079	0.00	0.7027	0.031	4.400	ug/L
	Y	89	961802.372	122562.59				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	433.783	0.00	0.0844	0.053	62.730	ug/L
|	Cd	114	449.142	0.00	0.1510	0.007	4.579	ug/L
|>	In	115	894006.232	894006.23				ug/L
⌊	Sb	123	1306.734	0.00	0.4579	0.015	3.269	ug/L
⌈	Ba	135	131022.169	0.15	127.2080	14.211	11.171	ug/L
|	Ce	140	272092.975	0.31				ug/L
⌊>	Tb	159	876512.619	876512.62				ug/L
⌈	Ho	165	3668.278	3668.28				ug/L
|	Tl	203	545.026	449.69	0.1014	0.002	2.322	ug/L
|	Tl	205	1331.471	1138.80	0.1105	0.006	5.239	ug/L
|	Pb	206	37052.887	37002.88	9.8001	0.065	0.668	ug/L
|	Pb	207	30263.704	30227.03	9.3307	0.288	3.086	ug/L
|	Pb	208	143620.141	143444.80	9.6608	0.157	1.626	ug/L
⌊>	Bi	209	742759.910	742759.91				ug/L
⌈	Na	23	144794446.339	282.37	63.9450	7.683	12.015	mg/L
|	Mg	24	6216653.489	12.11	3.5668	0.353	9.886	mg/L
|	K	39	12743757.815	23.16	1.9255	0.086	4.477	mg/L
|	Ca	43	582503.197	1.13	53.6418	5.175	9.647	mg/L
|	Fe	54	2787949.803	5.33	5.2776	0.371	7.038	mg/L
|	Fe	57	1273621.560	2.45	5.3213	0.082	1.534	mg/L

>	Sc	45	516071.126	516071.13	mg/L
	Cl	35	141739.516	-496831.06	mg/L
	Kr	83	170.004	-20.33	mg/L
	U	238	2334.010	2334.01	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		138.940			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		104.063			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		98.709			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		96.162			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		93.553			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		138.940			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543313
Report Date/Time: Thursday, May 24, 2001 18:28:15

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543314

Sample Date/Time: Thursday, May 24, 2001 18:32:35
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19361.705	7685.39				ug/L
⌈	Be	9	66.734	0.00	0.2243	0.950	423.562	ug/L
|	Al	27	9959866.440	21.13	3781.0177	299.314	7.916	ug/L
|>	Sc-1	45	472159.230	472159.23				ug/L
⌈	V	51	286808.046	0.27	52.4848	1.092	2.080	ug/L
|	Cr	52	36764.408	0.02	5.2054	0.072	1.383	ug/L
|	Cr	53	4335.037	-0.02	-52.2993	5.871	11.226	ug/L
|	Mn	55	150962.418	0.14	18.7954	0.893	4.749	ug/L
|	Co	59	5207.112	0.00	0.7886	0.077	9.730	ug/L
|	Ni	60	4405.764	0.00	3.0919	0.161	5.222	ug/L
|	Cu	65	3537.747	0.00	2.2684	0.054	2.365	ug/L
|	Zn	66	20028.086	0.02	19.2119	1.104	5.745	ug/L
|>	Ge	72	1061605.922	1061605.92				ug/L
|	As	75	3944.197	0.00	3.2442	0.080	2.474	ug/L
|	Se	77	239.337	-0.00	-3.6836	0.140	3.794	ug/L
⌊	Se	82	215.680	0.00	0.5888	0.338	57.467	ug/L
	Y	89	864180.932	24941.15				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	100.101	0.00	0.0138	0.021	149.517	ug/L
|	Cd	114	130.286	0.00	0.0383	0.003	7.048	ug/L
|>	In	115	901547.955	901547.96				ug/L
⌊	Sb	123	797.114	0.00	0.2739	0.010	3.662	ug/L
⌈	Ba	135	15866.820	0.02	15.6594	1.456	9.297	ug/L
|	Ce	140	61939.423	0.07				ug/L
|>	Tb	159	857986.039	857986.04				ug/L
⌈	Ho	165	1000.210	1000.21				ug/L
|	Tl	203	174.004	78.67	0.0177	0.002	13.393	ug/L
|	Tl	205	420.683	228.01	0.0221	0.001	4.811	ug/L
|	Pb	206	8435.822	8385.82	2.2210	0.021	0.948	ug/L
|	Pb	207	7164.311	7127.64	2.2002	0.084	3.818	ug/L
|	Pb	208	33722.275	33546.93	2.2593	0.017	0.734	ug/L
|>	Bi	209	750209.499	750209.50				ug/L
⌈	Na	23	135669469.341	288.77	65.3956	6.591	10.078	mg/L
|	Mg	24	2021179.793	4.28	1.2609	0.032	2.539	mg/L
|	K	39	4865929.604	8.77	0.7290	0.096	13.100	mg/L
|	Ca	43	99362.215	0.21	9.9659	1.395	14.000	mg/L
|	Fe	54	1047595.680	2.13	2.1070	0.126	5.989	mg/L
|	Fe	57	379513.814	0.79	1.7168	0.229	13.332	mg/L

Sample ID: 0543314
Report Date/Time: Thursday, May 24, 2001 18:33:25
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>	Sc	45	472159.230	472159.23	mg/L
	Cl	35	132239.214	-506331.36	mg/L
	Kr	83	155.003	-35.33	mg/L
	U	238	1000.117	1000.12	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		127.118			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.882			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		99.541			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		94.129			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		94.491			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		127.118			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543314
Report Date/Time: Thursday, May 24, 2001 18:33:25

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543315

Sample Date/Time: Thursday, May 24, 2001 18:37:44
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19695.669	8019.36				ug/L
⌈	Be	9	33.367	-0.00	-0.0802	0.423	527.144	ug/L
|	Al	27	14958175.797	29.64	5302.7275	809.897	15.273	ug/L
⌊>	Sc-1	45	507859.850	507859.85				ug/L
⌈	V	51	242508.418	0.23	45.7621	3.833	8.377	ug/L
|	Cr	52	45053.234	0.03	7.2734	0.282	3.878	ug/L
|	Cr	53	4668.628	-0.02	-51.1046	6.934	13.569	ug/L
|	Mn	55	178138.016	0.17	22.9125	0.420	1.834	ug/L
|	Co	59	5073.559	0.00	0.7923	0.099	12.532	ug/L
|	Ni	60	5908.355	0.01	4.2852	0.242	5.655	ug/L
|	Cu	65	3738.056	0.00	2.4833	0.375	15.107	ug/L
|	Zn	66	22369.068	0.02	22.0465	3.271	14.835	ug/L
|>	Ge	72	1029339.860	1029339.86				ug/L
|	As	75	3529.710	0.00	2.9843	0.120	4.004	ug/L
|	Se	77	220.670	-0.00	-3.8087	0.092	2.413	ug/L
⌊	Se	82	191.672	0.00	0.4338	0.259	59.615	ug/L
	Y	89	901277.458	62037.67				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0149	0.001	5.676	ug/L
|	Cd	114	151.020	0.00	0.0475	0.004	8.668	ug/L
|>	In	115	867059.187	867059.19				ug/L
⌊	Sb	123	1619.674	0.00	0.5881	0.034	5.728	ug/L
⌈	Ba	135	12757.528	0.02	13.1939	1.347	10.209	ug/L
|	Ce	140	47493.811	0.06				ug/L
⌊>	Tb	159	818891.090	818891.09				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	255.007	159.67	0.0360	0.002	5.637	ug/L
|	Tl	205	613.366	420.69	0.0408	0.001	3.464	ug/L
|	Pb	206	9934.563	9884.56	2.6179	0.016	0.619	ug/L
|	Pb	207	8565.996	8529.33	2.6329	0.118	4.479	ug/L
|	Pb	208	39625.299	39449.96	2.6569	0.023	0.880	ug/L
⌊>	Bi	209	725544.435	725544.43				ug/L
⌈	Na	23	125511476.078	248.88	56.3607	6.523	11.573	mg/L
|	Mg	24	2869891.639	5.69	1.6753	0.194	11.565	mg/L
|	K	39	6229399.871	10.68	0.8880	0.055	6.172	mg/L
|	Ca	43	116287.823	0.23	10.8886	2.081	19.112	mg/L
|	Fe	54	1438322.275	2.76	2.7307	0.500	18.323	mg/L
|	Fe	57	553008.761	1.07	2.3283	0.048	2.053	mg/L

>	Sc	45	507859.850	507859.85	
	Cl	35	186060.912	-452509.66	mg/L
	Kr	83	153.337	-37.00	mg/L
	U	238	666.713	666.71	mg/L
					mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		136.729			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		101.695			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		95.733			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		89.840			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		91.385			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		136.729			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543315
Report Date/Time: Thursday, May 24, 2001 18:38:35

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543316

Sample Date/Time: Thursday, May 24, 2001 18:42:55
Number of Replicates: 3
Allquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.299	7683.99				ug/L
⌈	Be	9	33.367	-0.00	-0.0908	0.404	445.056	ug/L
|	Al	27	7041123.292	13.97	2500.1852	112.924	4.517	ug/L
⌊>	Sc-1	45	504228.784	504228.78				ug/L
⌈	V	51	50611.271	0.04	8.8323	0.726	8.221	ug/L
|	Cr	52	37905.002	0.02	5.5753	0.325	5.826	ug/L
|	Cr	53	3334.314	-0.02	-54.2231	4.280	7.893	ug/L
|	Mn	55	44114.008	0.04	5.4334	0.506	9.309	ug/L
|	Co	59	2669.843	0.00	0.4037	0.070	17.386	ug/L
|	Ni	60	4005.147	0.00	2.8546	0.486	17.020	ug/L
|	Cu	65	3237.307	0.00	2.1080	0.185	8.778	ug/L
|	Zn	66	39442.699	0.04	38.4023	3.344	8.708	ug/L
|>	Ge	72	1044639.833	1044639.83				ug/L
|	As	75	1398.451	0.00	1.0646	0.010	0.918	ug/L
|	Se	77	216.003	-0.00	-3.8976	0.225	5.778	ug/L
⌊	Se	82	172.881	0.00	0.2599	0.036	13.718	ug/L
	Y	89	844428.059	5188.27				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0002	0.012	5866.804	ug/L
|	Cd	114	45.164	0.00	0.0091	0.004	41.860	ug/L
|>	In	115	873212.177	873212.18				ug/L
⌊	Sb	123	4176.034	0.00	1.5163	0.055	3.601	ug/L
⌈	Ba	135	5107.009	0.01	5.3232	1.251	23.497	ug/L
|	Ce	140	51522.058	0.06				ug/L
⌊>	Tb	159	805346.077	805346.08				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	104.002	8.67	0.0020	0.002	100.590	ug/L
|	Tl	205	273.008	80.34	0.0078	0.004	54.132	ug/L
|	Pb	206	15020.611	14970.61	3.9649	0.025	0.633	ug/L
|	Pb	207	12959.710	12923.04	3.9892	0.075	1.869	ug/L
|	Pb	208	60021.352	59846.01	4.0306	0.012	0.299	ug/L
⌊>	Bi	209	721942.658	721942.66				ug/L
⌈	Na	23	180950015.580	360.19	81.5703	8.162	10.006	mg/L
|	Mg	24	1077646.468	2.14	0.6301	0.036	5.753	mg/L
|	K	39	6939991.519	12.27	1.0200	0.209	20.486	mg/L
|	Ca	43	17354.499	0.03	1.6277	0.109	6.676	mg/L
|	Fe	54	680737.075	1.26	1.2468	0.093	7.444	mg/L
|	Fe	57	260326.038	0.50	1.0853	0.083	7.602	mg/L

>	Sc	45	504228.784	504228.78	mg/L
	Cl	35	332575.826	-305994.75	mg/L
	Kr	83	140.336	-50.00	mg/L
	U	238	2000.420	2000.42	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		135.752			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		103.206			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		96.413			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		88.354			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		90.931			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		135.752			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543316
Report Date/Time: Thursday, May 24, 2001 18:43:45

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540411

Sample Date/Time: Thursday, May 24, 2001 18:48:05
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23707.128	12030.82				ug/L
⌈	Be	9	0.000	-0.00	-0.3242	0.000	0.000	ug/L
|	Al	27	112221.381	0.23	41.5300	8.486	20.432	ug/L
L>	Sc-1	45	461460.656	461460.66				ug/L
⌈	V	51	5321.105	0.00	0.3279	0.129	39.315	ug/L
|	Cr	52	15265.036	0.00	0.7644	0.418	54.725	ug/L
|	Cr	53	666.760	-0.03	-59.7414	2.455	4.109	ug/L
|	Mn	55	4439.191	0.00	0.3774	0.122	32.211	ug/L
|	Co	59	900.971	0.00	0.1283	0.085	66.188	ug/L
|	Ni	60	166.837	0.00	0.0979	0.113	115.036	ug/L
|	Cu	65	233.572	0.00	0.1342	0.102	76.189	ug/L
|	Zn	66	10342.559	0.01	10.3144	6.137	59.499	ug/L
| >	Ge	72	1022245.376	1022245.38				ug/L
|	As	75	103.481	-0.00	-0.0699	0.034	47.997	ug/L
|	Se	77	130.668	-0.00	-4.7824	0.109	2.279	ug/L
L	Se	82	118.640	-0.00	-0.1680	0.028	16.483	ug/L
	Y	89	795657.987	-43581.80				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0150	0.022	146.365	ug/L
|	Cd	114	35.401	0.00	0.0057	0.007	130.912	ug/L
| >	In	115	864988.369	864988.37				ug/L
L	Sb	123	170.975	0.00	0.0552	0.006	10.295	ug/L
⌈	Ba	135	300.308	0.00	0.2835	0.183	64.726	ug/L
|	Ce	140	333.357	0.00				ug/L
L>	Tb	159	810154.627	810154.63				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	26.667	-68.67	-0.0155	0.001	3.363	ug/L
|	Tl	205	51.667	-141.00	-0.0137	0.000	2.491	ug/L
|	Pb	206	360.046	310.04	0.0821	0.026	31.109	ug/L
|	Pb	207	303.370	266.70	0.0823	0.014	16.910	ug/L
|	Pb	208	1435.465	1260.12	0.0849	0.005	6.315	ug/L
L>	Bi	209	739925.737	739925.74				ug/L
⌈	Na	23	354242.783	0.76	0.1722	0.013	7.448	mg/L
|	Mg	24	141427.350	0.31	0.0902	0.022	24.094	mg/L
|	K	39	809435.116	0.16	0.0133	0.003	24.282	mg/L
|	Ca	43	3667.624	0.01	0.3755	0.055	14.579	mg/L
|	Fe	54	143705.791	0.22	0.2183	0.066	30.367	mg/L
|	Fe	57	13680.705	0.01	0.0261	0.024	90.478	mg/L

>	Sc	45	461460.656	461460.66	
	Cl	35	65975.224	-572595.35	mg/L
	Kr	83	146.670	-43.67	mg/L
	U	238	0.000	0.00	mg/L
					mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		124.238			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		100.994			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		95.505			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		88.882			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		93.196			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		124.238			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411
Report Date/Time: Thursday, May 24, 2001 18:48:55

Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Sample ID: 0540411
Report Date/Time: Thursday, May 24, 2001 18:48:55
Page 3

Method 6020 - Summary Report

Sample ID: ICSA

Sample Date/Time: Thursday, May 24, 2001 18:53:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.012	3673.70				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	68408233.947	157.78	11291.4342	1092.295	9.674	ug/L
|>	Sc-1	45	434147.523	434147.52				ug/L
⌈	V	51	2527.251	-0.00	-0.0857	0.182	211.878	ug/L
|	Cr	52	16970.450	0.00	0.4260	0.089	20.975	ug/L
|	Cr	53	5002.078	-0.02	-20.2545	2.275	11.233	ug/L
|	Mn	55	5006.795	0.00	0.1753	0.045	25.789	ug/L
|	Co	59	1568.424	0.00	0.0926	0.040	43.043	ug/L
|	Ni	60	2336.117	0.00	0.6582	0.326	49.488	ug/L
|	Cu	65	1034.443	0.00	0.2640	0.035	13.302	ug/L
|	Zn	66	5002.078	0.00	1.9430	1.019	52.451	ug/L
|>	Ge	72	1043689.910	1043689.91				ug/L
|	As	75	216.204	0.00	0.0109	0.025	229.596	ug/L
|	Se	77	601.359	0.00	0.1056	0.277	262.036	ug/L
⌊	Se	82	131.213	-0.00	-0.0331	0.056	170.655	ug/L
	Y	89	830056.530	-9183.26				ug/L
⌈	Rh	103	100.102	0.00				ug/L
|	Ag	107	200.206	0.00	0.0149	0.023	156.904	ug/L
|	Cd	114	2559.618	0.00	0.3736	0.010	2.719	ug/L
|>	In	115	856024.827	856024.83				ug/L
⌊	Sb	123	813.735	0.00	0.1180	0.001	0.732	ug/L
⌈	Ba	135	367.044	0.00	0.1480	0.062	41.915	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	765740.670	765740.67				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	67.334	-28.00	-0.0025	0.000	4.124	ug/L
|	Tl	205	163.337	-29.33	-0.0011	0.000	37.552	ug/L
|	Pb	206	1180.216	1130.21	0.1197	0.013	11.054	ug/L
|	Pb	207	870.141	833.47	0.1029	0.020	19.051	ug/L
|	Pb	208	4344.749	4169.41	0.1123	0.006	5.700	ug/L
⌊>	Bi	209	732242.350	732242.35				ug/L
⌈	Na	23	146860478.867	338.04	30.6212	0.924	3.016	mg/L
|	Mg	24	42357635.304	97.66	11.5053	0.535	4.650	mg/L
|	K	39	131816554.083	301.97	10.0443	0.264	2.632	mg/L
|	Ca	43	724021.977	1.67	31.5199	1.112	3.530	mg/L
|	Fe	54	23565670.368	54.21	21.4694	0.736	3.426	mg/L
|	Fe	57	10015472.321	23.06	20.0286	0.791	3.950	mg/L

>	Sc	45	434147.523	434147.52	mg/L
	Cl	35	6476681.518	5838110.94	mg/L
	Kr	83	171.004	-19.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		116.884			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.112			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		94.515			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		84.009			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		92.228			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		116.884			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSA
Report Date/Time: Thursday, May 24, 2001 18:54:05

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
K 39 Upper, S, EEE	K	39
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Thursday, May 24, 2001 18:58:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16352.138	4675.83				ug/L
⌈	Be	9	33.367	-0.00	-0.0175	0.194	1107.225	ug/L
|	Al	27	66840136.894	158.63	11352.3286	1817.549	16.010	ug/L
⌊>	Sc-1	45	424632.031	424632.03				ug/L
⌈	V	51	295465.446	0.28	22.3468	0.826	3.697	ug/L
|	Cr	52	264051.853	0.25	22.1333	0.341	1.541	ug/L
|	Cr	53	35758.022	0.01	5.8899	5.824	98.872	ug/L
|	Mn	55	400694.156	0.39	20.7420	0.608	2.934	ug/L
|	Co	59	303269.718	0.29	19.3464	0.248	1.280	ug/L
|	Ni	60	65935.828	0.06	19.2464	0.918	4.767	ug/L
|	Cu	65	71224.306	0.07	19.0492	0.433	2.274	ug/L
|	Zn	66	24375.524	0.02	9.6535	1.481	15.339	ug/L
|>	Ge	72	1027921.553	1027921.55				ug/L
|	As	75	25671.692	0.02	9.0957	0.144	1.582	ug/L
|	Se	77	2587.802	0.00	8.8333	0.279	3.155	ug/L
⌊	Se	82	2812.312	0.00	9.0150	0.252	2.797	ug/L
	Y	89	806258.343	-32981.44				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	54125.124	0.06	4.7336	0.236	4.989	ug/L
|	Cd	114	66563.640	0.08	9.7105	0.141	1.451	ug/L
|>	In	115	862923.349	862923.35				ug/L
⌊	Sb	123	792.235	0.00	0.1139	0.005	4.025	ug/L
⌈	Ba	135	333.677	0.00	0.1346	0.089	66.361	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	767253.142	767253.14				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	65.668	-29.67	-0.0027	0.000	17.297	ug/L
|	Tl	205	142.336	-50.34	-0.0020	0.001	30.928	ug/L
|	Pb	206	1240.233	1190.23	0.1261	0.016	12.718	ug/L
|	Pb	207	956.826	920.16	0.1136	0.002	1.660	ug/L
|	Pb	208	4555.139	4379.80	0.1180	0.005	4.554	ug/L
⌊>	Bi	209	733591.249	733591.25				ug/L
⌈	Na	23	137046824.359	324.87	29.4286	3.992	13.565	mg/L
|	Mg	24	42357635.304	100.77	11.8716	2.462	20.735	mg/L
|	K	39	138972969.454	326.59	10.8632	0.641	5.904	mg/L
|	Ca	43	681008.455	1.61	30.4458	2.548	8.368	mg/L
|	Fe	54	22105602.834	52.11	20.6367	1.587	7.692	mg/L
⌊	Fe	57	9764346.908	23.06	20.0260	1.705	8.512	mg/L

>	Sc	45	424632.031	424632.03	
	Cl	35	6377930.853	5739360.28	mg/L
	Kr	83	165.004	-25.33	mg/L
	U	238	0.000	0.00	mg/L
					mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌜	Be	9					
|	Al	27					
>	Sc-1	45		114.322			
⌜	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		101.554			
|	As	75					
|	Se	77					
⌞	Se	82					
	Y	89					
⌜	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		95.277			
⌞	Sb	123					
⌜	Ba	135					
|	Ce	140					
>	Tb	159		84.175			
⌜	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		92.398			
⌜	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		114.322			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSAB
Report Date/Time: Thursday, May 24, 2001 18:59:15

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
K 39 Upper, S, EEE	K	39
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Thursday, May 24, 2001 19:03:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17354.406	5678.09				ug/L
⌈	Be	9	16234.820	0.03	46.9697	5.776	12.297	ug/L
|	Al	27	319742.083	0.63	45.2969	8.283	18.285	ug/L
⌊>	Sc-1	45	498141.679	498141.68				ug/L
⌈	V	51	787792.344	0.69	54.2766	1.402	2.583	ug/L
|	Cr	52	678086.600	0.59	52.7943	2.778	5.262	ug/L
|	Cr	53	81807.081	0.04	38.3847	10.837	28.234	ug/L
|	Mn	55	1083837.319	0.95	50.8518	2.136	4.200	ug/L
|	Co	59	820926.300	0.72	47.3699	1.587	3.350	ug/L
|	Ni	60	175641.551	0.15	46.4134	2.828	6.093	ug/L
|	Cu	65	192997.685	0.17	46.6904	1.988	4.258	ug/L
|	Zn	66	140032.064	0.12	50.1928	4.916	9.794	ug/L
|>	Ge	72	1137342.474	1137342.47				ug/L
|	As	75	134810.303	0.12	43.4662	3.040	6.994	ug/L
|	Se	77	11606.092	0.01	43.4385	2.387	5.495	ug/L
⌊	Se	82	14514.548	0.01	43.8108	2.579	5.886	ug/L
	Y	89	868483.908	29244.12				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	573748.325	0.61	45.9430	3.079	6.703	ug/L
|	Cd	114	340476.523	0.36	45.4779	3.017	6.635	ug/L
|>	In	115	944537.383	944537.38				ug/L
⌊	Sb	123	322700.161	0.34	43.6221	2.947	6.756	ug/L
⌈	Ba	135	108492.821	0.13	43.2719	3.149	7.276	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	851800.694	851800.69				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510428.182	510332.85	46.0174	0.821	1.785	ug/L
|	Tl	205	1284307.851	1284115.18	49.8389	1.397	2.802	ug/L
|	Pb	206	472614.808	472564.80	50.0631	1.943	3.880	ug/L
|	Pb	207	362742.737	362706.07	44.7853	2.000	4.465	ug/L
|	Pb	208	1767282.229	1767106.89	47.6050	1.720	3.613	ug/L
⌊>	Bi	209	820544.577	820544.58				ug/L
⌈	Na	23	27891439.128	55.96	5.0692	0.160	3.159	mg/L
|	Mg	24	20675936.337	41.44	4.8824	0.232	4.758	mg/L
|	K	39	72949266.358	145.45	4.8381	0.722	14.930	mg/L
|	Ca	43	119334.029	0.24	4.5190	0.417	9.233	mg/L
|	Fe	54	4857343.313	9.68	3.8343	0.295	7.704	mg/L
|	Fe	57	2138259.024	4.29	3.7230	0.383	10.299	mg/L

>	Sc	45	498141.679	498141.68	mg/L
	Cl	35	78092.946	-560477.63	mg/L
	Kr	83	153.670	-36.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		134.113			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		112.365			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		104.288			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		93.451			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		103.350			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		134.113			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV
Report Date/Time: Thursday, May 24, 2001 19:04:25

Sc-1 45 Int Std for sanSc-1	45
Sc 45 Int Std for sampSc	45

Sample ID: CCV
Report Date/Time: Thursday, May 24, 2001 19:04:25
Page 3

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Thursday, May 24, 2001 19:08:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23373.117	11696.81				ug/L
⌈	Be	9	33.367	-0.00	-0.0141	0.200	1417.597	ug/L
|	Al	27	3667.717	-0.00	-0.2705	0.297	109.795	ug/L
⌊>	Sc-1	45	427821.598	427821.60				ug/L
⌈	V	51	4244.119	0.00	0.0360	0.154	427.919	ug/L
|	Cr	52	14663.064	0.00	0.2078	0.082	39.489	ug/L
|	Cr	53	3667.810	-0.02	-21.4218	1.781	8.313	ug/L
|	Mn	55	200.203	-0.00	-0.0708	0.005	7.383	ug/L
|	Co	59	100.101	-0.00	-0.0003	0.006	2077.737	ug/L
|	Ni	60	33.367	-0.00	-0.0002	0.017	6698.153	ug/L
|	Cu	65	66.734	0.00	0.0083	0.015	180.885	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1058596.667	1058596.67				ug/L
|	As	75	147.482	-0.00	-0.0141	0.008	58.677	ug/L
|	Se	77	156.668	-0.00	-1.8227	0.118	6.494	ug/L
⌊	Se	82	114.886	-0.00	-0.0937	0.033	35.465	ug/L
	Y	89	857693.735	18453.95				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0028	0.000	0.000	ug/L
|	Cd	114	20.040	0.00	0.0000	0.001	31713.709	ug/L
|>	In	115	877344.370	877344.37				ug/L
⌊	Sb	123	1002.131	0.00	0.1424	0.013	9.110	ug/L
⌈	Ba	135	66.734	0.00	0.0149	0.024	159.777	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	805168.388	805168.39				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	42.667	-52.67	-0.0047	0.001	12.642	ug/L
|	Tl	205	88.668	-104.00	-0.0040	0.000	10.100	ug/L
|	Pb	206	66.674	16.67	0.0018	0.001	69.282	ug/L
|	Pb	207	80.008	43.34	0.0054	0.000	0.000	ug/L
|	Pb	208	254.351	79.01	0.0021	0.000	10.152	ug/L
⌊>	Bi	209	755549.157	755549.16				ug/L
⌈	Na	23	9339.451	0.01	0.0012	0.000	21.767	mg/L
|	Mg	24	1666.877	0.00	0.0002	0.000	58.595	mg/L
|	K	39	683214.264	0.00	0.0002	0.002	1367.680	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	54801.001	0.04	0.0145	0.010	68.379	mg/L
|	Fe	57	6336.578	-0.00	-0.0024	0.007	298.187	mg/L

> Sc	45	427821.598	427821.60		
Cl	35	32407.683	-606162.89		mg/L
Kr	83	172.670	-17.67		mg/L
U	238	333.357	333.36		mg/L
					mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		115.181			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.585			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		96.869			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		88.335			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		95.164			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		115.181			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB
Report Date/Time: Thursday, May 24, 2001 19:09:31

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, May 24, 2001 19:13:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.598	6347.29				ug/L
⌈	Be	9	33.367	-0.00	-0.0079	0.211	2655.261	ug/L
|	Al	27	69192282.473	161.70	11572.2924	950.075	8.210	ug/L
|>	Sc-1	45	429583.540	429583.54				ug/L
⌈	V	51	3576.163	-0.00	-0.0073	0.073	991.951	ug/L
|	Cr	52	15498.949	0.00	0.3035	0.040	13.153	ug/L
|	Cr	53	3667.624	-0.02	-21.3871	0.483	2.257	ug/L
|	Mn	55	5975.157	0.00	0.2257	0.029	13.036	ug/L
|	Co	59	1968.937	0.00	0.1176	0.050	42.912	ug/L
|	Ni	60	2102.423	0.00	0.5981	0.149	24.849	ug/L
|	Cu	65	1167.939	0.00	0.3006	0.121	40.355	ug/L
|	Zn	66	3334.220	0.00	1.3048	0.598	45.838	ug/L
|>	Ge	72	1039691.878	1039691.88				ug/L
|	As	75	202.031	0.00	0.0063	0.031	491.569	ug/L
|	Se	77	506.018	-0.00	-0.2987	0.087	28.963	ug/L
⌊	Se	82	123.626	-0.00	-0.0573	0.064	112.430	ug/L
	Y	89	842679.702	3439.92				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	66.734	0.00	0.0030	0.010	336.416	ug/L
|	Cd	114	2580.915	0.00	0.3679	0.012	3.334	ug/L
|>	In	115	876477.239	876477.24				ug/L
⌊	Sb	123	1102.189	0.00	0.1571	0.003	2.076	ug/L
⌈	Ba	135	200.203	0.00	0.0797	0.049	61.825	ug/L
|	Ce	140	666.713	0.00				ug/L
|>	Tb	159	745324.638	745324.64				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	81.335	-14.00	-0.0013	0.001	46.474	ug/L
|	Tl	205	162.003	-30.67	-0.0012	0.001	54.467	ug/L
|	Pb	206	1110.198	1060.19	0.1123	0.010	8.491	ug/L
|	Pb	207	880.143	843.47	0.1041	0.011	10.868	ug/L
|	Pb	208	4346.086	4170.74	0.1124	0.002	1.764	ug/L
|>	Bi	209	742840.459	742840.46				ug/L
⌈	Na	23	141351058.793	329.41	29.8392	4.920	16.488	mg/L
|	Mg	24	40138021.227	93.52	11.0175	0.437	3.964	mg/L
|	K	39	128353772.452	298.63	9.9333	0.980	9.866	mg/L
|	Ca	43	688698.207	1.61	30.4882	3.373	11.062	mg/L
|	Fe	54	23041472.390	53.85	21.3259	2.473	11.597	mg/L
|	Fe	57	9476291.289	22.16	19.2471	2.544	13.216	mg/L

>	Sc	45	429583.540	429583.54	mg/L
	Cl	35	6166808.743	5528238.17	mg/L
	Kr	83	174.004	-16.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	115.723				
>	Sc-1	45		115.655			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		102.717			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		96.773			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		81.769			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		93.563			
	Na	23	119.357				
	Mg	24	110.175				
	K	39	99.333				
	Ca	43	101.627				
	Fe	54	85.304				
	Fe	57	76.989				
>	Sc	45		115.655			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Thursday, May 24, 2001 19:14:41

QC Std 4	Fe	57	ICSA is out of limits (+/-20%)

Sample ID: QC Std 4
Report Date/Time: Thursday, May 24, 2001 19:14:41
Page 3

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, May 24, 2001 19:19:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.899	5010.59				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	66448112.630	159.98	11448.9019	462.603	4.041	ug/L
⌊>	Sc-1	45	415406.362	415406.36				ug/L
⌈	V	51	288851.822	0.28	21.9661	1.898	8.642	ug/L
|	Cr	52	254890.519	0.24	21.4236	0.576	2.686	ug/L
|	Cr	53	32742.115	0.00	3.4118	2.504	73.391	ug/L
|	Mn	55	388394.490	0.38	20.2046	0.842	4.169	ug/L
|	Co	59	305634.661	0.30	19.5939	0.517	2.636	ug/L
|	Ni	60	69539.732	0.07	20.4115	1.210	5.928	ug/L
|	Cu	65	74462.182	0.07	19.9982	1.593	7.968	ug/L
|	Zn	66	25713.349	0.03	10.2473	1.432	13.977	ug/L
|>	Ge	72	1023266.781	1023266.78				ug/L
|	As	75	25641.764	0.02	9.1268	0.154	1.689	ug/L
|	Se	77	2587.136	0.00	8.8821	0.755	8.504	ug/L
⌊	Se	82	2822.404	0.00	9.0931	0.241	2.647	ug/L
	Y	89	796429.733	-42810.05				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	56344.523	0.07	4.9494	0.307	6.208	ug/L
|	Cd	114	66853.129	0.08	9.7948	0.205	2.089	ug/L
|>	In	115	859414.108	859414.11				ug/L
⌊	Sb	123	904.292	0.00	0.1310	0.003	2.440	ug/L
⌈	Ba	135	300.307	0.00	0.1179	0.042	35.454	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	777837.206	777837.21				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	71.668	-23.67				ug/L
|	Tl	205	158.670	-34.00	-0.0021	0.001	52.831	ug/L
|	Pb	206	1063.519	1013.51	-0.0013	0.001	38.386	ug/L
|	Pb	207	960.161	923.49	0.1074	0.009	8.394	ug/L
|	Pb	208	4395.764	4220.42	0.1140	0.007	6.030	ug/L
⌊>	Bi	209	736708.197	736708.20	0.1137	0.002	1.844	ug/L
⌈	Na	23	135152961.209	325.26				ug/L
|	Mg	24	41062860.425	98.88	29.4632	0.891	3.024	mg/L
|	K	39	125121842.930	299.54	11.6487	0.328	2.817	mg/L
|	Ca	43	638360.890	1.54	9.9636	0.635	6.373	mg/L
|	Fe	54	22883424.726	55.03	29.0639	1.568	5.396	mg/L
|	Fe	57	9247324.001	22.25	21.7930	1.381	6.339	mg/L
					19.3250	0.652	3.375	mg/L

|> Sc	45	415406.362	415406.36		
Cl	35	6279180.189	5640609.61		mg/L
Kr	83	185.004	-5.33		mg/L
U	238	0.000	0.00		mg/L
					mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	114.489				
Sc-1	45		111.838			
V	51	109.831				
Cr	52	107.118				
Cr	53	17.059				
Mn	55	101.023				
Co	59	97.970				
Ni	60	102.058				
Cu	65	99.991				
Zn	66	102.473				
Ge	72		101.095			
As	75	91.268				
Se	77	88.821				
Se	82	90.931				
Y	89					
Rh	103					
Ag	107	98.988				
Cd	114	97.948				
In	115		94.889			
Sb	123					
Ba	135					
Ce	140					
Tb	159		85.336			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		92.791			
Na	23	117.853				
Mg	24	116.487				
K	39	99.636				
Ca	43	96.880				
Fe	54	87.172				
Fe	57	77.300				
Sc	45		111.838			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Thursday, May 24, 2001 19:19:51

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	57	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2001 19:24:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21367.691	9691.38				ug/L
⌈	Be	9	16067.514	0.03	48.9975	2.593	5.292	ug/L
|	Al	27	310967.548	0.65	46.2723	1.240	2.681	ug/L
⌊>	Sc-1	45	471761.371	471761.37				ug/L
⌈	V	51	748589.405	0.71	55.5204	1.865	3.359	ug/L
|	Cr	52	667981.640	0.62	56.0209	0.796	1.420	ug/L
|	Cr	53	91586.382	0.06	51.1133	5.536	10.830	ug/L
|	Mn	55	1085292.884	1.03	54.8043	2.535	4.625	ug/L
|	Co	59	832818.121	0.79	51.7333	2.487	4.807	ug/L
|	Ni	60	172907.494	0.16	49.1679	2.481	5.046	ug/L
|	Cu	65	203320.418	0.19	52.9537	1.308	2.470	ug/L
|	Zn	66	128495.503	0.12	49.5476	7.386	14.906	ug/L
|>	Ge	72	1056101.097	1056101.10				ug/L
|	As	75	137445.469	0.13	47.6756	0.699	1.467	ug/L
|	Se	77	11754.999	0.01	47.5675	1.168	2.456	ug/L
⌊	Se	82	14829.786	0.01	48.2105	1.192	2.472	ug/L
	Y	89	838513.296	-726.49				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	592645.321	0.66	49.8842	1.666	3.339	ug/L
|	Cd	114	350769.828	0.39	49.2512	1.680	3.412	ug/L
|>	In	115	897420.012	897420.01				ug/L
⌊	Sb	123	336438.531	0.38	47.7977	1.278	2.674	ug/L
⌈	Ba	135	106189.152	0.13	42.9519	3.943	9.179	ug/L
|	Ce	140	666.713	0.00				ug/L
⌊>	Tb	159	840522.292	840522.29				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	522069.332	521974.00	47.0671	0.673	1.431	ug/L
|	Tl	205	1310463.104	1310270.43	50.8541	0.995	1.958	ug/L
|	Pb	206	489846.322	489796.32	51.8886	1.265	2.438	ug/L
|	Pb	207	368958.899	368922.23	45.5529	1.912	4.198	ug/L
|	Pb	208	1813283.773	1813108.43	48.8443	0.813	1.665	ug/L
⌊>	Bi	209	766424.443	766424.44				ug/L
⌈	Na	23	27202761.619	57.71	5.2280	0.242	4.633	mg/L
|	Mg	24	19586360.156	41.53	4.8929	0.145	2.964	mg/L
|	K	39	67870519.966	142.20	4.7299	0.288	6.097	mg/L
|	Ca	43	103072.067	0.22	4.1359	0.181	4.365	mg/L
|	Fe	54	4906885.939	10.31	4.0839	0.128	3.131	mg/L
|	Fe	57	2007423.256	4.24	3.6841	0.289	7.857	mg/L

└> Sc	45	471761.371	471761.37		
Cl	35	85515.095	-553055.48		mg/L
Kr	83	152.336	-38.00		mg/L
U	238	0.000	0.00		mg/L
					mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
┌ Be	9	97.995				
│ Al	27	92.545				
└> Sc-1	45		127.011			
┌ V	51	111.041				
│ Cr	52	112.042				
│ Cr	53	102.227				
│ Mn	55	109.609				
│ Co	59	103.467				
│ Ni	60	98.336				
│ Cu	65	105.907				
│ Zn	66	99.095				
│> Ge	72		104.338			
│ As	75	95.351				
│ Se	77	95.135				
└ Se	82	96.421				
Y	89					
┌ Rh	103					
│ Ag	107	99.768				
│ Cd	114	98.502				
│> In	115		99.086			
└ Sb	123	95.595				
┌ Ba	135	85.904				
│ Ce	140					
└> Tb	159		92.213			
┌ Ho	165					
│ Tl	203	94.134				
│ Tl	205	101.708				
│ Pb	206	103.777				
│ Pb	207	91.106				
│ Pb	208	97.689				
└> Bi	209		96.534			
┌ Na	23	104.559				
│ Mg	24	97.859				
│ K	39	94.599				
│ Ca	43	82.717				
│ Fe	54	81.678				
│ Fe	57	73.682				
└> Sc	45		127.011			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, May 24, 2001 19:25:00

Sc-1 45 Int Std for QC	Sc-1	45	
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Ba	135	CCV is out of limits (+/-10%)
Sc 45 Int Std for QC S	Sc	45	

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2001 19:29:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\etandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19361.423	7685.11				ug/L
⌈	Be	9	0.000	-0.00	-0.1297	0.000	0.000	ug/L
|	Al	27	4001.307	-0.00	-0.2430	0.331	136.162	ug/L
⌊>	Sc-1	45	434194.126	434194.13				ug/L
⌈	V	51	4634.224	0.00	0.0717	0.084	117.128	ug/L
|	Cr	52	13392.663	0.00	0.1175	0.100	85.040	ug/L
|	Cr	53	3000.957	-0.03	-21.9603	2.210	10.065	ug/L
|	Mn	55	634.001	-0.00	-0.0486	0.018	36.678	ug/L
|	Co	59	33.367	-0.00	-0.0044	0.004	82.934	ug/L
|	Ni	60	0.000	-0.00	-0.0099	0.000	0.000	ug/L
|	Cu	65	166.836	0.00	0.0350	0.031	87.221	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
\>	Ge	72	1041855.578	1041855.58				ug/L
|	As	75	168.999	-0.00	-0.0057	0.022	394.362	ug/L
|	Se	77	146.668	-0.00	-1.8542	0.130	7.019	ug/L
⌊	Se	82	129.959	-0.00	-0.0372	0.029	79.337	ug/L
	Y	89	797182.175	-42057.61				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	0.00	0.0002	0.005	2819.516	ug/L
|	Cd	114	19.656	-0.00	-0.0001	0.001	2346.476	ug/L
\>	In	115	870378.558	870378.56				ug/L
⌊	Sb	123	972.265	0.00	0.1391	0.006	4.361	ug/L
⌈	Ba	135	0.000	-0.00	-0.0124	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	760501.712	760501.71				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	46.001	-49.33	-0.0044	0.001	18.017	ug/L
|	Tl	205	105.002	-87.67	-0.0034	0.001	19.053	ug/L
|	Pb	206	46.672	-3.33	-0.0004	0.002	692.824	ug/L
|	Pb	207	50.005	13.33	0.0016	0.003	198.431	ug/L
|	Pb	208	200.679	25.33	0.0007	0.001	124.973	ug/L
⌊>	Bi	209	753904.134	753904.13				ug/L
⌈	Na	23	11009.365	0.02	0.0015	0.001	57.576	mg/L
|	Mg	24	333.357	-0.00	-0.0001	0.000	134.266	mg/L
|	K	39	814267.246	0.29	0.0097	0.007	70.355	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	43431.300	0.01	0.0037	0.015	407.030	mg/L
|	Fe	57	9673.415	0.00	0.0040	0.006	140.389	mg/L

└> Sc	45	434194.126	434194.13		
Cl	35	40113.208	-598457.37		mg/L
Kr	83	143.336	-47.00		mg/L
U	238	0.000	0.00		mg/L
					mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
┌ Be	9					
│ Al	27					
└> Sc-1	45		116.897			
┌ V	51					
│ Cr	52					
│ Cr	53					
│ Mn	55					
│ Co	59					
│ Ni	60					
│ Cu	65					
│ Zn	66					
│> Ge	72		102.931			
│ As	75					
│ Se	77					
└ Se	82					
Y	89					
┌ Rh	103					
│ Ag	107					
│ Cd	114					
│> In	115		96.100			
└ Sb	123					
┌ Ba	135					
│ Ce	140					
└> Tb	159		83.434			
┌ Ho	165					
│ Tl	203					
│ Tl	205					
│ Pb	206					
│ Pb	207					
│ Pb	208					
└> Bi	209		94.957			
┌ Na	23					
│ Mg	24					
│ K	39					
│ Ca	43					
│ Fe	54					
│ Fe	57					
└> Sc	45		116.897			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, May 24, 2001 19:30:06

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Metals

Date: 5/25/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: 98190, 98230

	Analyst
Calibration/Linearity	
ICV/CCV	
ICB/CCB	
icsa/icsab/cri	
Blank/LCS	
MS/MSD	
Postspike/Serial Dilution	
Duplicate	
Record Results	
Excel Spreadsheets	
Results Reporting / Data Qualifiers	
Calculations & Correct Factors	
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data OS-433 done	

Primary Reviewer Initials & Date Checked JYH 5/25/01

Secondary Reviewer Initials & Date Checked [illegible] 5/25/01

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST TVH DATE 5/25/01 TIME 9:44
METHOD # 6020A SOP # MC700 Rev # 1 WORK GROUP # 98230, 98190, 98247
CAL STD SOURCE MJ-9-50A ICV/CCV SOURCE MJ-10-218
ICS AB SOURCE MJ-9-42B ICS A SOURCE MJ-9-42A POST SPK SOURCE MS-1-8-6
Instrument ID: TJA IRIS: Data File: 052401 Perkin Elmer Optima: Perkin Elmer ELAN: —

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	50			
	1 1/10			
	2 1/5			
	3 x 2			
	ICV			
	ICB			
	ICSA			
	ICSAB			ICV/ICB
1.	PBW6P			WG98172-03
2.	SPLP BLK 5-24		40/50	
3.	LCSW6P	4		04
4.	05 50201	2		02
5.	01 DP			07
6.	04			01
7.	05			05
8.	06 SD			06
9.	04 PS			
10.	04 SDL	10		ICV/ICB
11.	02	2		
12.	03			
13.	07			
14.	08			
15.	09			
16.	10			
17.	11			
18.	05 52501			
19.	05 52601			
20.	05 40411			ICV/ICB
21.	05 43313			
22.	14			
23.	15			
24.	16			
25.	ICSA			
26.	ICSAB			ICV/ICB

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
27.	PBW62		40/50	WG97853-03
28.	SPLP BLK 5-20			
29.	LCSW62	4		04
30.	05 43317	2		02
31.	17DP			07
32.	18			01
33.	18S			05
34.	18SD			06
35.	05 40411 PS			
36.	11 SDL	10		
37.				
38.				
39.				
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58.				
59.				
60.				

Comments: Reviewed by:

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank

FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/25/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Antimony	0	13.638	10	71820	20	145284	100	726275			1.00000	
Selenium	0	115.52	10	3113.3	20	6152.8	100	29362.4			0.99998	
Thallium	0	98.002	10	110060	20	218616	100	1092392			1.00000	
Lead	0	191.34	10	378287	20	749071	100	3710913			1.00000	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 10:06 AM
CCV1 Time: 10:27 AM
CCV2 Time: 11:29 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.6	117.2	50	52.1	104.2	58.1	116.2	*
Antimony	50	49.0	98.0	50	47.4	94.8	47.7	95.4	
Arsenic	50	49.9	99.8	50	48.4	96.8	48.9	97.8	
Barium	50	53.8	107.6	50	52.7	105.4	50.3	100.6	
Beryllium	50	56.1	112.2	50	44.6	89.2	52.9	105.8	*
Cadmium	50	50.1	100.2	50	49.0	98.0	49.4	98.8	
Calcium	5000	5460	109.2	5000	6100	122.0	5620	112.4	*
Chromium	50	48.5	97.0	50	44.8	89.6	45.5	91.0	*
Cobalt	50	48.7	97.4	50	48.6	97.2	50.3	100.6	
Copper	50	49.1	98.2	50	47.2	94.4	47.6	95.2	
Iron	5000	5430	108.6	5000	4950	99.0	4800	96.0	
Lead	50	50.9	101.8	50	49.9	99.8	49.3	98.6	
Magnesium	5000	5010	100.2	5000	5100	102.0	5800	116.0	*
Manganese	50	49.7	99.4	50	50.4	100.8	51.7	103.4	
Nickel	50	50.0	100.0	50	48.2	96.4	51.2	102.4	
Potassium	5000	5290	105.8	5000	5020	100.4	5440	108.8	
Selenium	50	50.9	101.8	50	49.4	98.8	48.8	97.6	
Silver	50	50.6	101.2	50	49.4	98.8	49.1	98.2	
Sodium	5000	4370	87.4	5000	4840	96.8	5530	110.6	*
Thallium	50	50.1	100.2	50	49.3	98.6	48.0	96.0	
Vanadium	50	51.2	102.4	50	50.8	101.6	56.4	112.8	*
Zinc	50	50.8	101.6	50	47.5	95.0	50.7	101.4	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 10:06 AM
CCV1 Time: 12:30 PM
CCV2 Time: 1:12 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.6	117.2	50	55.3	110.6	62.3	124.6	*
Antimony	50	49.0	98.0	50	48.3	96.6	48.4	96.8	
Arsenic	50	49.9	99.8	50	47.9	95.8	48.4	96.8	
Barium	50	53.8	107.6	50	49.0	98.0	53.4	106.8	
Beryllium	50	56.1	112.2	50	54.7	109.4	59.2	118.4	*
Cadmium	50	50.1	100.2	50	50.1	100.2	49.5	99.0	
Calcium	5000	5460	109.2	5000	5060	101.2	5600	112.0	*
Chromium	50	48.5	97.0	50	45.4	90.8	51.3	102.6	
Cobalt	50	48.7	97.4	50	49.3	98.6	51.0	102.0	
Copper	50	49.1	98.2	50	50.0	100.0	50.0	100.0	
Iron	5000	5430	108.6	5000	4900	98.0	4760	95.2	
Lead	50	50.9	101.8	50	48.6	97.2	47.6	95.2	
Magnesium	5000	5010	100.2	5000	5920	118.4	6010	120.2	*
Manganese	50	49.7	99.4	50	52.3	104.6	54.7	109.4	
Nickel	50	50.0	100.0	50	51.4	102.8	52.0	104.0	
Potassium	5000	5290	105.8	5000	5210	104.2	6180	123.6	*
Selenium	50	50.9	101.8	50	48.0	96.0	49.1	98.2	
Silver	50	50.6	101.2	50	50.1	100.2	50.3	100.6	
Sodium	5000	4370	87.4	5000	5590	111.8	5830	116.6	*
Thallium	50	50.1	100.2	50	47.4	94.8	46.8	93.6	
Vanadium	50	51.2	102.4	50	57.6	115.2	57.9	115.8	*
Zinc	50	50.8	101.6	50	46.5	93.0	51.4	102.8	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Friday, May 25, 2001
UNITS:	ug/L
ICB Time:	10:12 AM
CCB1 Time:	10:32 AM
CCB2 Time:	11:34 AM
CCB3 Time:	12:35 PM

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	0.121	0.0189	-0.106	0.316
Antimony	0.154	0.131	0.156	0.15
Arsenic	0.0215	0.0162	-0.0039	0.0065
Barium	0.0456	-0.0166	-0.0023	0.0007
Beryllium	0	0	0	0
Cadmium	-0.0001	-0.0001	0.0007	0.0001
Calcium	-18.4	2.10	-1.70	-18.4
Chromium	-5.88	-5.42	-7.69	-8.9
Cobalt	-0.0001	-0.0021	0.002	-0.0021
Copper	-0.0001	-0.0169	-0.0005	-0.0169
Iron	5.80	3.30	-1.90	15.5
Lead	0.002	0.0012	0.0005	0.001
Magnesium	-0.40	0.10	-0.40	0
Manganese	-0.0318	-0.0389	-0.0426	-0.0423
Nickel	-0.01	0	-0.01	0.0001
Potassium	5.20	1.40	4.60	9.1
Selenium	-0.0245	0.0225	-0.0312	-0.0152
Silver	-0.0026	-0.0001	-0.0026	-0.0026
Sodium	0.50	-0.10	1.00	-0.1
Thallium	0.0006	-0.0003	-0.0049	-0.0049
Vanadium	0.0296	-0.0225	0.193	0.188
Zinc	0	0	0	0

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICB Time: 10:12 AM
CCB1 Time: 1:17 PM
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	0.121		-0.0961					
Antimony	0.154		0.153					
Arsenic	0.0215		0.0156					
Barium	0.0456		-0.0166					
Beryllium	0		0					
Cadmium	-0.0001		0.0011					
Calcium	-18.4		-18.4					
Chromium	-5.88		-8.12					
Cobalt	-0.0001		0.0021					
Copper	-0.0001		-0.0084					
Iron	5.80		7.60					
Lead	0.002		0.0017					
Magnesium	-0.40		-0.20					
Manganese	-0.0318		-0.0487					
Nickel	-0.01		-0.0001					
Potassium	5.20		8.40					
Selenium	-0.0245		-0.011					
Silver	-0.0026		0.0027					
Sodium	0.50		1.30					
Thallium	0.0006		-0.0027					
Vanadium	0.0296		0.339					
Zinc	0		0					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICSA Time: 10:17:14
ICSAB Time: 10:22:24

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	11800	12100.0	121.0	*
Antimony	0	0	0	0.1		
Arsenic	0	10	0	9.5	94.5	
Barium	0	0	0	0.1		
Beryllium	0	0	0	0.1		
Cadmium	0	10	0	9.8	98.4	
Calcium	30000	30000	32600	36200.0	120.7	*
Chromium	0	20	-1	19.9	99.5	
Cobalt	0	20	0	18.1	90.5	
Copper	0	20	0	19.3	96.5	
Iron	25000	25000	25700	26900.0	107.6	
Lead	0	0	0	0.1		
Magnesium	10000	10000	11600	11400.0	114.0	
Manganese	0	20	0	19.2	96.0	
Nickel	0	20	1	20.7	103.5	
Potassium	10000	10000	10600	11100.0	111.0	
Selenium	0	10	0	9.6	95.6	
Silver	0	5	0	4.5	90.2	
Sodium	25000	25000	25100	26500.0	106.0	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	20.2	101.0	
Zinc	0	10	2	9.9	99.3	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 5/21/2001

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	1	0.500
Arsenic	75	1	0.500
Cadmium	114	0.5	0.021
Chromium	52	4	0.793
Cobalt	59	0.8	0.043
Copper	65	2	0.181
Lead	208	1	0.500
Manganese	55	2	0.487
Nickel	60	2	0.063
Selenium	82	1	0.500
Silver	107	2	0.036
Thallium	203	0.2	0.100
Vanadium	51	5	0.471

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	578	2064	0.693	
Li	7.016	7.029	1582	2060	0.670	
Co	58.933	58.979	14270	1950	0.705	
In	114.904	114.879	27919	1939	0.710	
Tl	204.975	204.976	49691	2242	0.690	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.995	
3.000	0.391	
4.000	9.867	
5.000	28.582	
6.000	2.578	
7.000	2.596	✓
8.000	29.175	
9.000	59.284	
58.000	0.816	
59.000	1.150	✓
60.000	32.464	
114.000	2.182	
115.000	0.416	✓
116.000	21.492	
204.000	0.577	
205.000	0.603	✓
206.000	0.865	

Report Date/Time: Friday, May 25, 2001 09:07:32
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	580	2064	0.692	
Li	7.016	6.929	1562	2060	0.664	
Co	58.933	58.928	14268	1950	0.695	
In	114.904	114.929	27924	1939	0.715	
Tl	204.975	204.975	49691	2242	0.691	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.100
3.000	0.658
4.000	25.188
5.000	23.787
6.000	2.469
7.000	2.127 ✓
8.000	26.818
9.000	42.973
58.000	1.871
59.000	0.858 ✓
60.000	6.173
114.000	1.876
115.000	0.861 ✓
116.000	16.615
204.000	2.290
205.000	0.438 ✓
206.000	0.767

Report Date/Time: Friday, May 25, 2001 09:09:53
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	582	2064	0.706	
Li	7.016	7.079	1575	2060	0.679	
Co	58.933	58.928	14266	1950	0.700	
In	114.904	114.929	27930	1939	0.709	
Tl	204.975	204.976	49691	2242	0.689	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.733
3.000	0.784
4.000	24.765
5.000	43.257
6.000	1.286
7.000	1.180
8.000	43.189
9.000	48.287
58.000	1.756
59.000	0.897
60.000	9.443
114.000	1.609
115.000	0.982
116.000	12.252
204.000	3.047
205.000	0.848
206.000	0.498

Report Date/Time: Friday, May 25, 2001 09:12:00
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	584	2064	0.689	
Li	7.016	7.029	1577	2060	0.672	
Co	58.933	58.929	14264	1950	0.705	
In	114.904	114.829	27911	1939	0.716	
Tl	204.975	204.975	49691	2242	0.689	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	2.007
3.000	1.151
4.000	15.641
5.000	24.335
6.000	2.258
7.000	1.396
8.000	14.172
9.000	14.876
58.000	3.221
59.000	0.331
60.000	18.133
114.000	1.203
115.000	0.815
116.000	13.394
204.000	3.433
205.000	0.802
206.000	0.800

Report Date/Time: Friday, May 25, 2001 09:14:22
Page 1

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, May 25, 2001 09:16:55
Sample Description:
Method File: C:\elandata\Method\Service\6020 methods\6020 daily.mth
Dataset File: C:\elandata\Dataset\052401\Sample.114
Tuning File: C:\elandata\Tuning\010201.tun
Optimization File: c:\elandata\Optimize\6020.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 70
Current Dead Time (ns): 70

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	80411.7	80411.701	459.506	0.6
	Rh	102.9	347529.6	347529.580	2733.757	0.8
	Pb	208.0	283462.4	283462.429	3882.780	1.4
⌈>	Ba	137.9	362654.2	362654.193	1882.106	0.5
⌊	Ba++	69.0	9536.3	0.026	0.000	1.0
⌈>	Ce	139.9	435606.6	435606.621	2932.533	0.7
⌊	CeO	155.9	11480.8	0.026	0.001	2.2
	Bkgd	220.0	9.1	9.050	1.841	20.3

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
9.00	Lens Voltage
1450.00	ICP RF Power
-1850.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	53	6.3	16.0
Co	59	53	8.5	140737.9
Rh	103	53	9.5	290267.8
Pb	208	53	11.3	312869.4

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 25, 2001 09:44:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.689					ug/L
	Be	9	0.000					ug/L
	Al	27	3667.717					ug/L
>	Sc-1	45	399957.220					ug/L
	V	51	727.825					ug/L
	Cr	52	11922.035					ug/L
	Cr	53	12678.391					ug/L
	Mn	55	1301.444					ug/L
	Co	59	33.367					ug/L
	Ni	60	33.367					ug/L
	Cu	65	66.734					ug/L
	Zn	66	0.000					ug/L
>	Ge	72	1027879.878					ug/L
	As	75	85.393					ug/L
	Se	77	424.013					ug/L
	Se	82	115.524					ug/L
	Y	89	860629.064					ug/L
	Rh	103	0.000					ug/L
	Ag	107	33.367					ug/L
	Cd	114	15.202					ug/L
>	In	115	939271.459					ug/L
	Sb	123	13.638					ug/L
	Ba	135	33.367					ug/L
	Ce	140	0.000					ug/L
>	Tb	159	747511.083					ug/L
	Ho	165	0.000					ug/L
	Tl	203	98.002					ug/L
	Tl	205	235.340					ug/L
	Pb	206	60.006					ug/L
	Pb	207	23.336					ug/L
	Pb	208	191.344					ug/L
>	Bi	209	782895.914					ug/L
	Na	23	7337.910					mg/L
	Mg	24	1333.567					mg/L
	K	39	659441.332					mg/L
	Ca	43	333.357					mg/L
	Fe	54	31738.289					mg/L
	Fe	57	6669.842					mg/L

>	Sc	45	399957.220	mg/L
	Cl	35	439579.888	mg/L
	Kr	83	166.004	mg/L
	U	238	0.000	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, May 25, 2001 09:45:30

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 25, 2001 09:47:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11343.002	-4675.69				ug/L
	Be	9	2903.506	0.01	10.0000	2.042	20.415	ug/L
	Al	27	60280.432	0.16	10.0000	4.868	48.680	ug/L
>	Sc-1	45	360919.609	360919.61				ug/L
	V	51	134420.466	0.13	10.0000	0.387	3.870	ug/L
	Cr	52	128778.647	0.11	10.0000	0.635	6.349	ug/L
	Cr	53	31068.309	0.02	10.0000	2.620	26.196	ug/L
	Mn	55	190190.269	0.18	10.0000	0.446	4.459	ug/L
	Co	59	154849.867	0.15	10.0000	0.574	5.742	ug/L
	Ni	60	34920.097	0.03	10.0000	0.649	6.490	ug/L
	Cu	65	39682.835	0.04	10.0000	0.280	2.803	ug/L
	Zn	66	29730.297	0.03	10.0000	2.478	24.783	ug/L
>	Ge	72	1025924.847	1025924.85				ug/L
	As	75	28299.323	0.03	10.0000	0.339	3.388	ug/L
	Se	77	2688.506	0.00	10.0000	0.033	0.333	ug/L
	Se	82	3113.297	0.00	10.0000	0.256	2.557	ug/L
	Y	89	851215.890	-9413.17				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	127423.102	0.13	10.0000	0.655	6.555	ug/L
	Cd	114	75128.638	0.08	10.0000	0.143	1.427	ug/L
>	In	115	944171.229	944171.23				ug/L
	Sb	123	71820.376	0.08	10.0000	0.030	0.304	ug/L
	Ba	135	23763.301	0.03	10.0000	0.532	5.323	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	784959.309	784959.31				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	110060.272	109962.27	10.0000	0.111	1.109	ug/L
	Tl	205	272514.306	272278.97	10.0000	0.118	1.185	ug/L
	Pb	206	96193.103	96133.10	10.0000	0.196	1.960	ug/L
	Pb	207	82313.108	82289.77	10.0000	0.093	0.926	ug/L
	Pb	208	378287.287	378095.94	10.0000	0.091	0.907	ug/L
>	Bi	209	782169.555	782169.56				ug/L
	Na	23	4323054.677	12.03	1.0000	0.125	12.540	mg/L
	Mg	24	3230673.755	9.02	1.0000	0.191	19.148	mg/L
	K	39	11495713.602	30.28	1.0000	0.067	6.716	mg/L
	Ca	43	18693.823	0.05	1.0000	0.359	35.931	mg/L
	Fe	54	1018395.083	2.75	1.0000	0.064	6.421	mg/L
	Fe	57	397085.983	1.09	1.0000	0.045	4.513	mg/L

└>	Sc	45	360919.609	360919.61	mg/L
	Cl	35	310987.657	-128592.23	mg/L
	Kr	83	177.671	11.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, May 25, 2001 09:48:17

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 25, 2001 09:50:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.573	-668.12				ug/L
	Be	9	4773.062	0.01	19.4291	3.059	15.745	ug/L
	Al	27	113230.930	0.33	20.0349	2.511	12.533	ug/L
>	Sc-1	45	339220.256	339220.26				ug/L
	V	51	274563.837	0.27	20.1217	0.219	1.088	ug/L
	Cr	52	256961.734	0.24	20.2143	0.895	4.430	ug/L
	Cr	53	38442.130	0.03	18.4634	7.792	42.201	ug/L
	Mn	55	384459.603	0.38	20.0875	0.952	4.740	ug/L
	Co	59	304453.293	0.30	19.9627	0.843	4.225	ug/L
	Ni	60	66508.119	0.07	19.8341	1.279	6.450	ug/L
	Cu	65	80870.017	0.08	20.1104	1.612	8.014	ug/L
	Zn	66	51856.297	0.05	19.4447	2.636	13.557	ug/L
>	Ge	72	1018074.195	1018074.19				ug/L
	As	75	56294.939	0.06	20.0141	0.601	3.002	ug/L
	Se	77	4866.324	0.00	19.9577	0.821	4.115	ug/L
	Se	82	6152.754	0.01	20.0574	0.246	1.225	ug/L
	Y	89	899510.369	38881.31				ug/L
	Rh	103	333.676	0.00				ug/L
	Ag	107	256031.405	0.27	20.0538	1.226	6.114	ug/L
	Cd	114	150987.493	0.16	20.0520	0.498	2.483	ug/L
>	In	115	936813.969	936813.97				ug/L
	Sb	123	145283.750	0.16	20.0772	0.188	0.938	ug/L
	Ba	135	44348.223	0.06	19.8655	2.914	14.670	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	766357.044	766357.04				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	218615.662	218517.66	19.9743	0.139	0.697	ug/L
	Tl	205	545909.286	545673.95	20.0082	0.181	0.904	ug/L
	Pb	206	189383.395	189323.39	19.9380	0.254	1.272	ug/L
	Pb	207	161409.430	161386.09	19.9212	0.213	1.069	ug/L
	Pb	208	749070.642	748879.30	19.9610	0.119	0.596	ug/L
>	Bi	209	789119.753	789119.75				ug/L
	Na	23	8804827.603	25.92	2.0293	0.095	4.686	mg/L
	Mg	24	7027726.809	20.73	2.0531	0.092	4.478	mg/L
	K	39	20643228.410	59.33	1.9917	0.124	6.212	mg/L
	Ca	43	43131.280	0.13	2.0834	0.183	8.804	mg/L
	Fe	54	1969624.214	5.74	2.0174	0.135	6.680	mg/L
	Fe	57	822140.185	2.42	2.0418	0.231	11.329	mg/L

└>	Sc	45	339220.256	339220.26	mg/L
	Cl	35	254455.731	-185124.16	mg/L
	Kr	83	172.004	6.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Friday, May 25, 2001 09:51:05
Page 2

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 25, 2001 09:53:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15017.031	-1001.66				ug/L
[	Be	9	26643.374	0.07	99.8199	11.091	11.111	ug/L
|	Al	27	469693.087	1.23	98.4720	11.474	11.652	ug/L
>	Sc-1	45	381247.269	381247.27				ug/L
[	V	51	1286244.512	1.27	99.7435	4.587	4.599	ug/L
|	Cr	52	1156889.829	1.13	99.7388	2.074	2.080	ug/L
|	Cr	53	141728.883	0.13	99.6193	6.243	6.267	ug/L
|	Mn	55	1892730.746	1.87	99.9785	3.373	3.373	ug/L
|	Co	59	1575061.977	1.55	100.1688	3.661	3.655	ug/L
|	Ni	60	329628.279	0.33	99.9361	3.026	3.027	ug/L
|	Cu	65	388610.811	0.38	99.8536	3.405	3.410	ug/L
|	Zn	66	272439.849	0.27	100.1181	5.275	5.269	ug/L
>	Ge	72	1013677.236	1013677.24				ug/L
[	As	75	272801.564	0.27	99.8772	0.754	0.755	ug/L
|	Se	77	22553.551	0.02	99.9874	0.841	0.841	ug/L
|	Se	82	29362.362	0.03	99.8808	2.350	2.353	ug/L
|	Y	89	814643.417	-45985.65				ug/L
|	Rh	103	1234.690	0.00				ug/L
|	Ag	107	1263388.184	1.36	99.9718	3.339	3.340	ug/L
|	Cd	114	736014.496	0.79	99.9139	0.930	0.931	ug/L
>	In	115	932044.235	932044.24				ug/L
[	Sb	123	726275.722	0.78	100.0412	0.276	0.276	ug/L
|	Ba	135	229935.252	0.27	99.5104	7.827	7.866	ug/L
|	Ce	140	333.357	0.00				ug/L
>	Tb	159	864906.750	864906.75				ug/L
[	Ho	165	333.357	333.36				ug/L
|	Tl	203	1092392.330	1092294.33	99.9926	0.577	0.577	ug/L
|	Tl	205	2540732.661	2540497.32	99.6512	0.825	0.827	ug/L
|	Pb	206	934169.812	934109.81	99.9213	0.568	0.569	ug/L
|	Pb	207	799285.942	799262.61	99.9353	3.957	3.960	ug/L
|	Pb	208	3710912.877	3710721.53	99.9474	1.197	1.197	ug/L
>	Bi	209	770479.830	770479.83				ug/L
[	Na	23	42353561.192	111.09	9.9291	1.058	10.656	mg/L
|	Mg	24	30515129.565	80.04	9.8770	0.576	5.831	mg/L
|	K	39	104114301.036	271.52	9.9540	0.178	1.787	mg/L
|	Ca	43	170729.982	0.45	9.8326	1.641	16.693	mg/L
|	Fe	54	9085536.365	23.77	9.9069	0.839	8.466	mg/L
|	Fe	57	3622871.623	9.50	9.8837	0.624	6.315	mg/L

└>	Sc	45	381247.269	381247.27	mg/L
	Cl	35	213141.590	-226438.30	mg/L
	Kr	83	158.337	-7.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Friday, May 25, 2001 09:53:53
Page 2

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 09:58:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Wrong ccv solution
Rerun JYH 5/25/01

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.880	2005.19				ug/L
	Be	9	23863.649	0.07	94.7515	3.615	3.815	ug/L
	Al	27	467029.317	1.28	103.0537	11.609	11.265	ug/L
>	Sc-1	45	360564.205	360564.21				ug/L
	V	51	1321862.437	1.32	103.9363	5.516	5.307	ug/L
	Cr	52	1148384.409	1.14	100.4375	0.382	0.380	ug/L
	Cr	53	132574.189	0.12	94.0433	17.021	18.099	ug/L
	Mn	55	1870560.195	1.87	100.2011	3.657	3.649	ug/L
	Co	59	1457496.805	1.46	94.0426	1.257	1.336	ug/L
	Ni	60	320621.284	0.32	98.6438	3.829	3.882	ug/L
	Cu	65	373198.631	0.37	97.2831	0.994	1.022	ug/L
	Zn	66	255491.942	0.26	95.2453	3.289	3.453	ug/L
>	Ge	72	999266.153	999266.15				ug/L
	As	75	270501.933	0.27	100.4658	0.262	0.261	ug/L
	Se	77	21994.481	0.02	98.9134	2.441	2.468	ug/L
	Se	82	28791.916	0.03	99.3662	1.341	1.350	ug/L
	Y	89	852372.154	-8256.91				ug/L
	Rh	103	1201.305	0.00				ug/L
	Ag	107	1259437.556	1.34	99.1656	3.228	3.255	ug/L
	Cd	114	731450.477	0.78	98.7938	1.832	1.855	ug/L
>	In	115	937001.330	937001.33				ug/L
	Sb	123	725983.312	0.78	99.5167	2.672	2.685	ug/L
	Ba	135	223117.863	0.28	104.7329	8.006	7.644	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	797325.776	797325.78				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	1089497.882	1089399.88	99.7276	0.847	0.850	ug/L
	Tl	205	2546889.829	2546654.49	99.8927	0.681	0.682	ug/L
	Pb	206	940460.302	940400.30	100.5942	2.450	2.436	ug/L
	Pb	207	796300.952	796277.62	99.5621	2.490	2.501	ug/L
	Pb	208	3724963.855	3724772.51	100.3259	1.311	1.307	ug/L
>	Bi	209	785555.674	785555.67				ug/L
	Na	23	38221506.441	105.96	9.4705	0.871	9.196	mg/L
	Mg	24	29405488.490	81.57	10.0653	0.319	3.169	mg/L
	K	39	93725956.143	259.26	9.5046	0.996	10.484	mg/L
	Ca	43	175818.108	0.49	10.7214	0.420	3.913	mg/L
	Fe	54	8842953.143	24.47	10.1985	0.292	2.859	mg/L
	Fe	57	3464070.930	9.62	10.0086	0.664	6.632	mg/L

L>	Sc	45	360564.205	360564.21	mg/L
	Cl	35	161816.353	-277763.54	mg/L
	Kr	83	165.670	-0.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	189.503				
|	Al	27	206.107				
L>	Sc-1	45		90.151			
⌈	V	51	207.873				
|	Cr	52	200.875				
|	Cr	53	188.087				
|	Mn	55	200.402				
|	Co	59	188.085				
|	Ni	60	197.288				
|	Cu	65	194.566				
|	Zn	66	190.491				
\>	Ge	72		97.216			
|	As	75	200.932				
|	Se	77	197.827				
L	Se	82	198.732				
	Y	89					
⌈	Rh	103					
|	Ag	107	198.331				
|	Cd	114	197.588				
\>	In	115		99.758			
L	Sb	123	199.033				
⌈	Ba	135	209.466				
|	Ce	140					
L>	Tb	159		106.664			
⌈	Ho	165					
|	Tl	203	199.455				
|	Tl	205	199.785				
|	Pb	206	201.188				
|	Pb	207	199.124				
|	Pb	208	200.652				
L>	Bi	209		100.340			
⌈	Na	23	189.410				
|	Mg	24	201.307				
|	K	39	190.092				
|	Ca	43	214.427				
|	Fe	54	203.971				
|	Fe	57	200.172				
L>	Sc	45		90.151			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 09:59:02

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	V	51	ICV is out of limits (+/-10%)
QC Std 1	Cr	52	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Mn	55	ICV is out of limits (+/-10%)
QC Std 1	Co	59	ICV is out of limits (+/-10%)
QC Std 1	Ni	60	ICV is out of limits (+/-10%)
QC Std 1	Cu	65	ICV is out of limits (+/-10%)
QC Std 1	Zn	66	ICV is out of limits (+/-10%)
QC Std 1	As	75	ICV is out of limits (+/-10%)
QC Std 1	Se	77	ICV is out of limits (+/-10%)
QC Std 1	Se	82	ICV is out of limits (+/-10%)
QC Std 1	Ag	107	ICV is out of limits (+/-10%)
QC Std 1	Cd	114	ICV is out of limits (+/-10%)
QC Std 1	Sb	123	ICV is out of limits (+/-10%)
QC Std 1	Ba	135	ICV is out of limits (+/-10%)
QC Std 1	Tl	203	ICV is out of limits (+/-10%)
QC Std 1	Tl	205	ICV is out of limits (+/-10%)
QC Std 1	Pb	206	ICV is out of limits (+/-10%)
QC Std 1	Pb	207	ICV is out of limits (+/-10%)
QC Std 1	Pb	208	ICV is out of limits (+/-10%)
QC Std 1	Na	23	ICV is out of limits (+/-10%)
QC Std 1	Mg	24	ICV is out of limits (+/-10%)
QC Std 1	K	39	ICV is out of limits (+/-10%)
QC Std 1	Ca	43	ICV is out of limits (+/-10%)
QC Std 1	Fe	54	ICV is out of limits (+/-10%)
QC Std 1	Fe	57	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 10:06:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.494	-1670.20				ug/L
	Be	9	14495.928	0.04	56.1168	3.443	6.135	ug/L
	Al	27	270728.172	0.73	58.6361	9.620	16.407	ug/L
>	Sc-1	45	370822.995	370822.99				ug/L
	V	51	665617.327	0.65	51.1610	3.151	6.159	ug/L
	Cr	52	601011.578	0.58	50.8864	4.235	8.323	ug/L
	Cr	53	76071.684	0.06	48.5224	5.027	10.361	ug/L
	Mn	55	948180.452	0.93	49.6520	2.174	4.379	ug/L
	Co	59	772255.370	0.76	48.7159	1.458	2.994	ug/L
	Ni	60	166381.330	0.16	50.0397	2.132	4.260	ug/L
	Cu	65	192620.494	0.19	49.0740	0.840	1.711	ug/L
	Zn	66	139347.957	0.14	50.7752	2.018	3.975	ug/L
>	Ge	72	1022076.608	1022076.61				ug/L
	As	75	137454.580	0.13	49.8963	0.750	1.503	ug/L
	Se	77	11772.360	0.01	50.8527	0.539	1.059	ug/L
	Se	82	15150.395	0.01	50.9314	0.994	1.951	ug/L
	Y	89	854049.359	-6579.70				ug/L
	Rh	103	100.101	0.00				ug/L
	Ag	107	647071.401	0.69	50.6050	1.555	3.073	ug/L
	Cd	114	373519.893	0.40	50.1167	0.217	0.433	ug/L
>	In	115	942942.374	942942.37				ug/L
	Sb	123	359753.066	0.38	48.9814	0.186	0.379	ug/L
	Ba	135	109508.986	0.14	53.8048	7.442	13.832	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	765504.688	765504.69				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	547764.609	547666.61	50.1354	0.377	0.752	ug/L
	Tl	205	1353512.745	1353277.41	53.0824	0.803	1.514	ug/L
	Pb	206	504970.530	504910.52	54.0100	0.639	1.182	ug/L
	Pb	207	390591.943	390568.61	48.8345	0.880	1.801	ug/L
	Pb	208	1891464.991	1891273.65	50.9410	0.313	0.615	ug/L
>	Bi	209	797444.990	797444.99				ug/L
	Na	23	18147683.168	48.93	4.3732	0.264	6.033	mg/L
	Mg	24	14824111.238	40.57	5.0059	0.824	16.455	mg/L
	K	39	53788541.333	144.19	5.2859	0.518	9.808	mg/L
	Ca	43	90927.267	0.25	5.4579	1.506	27.600	mg/L
	Fe	54	4385527.786	11.86	4.9433	0.611	12.352	mg/L
	Fe	57	1920714.413	5.22	5.4311	0.645	11.868	mg/L

L>	Sc	45	370822.995	370822.99	mg/L
	Cl	35	141728.354	-297851.53	mg/L
	Kr	83	166.337	0.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	112.234				
|	Al	27	117.272				
L>	Sc-1	45		92.716			
⌈	V	51	102.322				
|	Cr	52	101.773				
|	Cr	53	97.045				
|	Mn	55	99.304				
|	Co	59	97.432				
|	Ni	60	100.079				
|	Cu	65	98.148				
|	Zn	66	101.550				
|>	Ge	72		99.435			
|	As	75	99.793				
|	Se	77	101.705				
L	Se	82	101.863				
	Y	89					
⌈	Rh	103					
|	Ag	107	101.210				
|	Cd	114	100.233				
|>	In	115		100.391			
L	Sb	123	97.963				
⌈	Ba	135	107.610				
|	Ce	140					
L>	Tb	159		102.407			
⌈	Ho	165					
|	Tl	203	100.271				
|	Tl	205	106.165				
|	Pb	206	108.020				
|	Pb	207	97.669				
|	Pb	208	101.882				
L>	Bi	209		101.858			
⌈	Na	23	87.465				
|	Mg	24	100.117				
|	K	39	105.717				
|	Ca	43	109.157				
|	Fe	54	98.865				
|	Fe	57	108.623				
L>	Sc	45		92.716			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 10:07:47

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Ca	43	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 25, 2001 10:12:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15683.929	-334.76				ug/L
	Be	9	0.000	0.00	0.0000	0.000		ug/L
	Al	27	4335.131	0.00	0.1211	0.481	396.888	ug/L
>	Sc-1	45	379727.192	379727.19				ug/L
	V	51	1086.572	0.00	0.0296	0.459	1549.035	ug/L
	Cr	52	11487.481	-0.00	-0.0516	0.119	230.700	ug/L
	Cr	53	5001.797	-0.01	-5.8842	0.783	13.311	ug/L
	Mn	55	700.736	-0.00	-0.0318	0.009	28.747	ug/L
	Co	59	33.367	-0.00	-0.0001	0.004	6449.556	ug/L
	Ni	60	0.000	-0.00	-0.0100	0.000	0.000	ug/L
	Cu	65	66.734	-0.00	-0.0001	0.029	22321.413	ug/L
	Zn	66	0.000	0.00	0.0000	0.000		ug/L
>	Ge	72	1042232.887	1042232.89				ug/L
	As	75	147.307	0.00	0.0215	0.014	65.403	ug/L
	Se	77	240.004	-0.00	-0.8349	0.064	7.676	ug/L
	Se	82	109.741	-0.00	-0.0245	0.008	31.196	ug/L
	Y	89	791944.353	-68684.71				ug/L
	Rh	103	0.000	0.00				ug/L
	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
	Cd	114	15.204	-0.00	-0.0001	0.000	406.450	ug/L
>	In	115	975342.210	975342.21				ug/L
	Sb	123	1184.505	0.00	0.1542	0.012	8.045	ug/L
	Ba	135	133.469	0.00	0.0456	0.073	160.663	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	830346.087	830346.09				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	104.335	6.33	0.0006	0.001	199.931	ug/L
	Tl	205	247.340	12.00	0.0005	0.001	176.842	ug/L
	Pb	206	70.007	10.00	0.0011	0.002	200.000	ug/L
	Pb	207	73.341	50.01	0.0063	0.003	41.633	ug/L
	Pb	208	266.017	74.67	0.0020	0.001	64.341	ug/L
>	Bi	209	827012.550	827012.55				ug/L
	Na	23	8671.943	0.01	0.0005	0.001	109.054	mg/L
	Mg	24	0.000	-0.00	-0.0004	0.000	0.000	mg/L
	K	39	664908.173	0.14	0.0052	0.012	223.710	mg/L
	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
	Fe	54	39453.449	0.03	0.0115	0.011	96.179	mg/L
	Fe	57	8004.810	0.01	0.0058	0.010	175.922	mg/L

> Sc	45	379727.192	379727.19		mg/L
Cl	35	96662.683	-342917.20		mg/L
Kr	83	170.004	4.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		94.942			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.396			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		103.840			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		111.081			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		105.635			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		94.942			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, May 25, 2001 10:12:54

QC Std 2	Se	77	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 10:17:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11677.340	-4341.35				ug/L
	Be	9	0.000	0.00	0.0000	0.000		ug/L
	Al	27	49199045.045	146.49	11773.9449	1344.134	11.416	ug/L
>	Sc-1	45	337119.254	337119.25				ug/L
	V	51	480.477	-0.00	-0.0193	0.197	1019.767	ug/L
	Cr	52	15331.870	0.00	0.3443	0.133	38.520	ug/L
	Cr	53	10674.933	-0.00	-1.1888	2.088	175.632	ug/L
	Mn	55	6509.494	0.01	0.2851	0.041	14.271	ug/L
	Co	59	1201.310	0.00	0.0760	0.025	33.367	ug/L
	Ni	60	2603.086	0.00	0.7979	0.125	15.724	ug/L
	Cu	65	1368.169	0.00	0.3435	0.066	19.162	ug/L
	Zn	66	4001.167	0.00	1.5044	0.362	24.067	ug/L
>	Ge	72	988921.377	988921.38				ug/L
	As	75	142.857	0.00	0.0225	0.033	145.226	ug/L
	Se	77	488.683	0.00	0.3745	0.206	55.040	ug/L
	Se	82	119.546	0.00	0.0292	0.029	98.429	ug/L
	Y	89	781593.596	-79035.47				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	200.203	0.00	0.0138	0.000	2.105	ug/L
	Cd	114	2545.346	0.00	0.3559	0.015	4.099	ug/L
>	In	115	900116.248	900116.25				ug/L
	Sb	123	1261.926	0.00	0.1780	0.008	4.580	ug/L
	Ba	135	400.413	0.00	0.1736	0.099	56.844	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	790083.989	790083.99				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	106.669	8.67	0.0008	0.001	69.551	ug/L
	Tl	205	234.340	-1.00	-0.0000	0.001	3002.301	ug/L
	Pb	206	1627.015	1567.01	0.1676	0.010	5.792	ug/L
	Pb	207	1273.574	1250.24	0.1563	0.007	4.688	ug/L
	Pb	208	6157.698	5966.35	0.1607	0.002	1.503	ug/L
>	Bi	209	751318.844	751318.84				ug/L
	Na	23	94176414.519	281.00	25.1144	4.564	18.172	mg/L
	Mg	24	31624770.641	94.04	11.6043	0.814	7.017	mg/L
	K	39	97881294.100	289.85	10.6259	1.216	11.446	mg/L
	Ca	43	498177.766	1.48	32.6491	3.171	9.711	mg/L
	Fe	54	19464141.913	57.79	24.0810	1.582	6.571	mg/L
	Fe	57	8305645.545	24.67	25.6790	1.513	5.894	mg/L

> Sc	45	337119.254	337119.25		
Cl	35	5050046.129	4610466.24		mg/L
Kr	83	186.338	20.33		mg/L
U	238	0.000	0.00		mg/L
					mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	117.739				
⌊>	Sc-1	45		84.289			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.210			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		95.831			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.695			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		95.967			
⌈	Na	23	100.458				
|	Mg	24	116.043				
|	K	39	106.259				
|	Ca	43	108.830				
|	Fe	54	96.324				
|	Fe	57	102.716				
⌊>	Sc	45		84.289			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 10:18:04

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 10:22:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18025.661	2006.97				ug/L
	Be	9	33.367	0.00	0.1284	0.222	173.205	ug/L
	Al	27	50767142.098	150.36	12085.1912	1547.002	12.801	ug/L
>	Sc-1	45	339933.098	339933.10				ug/L
	V	51	258176.788	0.26	20.2475	0.630	3.113	ug/L
	Cr	52	235623.691	0.22	19.7827	0.898	4.540	ug/L
	Cr	53	37770.303	0.03	19.9427	7.636	38.288	ug/L
	Mn	55	359370.953	0.36	19.1896	0.652	3.397	ug/L
	Co	59	281134.983	0.28	18.1233	0.405	2.234	ug/L
	Ni	60	67451.071	0.07	20.7217	0.866	4.178	ug/L
	Cu	65	74190.873	0.07	19.3133	0.985	5.102	ug/L
	Zn	66	26717.539	0.03	9.9343	1.570	15.807	ug/L
>	Ge	72	1000246.789	1000246.79				ug/L
	As	75	25529.943	0.03	9.4462	0.334	3.537	ug/L
	Se	77	2538.451	0.00	9.7340	0.275	2.829	ug/L
	Se	82	2873.875	0.00	9.5587	0.372	3.893	ug/L
	Y	89	781556.136	-79072.93				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	56344.586	0.06	4.5070	0.168	3.720	ug/L
	Cd	114	71577.550	0.08	9.8362	0.364	3.696	ug/L
>	In	115	921032.344	921032.34				ug/L
	Sb	123	1060.928	0.00	0.1462	0.011	7.320	ug/L
	Ba	135	333.675	0.00	0.1427	0.020	14.216	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	778323.449	778323.45				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	93.668	-4.33	-0.0004	0.001	292.207	ug/L
	Tl	205	198.338	-37.00	-0.0015	0.001	36.893	ug/L
	Pb	206	1356.931	1296.93	0.1387	0.008	5.472	ug/L
	Pb	207	1060.185	1036.85	0.1296	0.014	11.125	ug/L
	Pb	208	5254.375	5063.03	0.1364	0.005	3.425	ug/L
>	Bi	209	775284.336	775284.34				ug/L
	Na	23	100374496.645	296.63	26.5119	2.424	9.145	mg/L
	Mg	24	31254890.282	92.49	11.4131	1.303	11.416	mg/L
	K	39	103190892.601	303.16	11.1140	0.888	7.991	mg/L
	Ca	43	556291.950	1.64	36.1900	3.947	10.907	mg/L
	Fe	54	20056184.251	59.14	24.6446	1.751	7.103	mg/L
	Fe	57	8763582.427	25.89	26.9485	2.636	9.782	mg/L

> Sc	45	339933.098	339933.10		mg/L
Cl	35	5332685.258	4893105.37		mg/L
Kr	83	181.004	15.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	120.852				
>	Sc-1	45		84.992			
⌈	V	51	101.237				
|	Cr	52	98.913				
|	Cr	53	99.714				
|	Mn	55	95.948				
|	Co	59	90.616				
|	Ni	60	103.608				
|	Cu	65	96.567				
|	Zn	66	99.343				
>	Ge	72		97.312			
|	As	75	94.462				
|	Se	77	97.340				
⌊	Se	82	95.587				
	Y	89					
⌈	Rh	103					
|	Ag	107	90.139				
|	Cd	114	98.362				
>	In	115		98.058			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		104.122			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		99.028			
⌈	Na	23	106.048				
|	Mg	24	114.131				
|	K	39	111.140				
|	Ca	43	120.633				
|	Fe	54	98.578				
|	Fe	57	107.794				
>	Sc	45		84.992			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 10:23:15

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 10:27:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.268	-0.42				ug/L
[	Be	9	12523.500	0.03	44.5512	7.669	17.214	ug/L
|	Al	27	266939.861	0.65	52.1460	6.495	12.456	ug/L
[>	Sc-1	45	409246.897	409246.90				ug/L
[	V	51	671394.844	0.65	50.8452	2.573	5.061	ug/L
|	Cr	52	601123.504	0.57	50.1280	1.627	3.245	ug/L
|	Cr	53	72372.107	0.06	44.8347	9.216	20.556	ug/L
|	Mn	55	978177.489	0.94	50.4469	1.375	2.725	ug/L
|	Co	59	782796.735	0.75	48.6237	0.927	1.907	ug/L
|	Ni	60	162831.235	0.16	48.2112	1.463	3.034	ug/L
|	Cu	65	187894.725	0.18	47.1556	2.273	4.820	ug/L
|	Zn	66	132213.731	0.13	47.4505	1.698	3.578	ug/L
|>	Ge	72	1037754.615	1037754.61				ug/L
|	As	75	135291.727	0.13	48.3687	0.092	0.190	ug/L
|	Se	77	11230.822	0.01	47.6691	0.696	1.460	ug/L
[	Se	82	14928.964	0.01	49.4103	0.715	1.447	ug/L
	Y	89	884241.765	23612.70				ug/L
[	Rh	103	0.000	0.00				ug/L
|	Ag	107	635820.133	0.67	49.4473	3.725	7.534	ug/L
|	Cd	114	367804.599	0.39	49.0382	0.933	1.902	ug/L
\>	In	115	949140.634	949140.63				ug/L
|	Sb	123	350689.761	0.37	47.4418	0.640	1.349	ug/L
	Ba	135	109984.896	0.14	52.7025	5.727	10.867	ug/L
	Ce	140	333.357	0.00				ug/L
\>	Tb	159	782566.543	782566.54				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	538402.126	538304.12	49.2783	0.197	0.401	ug/L
	Tl	205	1344485.184	1344249.84	52.7283	0.702	1.331	ug/L
	Pb	206	503050.537	502990.53	53.8047	0.293	0.544	ug/L
	Pb	207	380172.600	380149.26	47.5317	0.483	1.017	ug/L
	Pb	208	1851657.610	1851466.27	49.8688	0.162	0.325	ug/L
\>	Bi	209	788815.226	788815.23				ug/L
	Na	23	22048385.895	54.10	4.8350	0.589	12.191	mg/L
	Mg	24	16768872.809	41.29	5.0957	0.378	7.422	mg/L
	K	39	55866210.312	137.00	5.0223	0.824	16.414	mg/L
	Ca	43	112209.016	0.28	6.1025	0.683	11.187	mg/L
	Fe	54	4378486.270	10.74	4.4774	0.582	12.989	mg/L
	Fe	57	1905606.458	4.76	4.9538	1.186	23.944	mg/L

> Sc	45	409246.897	409246.90		mg/L
Cl	35	123730.061	-315849.83		mg/L
Kr	83	145.670	-20.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	89.102				
Al	27	104.292				
> Sc-1	45		102.323			
V	51	101.690				
Cr	52	100.256				
Cr	53	89.669				
Mn	55	100.894				
Co	59	97.247				
Ni	60	96.422				
Cu	65	94.311				
Zn	66	94.901				
> Ge	72		100.961			
As	75	96.737				
Se	77	95.338				
Se	82	98.821				
Y	89					
Rh	103					
Ag	107	98.895				
Cd	114	98.076				
> In	115		101.051			
Sb	123	94.884				
Ba	135	105.405				
Ce	140					
> Tb	159		104.690			
Ho	165					
Tl	203	98.557				
Tl	205	105.457				
Pb	206	107.609				
Pb	207	95.063				
Pb	208	99.738				
> Bi	209		100.756			
Na	23	96.700				
Mg	24	101.914				
K	39	100.447				
Ca	43	122.050				
Fe	54	89.548				
Fe	57	99.076				
> Sc	45		102.323			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 10:28:24

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 10:32:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12011.398	-4007.29				ug/L
	Be	9	0.000	0.00	0.0000	0.000		ug/L
	Al	27	3667.624	0.00	0.0189	0.098	516.257	ug/L
>	Sc-1	45	390116.153	390116.15				ug/L
	V	51	503.953	-0.00	-0.0225	0.338	1502.659	ug/L
	Cr	52	12891.263	0.00	0.0598	0.139	232.757	ug/L
	Cr	53	5669.024	-0.01	-5.4173	1.192	22.005	ug/L
	Mn	55	567.258	-0.00	-0.0389	0.008	19.773	ug/L
	Co	59	0.000	-0.00	-0.0021	0.000	0.000	ug/L
	Ni	60	33.367	-0.00	-0.0000	0.017	761235.679	ug/L
	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
	Zn	66	0.000	0.00	0.0000	0.000		ug/L
>	Ge	72	1051671.171	1051671.17				ug/L
	As	75	132.936	0.00	0.0162	0.012	71.455	ug/L
	Se	77	206.003	-0.00	-0.9918	0.010	1.007	ug/L
	Se	82	124.829	0.00	0.0225	0.047	210.539	ug/L
	Y	89	841128.267	-19500.80				ug/L
	Rh	103	0.000	0.00				ug/L
	Ag	107	33.367	-0.00	-0.0001	0.004	5401.462	ug/L
	Cd	114	14.638	-0.00	-0.0001	0.000	315.250	ug/L
>	In	115	965334.638	965334.64				ug/L
	Sb	123	999.342	0.00	0.1312	0.012	9.101	ug/L
	Ba	135	0.000	-0.00	-0.0166	0.000	0.000	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	780975.514	780975.51				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	95.002	-3.00	-0.0003	0.001	523.876	ug/L
	Tl	205	232.006	-3.33	-0.0001	0.000	167.032	ug/L
	Pb	206	60.006	0.00	0.0000	0.005	44638205.358	ug/L
	Pb	207	63.340	40.00	0.0050	0.003	62.915	ug/L
	Pb	208	235.348	44.00	0.0012	0.002	180.741	ug/L
>	Bi	209	819717.302	819717.30				ug/L
	Na	23	6670.169	-0.00	-0.0001	0.001	876.032	mg/L
	Mg	24	1666.877	0.00	0.0001	0.000	156.335	mg/L
	K	39	655875.728	0.04	0.0014	0.005	318.869	mg/L
	Ca	43	333.357	0.00	0.0021	0.035	1682.777	mg/L
	Fe	54	47144.744	0.05	0.0188	0.024	130.133	mg/L
	Fe	57	8005.464	0.00	0.0033	0.010	291.445	mg/L

└>	Sc	45	390116.153	390116.15	mg/L
	Cl	35	73380.680	-366199.21	mg/L
	Kr	83	159.337	-6.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		97.539			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.315			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		102.775			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		104.477			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		104.703			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		97.539			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 10:33:30

QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 10:33:30
Page 3

Method 6020 - Summary Report

Sample ID: PBW 6P WG98172-03

Sample Date/Time: Friday, May 25, 2001 10:37:49
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 11
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13679.816	-2338.87				ug/L
	Be	9	33.367	0.00	0.1619	0.280	173.205	ug/L
	Al	27	80794.004	0.19	18.8308	3.661	19.444	ug/L
>	Sc-1	45	414418.610	414418.61				ug/L
	V	51	3595.635	0.00	0.2657	0.257	96.836	ug/L
	Cr	52	13593.214	0.00	0.1400	0.109	77.773	ug/L
	Cr	53	3667.624	-0.01	-8.6564	0.555	6.413	ug/L
	Mn	55	1668.531	0.00	0.0210	0.010	49.150	ug/L
	Co	59	66.734	0.00	0.0025	0.004	178.501	ug/L
	Ni	60	133.468	0.00	0.0361	0.021	58.687	ug/L
	Cu	65	266.939	0.00	0.0612	0.036	58.869	ug/L
	Zn	66	3668.091	0.00	1.6228	1.423	87.687	ug/L
>	Ge	72	1056651.097	1056651.10				ug/L
	As	75	78.081	-0.00	-0.0042	0.022	529.613	ug/L
	Se	77	183.336	-0.00	-1.3681	0.082	6.013	ug/L
	Se	82	111.053	-0.00	-0.0314	0.063	200.665	ug/L
	Y	89	862678.666	2049.60				ug/L
	Rh	103	66.734	0.00				ug/L
	Ag	107	100.101	0.00	0.0064	0.010	152.549	ug/L
	Cd	114	23.269	0.00	0.0012	0.001	58.430	ug/L
>	In	115	966286.471	966286.47				ug/L
	Sb	123	445.371	0.00	0.0717	0.006	7.862	ug/L
	Ba	135	133.468	0.00	0.0564	0.034	60.995	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	817897.130	817897.13				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	77.335	-20.67	-0.0024	0.003	106.488	ug/L
	Tl	205	184.338	-51.00	-0.0025	0.001	31.393	ug/L
	Pb	206	220.025	160.02	0.0214	0.002	10.825	ug/L
	Pb	207	186.688	163.35	0.0255	0.007	28.934	ug/L
	Pb	208	794.394	603.05	0.0203	0.002	9.621	ug/L
>	Bi	209	815677.218	815677.22				ug/L
	Na	23	48834.974	0.10	0.0111	0.001	10.981	mg/L
	Mg	24	9006.562	0.02	0.0028	0.001	50.939	mg/L
	K	39	714108.446	0.08	0.0038	0.008	204.422	mg/L
	Ca	43	333.357	0.00	0.0020	0.043	2185.113	mg/L
	Fe	54	48452.940	0.04	0.0206	0.017	80.814	mg/L
	Fe	57	11010.208	0.01	0.0124	0.017	138.319	mg/L

Sc	45	414418.610	414418.61		mg/L
Cl	35	82474.869	-357105.02		mg/L
Kr	83	149.670	-16.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		103.616			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.799			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.876			
Sb	123					
Ba	135					
Ce	140					
Tb	159		109.416			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		104.187			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		103.616			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6P WG98172-03
Report Date/Time: Friday, May 25, 2001 10:38:37

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: SPLP BLK 5-24

Sample Date/Time: Friday, May 25, 2001 10:42:55
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13679.956	-2338.73				ug/L
[	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	208332.439	0.47	47.0631	7.740	16.446	ug/L
[>	Sc-1	45	441699.423	441699.42				ug/L
[	V	51	7352.945	0.01	0.5995	0.092	15.326	ug/L
|	Cr	52	18375.709	0.01	0.5958	0.300	50.402	ug/L
|	Cr	53	4001.307	-0.01	-8.4365	1.789	21.202	ug/L
|	Mn	55	3671.296	0.00	0.1429	0.038	26.308	ug/L
|	Co	59	1301.420	0.00	0.0944	0.001	0.954	ug/L
|	Ni	60	467.152	0.00	0.1540	0.083	53.925	ug/L
|	Cu	65	567.257	0.00	0.1497	0.016	10.705	ug/L
|	Zn	66	3334.360	0.00	1.4355	0.992	69.129	ug/L
[>	Ge	72	1080738.550	1080738.55				ug/L
|	As	75	121.603	0.00	0.0136	0.020	149.922	ug/L
|	Se	77	204.003	-0.00	-1.2797	0.191	14.889	ug/L
[	Se	82	121.517	0.00	0.0002	0.014	6514.780	ug/L
	Y	89	915270.877	54641.81				ug/L
[	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0027	0.005	189.910	ug/L
|	Cd	114	28.594	0.00	0.0019	0.001	27.782	ug/L
[>	In	115	1019230.160	1019230.16				ug/L
	Sb	123	466.124	0.00	0.0711	0.002	3.466	ug/L
	Ba	135	200.203	0.00	0.0967	0.068	70.553	ug/L
	Ce	140	0.000	0.00				ug/L
[>	Tb	159	814590.082	814590.08				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	94.668	-3.33	-0.0004	0.001	141.774	ug/L
	Tl	205	187.338	-48.00	-0.0024	0.001	47.522	ug/L
	Pb	206	1023.510	963.50	0.1288	0.021	16.556	ug/L
	Pb	207	826.797	803.46	0.1256	0.013	10.062	ug/L
	Pb	208	3930.965	3739.62	0.1259	0.003	2.407	ug/L
[>	Bi	209	828492.721	828492.72				ug/L
	Na	23	60596.801	0.12	0.0134	0.003	24.078	mg/L
	Mg	24	33746.399	0.07	0.0115	0.002	20.124	mg/L
	K	39	788588.883	0.17	0.0079	0.021	264.254	mg/L
	Ca	43	1666.877	0.00	0.0836	0.044	52.383	mg/L
	Fe	54	149733.752	0.26	0.1351	0.012	9.086	mg/L
	Fe	57	12344.474	0.01	0.0148	0.009	58.050	mg/L

L>	Sc	45	441699.423	441699.42	mg/L
	Cl	35	113903.012	-325676.88	mg/L
	Kr	83	149.003	-17.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		110.437			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.142			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		108.513			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		108.974			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		105.824			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		110.437			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: SPLP BLK 5-24
Report Date/Time: Friday, May 25, 2001 10:43:43

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6P WG98172-04

Sample Date/Time: Friday, May 25, 2001 10:48:02
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.866	3007.18				ug/L
	Be	9	7645.122	0.02	135.5609	21.837	16.109	ug/L
	Al	27	224478.897	0.55	219.8962	14.979	6.812	ug/L
>	Sc-1	45	403766.659	403766.66				ug/L
	V	51	389161.483	0.36	142.1708	1.488	1.047	ug/L
	Cr	52	337666.843	0.30	133.5977	3.745	2.803	ug/L
	Cr	53	48163.143	0.03	127.0618	20.267	15.950	ug/L
	Mn	55	517240.606	0.48	128.6466	1.750	1.361	ug/L
	Co	59	426902.067	0.40	128.0843	0.638	0.498	ug/L
	Ni	60	88128.237	0.08	126.0126	3.311	2.627	ug/L
	Cu	65	97829.922	0.09	118.5702	6.112	5.155	ug/L
	Zn	66	82137.842	0.08	142.3113	8.563	6.017	ug/L
>	Ge	72	1074376.333	1074376.33				ug/L
	As	75	69202.518	0.06	119.4205	2.317	1.940	ug/L
	Se	77	5412.718	0.00	105.9258	4.050	3.824	ug/L
	Se	82	7053.226	0.01	111.7168	3.782	3.386	ug/L
	Y	89	852749.151	-7879.91				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	330671.141	0.33	123.3543	2.402	1.947	ug/L
	Cd	114	185848.099	0.19	118.9584	2.951	2.480	ug/L
>	In	115	988468.268	988468.27				ug/L
	Sb	123	184361.333	0.19	119.7370	1.767	1.476	ug/L
	Ba	135	58867.008	0.07	130.6249	17.295	13.241	ug/L
	Ce	140	0.000	0.00				ug/L
>	Tb	159	847056.457	847056.46				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	291279.290	291181.29	133.2790	0.520	0.390	ug/L
	Tl	205	722098.513	721863.17	141.5756	2.820	1.992	ug/L
	Pb	206	266878.275	266818.27	142.7071	2.742	1.922	ug/L
	Pb	207	202253.766	202230.43	126.4288	1.715	1.356	ug/L
	Pb	208	984461.345	984270.00	132.5554	2.002	1.510	ug/L
>	Bi	209	820939.757	820939.76				ug/L
	Na	23	48163.285	0.10	0.0452	0.007	15.539	mg/L
	Mg	24	6336.345	0.01	0.0076	0.003	40.959	mg/L
	K	39	715549.598	0.12	0.0229	0.026	113.009	mg/L
	Ca	43	1000.117	0.00	0.1842	0.277	150.581	mg/L
	Fe	54	68239.984	0.09	0.1859	0.091	48.778	mg/L
	Fe	57	9339.918	0.01	0.0340	0.043	127.715	mg/L

> Sc	45	403766.659	403766.66		mg/L
Cl	35	77419.983	-362159.91		mg/L
Kr	83	148.336	-17.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		100.952			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.524			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		105.238			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		113.317			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		104.859			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		100.952			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6P WG98172-04
Report Date/Time: Friday, May 25, 2001 10:48:50

Method 6020 - Summary Report

Sample ID: 0550201 WG98172-02

Sample Date/Time: Friday, May 25, 2001 10:53:09
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.618	667.93				ug/L
	Be	9	0.000	0.00	0.0000	0.000		ug/L
	Al	27	4639974.679	10.18	2045.2156	207.082	10.125	ug/L
>	Sc-1	45	458342.811	458342.81				ug/L
	V	51	49524.003	0.05	8.8774	0.794	8.945	ug/L
	Cr	52	35389.493	0.02	4.6693	0.250	5.345	ug/L
	Cr	53	5335.528	-0.01	-14.4547	3.741	25.883	ug/L
	Mn	55	90594.549	0.08	11.0610	0.257	2.321	ug/L
	Co	59	3637.929	0.00	0.5374	0.123	22.945	ug/L
	Ni	60	5474.278	0.01	3.8657	0.657	16.992	ug/L
	Cu	65	11220.101	0.01	6.7159	0.745	11.091	ug/L
	Zn	66	5335.528	0.00	4.6027	1.816	39.458	ug/L
>	Ge	72	1080490.592	1080490.59				ug/L
	As	75	3706.118	0.00	3.1061	0.050	1.613	ug/L
	Se	77	239.337	-0.00	-2.1847	0.244	11.190	ug/L
	Se	82	191.382	0.00	0.5600	0.192	34.355	ug/L
	Y	89	893230.870	32601.81				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	266.941	0.00	0.0431	0.039	89.526	ug/L
	Cd	114	70.782	0.00	0.0175	0.001	6.645	ug/L
>	In	115	988141.277	988141.28				ug/L
	Sb	123	88437.995	0.09	28.7249	0.324	1.129	ug/L
	Ba	135	7478.092	0.01	8.3892	1.121	13.365	ug/L
	Ce	140	17354.968	0.02				ug/L
>	Tb	159	827685.014	827685.01				ug/L
	Ho	165	666.760	666.76				ug/L
	Tl	203	167.337	69.34	0.0159	0.001	7.115	ug/L
	Tl	205	392.348	157.01	0.0154	0.000	1.946	ug/L
	Pb	206	183642.526	183582.52	49.0943	0.695	1.415	ug/L
	Pb	207	159009.567	158986.23	49.6969	0.483	0.973	ug/L
	Pb	208	731115.572	730924.23	49.2182	0.103	0.210	ug/L
>	Bi	209	808290.194	808290.19				ug/L
	Na	23	50445501.744	111.03	24.8076	3.969	15.998	mg/L
	Mg	24	1136984.580	2.49	0.7679	0.064	8.291	mg/L
	K	39	3563779.428	6.17	0.5657	0.063	11.180	mg/L
	Ca	43	118321.375	0.26	14.4114	3.453	23.961	mg/L
	Fe	54	704871.920	1.48	1.5450	0.375	24.261	mg/L
	Fe	57	224819.245	0.48	1.2410	0.127	10.194	mg/L

> Sc	45	458342.811	458342.81		mg/L
Cl	35	132903.113	-306676.78		mg/L
Kr	83	148.003	-18.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		114.598			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		105.118			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		105.203			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		110.725			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		103.244			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		114.598			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550201 WG98172-02
Report Date/Time: Friday, May 25, 2001 10:53:57

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0550201 DP WG98172-07

Sample Date/Time: Friday, May 25, 2001 10:58:16
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	-0.14				ug/L
[	Be	9	33.367	0.00	0.2627	0.455	173.205	ug/L
|	Al	27	1890199.820	4.29	861.6427	39.466	4.580	ug/L
|>	Sc-1	45	440535.052	440535.05				ug/L
[	V	51	35872.891	0.03	6.3183	0.193	3.051	ug/L
|	Cr	52	28217.339	0.01	3.1384	0.384	12.228	ug/L
|	Cr	53	5001.937	-0.01	-15.1275	3.689	24.387	ug/L
|	Mn	55	60717.440	0.05	7.2759	0.124	1.698	ug/L
|	Co	59	2636.457	0.00	0.3840	0.027	7.105	ug/L
|	Ni	60	5507.646	0.01	3.8519	0.475	12.325	ug/L
|	Cu	65	9783.161	0.01	5.7936	0.488	8.419	ug/L
|	Zn	66	8338.680	0.01	7.0941	2.685	37.853	ug/L
|>	Ge	72	1092491.694	1092491.69				ug/L
	As	75	3512.264	0.00	2.9068	0.035	1.212	ug/L
	Se	77	239.337	-0.00	-2.2125	0.390	17.648	ug/L
	Se	82	185.483	0.00	0.4967	0.039	7.936	ug/L
	Y	89	960387.671	99758.61				ug/L
	Rh	103	33.367	0.00				ug/L
	Ag	107	266.945	0.00	0.0413	0.068	163.596	ug/L
	Cd	114	72.168	0.00	0.0173	0.001	6.131	ug/L
>	In	115	1017413.191	1017413.19				ug/L
	Sb	123	86819.625	0.09	27.3909	0.613	2.238	ug/L
	Ba	135	5875.009	0.01	6.6464	1.087	16.356	ug/L
	Ce	140	18024.395	0.02				ug/L
:>	Tb	159	816859.862	816859.86				ug/L
	Ho	165	666.760	666.76				ug/L
	Tl	203	136.336	38.33	0.0088	0.003	33.032	ug/L
	Tl	205	338.011	102.67	0.0101	0.001	10.977	ug/L
	Pb	206	184432.292	184372.29	49.3055	0.219	0.444	ug/L
	Pb	207	152401.032	152377.70	47.6311	1.160	2.435	ug/L
	Pb	208	721296.494	721105.15	48.5570	0.202	0.415	ug/L
:>	Bi	209	808569.057	808569.06				ug/L
	Na	23	54405387.547	123.56	27.6079	0.508	1.840	mg/L
	Mg	24	919270.214	2.09	0.6436	0.030	4.594	mg/L
	K	39	2330163.472	3.67	0.3363	0.076	22.689	mg/L
	Ca	43	116295.278	0.27	14.6152	3.458	23.657	mg/L
	Fe	54	339226.839	0.70	0.7255	0.170	23.500	mg/L
	Fe	57	92286.530	0.19	0.5011	0.135	26.873	mg/L

L>	Sc	45	440535.052	440535.05	mg/L
	Cl	35	120014.006	-319565.88	mg/L
	Kr	83	140.669	-25.33	mg/L
	U	238	333.357	333.36	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		110.146			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		106.286			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		108.319			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		109.277			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		103.279			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		110.146			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550201 DP WG98172-07
Report Date/Time: Friday, May 25, 2001 10:59:05

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550204 WG98172-01

Sample Date/Time: Friday, May 25, 2001 11:03:24
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19026.569	3007.88				ug/L
	Be	9	0.000	0.00	0.0000	0.000		ug/L
	Al	27	3669102.089	8.15	1637.8053	65.362	3.991	ug/L
>	Sc-1	45	449726.701	449726.70				ug/L
	V	51	213635.037	0.20	39.8381	2.236	5.613	ug/L
	Cr	52	27581.424	0.01	3.2250	0.760	23.578	ug/L
	Cr	53	5001.891	-0.01	-14.7998	3.229	21.815	ug/L
	Mn	55	54562.932	0.05	6.7826	0.557	8.209	ug/L
	Co	59	2769.979	0.00	0.4193	0.051	12.133	ug/L
	Ni	60	4005.135	0.00	2.9039	0.329	11.329	ug/L
	Cu	65	1802.035	0.00	1.0723	0.208	19.427	ug/L
	Zn	66	11676.452	0.01	10.3463	2.059	19.905	ug/L
>	Ge	72	1051110.782	1051110.78				ug/L
	As	75	2321.394	0.00	1.9731	0.051	2.571	ug/L
	Se	77	262.672	-0.00	-1.8592	0.282	15.192	ug/L
	Se	82	199.831	0.00	0.6743	0.215	31.833	ug/L
	Y	89	957469.795	96840.73				ug/L
	Rh	103	0.000	0.00				ug/L
	Ag	107	3604.526	0.00	0.6790	0.092	13.545	ug/L
	Cd	114	65.059	0.00	0.0161	0.002	10.707	ug/L
>	In	115	968440.411	968440.41				ug/L
	Sb	123	1441.343	0.00	0.4731	0.011	2.381	ug/L
	Ba	135	5273.915	0.01	5.7492	0.821	14.281	ug/L
	Ce	140	15017.030	0.02				ug/L
>	Tb	159	847836.702	847836.70				ug/L
	Ho	165	0.000	0.00				ug/L
	Tl	203	151.670	53.67	0.0123	0.001	4.303	ug/L
	Tl	205	345.678	110.34	0.0108	0.001	12.860	ug/L
	Pb	206	3247.731	3187.72	0.8525	0.051	5.925	ug/L
	Pb	207	2730.796	2707.46	0.8463	0.054	6.411	ug/L
	Pb	208	12980.696	12789.35	0.8612	0.023	2.685	ug/L
>	Bi	209	781011.336	781011.34				ug/L
	Na	23	84707122.383	188.32	42.0783	2.032	4.828	mg/L
	Mg	24	832998.644	1.85	0.5702	0.030	5.240	mg/L
	K	39	2907293.744	4.82	0.4415	0.015	3.345	mg/L
	Ca	43	32741.598	0.07	3.9691	0.140	3.529	mg/L
	Fe	54	446223.822	0.91	0.9506	0.110	11.540	mg/L
	Fe	57	134934.978	0.28	0.7371	0.060	8.183	mg/L

Sc	45	449726.701	449726.70		mg/L
Cl	35	134589.806	-304990.08		mg/L
Kr	83	144.003	-22.00		mg/L
U	238	666.760	666.76		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		112.444			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.260			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		103.105			
Sb	123					
Ba	135					
Ce	140					
Tb	159		113.421			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.759			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		112.444			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 WG98172-01
Report Date/Time: Friday, May 25, 2001 11:04:13

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550205 S WG98172-05

Sample Date/Time: Friday, May 25, 2001 11:08:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19363.392	3344.70				ug/L
[	Be	9	14395.663	0.03	116.9426	30.419	26.012	ug/L
|	Al	27	4967682.462	11.20	2249.8348	420.048	18.670	ug/L
|>	Sc-1	45	452096.736	452096.74				ug/L
[	V	51	1099626.917	1.03	202.4473	7.472	3.691	ug/L
|	Cr	52	718835.273	0.66	146.1227	2.080	1.424	ug/L
|	Cr	53	87872.242	0.07	136.8311	11.591	8.471	ug/L
|	Mn	55	1162186.579	1.09	145.7310	1.215	0.834	ug/L
|	Co	59	892460.853	0.84	134.8024	1.115	0.827	ug/L
|	Ni	60	189056.038	0.18	136.1410	2.055	1.509	ug/L
|	Cu	65	211119.921	0.20	128.8022	4.840	3.758	ug/L
|	Zn	66	135621.574	0.13	118.3095	13.966	11.805	ug/L
|>	Ge	72	1066992.614	1066992.61				ug/L
|	As	75	130433.626	0.12	113.3917	1.766	1.557	ug/L
|	Se	77	9452.919	0.01	96.6873	0.632	0.654	ug/L
[	Se	82	12085.487	0.01	97.0644	1.871	1.928	ug/L
	Y	89	853684.455	-6944.61				ug/L
[	Rh	103	100.101	0.00				ug/L
|	Ag	107	641737.860	0.66	121.9219	2.805	2.301	ug/L
|	Cd	114	349924.275	0.36	114.0531	1.502	1.317	ug/L
|>	In	115	970513.128	970513.13				ug/L
[	Sb	123	280135.701	0.29	92.6620	2.120	2.288	ug/L
[	Ba	135	131531.077	0.17	155.4856	12.718	8.179	ug/L
|	Ce	140	25045.140	0.03				ug/L
|>	Tb	159	790956.131	790956.13				ug/L
[	Ho	165	0.000	0.00				ug/L
|	Tl	203	553589.026	553491.02	126.6714	1.475	1.164	ug/L
|	Tl	205	1399248.176	1399012.84	137.1909	1.330	0.969	ug/L
|	Pb	206	527151.043	527091.04	140.9567	3.446	2.445	ug/L
|	Pb	207	396972.963	396949.63	124.0809	4.298	3.464	ug/L
|	Pb	208	1937888.794	1937697.45	130.4786	1.860	1.425	ug/L
|>	Bi	209	775349.001	775349.00				ug/L
[	Na	23	93143400.832	210.73	47.0855	9.866	20.954	mg/L
|	Mg	24	1229884.841	2.78	0.8587	0.199	23.149	mg/L
|	K	39	4011055.389	7.39	0.6774	0.145	21.394	mg/L
|	Ca	43	51184.043	0.11	6.2455	0.568	9.101	mg/L
|	Fe	54	522307.160	1.09	1.1334	0.133	11.704	mg/L
|	Fe	57	200097.653	0.43	1.1293	0.195	17.282	mg/L

L>	Sc	45	452096.736	452096.74	mg/L
	Cl	35	165592.575	-273987.31	mg/L
	Kr	83	146.003	-20.00	mg/L
	U	238	1667.063	1667.06	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		113.036			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		103.805			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		103.326			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.812			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		99.036			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		113.036			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550205 S WG98172-05
Report Date/Time: Friday, May 25, 2001 11:09:21

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550206 SD WG98172-06

Sample Date/Time: Friday, May 25, 2001 11:13:40
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16019.251	0.56				ug/L
⌈	Be	9	14228.479	0.03	106.2469	10.448	9.833	ug/L
|	Al	27	4808422.605	10.06	2020.8375	130.317	6.449	ug/L
⌊>	Sc-1	45	478901.437	478901.44				ug/L
⌈	V	51	1037094.991	0.98	193.0138	11.373	5.892	ug/L
|	Cr	52	727341.046	0.68	149.6220	6.205	4.147	ug/L
|	Cr	53	82814.699	0.07	129.3535	19.138	14.795	ug/L
|	Mn	55	1204590.186	1.14	152.7226	3.709	2.429	ug/L
|	Co	59	884690.714	0.84	135.1242	4.719	3.492	ug/L
|	Ni	60	195299.779	0.18	142.0982	6.310	4.441	ug/L
|	Cu	65	209398.870	0.20	129.1729	1.126	0.872	ug/L
|	Zn	66	148190.584	0.14	130.8102	7.835	5.990	ug/L
|>	Ge	72	1055419.948	1055419.95				ug/L
|	As	75	127539.663	0.12	112.0894	1.117	0.997	ug/L
|	Se	77	9372.817	0.01	96.9465	3.401	3.508	ug/L
⌊	Se	82	11938.774	0.01	96.9395	1.219	1.257	ug/L
	Y	89	884017.683	23388.62				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	619367.809	0.66	121.9463	3.116	2.555	ug/L
|	Cd	114	344049.512	0.37	116.2183	2.982	2.566	ug/L
|>	In	115	936475.626	936475.63				ug/L
⌊	Sb	123	288481.027	0.31	98.8769	0.829	0.839	ug/L
⌈	Ba	135	117781.893	0.14	134.3492	10.356	7.708	ug/L
|	Ce	140	22705.940	0.03				ug/L
⌊>	Tb	159	818443.109	818443.11				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	541574.996	541476.99	123.9219	1.978	1.596	ug/L
|	Tl	205	1359684.031	1359448.69	133.3111	1.545	1.159	ug/L
|	Pb	206	509167.317	509107.31	136.1474	1.739	1.277	ug/L
|	Pb	207	386762.810	386739.47	120.8894	0.644	0.533	ug/L
|	Pb	208	1887754.111	1887562.77	127.1027	0.831	0.654	ug/L
⌊>	Bi	209	760948.028	760948.03				ug/L
⌈	Na	23	85223629.227	177.54	39.6709	2.878	7.254	mg/L
|	Mg	24	1541780.374	3.21	0.9891	0.100	10.083	mg/L
|	K	39	4364547.681	7.46	0.6839	0.023	3.359	mg/L
|	Ca	43	66647.717	0.14	7.6051	0.772	10.156	mg/L
|	Fe	54	554395.992	1.08	1.1256	0.071	6.300	mg/L
|	Fe	57	146492.469	0.29	0.7523	0.029	3.895	mg/L

>	Sc	45	478901.437	478901.44	mg/L
	Cl	35	115257.500	-324322.39	mg/L
	Kr	83	146.670	-19.33	mg/L
	U	238	1333.520	1333.52	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		119.738			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		102.679			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		99.702			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		109.489			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		97.197			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		119.738			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550206 SD WG98172-06
Report Date/Time: Friday, May 25, 2001 11:14:30

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550204 PS

Sample Date/Time: Friday, May 25, 2001 11:18:49
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20028.649	4009.96				ug/L
⌈	Be	9	17405.440	0.03	121.8486	11.974	9.827	ug/L
|	Al	27	4110129.386	8.06	1618.9202	112.759	6.965	ug/L
⌊>	Sc-1	45	509920.105	509920.10				ug/L
⌈	V	51	1122104.281	1.04	205.3005	9.492	4.623	ug/L
|	Cr	52	798927.050	0.73	161.6494	8.355	5.169	ug/L
|	Cr	53	97664.418	0.08	153.5311	8.219	5.353	ug/L
|	Mn	55	1275290.134	1.19	158.8585	5.350	3.368	ug/L
|	Co	59	957313.368	0.89	143.6672	5.930	4.127	ug/L
|	Ni	60	208334.691	0.19	149.0195	2.712	1.820	ug/L
|	Cu	65	215655.092	0.20	130.7399	4.462	3.413	ug/L
|	Zn	66	134617.383	0.13	116.5158	19.348	16.606	ug/L
|>	Ge	72	1074049.636	1074049.64				ug/L
|	As	75	138660.301	0.13	119.7638	2.063	1.723	ug/L
|	Se	77	10279.392	0.01	104.8688	3.368	3.211	ug/L
⌊	Se	82	13061.998	0.01	104.3026	2.471	2.369	ug/L
	Y	89	868985.781	8356.72				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	611861.362	0.64	117.3055	3.066	2.613	ug/L
|	Cd	114	374225.682	0.39	123.0990	0.712	0.579	ug/L
|>	In	115	961534.074	961534.07				ug/L
⌊	Sb	123	379089.632	0.39	126.5388	1.540	1.217	ug/L
⌈	Ba	135	124534.630	0.16	152.0182	1.350	0.888	ug/L
|	Ce	140	18024.536	0.02				ug/L
⌊>	Tb	159	763063.219	763063.22				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	584146.708	584048.71	133.6648	0.806	0.603	ug/L
|	Tl	205	1479606.233	1479370.89	145.0710	1.414	0.974	ug/L
|	Pb	206	534656.056	534596.05	142.9637	4.727	3.306	ug/L
|	Pb	207	424720.491	424697.16	132.7544	4.787	3.606	ug/L
|	Pb	208	2038298.923	2038107.58	137.2399	3.005	2.189	ug/L
⌊>	Bi	209	773017.815	773017.82				ug/L
⌈	Na	23	92971231.884	182.10	40.6888	3.338	8.204	mg/L
|	Mg	24	861975.926	1.69	0.5201	0.039	7.531	mg/L
|	K	39	3455567.503	5.14	0.4715	0.065	13.883	mg/L
|	Ca	43	43130.150	0.08	4.6161	0.157	3.395	mg/L
|	Fe	54	442649.803	0.79	0.8211	0.126	15.334	mg/L
|	Fe	57	147188.458	0.27	0.7058	0.085	12.039	mg/L

⌊> Sc	45	509920.105	509920.10		mg/L
Cl	35	134251.210	-305328.68		mg/L
Kr	83	142.003	-24.00		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		127.494			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.492			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		102.370			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.081			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		98.738			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		127.494			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 PS
Report Date/Time: Friday, May 25, 2001 11:19:39

Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
Na 23 Upper, S, EEE Na	23
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0550204 SDL

Sample Date/Time: Friday, May 25, 2001 11:23:58
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14347.932	-1670.76				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	903112.055	1.84	1847.1298	400.699	21.693	ug/L
|>	Sc-1	45	495356.203	495356.20				ug/L
⌈	V	51	48731.593	0.04	43.1066	1.929	4.474	ug/L
|	Cr	52	16234.687	0.00	3.5838	0.912	25.437	ug/L
|	Cr	53	4668.301	-0.01	-78.7749	13.653	17.332	ug/L
|	Mn	55	12389.805	0.01	6.7394	0.380	5.642	ug/L
|	Co	59	433.781	0.00	0.2942	0.116	39.378	ug/L
|	Ni	60	1001.073	0.00	3.3929	0.699	20.612	ug/L
|	Cu	65	533.888	0.00	1.3765	0.445	32.297	ug/L
|	Zn	66	2000.280	0.00	8.5179	0.076	0.894	ug/L
|>	Ge	72	1093432.102	1093432.10				ug/L
|	As	75	653.609	0.00	2.3894	0.165	6.900	ug/L
|	Se	77	183.336	-0.00	-14.0145	0.346	2.472	ug/L
⌊	Se	82	162.011	0.00	1.5492	0.598	38.592	ug/L
	Y	89	865615.004	4985.94				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	400.415	0.00	0.3620	0.264	72.796	ug/L
|	Cd	114	35.287	0.00	0.0337	0.005	14.529	ug/L
|>	In	115	942742.661	942742.66				ug/L
⌊	Sb	123	948.600	0.00	1.5915	0.052	3.237	ug/L
⌈	Ba	135	1034.451	0.00	6.3416	2.710	42.739	ug/L
|	Ce	140	3667.624	0.00				ug/L
|>	Tb	159	738284.082	738284.08				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.001	-28.00	-0.0320	0.009	28.571	ug/L
|	Tl	205	164.004	-71.34	-0.0350	0.006	16.167	ug/L
|	Pb	206	890.146	830.14	1.1100	0.248	22.315	ug/L
|	Pb	207	680.101	656.76	1.0265	0.095	9.263	ug/L
|	Pb	208	3554.542	3363.20	1.1323	0.088	7.766	ug/L
|>	Bi	209	795195.930	795195.93				ug/L
⌈	Na	23	18943964.552	38.39	42.8856	4.762	11.103	mg/L
|	Mg	24	206287.552	0.42	0.6422	0.101	15.682	mg/L
|	K	39	1202875.708	0.79	0.3622	0.092	25.445	mg/L
|	Ca	43	10007.052	0.02	5.3799	0.815	15.141	mg/L
|	Fe	54	130059.439	0.18	0.9597	0.111	11.597	mg/L
|	Fe	57	51855.165	0.09	1.1469	0.075	6.508	mg/L

Sc	45	495356.203	495356.20		mg/L
Cl	35	69004.584	-370575.30		mg/L
Kr	83	139.669	-26.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		123.852			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		106.377			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		100.370			
Sb	123					
Ba	135					
Ce	140					
Tb	159		98.766			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		101.571			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		123.852			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 SDL
Report Date/Time: Friday, May 25, 2001 11:24:48

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 11:29:07
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.519	4343.83				ug/L
⌈	Be	9	16569.553	0.04	52.8826	12.445	23.533	ug/L
|	Al	27	329084.879	0.72	58.0792	4.735	8.153	ug/L
⌊>	Sc-1	45	450811.536	450811.54				ug/L
⌈	V	51	767394.254	0.72	56.4010	3.443	6.105	ug/L
|	Cr	52	690771.599	0.63	56.0207	3.138	5.602	ug/L
|	Cr	53	75396.729	0.06	45.4906	4.326	9.509	ug/L
|	Mn	55	1033635.373	0.97	51.7286	3.278	6.336	ug/L
|	Co	59	833773.606	0.78	50.2632	1.838	3.657	ug/L
|	Ni	60	178034.041	0.17	51.1566	1.595	3.117	ug/L
|	Cu	65	195433.254	0.18	47.6058	2.946	6.189	ug/L
|	Zn	66	145808.213	0.14	50.7456	1.241	2.446	ug/L
|>	Ge	72	1070051.823	1070051.82				ug/L
|	As	75	141066.201	0.13	48.9287	1.057	2.161	ug/L
|	Se	77	11591.410	0.01	47.7717	3.556	7.445	ug/L
⌊	Se	82	15184.437	0.01	48.7581	1.404	2.879	ug/L
	Y	89	890755.601	30126.54				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	629037.378	0.67	49.1291	1.454	2.959	ug/L
|	Cd	114	368400.060	0.39	49.3627	0.996	2.018	ug/L
|>	In	115	944398.799	944398.80				ug/L
⌊	Sb	123	350898.937	0.37	47.7084	0.748	1.567	ug/L
⌈	Ba	135	106461.053	0.14	50.3443	5.341	10.609	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	792517.348	792517.35				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	524876.694	524778.69	48.0401	0.457	0.952	ug/L
|	Tl	205	1326368.167	1326132.83	52.0176	1.059	2.036	ug/L
|	Pb	206	494559.940	494499.93	52.8964	0.342	0.646	ug/L
|	Pb	207	374582.196	374558.86	46.8327	0.734	1.568	ug/L
|	Pb	208	1828715.644	1828524.30	49.2509	0.083	0.169	ug/L
⌊>	Bi	209	778939.854	778939.85				ug/L
⌈	Na	23	27891369.565	61.87	5.5294	0.301	5.447	mg/L
|	Mg	24	21117856.711	47.01	5.8008	0.637	10.980	mg/L
|	K	39	67408815.748	148.37	5.4394	0.562	10.330	mg/L
|	Ca	43	115264.480	0.25	5.6175	0.543	9.663	mg/L
|	Fe	54	4794738.070	10.57	4.4031	0.296	6.730	mg/L
|	Fe	57	2086567.244	4.62	4.8042	0.241	5.017	mg/L

L>	Sc	45	450811.536	450811.54	mg/L
	Cl	35	46820.051	-392759.84	mg/L
	Kr	83	146.003	-20.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	105.765				
|	Al	27	116.158				
L>	Sc-1	45		112.715			
⌈	V	51	112.802				
|	Cr	52	112.041				
|	Cr	53	90.981				
|	Mn	55	103.457				
|	Co	59	100.526				
|	Ni	60	102.313				
|	Cu	65	95.212				
|	Zn	66	101.491				
\>	Ge	72		104.103			
|	As	75	97.857				
|	Se	77	95.543				
L	Se	82	97.516				
	Y	89					
⌈	Rh	103					
|	Ag	107	98.258				
|	Cd	114	98.725				
\>	In	115		100.546			
L	Sb	123	95.417				
⌈	Ba	135	100.689				
|	Ce	140					
L>	Tb	159		106.021			
⌈	Ho	165					
|	Tl	203	96.080				
|	Tl	205	104.035				
|	Pb	206	105.793				
|	Pb	207	93.665				
|	Pb	208	98.502				
L>	Bi	209		99.495			
⌈	Na	23	110.587				
|	Mg	24	116.017				
|	K	39	108.787				
|	Ca	43	112.351				
|	Fe	54	88.062				
|	Fe	57	96.083				
L>	Sc	45		112.715			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 11:29:57

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 11:34:15
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20030.477	4011.79				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3667.810	-0.00	-0.1062	0.403	379.006	ug/L
|>	Sc-1	45	479031.839	479031.84				ug/L
⌈	V	51	3369.909	0.00	0.1930	0.096	49.922	ug/L
|	Cr	52	13158.633	0.00	0.0675	0.085	126.341	ug/L
|	Cr	53	2667.367	-0.01	-7.6862	1.518	19.750	ug/L
|	Mn	55	500.521	-0.00	-0.0426	0.013	31.233	ug/L
|	Co	59	66.734	0.00	0.0020	0.007	357.129	ug/L
|	Ni	60	0.000	-0.00	-0.0100	0.000	0.000	ug/L
|	Cu	65	66.734	-0.00	-0.0005	0.014	2605.596	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1064516.454	1064516.45				ug/L
|	As	75	77.001	-0.00	-0.0039	0.022	552.392	ug/L
|	Se	77	155.335	-0.00	-1.2206	0.029	2.376	ug/L
⌊	Se	82	110.038	-0.00	-0.0312	0.017	53.820	ug/L
	Y	89	928056.978	67427.91				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
|	Cd	114	19.918	0.00	0.0007	0.001	161.415	ug/L
|>	In	115	932058.599	932058.60				ug/L
⌊	Sb	123	1144.874	0.00	0.1558	0.007	4.590	ug/L
⌈	Ba	135	33.367	-0.00	-0.0023	0.025	1067.396	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	795112.988	795112.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	45.001	-53.00	-0.0049	0.000	3.774	ug/L
|	Tl	205	107.002	-128.34	-0.0050	0.000	7.013	ug/L
|	Pb	206	36.670	-23.34	-0.0025	0.002	65.465	ug/L
|	Pb	207	60.006	36.67	0.0046	0.003	54.546	ug/L
|	Pb	208	208.679	17.33	0.0005	0.001	277.181	ug/L
|>	Bi	209	772006.967	772006.97				ug/L
⌈	Na	23	14683.254	0.01	0.0010	0.001	67.079	mg/L
|	Mg	24	0.000	-0.00	-0.0004	0.000	0.000	mg/L
|	K	39	835588.753	0.13	0.0046	0.016	349.326	mg/L
|	Ca	43	333.357	-0.00	-0.0017	0.029	1678.909	mg/L
|	Fe	54	45443.789	0.02	0.0066	0.006	88.551	mg/L
|	Fe	57	7003.759	-0.00	-0.0019	0.007	364.934	mg/L

L>	Sc	45	479031.839	479031.84	mg/L
	Cl	35	43805.368	-395774.52	mg/L
	Kr	83	146.336	-19.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		119.771			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		103.564			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.232			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		106.368			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		98.609			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		119.771			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 11:35:03

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0550202

Sample Date/Time: Friday, May 25, 2001 11:39:23
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24375.055	8356.37				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1739364.910	3.60	724.2048	94.051	12.987	ug/L
|>	Sc-1	45	486154.534	486154.53				ug/L
⌈	V	51	70709.394	0.07	12.8053	0.545	4.260	ug/L
|	Cr	52	27848.706	0.01	3.1603	0.232	7.334	ug/L
|	Cr	53	3334.594	-0.01	-18.0010	5.883	32.683	ug/L
|	Mn	55	19111.298	0.02	2.2146	0.128	5.762	ug/L
|	Co	59	1501.678	0.00	0.2189	0.091	41.713	ug/L
|	Ni	60	4305.628	0.00	3.0445	0.452	14.844	ug/L
|	Cu	65	4138.682	0.00	2.4660	0.311	12.593	ug/L
|	Zn	66	4001.307	0.00	3.5037	1.836	52.399	ug/L
|>	Ge	72	1074835.807	1074835.81				ug/L
|	As	75	1415.358	0.00	1.1449	0.027	2.327	ug/L
|	Se	77	202.003	-0.00	-2.5720	0.099	3.863	ug/L
⌊	Se	82	169.845	0.00	0.3932	0.151	38.435	ug/L
	Y	89	902687.797	42058.73				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.468	0.00	0.0187	0.011	58.588	ug/L
|	Cd	114	57.326	0.00	0.0135	0.002	12.218	ug/L
|>	In	115	974338.446	974338.45				ug/L
⌊	Sb	123	7759.275	0.01	2.5516	0.061	2.377	ug/L
⌈	Ba	135	3671.281	0.00	3.8925	0.199	5.108	ug/L
|	Ce	140	8338.587	0.01				ug/L
|>	Tb	159	869940.409	869940.41				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	78.668	-19.33	-0.0044	0.003	60.615	ug/L
|	Tl	205	192.338	-43.00	-0.0042	0.002	40.033	ug/L
|	Pb	206	18893.530	18833.52	5.0365	0.182	3.614	ug/L
|	Pb	207	16921.714	16898.38	5.2822	0.080	1.514	ug/L
|	Pb	208	77133.821	76942.48	5.1811	0.050	0.962	ug/L
|>	Bi	209	786735.961	786735.96				ug/L
⌈	Na	23	55954908.078	116.53	26.0386	4.057	15.581	mg/L
|	Mg	24	833288.761	1.72	0.5320	0.051	9.613	mg/L
|	K	39	2261629.253	3.02	0.2766	0.032	11.607	mg/L
|	Ca	43	92602.932	0.19	10.6321	2.300	21.634	mg/L
|	Fe	54	296267.253	0.54	0.5588	0.080	14.330	mg/L
|	Fe	57	96661.243	0.18	0.4722	0.022	4.669	mg/L

L>	Sc	45	486154.534	486154.53	mg/L
	Cl	35	108148.988	-331430.90	mg/L
	Kr	83	147.336	-18.67	mg/L
	U	238	333.357	333.36	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		121.552			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.568			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		103.733			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		116.378			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		100.490			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		121.552			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550202
Report Date/Time: Friday, May 25, 2001 11:40:13

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0550203

Sample Date/Time: Friday, May 25, 2001 11:44:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21366.239	5347.55				ug/L
⌈	Be	9	66.734	0.00	0.4711	0.409	86.761	ug/L
|	Al	27	24798597.344	50.31	10110.0388	781.280	7.728	ug/L
⌊>	Sc-1	45	492094.033	492094.03				ug/L
⌈	V	51	297554.867	0.28	55.6791	0.894	1.606	ug/L
|	Cr	52	68528.793	0.05	11.8697	0.252	2.123	ug/L
|	Cr	53	5669.024	-0.01	-13.5257	2.879	21.283	ug/L
|	Mn	55	1392474.858	1.33	177.7981	6.251	3.516	ug/L
|	Co	59	28451.617	0.03	4.3698	0.020	0.467	ug/L
|	Ni	60	29892.774	0.03	21.8974	2.558	11.680	ug/L
|	Cu	65	14963.978	0.01	9.2539	0.523	5.650	ug/L
|	Zn	66	30735.098	0.03	27.3212	6.571	24.050	ug/L
|>	Ge	72	1048177.727	1048177.73				ug/L
|	As	75	4161.173	0.00	3.6073	0.073	2.021	ug/L
|	Se	77	248.671	-0.00	-2.0072	0.286	14.225	ug/L
⌊	Se	82	203.411	0.00	0.7062	0.211	29.863	ug/L
	Y	89	1002077.133	141448.07				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	2135.799	0.00	0.4052	0.096	23.738	ug/L
|	Cd	114	379.126	0.00	0.1202	0.003	2.219	ug/L
|>	In	115	956773.008	956773.01				ug/L
⌊	Sb	123	3552.812	0.00	1.1874	0.023	1.932	ug/L
⌈	Ba	135	104327.089	0.13	118.2886	9.317	7.876	ug/L
|	Ce	140	215552.773	0.26				ug/L
⌊>	Tb	159	824039.076	824039.08				ug/L
⌈	Ho	165	3334.174	3334.17				ug/L
|	Tl	203	580.029	482.03	0.1103	0.004	3.453	ug/L
|	Tl	205	1431.825	1196.48	0.1173	0.002	1.947	ug/L
|	Pb	206	124867.821	124807.81	33.3766	0.448	1.344	ug/L
|	Pb	207	103562.382	103539.05	32.3649	0.400	1.237	ug/L
|	Pb	208	491175.373	490984.03	33.0614	0.148	0.449	ug/L
⌊>	Bi	209	766897.868	766897.87				ug/L
⌈	Na	23	52511529.120	107.26	23.9653	3.141	13.108	mg/L
|	Mg	24	5030950.812	10.23	3.1562	0.195	6.190	mg/L
|	K	39	13623881.479	26.14	2.3958	0.227	9.457	mg/L
|	Ca	43	930658.649	1.89	104.3612	3.800	3.641	mg/L
|	Fe	54	2707832.927	5.43	5.6587	0.385	6.811	mg/L
⌊	Fe	57	1173152.124	2.37	6.1717	0.404	6.548	mg/L

>	Sc	45	492094.033	492094.03	mg/L
	Cl	35	106116.730	-333463.16	mg/L
	Kr	83	154.670	-11.33	mg/L
	U	238	3667.904	3667.90	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		123.037			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		101.975			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		101.863			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		110.238			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		97.957			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		123.037			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550203
Report Date/Time: Friday, May 25, 2001 11:45:23

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0550207

Sample Date/Time: Friday, May 25, 2001 11:49:41
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21030.962	5012.27				ug/L
⌈	Be	9	33.367	0.00	0.2677	0.464	173.205	ug/L
|	Al	27	2734981.774	6.11	1227.9224	226.361	18.434	ug/L
⌊>	Sc-1	45	451564.934	451564.93				ug/L
⌈	V	51	185856.749	0.18	35.1165	1.034	2.944	ug/L
|	Cr	52	25437.481	0.01	2.8559	0.439	15.374	ug/L
|	Cr	53	3334.360	-0.01	-17.8204	4.337	24.339	ug/L
|	Mn	55	37167.523	0.03	4.6329	0.482	10.395	ug/L
|	Co	59	2002.284	0.00	0.3061	0.030	9.953	ug/L
|	Ni	60	6275.726	0.01	4.6268	0.596	12.879	ug/L
|	Cu	65	4038.522	0.00	2.4957	0.290	11.636	ug/L
|	Zn	66	76070.735	0.07	68.3412	4.524	6.620	ug/L
|>	Ge	72	1036545.688	1036545.69				ug/L
|	As	75	1796.512	0.00	1.5316	0.091	5.911	ug/L
|	Se	77	215.337	-0.00	-2.3444	0.217	9.243	ug/L
⌊	Se	82	181.186	0.00	0.5403	0.116	21.491	ug/L
	Y	89	865924.040	5294.98				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0133	0.020	150.828	ug/L
|	Cd	114	84.002	0.00	0.0233	0.001	3.947	ug/L
|>	In	115	934071.714	934071.71				ug/L
⌊	Sb	123	2212.548	0.00	0.7559	0.032	4.251	ug/L
⌈	Ba	135	5240.528	0.01	6.1760	1.029	16.661	ug/L
|	Ce	140	10007.613	0.01				ug/L
⌊>	Tb	159	786020.390	786020.39				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	100.335	2.33	0.0005	0.001	173.205	ug/L
|	Tl	205	226.673	-8.67	-0.0008	0.001	174.736	ug/L
|	Pb	206	2524.033	2464.03	0.6589	0.048	7.267	ug/L
|	Pb	207	2143.875	2120.54	0.6629	0.108	16.345	ug/L
|	Pb	208	9960.922	9769.58	0.6579	0.015	2.300	ug/L
⌊>	Bi	209	749710.531	749710.53				ug/L
⌈	Na	23	99169314.009	221.15	49.4150	6.196	12.538	mg/L
|	Mg	24	867235.395	1.94	0.5971	0.105	17.568	mg/L
|	K	39	2579050.902	4.08	0.3739	0.031	8.250	mg/L
|	Ca	43	58910.348	0.13	7.2240	1.340	18.554	mg/L
|	Fe	54	336387.240	0.67	0.6974	0.072	10.338	mg/L
|	Fe	57	120339.056	0.25	0.6523	0.040	6.195	mg/L

L>	Sc	45	451564.934	451564.93	mg/L
	Cl	35	132892.555	-306687.33	mg/L
	Kr	83	133.669	-32.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		112.903			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		100.843			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.446			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.152			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		95.761			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		112.903			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550207
Report Date/Time: Friday, May 25, 2001 11:50:29

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550208

Sample Date/Time: Friday, May 25, 2001 11:54:48
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20363.315	4344.63				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3892678.427	8.71	1751.0678	133.443	7.621	ug/L
⌊>	Sc-1	45	448039.990	448039.99				ug/L
⌈	V	51	195410.622	0.19	37.0367	0.770	2.078	ug/L
|	Cr	52	28451.779	0.02	3.5163	0.406	11.557	ug/L
|	Cr	53	5335.901	-0.01	-14.0585	6.538	46.504	ug/L
|	Mn	55	59808.987	0.06	7.5811	0.082	1.081	ug/L
|	Co	59	3137.211	0.00	0.4846	0.169	34.854	ug/L
|	Ni	60	5641.239	0.01	4.1724	0.715	17.144	ug/L
|	Cu	65	2035.664	0.00	1.2418	0.216	17.406	ug/L
|	Zn	66	11342.441	0.01	10.2296	1.493	14.596	ug/L
|>	Ge	72	1033573.256	1033573.26				ug/L
|	As	75	2208.700	0.00	1.9073	0.150	7.868	ug/L
|	Se	77	206.670	-0.00	-2.4337	0.091	3.734	ug/L
⌊	Se	82	163.091	0.00	0.3938	0.134	34.150	ug/L
	Y	89	872944.866	12315.80				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	66.734	0.00	0.0066	0.023	344.237	ug/L
|	Cd	114	54.381	0.00	0.0132	0.001	10.932	ug/L
|>	In	115	936626.829	936626.83				ug/L
⌊	Sb	123	813.995	0.00	0.2743	0.010	3.467	ug/L
⌈	Ba	135	8346.655	0.01	10.0585	2.065	20.532	ug/L
|	Ce	140	25713.443	0.03				ug/L
⌊>	Tb	159	772725.232	772725.23				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	110.669	12.67	0.0029	0.001	43.481	ug/L
|	Tl	205	283.008	47.67	0.0047	0.000	6.294	ug/L
|	Pb	206	3157.681	3097.67	0.8284	0.032	3.907	ug/L
|	Pb	207	2704.118	2680.78	0.8380	0.067	8.007	ug/L
|	Pb	208	12379.169	12187.83	0.8207	0.009	1.142	ug/L
⌊>	Bi	209	746400.177	746400.18				ug/L
⌈	Na	23	94004245.571	211.83	47.3312	7.028	14.848	mg/L
|	Mg	24	1009814.372	2.27	0.6990	0.084	12.079	mg/L
|	K	39	2939757.322	4.94	0.4532	0.048	10.659	mg/L
|	Ca	43	70694.132	0.16	8.7929	2.661	30.265	mg/L
|	Fe	54	421050.828	0.87	0.9029	0.150	16.606	mg/L
⌊	Fe	57	138338.413	0.30	0.7703	0.162	20.968	mg/L

Sc	45	448039.990	448039.99		mg/L
Cl	35	151955.496	-287624.39		mg/L
Kr	83	127.336	-38.67		mg/L
U	238	1333.473	1333.47		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		112.022			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		100.554			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		99.718			
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.373			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		95.338			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		112.022			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550208
Report Date/Time: Friday, May 25, 2001 11:55:37
Page 2

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550209

Sample Date/Time: Friday, May 25, 2001 11:59:55
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20696.717	4678.03				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	6762418.542	14.29	2870.7670	194.714	6.783	ug/L
⌊>	Sc-1	45	474357.298	474357.30				ug/L
⌈	V	51	264828.903	0.26	51.0404	2.151	4.214	ug/L
|	Cr	52	37838.242	0.03	5.6521	0.817	14.460	ug/L
|	Cr	53	5668.931	-0.01	-13.2211	1.010	7.637	ug/L
|	Mn	55	166995.067	0.16	21.8170	0.595	2.729	ug/L
|	Co	59	4539.337	0.00	0.7133	0.108	15.115	ug/L
|	Ni	60	4906.594	0.00	3.6818	0.258	7.015	ug/L
|	Cu	65	2903.532	0.00	1.8125	0.572	31.571	ug/L
|	Zn	66	9339.544	0.01	8.5448	1.371	16.049	ug/L
|>	Ge	72	1017561.109	1017561.11				ug/L
|	As	75	4545.604	0.00	4.0688	0.136	3.333	ug/L
|	Se	77	232.670	-0.00	-2.1051	0.083	3.933	ug/L
⌊	Se	82	210.846	0.00	0.8209	0.150	18.237	ug/L
	Y	89	822870.854	-37758.21				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	3103.783	0.00	0.6222	0.069	11.087	ug/L
|	Cd	114	117.122	0.00	0.0356	0.002	6.878	ug/L
|>	In	115	909910.371	909910.37				ug/L
⌊	Sb	123	785.228	0.00	0.2723	0.010	3.655	ug/L
⌈	Ba	135	14763.340	0.02	18.4540	1.214	6.579	ug/L
|	Ce	140	55885.201	0.08				ug/L
⌊>	Tb	159	744967.981	744967.98				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	200.671	102.67	0.0235	0.003	10.685	ug/L
|	Tl	205	541.359	306.02	0.0300	0.003	8.530	ug/L
|	Pb	206	6376.821	6316.81	1.6893	0.088	5.230	ug/L
|	Pb	207	4998.919	4975.58	1.5553	0.095	6.122	ug/L
|	Pb	208	24695.951	24504.61	1.6501	0.023	1.389	ug/L
⌊>	Bi	209	742768.910	742768.91				ug/L
⌈	Na	23	130848400.429	277.93	62.1006	7.541	12.143	mg/L
|	Mg	24	1391065.072	2.93	0.9031	0.073	8.081	mg/L
|	K	39	5183351.254	9.31	0.8535	0.053	6.169	mg/L
|	Ca	43	83490.369	0.18	9.7236	1.495	15.376	mg/L
|	Fe	54	750885.649	1.52	1.5824	0.224	14.140	mg/L
|	Fe	57	254160.347	0.52	1.3603	0.224	16.482	mg/L

L> Sc	45	474357.298	474357.30		mg/L
Cl	35	148871.426	-290708.46		mg/L
Kr	83	132.003	-34.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		118.602			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.996			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		96.874			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		99.660			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		94.875			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		118.602			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550210

Sample Date/Time: Friday, May 25, 2001 12:05:03
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.767	3342.08				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	6205009.043	13.08	2627.7020	293.628	11.174	ug/L
⌊>	Sc-1	45	478674.450	478674.45				ug/L
⌈	V	51	224612.992	0.22	42.6444	1.403	3.290	ug/L
|	Cr	52	32472.754	0.02	4.3827	0.154	3.510	ug/L
|	Cr	53	4335.037	-0.01	-15.8784	5.489	34.568	ug/L
|	Mn	55	124736.716	0.12	16.0178	0.145	0.903	ug/L
|	Co	59	3904.972	0.00	0.6045	0.025	4.114	ug/L
|	Ni	60	5574.454	0.01	4.1273	0.713	17.285	ug/L
|	Cu	65	2336.059	0.00	1.4328	0.266	18.545	ug/L
|	Zn	66	13680.237	0.01	12.3478	2.936	23.780	ug/L
|>	Ge	72	1032246.699	1032246.70				ug/L
|	As	75	3952.128	0.00	3.4763	0.008	0.240	ug/L
|	Se	77	198.669	-0.00	-2.5182	0.150	5.959	ug/L
⌊	Se	82	155.605	0.00	0.3318	0.030	9.167	ug/L
	Y	89	784525.200	-76103.86				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	266.941	0.00	0.0466	0.041	88.496	ug/L
|	Cd	114	96.761	0.00	0.0280	0.005	18.975	ug/L
|>	In	115	923848.520	923848.52				ug/L
⌊	Sb	123	1030.771	0.00	0.3535	0.008	2.293	ug/L
⌈	Ba	135	12556.937	0.02	15.9655	1.340	8.396	ug/L
|	Ce	140	32072.405	0.04				ug/L
⌊>	Tb	159	732050.306	732050.31				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	142.336	44.33	0.0101	0.006	61.622	ug/L
|	Tl	205	339.345	104.01	0.0102	0.000	2.776	ug/L
|	Pb	206	6063.186	6003.18	1.6054	0.110	6.842	ug/L
|	Pb	207	4908.845	4885.51	1.5271	0.056	3.689	ug/L
|	Pb	208	23626.024	23434.68	1.5780	0.019	1.208	ug/L
⌊>	Bi	209	747609.785	747609.79				ug/L
⌈	Na	23	121723446.189	255.02	56.9817	1.979	3.472	mg/L
|	Mg	24	1167218.871	2.45	0.7570	0.092	12.118	mg/L
|	K	39	3827095.115	6.45	0.5913	0.124	21.048	mg/L
|	Ca	43	54541.447	0.11	6.2727	0.485	7.735	mg/L
|	Fe	54	670933.510	1.34	1.3922	0.178	12.759	mg/L
|	Fe	57	207992.815	0.42	1.1048	0.210	18.976	mg/L

> Sc	45	478674.450	478674.45		mg/L
Cl	35	118645.683	-320934.21		mg/L
Kr	83	138.336	-27.67		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		119.681			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		100.425			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		98.358			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		97.932			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		95.493			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		119.681			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550210
Report Date/Time: Friday, May 25, 2001 12:05:52

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550211

Sample Date/Time: Friday, May 25, 2001 12:10:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.495	6015.81				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5359706.725	11.95	2401.2326	222.265	9.256	ug/L
⌊>	Sc-1	45	449393.860	449393.86				ug/L
⌈	V	51	140122.995	0.13	26.1041	1.321	5.060	ug/L
|	Cr	52	37133.425	0.02	5.2534	0.494	9.394	ug/L
|	Cr	53	3667.717	-0.01	-17.3120	2.717	15.696	ug/L
|	Mn	55	109000.634	0.10	13.7370	0.208	1.514	ug/L
|	Co	59	3437.609	0.00	0.5229	0.081	15.478	ug/L
|	Ni	60	3838.248	0.00	2.7898	0.754	27.033	ug/L
|	Cu	65	2836.744	0.00	1.7170	0.300	17.498	ug/L
|	Zn	66	32072.170	0.03	28.4448	2.249	7.908	ug/L
|>	Ge	72	1049878.961	1049878.96				ug/L
|	As	75	2210.893	0.00	1.8786	0.131	6.997	ug/L
|	Se	77	225.337	-0.00	-2.2643	0.205	9.075	ug/L
⌊	Se	82	141.105	0.00	0.1924	0.149	77.412	ug/L
	Y	89	826066.282	-34562.78				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.469	0.00	0.0202	0.030	151.137	ug/L
|	Cd	114	81.580	0.00	0.0228	0.005	22.684	ug/L
|>	In	115	922967.227	922967.23				ug/L
⌊	Sb	123	960.427	0.00	0.3293	0.006	1.957	ug/L
⌈	Ba	135	11621.059	0.02	14.4451	0.779	5.391	ug/L
|	Ce	140	39111.888	0.05				ug/L
⌊>	Tb	159	749475.544	749475.54				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	127.002	29.00	0.0066	0.003	46.648	ug/L
|	Tl	205	318.677	83.34	0.0082	0.002	24.040	ug/L
|	Pb	206	4658.651	4598.65	1.2298	0.020	1.648	ug/L
|	Pb	207	3938.150	3914.81	1.2237	0.092	7.480	ug/L
|	Pb	208	18203.019	18011.68	1.2129	0.022	1.824	ug/L
⌊>	Bi	209	757310.042	757310.04				ug/L
⌈	Na	23	138768172.034	310.09	69.2873	8.934	12.894	mg/L
|	Mg	24	1336303.446	2.98	0.9180	0.085	9.228	mg/L
|	K	39	3567386.493	6.29	0.5767	0.089	15.490	mg/L
|	Ca	43	113902.438	0.25	13.9707	1.268	9.073	mg/L
|	Fe	54	561321.533	1.17	1.2186	0.072	5.891	mg/L
⌊	Fe	57	195985.738	0.42	1.0931	0.053	4.837	mg/L

L> Sc	45	449393.860	449393.86		mg/L
Cl	35	162159.860	-277420.03		mg/L
Kr	83	146.003	-20.00		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		112.360			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		102.140			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		98.264			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		100.263			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		96.732			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		112.360			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550211
Report Date/Time: Friday, May 25, 2001 12:11:00

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0552501

Sample Date/Time: Friday, May 25, 2001 12:15:19
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.955	3342.27				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	751573.623	1.60	321.9686	9.379	2.913	ug/L
⌊>	Sc-1	45	466790.191	466790.19				ug/L
⌈	V	51	10958.023	0.01	1.8464	0.265	14.366	ug/L
|	Cr	52	17672.874	0.00	1.0373	0.228	22.025	ug/L
|	Cr	53	3334.174	-0.01	-18.0856	2.105	11.639	ug/L
|	Mn	55	3886698.218	3.58	479.9986	20.187	4.206	ug/L
|	Co	59	1868.786	0.00	0.2724	0.055	20.202	ug/L
|	Ni	60	3203.927	0.00	2.2465	0.263	11.696	ug/L
|	Cu	65	2636.489	0.00	1.5394	0.495	32.157	ug/L
|	Zn	66	228960.030	0.21	196.6510	16.681	8.482	ug/L
|>	Ge	72	1084470.293	1084470.29				ug/L
|	As	75	1090.197	0.00	0.8558	0.030	3.512	ug/L
|	Se	77	193.336	-0.00	-2.6796	0.357	13.307	ug/L
⌊	Se	82	184.077	0.00	0.4964	0.112	22.601	ug/L
	Y	89	939802.310	79173.25				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	66.734	0.00	0.0061	0.011	178.900	ug/L
|	Cd	114	180.044	0.00	0.0533	0.004	6.600	ug/L
|>	In	115	974372.274	974372.27				ug/L
⌊	Sb	123	495.708	0.00	0.1587	0.010	6.228	ug/L
⌈	Ba	135	6910.271	0.01	8.1371	0.383	4.704	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	786069.263	786069.26				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	84.335	-13.67	-0.0031	0.001	40.299	ug/L
|	Tl	205	226.673	-8.67	-0.0008	0.001	142.411	ug/L
|	Pb	206	4014.863	3954.86	1.0576	0.029	2.787	ug/L
|	Pb	207	3414.491	3391.16	1.0600	0.017	1.625	ug/L
|	Pb	208	15883.105	15691.76	1.0566	0.014	1.363	ug/L
⌊>	Bi	209	778920.587	778920.59				ug/L
⌈	Na	23	49068150.161	105.22	23.5096	0.918	3.906	mg/L
|	Mg	24	21455950.476	46.10	14.2211	1.354	9.523	mg/L
|	K	39	37628893.722	79.21	7.2596	0.888	12.231	mg/L
|	Ca	43	230684.798	0.49	27.2297	2.466	9.055	mg/L
|	Fe	54	16990093.555	36.37	37.8869	3.425	9.040	mg/L
⌊	Fe	57	6872746.269	14.71	38.2809	0.874	2.283	mg/L

L>	Sc	45	466790.191	466790.19	mg/L
	Cl	35	489556.794	49976.91	mg/L
	Kr	83	139.336	-26.67	mg/L
	U	238	1000.117	1000.12	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		116.710			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.506			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		103.737			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.158			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		99.492			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		116.710			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552501
Report Date/Time: Friday, May 25, 2001 12:16:08

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: 0552604

Sample Date/Time: Friday, May 25, 2001 12:20:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18022.849	2004.16				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	50511.789	0.09	18.8238	2.460	13.068	ug/L
|>	Sc-1	45	493150.097	493150.10				ug/L
⌈	V	51	5214.055	0.00	0.8129	0.720	88.514	ug/L
|	Cr	52	18342.013	0.01	1.1996	0.393	32.766	ug/L
|	Cr	53	2333.777	-0.01	-19.8631	2.099	10.568	ug/L
|	Mn	55	13961.089	0.01	1.5673	0.244	15.590	ug/L
|	Co	59	1368.168	0.00	0.1996	0.031	15.666	ug/L
|	Ni	60	800.856	0.00	0.5467	0.328	59.915	ug/L
|	Cu	65	1902.185	0.00	1.1086	0.481	43.430	ug/L
|	Zn	66	14683.816	0.01	12.6981	5.770	45.442	ug/L
|>	Ge	72	1076725.842	1076725.84				ug/L
|	As	75	71.556	-0.00	-0.0154	0.033	215.597	ug/L
|	Se	77	147.335	-0.00	-3.1557	0.124	3.933	ug/L
⌊	Se	82	130.213	0.00	0.0739	0.008	11.400	ug/L
	Y	89	923398.998	62769.93				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	26508.980	0.03	5.0727	0.240	4.736	ug/L
|	Cd	114	44.716	0.00	0.0095	0.004	45.388	ug/L
|>	In	115	962089.199	962089.20				ug/L
⌊	Sb	123	94.857	0.00	0.0270	0.001	2.605	ug/L
⌈	Ba	135	333.675	0.00	0.3413	0.052	15.170	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	809438.606	809438.61				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	81.335	-16.67	-0.0038	0.001	24.249	ug/L
|	Tl	205	174.337	-61.00	-0.0060	0.002	27.545	ug/L
|	Pb	206	1190.218	1130.21	0.3022	0.012	3.858	ug/L
|	Pb	207	1046.849	1023.51	0.3199	0.039	12.141	ug/L
|	Pb	208	4756.203	4564.86	0.3074	0.013	4.112	ug/L
|>	Bi	209	788644.237	788644.24				ug/L
⌈	Na	23	377408.234	0.75	0.1669	0.006	3.629	mg/L
|	Mg	24	156022.345	0.31	0.0966	0.003	3.039	mg/L
|	K	39	886092.624	0.15	0.0134	0.021	153.507	mg/L
|	Ca	43	2333.823	0.00	0.2108	0.161	76.437	mg/L
|	Fe	54	319530.701	0.57	0.5918	0.037	6.288	mg/L
|	Fe	57	77092.717	0.14	0.3657	0.098	26.927	mg/L

Sc	45	493150.097	493150.10		mg/L
Cl	35	64289.004	-375290.88		mg/L
Kr	83	140.336	-25.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		123.301			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		104.752			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.429			
Sb	123					
Ba	135					
Ce	140					
Tb	159		108.284			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.734			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		123.301			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540411

Sample Date/Time: Friday, May 25, 2001 12:25:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17020.582	1001.89				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	130885.162	0.27	53.4505	13.692	25.617	ug/L
|>	Sc-1	45	480407.644	480407.64				ug/L
⌈	V	51	3598.811	0.00	0.5206	0.354	68.036	ug/L
|	Cr	52	14763.337	0.00	0.4786	0.117	24.457	ug/L
|	Cr	53	1666.877	-0.01	-21.0631	1.050	4.985	ug/L
|	Mn	55	4706.272	0.00	0.4182	0.076	18.098	ug/L
|	Co	59	1234.685	0.00	0.1803	0.071	39.395	ug/L
|	Ni	60	333.676	0.00	0.2141	0.110	51.179	ug/L
|	Cu	65	300.307	0.00	0.1401	0.061	43.463	ug/L
|	Zn	66	6336.906	0.01	5.5030	3.515	63.877	ug/L
|>	Ge	72	1072389.706	1072389.71				ug/L
|	As	75	81.700	-0.00	-0.0064	0.073	1133.224	ug/L
|	Se	77	186.669	-0.00	-2.7295	0.121	4.433	ug/L
⌊	Se	82	112.473	-0.00	-0.0650	0.126	193.636	ug/L
	Y	89	831733.933	-28895.13				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0000	0.011	27288.640	ug/L
|	Cd	114	22.660	0.00	0.0023	0.003	145.642	ug/L
|>	In	115	961837.429	961837.43				ug/L
⌊	Sb	123	153.483	0.00	0.0466	0.004	9.201	ug/L
⌈	Ba	135	467.160	0.00	0.5310	0.560	105.507	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	762114.245	762114.25				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	39.334	-58.67	-0.0134	0.000	3.548	ug/L
|	Tl	205	81.668	-153.67	-0.0151	0.001	3.976	ug/L
|	Pb	206	376.714	316.71	0.0847	0.009	10.151	ug/L
|	Pb	207	406.719	383.38	0.1198	0.010	8.386	ug/L
|	Pb	208	1583.153	1391.81	0.0937	0.001	1.443	ug/L
|>	Bi	209	786810.060	786810.06				ug/L
⌈	Na	23	377840.794	0.77	0.1717	0.015	8.795	mg/L
|	Mg	24	155689.641	0.32	0.0990	0.003	2.861	mg/L
|	K	39	777555.958	-0.02	-0.0019	0.015	768.210	mg/L
|	Ca	43	4334.664	0.01	0.4577	0.104	22.710	mg/L
|	Fe	54	133843.577	0.20	0.2108	0.054	25.845	mg/L
|	Fe	57	14015.184	0.01	0.0326	0.032	96.776	mg/L

Sc	45	480407.644	480407.64		mg/L
Cl	35	78094.653	-361485.24		mg/L
Kr	83	139.003	-27.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		120.115			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		104.330			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.402			
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.954			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.500			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		120.115			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411
Report Date/Time: Friday, May 25, 2001 12:26:26

Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 12:30:45
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18693.636	2674.95				ug/L
⌈	Be	9	17304.965	0.04	54.6593	3.701	6.771	ug/L
|	Al	27	315856.989	0.69	55.2610	0.101	0.183	ug/L
|>	Sc-1	45	453323.054	453323.05				ug/L
⌈	V	51	774625.280	0.73	57.6341	2.308	4.005	ug/L
|	Cr	52	673771.851	0.63	55.2949	1.796	3.248	ug/L
|	Cr	53	74389.298	0.06	45.4263	7.106	15.643	ug/L
|	Mn	55	1032952.160	0.98	52.3397	1.390	2.656	ug/L
|	Co	59	808283.459	0.77	49.3395	1.079	2.188	ug/L
|	Ni	60	176632.882	0.17	51.4041	2.110	4.105	ug/L
|	Cu	65	202772.276	0.19	50.0015	1.712	3.423	ug/L
|	Zn	66	131908.100	0.12	46.4504	9.340	20.107	ug/L
|>	Ge	72	1056437.235	1056437.23				ug/L
|	As	75	136443.959	0.13	47.9339	1.250	2.608	ug/L
|	Se	77	11459.855	0.01	47.7854	0.887	1.857	ug/L
⌊	Se	82	14769.482	0.01	48.0201	1.003	2.089	ug/L
	Y	89	842278.211	-18350.85				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	616542.404	0.68	50.0791	1.650	3.295	ug/L
|	Cd	114	359624.336	0.40	50.1131	0.688	1.373	ug/L
|>	In	115	907997.591	907997.59				ug/L
⌊	Sb	123	341956.488	0.38	48.3470	0.489	1.011	ug/L
⌈	Ba	135	99453.602	0.13	49.0247	3.486	7.111	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	759590.574	759590.57				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	517586.821	517488.82	47.3728	0.296	0.626	ug/L
|	Tl	205	1309956.817	1309721.48	51.3739	0.074	0.144	ug/L
|	Pb	206	489503.758	489443.75	52.3556	0.820	1.566	ug/L
|	Pb	207	370131.573	370108.24	46.2763	0.659	1.424	ug/L
|	Pb	208	1804759.307	1804567.96	48.6056	0.183	0.378	ug/L
|>	Bi	209	761359.471	761359.47				ug/L
⌈	Na	23	28407876.409	62.50	5.5861	0.368	6.592	mg/L
|	Mg	24	21733360.744	47.97	5.9192	0.104	1.750	mg/L
|	K	39	65100294.661	142.24	5.2144	0.219	4.195	mg/L
|	Ca	43	104427.126	0.23	5.0644	0.142	2.799	mg/L
|	Fe	54	4928946.677	10.80	4.5020	0.106	2.357	mg/L
|	Fe	57	2138269.796	4.71	4.9036	0.324	6.613	mg/L

\> Sc	45	453323.054	453323.05		mg/L
Cl	35	41788.660	-397791.23		mg/L
Kr	83	143.003	-23.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	109.319				
|	Al	27	110.522				
\>	Sc-1	45		113.343			
⌈	V	51	115.268				
|	Cr	52	110.590				
|	Cr	53	90.853				
|	Mn	55	104.679				
|	Co	59	98.679				
|	Ni	60	102.808				
|	Cu	65	100.003				
|	Zn	66	92.901				
\>	Ge	72		102.778			
|	As	75	95.868				
|	Se	77	95.571				
⌊	Se	82	96.040				
	Y	89					
⌈	Rh	103					
|	Ag	107	100.158				
|	Cd	114	100.226				
\>	In	115		96.670			
⌊	Sb	123	96.694				
⌈	Ba	135	98.049				
|	Ce	140					
\>	Tb	159		101.616			
⌈	Ho	165					
|	Tl	203	94.746				
|	Tl	205	102.748				
|	Pb	206	104.711				
|	Pb	207	92.553				
|	Pb	208	97.211				
\>	Bi	209		97.249			
⌈	Na	23	111.721				
|	Mg	24	118.383				
|	K	39	104.288				
|	Ca	43	101.287				
|	Fe	54	90.041				
|	Fe	57	98.072				
\>	Sc	45		113.343			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 12:31:35

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 12:35:53
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.819	-333.87				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5335.901	0.00	0.3164	0.742	234.377	ug/L
⌊>	Sc-1	45	421101.483	421101.48				ug/L
⌈	V	51	3205.575	0.00	0.1877	0.180	95.783	ug/L
|	Cr	52	14228.836	0.00	0.1809	0.297	164.076	ug/L
|	Cr	53	1000.210	-0.01	-8.9004	1.281	14.390	ug/L
|	Mn	55	500.519	-0.00	-0.0423	0.009	20.384	ug/L
|	Co	59	0.000	-0.00	-0.0021	0.000	0.000	ug/L
|	Ni	60	33.367	0.00	0.0001	0.017	20488.294	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1046511.900	1046511.90				ug/L
|	As	75	104.563	0.00	0.0065	0.017	267.742	ug/L
|	Se	77	147.335	-0.00	-1.2453	0.077	6.211	ug/L
⌊	Se	82	113.060	-0.00	-0.0152	0.011	72.443	ug/L
	Y	89	821396.906	-39232.16				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
|	Cd	114	15.132	0.00	0.0001	0.001	1177.908	ug/L
|>	In	115	904982.162	904982.16				ug/L
⌊	Sb	123	1073.693	0.00	0.1504	0.004	2.381	ug/L
⌈	Ba	135	33.367	0.00	0.0007	0.030	4133.850	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	690911.571	690911.57				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	44.001	-54.00	-0.0049	0.000	7.407	ug/L
|	Tl	205	84.668	-150.67	-0.0059	0.000	2.682	ug/L
|	Pb	206	83.342	23.34	0.0025	0.004	150.509	ug/L
|	Pb	207	26.669	3.33	0.0004	0.001	346.412	ug/L
|	Pb	208	226.680	35.34	0.0010	0.001	69.577	ug/L
⌊>	Bi	209	749452.977	749452.98				ug/L
⌈	Na	23	7337.863	-0.00	-0.0001	0.001	608.917	mg/L
|	Mg	24	1333.520	-0.00	-0.0000	0.000	1066.413	mg/L
|	K	39	793523.231	0.25	0.0091	0.009	101.013	mg/L
|	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
|	Fe	54	40718.410	0.02	0.0076	0.008	111.505	mg/L
|	Fe	57	13346.086	0.01	0.0155	0.004	28.590	mg/L

>	Sc	45	421101.483	421101.48	mg/L
	Cl	35	30064.448	-409515.44	mg/L
	Kr	83	136.003	-30.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		105.287			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		101.813			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		96.349			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		92.428			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		95.728			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		105.287			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 12:36:41

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0543313

Sample Date/Time: Friday, May 25, 2001 12:41:01
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15351.557	-667.13				ug/L
⌈	Be	9	200.203	0.00	1.4005	0.639	45.648	ug/L
|	Al	27	31753965.328	62.83	12625.4230	229.399	1.817	ug/L
⌊>	Sc-1	45	505302.799	505302.80				ug/L
⌈	V	51	392768.150	0.38	74.0670	4.447	6.004	ug/L
|	Cr	52	70179.679	0.06	12.3227	0.353	2.866	ug/L
|	Cr	53	8672.317	-0.00	-7.8299	5.374	68.630	ug/L
|	Mn	55	1029697.308	0.99	132.3587	7.173	5.419	ug/L
|	Co	59	20248.971	0.02	3.1297	0.199	6.347	ug/L
|	Ni	60	15231.566	0.01	11.2248	1.290	11.492	ug/L
|	Cu	65	10284.342	0.01	6.3930	0.062	0.972	ug/L
|	Zn	66	53534.953	0.05	47.8919	5.451	11.381	ug/L
| >	Ge	72	1040854.160	1040854.16				ug/L
|	As	75	4612.817	0.00	4.0363	0.072	1.774	ug/L
|	Se	77	244.671	-0.00	-2.0318	0.186	9.131	ug/L
⌊	Se	82	216.050	0.00	0.8242	0.128	15.514	ug/L
	Y	89	948827.968	88198.90				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	300.307	0.00	0.0523	0.020	38.597	ug/L
|	Cd	114	433.318	0.00	0.1402	0.003	2.409	ug/L
| >	In	115	942832.802	942832.80				ug/L
⌊	Sb	123	1379.827	0.00	0.4651	0.010	2.121	ug/L
⌈	Ba	135	116560.818	0.16	147.6979	8.388	5.679	ug/L
|	Ce	140	247600.603	0.34				ug/L
⌊>	Tb	159	736567.693	736567.69				ug/L
⌈	Ho	165	3334.220	3334.22				ug/L
|	Tl	203	512.023	414.02	0.0948	0.005	4.758	ug/L
|	Tl	205	1351.141	1115.80	0.1094	0.003	2.586	ug/L
|	Pb	206	35387.661	35327.65	9.4475	0.179	1.894	ug/L
|	Pb	207	29540.579	29517.24	9.2267	0.108	1.171	ug/L
|	Pb	208	139291.739	139100.39	9.3666	0.056	0.594	ug/L
⌊>	Bi	209	754533.930	754533.93				ug/L
⌈	Na	23	132742258.856	263.91	58.9675	8.212	13.926	mg/L
|	Mg	24	5655123.917	11.17	3.4447	0.252	7.329	mg/L
|	K	39	11080901.219	20.35	1.8653	0.164	8.770	mg/L
|	Ca	43	537212.608	1.07	58.8880	7.744	13.150	mg/L
|	Fe	54	2647960.299	5.18	5.3932	0.538	9.979	mg/L
|	Fe	57	1127521.308	2.22	5.7827	0.501	8.659	mg/L

>	Sc	45	505302.799	505302.80	mg/L
	Cl	35	131876.525	-307703.36	mg/L
	Kr	83	163.337	-2.67	mg/L
	U	238	2333.823	2333.82	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		126.339			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		101.262			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.379			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		98.536			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		96.377			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		126.339			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543314

Sample Date/Time: Friday, May 25, 2001 12:46:11
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16017.987	-0.70				ug/L
⌈	Be	9	33.367	0.00	0.2579	0.447	173.205	ug/L
|	Al	27	8900175.853	18.95	3808.4542	175.536	4.609	ug/L
|>	Sc-1	45	469260.999	469261.00				ug/L
⌈	V	51	258973.017	0.24	47.7816	1.843	3.856	ug/L
|	Cr	52	34719.102	0.02	4.6581	0.590	12.656	ug/L
|	Cr	53	5335.387	-0.01	-14.2743	2.191	15.347	ug/L
|	Mn	55	140441.643	0.13	17.5458	0.953	5.434	ug/L
|	Co	59	4071.902	0.00	0.6125	0.040	6.500	ug/L
|	Ni	60	3904.991	0.00	2.8007	0.476	17.007	ug/L
|	Cu	65	3404.218	0.00	2.0438	0.136	6.672	ug/L
|	Zn	66	19696.418	0.02	17.2189	6.433	37.362	ug/L
|>	Ge	72	1062214.773	1062214.77				ug/L
|	As	75	3663.841	0.00	3.1246	0.075	2.413	ug/L
|	Se	77	233.337	-0.00	-2.2064	0.269	12.199	ug/L
⌊	Se	82	209.042	0.00	0.7309	0.112	15.325	ug/L
	Y	89	918391.779	57762.72				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0130	0.020	149.970	ug/L
|	Cd	114	113.174	0.00	0.0327	0.001	3.349	ug/L
|>	In	115	946396.112	946396.11				ug/L
⌊	Sb	123	811.946	0.00	0.2707	0.009	3.195	ug/L
⌈	Ba	135	14094.648	0.02	16.7017	2.555	15.300	ug/L
|	Ce	140	50511.977	0.06				ug/L
|>	Tb	159	795409.225	795409.22				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	184.338	86.34	0.0198	0.003	15.555	ug/L
|	Tl	205	461.019	225.68	0.0221	0.001	3.517	ug/L
|	Pb	206	8365.738	8305.73	2.2212	0.090	4.072	ug/L
|	Pb	207	6877.335	6854.00	2.1425	0.098	4.566	ug/L
|	Pb	208	32782.089	32590.75	2.1946	0.013	0.595	ug/L
|>	Bi	209	755387.209	755387.21				ug/L
⌈	Na	23	120173925.657	256.13	57.2300	2.800	4.893	mg/L
|	Mg	24	1803579.817	3.84	1.1853	0.052	4.372	mg/L
|	K	39	4743289.421	8.46	0.7749	0.042	5.451	mg/L
|	Ca	43	94960.500	0.20	11.1174	0.329	2.957	mg/L
|	Fe	54	1082803.715	2.23	2.3214	0.055	2.383	mg/L
|	Fe	57	370455.400	0.77	2.0080	0.214	10.660	mg/L

> Sc	45	469260.999	469261.00		mg/L
Cl	35	123410.150	-316169.74		mg/L
Kr	83	146.336	-19.67		mg/L
U	238	1666.970	1666.97		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		117.328			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.340			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		100.759			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		106.408			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		96.486			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		117.328			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543314
Report Date/Time: Friday, May 25, 2001 12:47:01

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543315

Sample Date/Time: Friday, May 25, 2001 12:51:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20364.205	4345.52				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	15025554.967	28.22	5669.4713	936.874	16.525	ug/L
|>	Sc-1	45	539476.878	539476.88				ug/L
⌈	V	51	222196.502	0.21	41.5978	1.127	2.710	ug/L
|	Cr	52	43408.319	0.03	6.5974	0.541	8.204	ug/L
|	Cr	53	4668.207	-0.01	-15.3910	1.012	6.573	ug/L
|	Mn	55	165978.277	0.16	21.0598	1.435	6.816	ug/L
|	Co	59	4439.183	0.00	0.6784	0.129	19.059	ug/L
|	Ni	60	5874.989	0.01	4.2835	0.580	13.538	ug/L
|	Cu	65	3804.890	0.00	2.3275	0.796	34.218	ug/L
|	Zn	66	29059.741	0.03	25.8352	3.346	12.953	ug/L
|>	Ge	72	1046704.563	1046704.56				ug/L
|	As	75	3631.776	0.00	3.1438	0.095	3.030	ug/L
|	Se	77	234.004	-0.00	-2.1612	0.218	10.091	ug/L
⌊	Se	82	216.071	0.00	0.8141	0.101	12.389	ug/L
	Y	89	880497.452	19868.39				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	200.203	0.00	0.0336	0.020	60.538	ug/L
|	Cd	114	148.074	0.00	0.0456	0.003	5.706	ug/L
|>	In	115	923211.422	923211.42				ug/L
⌊	Sb	123	1671.523	0.00	0.5764	0.008	1.327	ug/L
⌈	Ba	135	12623.872	0.02	14.5410	1.051	7.225	ug/L
|	Ce	140	41789.789	0.05				ug/L
|>	Tb	159	804654.367	804654.37				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	259.007	161.01	0.0368	0.009	24.775	ug/L
|	Tl	205	648.036	412.70	0.0405	0.002	4.449	ug/L
|	Pb	206	9527.303	9467.30	2.5318	0.039	1.526	ug/L
|	Pb	207	8182.182	8158.85	2.5503	0.169	6.636	ug/L
|	Pb	208	38261.882	38070.54	2.5636	0.046	1.789	ug/L
|>	Bi	209	741643.632	741643.63				ug/L
⌈	Na	23	122584290.928	228.44	51.0418	4.270	8.366	mg/L
|	Mg	24	2710529.501	5.06	1.5613	0.168	10.747	mg/L
|	K	39	5792945.103	9.17	0.8408	0.125	14.917	mg/L
|	Ca	43	113569.960	0.21	11.6264	1.314	11.299	mg/L
|	Fe	54	1436312.990	2.63	2.7351	0.568	20.749	mg/L
|	Fe	57	525314.397	0.97	2.5124	0.280	11.152	mg/L

L> Sc	45	539476.878	539476.88		mg/L
Cl	35	175473.140	-264106.75		mg/L
Kr	83	137.669	-28.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		134.884			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.831			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		98.290			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		107.644			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		94.731			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		134.884			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543315
Report Date/Time: Friday, May 25, 2001 12:52:11

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543316

Sample Date/Time: Friday, May 25, 2001 12:56:31
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.293	2672.60				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	7371893.764	14.90	2994.8280	337.600	11.273	ug/L
|>	Sc-1	45	494908.846	494908.85				ug/L
⌈	V	51	53127.328	0.05	9.8750	0.352	3.566	ug/L
|	Cr	52	38374.623	0.03	5.5584	0.424	7.632	ug/L
|	Cr	53	4001.167	-0.01	-16.6028	1.893	11.399	ug/L
|	Mn	55	47773.782	0.04	5.9653	0.320	5.358	ug/L
|	Co	59	2636.460	0.00	0.4022	0.048	11.946	ug/L
|	Ni	60	4272.223	0.00	3.1224	0.311	9.967	ug/L
|	Cu	65	2603.122	0.00	1.5824	0.614	38.825	ug/L
|	Zn	66	39777.930	0.04	35.5165	3.852	10.847	ug/L
|>	Ge	72	1043171.068	1043171.07				ug/L
|	As	75	1338.977	0.00	1.1141	0.079	7.094	ug/L
|	Se	77	200.670	-0.00	-2.5193	0.319	12.650	ug/L
⌊	Se	82	147.293	0.00	0.2491	0.099	39.791	ug/L
	Y	89	894451.844	33822.78				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.571	0.00	0.0407	0.023	57.404	ug/L
|	Cd	114	62.971	0.00	0.0167	0.003	17.157	ug/L
|>	In	115	911124.282	911124.28				ug/L
⌊	Sb	123	4375.234	0.00	1.5367	0.045	2.906	ug/L
⌈	Ba	135	4639.517	0.01	5.2597	0.645	12.262	ug/L
|	Ce	140	53203.215	0.07				ug/L
|>	Tb	159	811490.924	811490.92				ug/L
⌈	Ho	165	1000.070	1000.07				ug/L
|	Tl	203	140.669	42.67	0.0098	0.002	16.955	ug/L
|	Tl	205	350.345	115.01	0.0113	0.001	5.658	ug/L
|	Pb	206	15334.653	15274.65	4.0848	0.136	3.318	ug/L
|	Pb	207	13226.896	13203.56	4.1272	0.114	2.768	ug/L
|	Pb	208	61960.120	61768.78	4.1593	0.055	1.314	ug/L
|>	Bi	209	735244.843	735244.84				ug/L
⌈	Na	23	180949564.278	365.44	81.6553	6.707	8.213	mg/L
|	Mg	24	1110969.579	2.24	0.6914	0.034	4.936	mg/L
|	K	39	6564856.842	11.61	1.0643	0.021	2.002	mg/L
|	Ca	43	22034.542	0.04	2.4107	0.416	17.252	mg/L
|	Fe	54	713920.163	1.36	1.4215	0.185	13.028	mg/L
|	Fe	57	249634.417	0.49	1.2704	0.113	8.919	mg/L

L>	Sc	45	494908.846	494908.85	mg/L
	Cl	35	344101.236	-95478.65	mg/L
	Kr	83	143.336	-22.67	mg/L
	U	238	666.713	666.71	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		123.740			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		101.488			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		97.003			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		108.559			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		93.913			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		123.740			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543316
Report Date/Time: Friday, May 25, 2001 12:57:21

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 13:01:41
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.899	668.21				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	66252100.499	155.17	12471.5952	372.828	2.989	ug/L
⌊>	Sc-1	45	426722.296	426722.30				ug/L
⌈	V	51	4912.027	0.00	0.3206	0.210	65.347	ug/L
|	Cr	52	17907.047	0.01	0.5168	0.119	22.992	ug/L
|	Cr	53	4001.868	-0.01	-6.6019	3.029	45.877	ug/L
|	Mn	55	7845.537	0.01	0.3416	0.056	16.374	ug/L
|	Co	59	1234.677	0.00	0.0754	0.013	16.984	ug/L
|	Ni	60	2302.677	0.00	0.6794	0.077	11.333	ug/L
|	Cu	65	1434.919	0.00	0.3472	0.096	27.562	ug/L
|	Zn	66	2667.180	0.00	0.9676	0.207	21.432	ug/L
|>	Ge	72	1026365.557	1026365.56				ug/L
|	As	75	137.122	0.00	0.0189	0.055	291.875	ug/L
|	Se	77	517.352	0.00	0.4194	0.055	13.171	ug/L
⌊	Se	82	121.495	0.00	0.0208	0.065	310.099	ug/L
	Y	89	795317.055	-65312.01				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0057	0.000	2.007	ug/L
|	Cd	114	2381.606	0.00	0.3387	0.009	2.672	ug/L
|>	In	115	884483.603	884483.60				ug/L
⌊	Sb	123	836.859	0.00	0.1197	0.006	4.824	ug/L
⌈	Ba	135	333.677	0.00	0.1536	0.134	86.998	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	764718.041	764718.04				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	83.335	-14.67	-0.0013	0.001	77.540	ug/L
|	Tl	205	199.005	-36.33	-0.0014	0.001	35.139	ug/L
|	Pb	206	1563.662	1503.66	0.1608	0.016	9.875	ug/L
|	Pb	207	1260.238	1236.90	0.1547	0.015	9.838	ug/L
|	Pb	208	6022.648	5831.30	0.1571	0.003	1.740	ug/L
⌊>	Bi	209	732649.813	732649.81				ug/L
⌈	Na	23	137907327.294	323.76	28.9361	2.026	7.001	mg/L
|	Mg	24	39577198.345	92.78	11.4491	0.620	5.414	mg/L
|	K	39	130662293.539	305.07	11.1839	0.728	6.507	mg/L
|	Ca	43	652418.908	1.53	33.7545	4.478	13.265	mg/L
|	Fe	54	21878225.477	51.26	21.3583	1.323	6.194	mg/L
|	Fe	57	9627753.640	22.58	23.4986	1.243	5.290	mg/L

>	Sc	45	426722.296	426722.30	mg/L
	Cl	35	6218060.843	5778480.96	mg/L
	Kr	83	174.671	8.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	124.716				
>	Sc-1	45		106.692			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		99.853			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		94.167			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		102.302			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		93.582			
⌈	Na	23	115.744				
|	Mg	24	114.491				
|	K	39	111.839				
|	Ca	43	112.515				
|	Fe	54	85.433				
|	Fe	57	93.994				
>	Sc	45		106.692			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 13:02:31

QC Std 4	Al	27	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 13:06:51
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21033.353	5014.66				ug/L
⌈	Be	9	33.367	0.00	0.1196	0.207	173.205	ug/L
|	Al	27	66840136.894	169.85	13651.3983	1196.366	8.764	ug/L
⌊>	Sc-1	45	393553.079	393553.08				ug/L
⌈	V	51	300662.572	0.30	23.4011	0.802	3.428	ug/L
|	Cr	52	266409.113	0.25	22.3134	0.744	3.336	ug/L
|	Cr	53	38772.189	0.03	20.4480	3.030	14.816	ug/L
|	Mn	55	397375.124	0.39	21.0593	0.248	1.178	ug/L
|	Co	59	313966.255	0.31	20.0771	0.522	2.601	ug/L
|	Ni	60	72471.779	0.07	22.0879	0.855	3.869	ug/L
|	Cu	65	72336.751	0.07	18.6834	0.753	4.032	ug/L
|	Zn	66	31069.436	0.03	11.4987	2.563	22.293	ug/L
|>	Ge	72	1007868.242	1007868.24				ug/L
|	As	75	25664.813	0.03	9.4245	0.198	2.100	ug/L
|	Se	77	2521.779	0.00	9.5709	0.387	4.042	ug/L
⌊	Se	82	2785.324	0.00	9.1793	0.209	2.272	ug/L
	Y	89	789067.552	-71561.51				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	56815.254	0.07	4.8232	0.149	3.087	ug/L
|	Cd	114	68308.582	0.08	9.9575	0.306	3.072	ug/L
|>	In	115	867980.414	867980.41				ug/L
⌊	Sb	123	809.067	0.00	0.1178	0.002	1.666	ug/L
⌈	Ba	135	233.571	0.00	0.1076	0.028	26.469	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	701301.297	701301.30				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	77.335	-20.67	-0.0019	0.000	2.794	ug/L
|	Tl	205	207.005	-28.33	-0.0011	0.000	37.352	ug/L
|	Pb	206	1346.929	1286.92	0.1377	0.007	5.291	ug/L
|	Pb	207	1086.858	1063.52	0.1330	0.011	8.430	ug/L
|	Pb	208	5125.988	4934.64	0.1329	0.004	3.327	ug/L
⌊>	Bi	209	720167.262	720167.26				ug/L
⌈	Na	23	139973354.670	355.97	31.8150	2.691	8.459	mg/L
|	Mg	24	39577198.345	100.50	12.4013	0.765	6.168	mg/L
|	K	39	130431441.431	329.80	12.0904	0.190	1.572	mg/L
|	Ca	43	678865.391	1.73	38.0648	2.941	7.727	mg/L
|	Fe	54	22990309.928	58.34	24.3119	2.914	11.985	mg/L
|	Fe	57	9838256.884	25.00	26.0165	1.490	5.727	mg/L

|> Sc	45	393553.079	393553.08		mg/L
Cl	35	6006932.819	5567352.93		mg/L
Kr	83	185.338	19.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	136.514				
|>	Sc-1	45		98.399			
⌈	V	51	117.005				
|	Cr	52	111.567				
|	Cr	53	102.240				
|	Mn	55	105.297				
|	Co	59	100.386				
|	Ni	60	110.440				
|	Cu	65	93.417				
|	Zn	66	114.987				
|>	Ge	72		98.053			
|	As	75	94.245				
|	Se	77	95.709				
⌊	Se	82	91.793				
	Y	89					
⌈	Rh	103					
|	Ag	107	96.465				
|	Cd	114	99.575				
|>	In	115		92.410			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		93.818			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		91.988			
⌈	Na	23	127.260				
|	Mg	24	124.013				
|	K	39	120.904				
|	Ca	43	126.883				
|	Fe	54	97.247				
|	Fe	57	104.066				
|>	Sc	45		98.399			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 13:07:41

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	Na	23	ICSAB is out of limits {+/-20%}
QC Std 5	Mg	24	ICSAB is out of limits {+/-20%}
QC Std 5	K	39	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 13:12:01
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19359.830	3341.14				ug/L
⌈	Be	9	17907.047	0.04	59.1883	7.640	12.908	ug/L
|	Al	27	338889.727	0.78	62.3199	9.715	15.589	ug/L
⌊>	Sc-1	45	435256.544	435256.54				ug/L
⌈	V	51	756748.404	0.74	57.9043	0.940	1.624	ug/L
|	Cr	52	644498.553	0.62	54.4020	2.747	5.049	ug/L
|	Cr	53	80118.572	0.07	51.2601	7.160	13.968	ug/L
|	Mn	55	1050177.313	1.02	54.7420	1.961	3.582	ug/L
|	Co	59	811618.608	0.79	50.9657	1.929	3.785	ug/L
|	Ni	60	173829.887	0.17	52.0415	2.601	4.998	ug/L
|	Cu	65	197251.124	0.19	50.0228	2.203	4.405	ug/L
|	Zn	66	141728.643	0.14	51.4325	3.579	6.958	ug/L
|>	Ge	72	1026981.613	1026981.61				ug/L
|	As	75	134004.917	0.13	48.4250	1.472	3.039	ug/L
|	Se	77	11292.253	0.01	48.4668	0.990	2.043	ug/L
⌊	Se	82	14668.754	0.01	49.0710	1.518	3.093	ug/L
	Y	89	776024.578	-84604.49				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	609103.081	0.68	50.2790	1.096	2.180	ug/L
|	Cd	114	349814.698	0.39	49.5476	0.991	1.999	ug/L
|>	In	115	893266.054	893266.05				ug/L
⌊	Sb	123	336490.308	0.38	48.3627	0.552	1.141	ug/L
⌈	Ba	135	102025.569	0.14	53.4171	2.035	3.809	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	711790.902	711790.90				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510882.715	510784.71	46.7591	0.411	0.879	ug/L
|	Tl	205	1290453.423	1290218.08	50.6089	0.701	1.386	ug/L
|	Pb	206	479270.311	479210.30	51.2609	0.229	0.447	ug/L
|	Pb	207	364369.936	364346.60	45.5559	0.844	1.852	ug/L
|	Pb	208	1766481.678	1766290.33	47.5746	0.185	0.388	ug/L
⌊>	Bi	209	747768.268	747768.27				ug/L
⌈	Na	23	28235707.461	65.22	5.8294	0.970	16.641	mg/L
|	Mg	24	21042724.763	48.72	6.0116	0.850	14.132	mg/L
|	K	39	73641822.684	168.58	6.1801	0.956	15.464	mg/L
|	Ca	43	111212.026	0.25	5.5978	0.784	14.012	mg/L
|	Fe	54	4778448.282	10.92	4.5495	0.145	3.177	mg/L
⌊	Fe	57	1988016.150	4.57	4.7594	0.419	8.812	mg/L

L>	Sc	45	435256.544	435256.54	mg/L
	Cl	35	91248.882	-348331.01	mg/L
	Kr	83	145.670	-20.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	118.377				
|	Al	27	124.640				
L>	Sc-1	45		108.826			
⌈	V	51	115.809				
|	Cr	52	108.804				
|	Cr	53	102.520				
|	Mn	55	109.484				
|	Co	59	101.931				
|	Ni	60	104.083				
|	Cu	65	100.046				
|	Zn	66	102.865				
\>	Ge	72		99.913			
|	As	75	96.850				
|	Se	77	96.934				
L	Se	82	98.142				
	Y	89					
⌈	Rh	103					
|	Ag	107	100.558				
|	Cd	114	99.095				
\>	In	115		95.102			
L	Sb	123	96.725				
⌈	Ba	135	106.834				
|	Ce	140					
L>	Tb	159		95.221			
⌈	Ho	165					
|	Tl	203	93.518				
|	Tl	205	101.218				
|	Pb	206	102.522				
|	Pb	207	91.112				
|	Pb	208	95.149				
L>	Bi	209		95.513			
⌈	Na	23	116.588				
|	Mg	24	120.232				
|	K	39	123.602				
|	Ca	43	111.956				
|	Fe	54	90.991				
|	Fe	57	95.188				
L>	Sc	45		108.826			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 13:12:50

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Mg	24	CCV is out of limits (+/-10%)
QC Std 6	K	39	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 13:17:08
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22368.412	6349.72				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3334.127	-0.00	-0.0961	0.134	139.548	ug/L
⌊>	Sc-1	45	420003.759	420003.76				ug/L
⌈	V	51	5162.068	0.00	0.3393	0.121	35.564	ug/L
|	Cr	52	13693.499	0.00	0.1490	0.066	44.272	ug/L
|	Cr	53	2000.327	-0.01	-8.1171	0.778	9.581	ug/L
|	Mn	55	367.045	-0.00	-0.0487	0.011	22.890	ug/L
|	Co	59	66.734	0.00	0.0021	0.004	174.867	ug/L
|	Ni	60	33.367	-0.00	-0.0001	0.017	22148.921	ug/L
|	Cu	65	33.367	-0.00	-0.0084	0.015	177.516	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1030227.306	1030227.31				ug/L
|	As	75	128.902	0.00	0.0156	0.018	117.595	ug/L
|	Se	77	147.335	-0.00	-1.2335	0.074	5.967	ug/L
⌊	Se	82	112.524	-0.00	-0.0110	0.011	96.714	ug/L
	Y	89	889023.100	28394.04				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	66.734	0.00	0.0027	0.005	170.616	ug/L
|	Cd	114	22.658	0.00	0.0011	0.000	29.709	ug/L
|>	In	115	906006.766	906006.77				ug/L
⌊	Sb	123	1094.157	0.00	0.1531	0.004	2.852	ug/L
⌈	Ba	135	0.000	-0.00	-0.0166	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	722281.199	722281.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	69.001	-29.00	-0.0027	0.001	48.644	ug/L
|	Tl	205	139.336	-96.00	-0.0038	0.001	13.754	ug/L
|	Pb	206	76.675	16.67	0.0018	0.002	91.652	ug/L
|	Pb	207	63.340	40.00	0.0050	0.003	52.042	ug/L
|	Pb	208	252.683	61.34	0.0017	0.001	70.416	ug/L
⌊>	Bi	209	756550.918	756550.92				ug/L
⌈	Na	23	14014.482	0.02	0.0013	0.001	63.376	mg/L
|	Mg	24	666.713	-0.00	-0.0002	0.000	75.958	mg/L
|	K	39	787701.172	0.23	0.0084	0.006	76.976	mg/L
|	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
|	Fe	54	41738.226	0.02	0.0083	0.004	45.701	mg/L
|	Fe	57	10007.893	0.01	0.0076	0.011	146.528	mg/L

L>	Sc	45	420003.759	420003.76	mg/L
	Cl	35	41788.801	-397791.09	mg/L
	Kr	83	150.670	-15.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		105.012			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		100.228			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		96.458			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		96.625			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		96.635			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		105.012			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 13:17:57

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Metals

Date: 5/25/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: ~~97853~~ 98247
98190 JYH 5/25/01

Cal 2

	Analyst
Calibration/Linearity	
ICV/CCV	
ICB/CCB	
icsa/icsab/cri	
Blank/LCS	
MS/MSD	
Postspike/Serial Dilution	
Duplicate	
Record Results	
Excel Spreadsheets	
Results Reporting / Data Qualifiers	
Calculations & Correct Factors	
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data	

Primary Reviewer Initials & Date Checked JYH 5/25/01

Secondary Reviewer Initials & Date Checked MMB 5/29

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/29

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

Cal 2

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST JYH DATE 5-25-01 JYH 5/25/01 TIME 14:34
METHOD # 6020A SOP # ME-200 Rev # 1 WORK GROUP # ~~97853~~, 98247, 98190
CAL STD SOURCE MJ-9-501A ICV/CCV SOURCE MJ-10-213
ICS AB SOURCE MJ-9-421B ICS A SOURCE MJ-9-421A POST SPK SOURCE MS-1-8-6
Instrument ID: TJA IRIS: _____ Data File: 052501 Perkin Elmer Optima: _____ Perkin Elmer ELAN: —

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S0				27.				
	1 1/10				28.				
	2 1/5				29.				
	3				30.				
	ICV				31.				
	ICB				32.				
	ICSA				33.				
	ICSAB			CCV/CCB	34.				
1.	PBW62		40/50	WG97853-03	35.				
2.	LCSW62	4		04	36.				
3.	0543317			02	37.				
4.	17DP			07	38.				
5.	18			01	39.				
6.	18S			05	40.				
7.	18SD			06	41.				
8.	0540411 PS	2			42.				
9.	11SDL	10		CCV/CCB	43.				
10.	PBS4G		0.50/50	WG98121-03	44.				
11.	LCSS4G			04	45.				
12.	ICSA				46.				
13.	ICSAB			CCV/CCB	47.				
14.	0552601	10	0.49/50	02	48.				
15.	01DP		0.50	07	49.				
16.	02		0.49	01	50.				
17.	02S		0.49	05	51.				
18.	02SD		0.52	06	52.				
19.	03		0.50		53.				
20.	02PS		0.49		54.				
21.	02SDL	50	0.49		55.				
22.	ICSA				56.				
23.	ICSAB			CCV/CCB	57.				
24.					58.				
25.					59.				
26.					60.	JYH	5/25/01		

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/25/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Antimony	0	194.1	10	67911	20	138158	100	699283			0.99999	
Selenium	0	124.41	10	3103.6	20	5978.2	100	28936.8			0.99999	
Thallium	0	38.334	10	103727	20	209432	100	1042057			1.00000	
Lead	0	283.35	10	359678	20	714712	100	3585392			1.00000	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 2:49 PM
CCV1 Time: 3:10 PM
CCV2 Time: 4:11 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.4	88.8	50	41.6	83.2	46.9	93.8	*
Antimony	50	50.4	100.8	50	47.5	95.0	50.9	101.8	
Arsenic	50	48.8	97.6	50	49.0	98.0	49.1	98.2	
Barium	50	50.1	100.2	50	50.3	100.6	48.6	97.2	
Beryllium	50	46.8	93.6	50	41.5	83.0	51.9	103.8	*
Cadmium	50	49.8	99.6	50	49.2	98.4	52.1	104.2	
Calcium	5000	4580	91.6	5000	4380	87.6	5610	112.2	*
Chromium	50	35.7	71.4	50	42.1	84.2	49.6	99.2	*
Cobalt	50	47.0	94.0	50	45.9	91.8	51.3	102.6	
Copper	50	49.2	98.4	50	48.8	97.6	51.1	102.2	
Iron	5000	5000	100.0	5000	4560	91.2	4410	88.2	*
Lead	50	50.3	100.6	50	49.3	98.6	46.1	92.2	
Magnesium	5000	4920	98.4	5000	4580	91.6	5080	101.6	
Manganese	50	49.9	99.8	50	49.6	99.2	54.9	109.8	
Nickel	50	47.7	95.4	50	47.7	95.4	50.1	100.2	
Potassium	5000	5070	101.4	5000	4990	99.8	5510	110.2	*
Selenium	50	49.7	99.4	50	49.0	98.0	49.5	99.0	
Silver	50	50.2	100.4	50	50.5	101.0	53.3	106.6	
Sodium	5000	4820	96.4	5000	4540	90.8	4940	98.8	
Thallium	50	49.9	99.8	50	49.0	98.0	45.4	90.8	
Vanadium	50	48.6	97.2	50	47.3	94.6	55.7	111.4	*
Zinc	50	58.8	117.6	50	55.9	111.8	59.8	119.6	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 2:49 PM
CCV1 Time: 4:42 PM
CCV2 Time: 5:51 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.4	88.8	50	51.2	102.4	50.9	101.8	*
Antimony	50	50.4	100.8	50	50.2	100.4	50.6	101.2	
Arsenic	50	48.8	97.6	50	51.7	103.4	51.0	102.0	
Barium	50	50.1	100.2	50	49.2	98.4	47.4	94.8	
Beryllium	50	46.8	93.6	50	47.3	94.6	47.6	95.2	
Cadmium	50	49.8	99.6	50	52.3	104.6	52.8	105.6	
Calcium	5000	4580	91.6	5000	4010	80.2	5430	108.6	*
Chromium	50	35.7	71.4	50	44.5	89.0	35.2	70.4	*
Cobalt	50	47.0	94.0	50	50.1	100.2	51.3	102.6	
Copper	50	49.2	98.4	50	51.2	102.4	50.3	100.6	
Iron	5000	5000	100.0	5000	4250	85.0	4930	98.6	*
Lead	50	50.3	100.6	50	50.1	100.2	49.0	98.0	
Magnesium	5000	4920	98.4	5000	4770	95.4	5340	106.8	
Manganese	50	49.9	99.8	50	54.2	108.4	54.5	109.0	
Nickel	50	47.7	95.4	50	51.8	103.6	50.4	100.8	
Potassium	5000	5070	101.4	5000	4280	85.6	5350	107.0	*
Selenium	50	49.7	99.4	50	52.0	104.0	52.1	104.2	
Silver	50	50.2	100.4	50	53.2	106.4	53.4	106.8	
Sodium	5000	4820	96.4	5000	4910	98.2	5290	105.8	
Thallium	50	49.9	99.8	50	49.7	99.4	49.2	98.4	
Vanadium	50	48.6	97.2	50	52.3	104.6	52.6	105.2	
Zinc	50	58.8	117.6	50	63.3	126.6	54.9	109.8	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Friday, May 25, 2001
UNITS:	ug/L
ICB Time:	2:55 PM
CCB1 Time:	3:15 PM
CCB2 Time:	4:16 PM
CCB3 Time:	4:47 PM

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-0.165		-0.31		-0.205		-0.354	
Antimony	0.244		0.166		0.123		0.128	
Arsenic	-0.0175		-0.0474		-0.0031		-0.0459	
Barium	-0.0162		-0.0162		-0.0003		-0.0162	
Beryllium	-0.084		-0.084		-0.084		-0.084	
Cadmium	-0.0007		-0.001		-0.0012		0.0006	
Calcium	0		0		13.4		0	
Chromium	-11.9		-15.4		-14.3		-14.5	
Cobalt	0.002		0.0059		0		0.002	
Copper	-0.0169		-0.0005		-0.0169		-0.0086	
Iron	7.50		3.00		-1.20		0	
Lead	0.0011		-0.0005		0.0007		0.0001	
Magnesium	-0.10		-0.30		-0.10		-0.2	
Manganese	-0.0288		-0.0358		-0.0365		-0.0356	
Nickel	0.0277		0		0.0098		0.0187	
Potassium	7.70		6.30		-1.30		1.9	
Selenium	-0.018		-0.0469		-0.0218		-0.0719	
Silver	0		-0.0057		-0.0057		-0.0029	
Sodium	-0.50		-0.30		-0.10		0	
Thallium	0.0068		0.0054		-0.0002		0.0031	
Vanadium	0.342		0.211		0.343		0.278	
Zinc	-0.289		-0.148		-0.139		-0.289	

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICB Time: 2:55 PM
CCB1 Time: 5:56 PM
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-0.165		-0.057					
Antimony	0.244		0.123					
Arsenic	-0.0175		-0.0427					
Barium	-0.0162		-0.0162					
Beryllium	-0.084		-0.084					
Cadmium	-0.0007		-0.0004					
Calcium	0		0					
Chromium	-11.9		-15.4					
Cobalt	0.002		0.0041					
Copper	-0.0169		-0.0081					
Iron	7.50		0.70					
Lead	0.0011		0.0027					
Magnesium	-0.10		0.10					
Manganese	-0.0288		-0.0414					
Nickel	0.0277		0.0093					
Potassium	7.70		-0.30					
Selenium	-0.018		-0.0342					
Silver	0		-0.0057					
Sodium	-0.50		-0.10					
Thallium	0.0068		0.0021					
Vanadium	0.342		0.364					
Zinc	-0.289		-0.289					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICSA Time: 15:00:09
ICSAB Time: 15:05:19

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	9750	8730.0	87.3	
Antimony	0	0	0	0.1		
Arsenic	0	10	0	9.6	96.1	
Barium	0	0	0	0.0		
Beryllium	0	0	0	0.0		
Cadmium	0	10	0	9.9	99.0	
Calcium	30000	30000	27200	26900.0	89.7	
Chromium	0	20	-14	8.2	40.9	*
Cobalt	0	20	0	17.7	88.5	
Copper	0	20	0	18.1	90.5	
Iron	25000	25000	22900	21900.0	87.6	
Lead	0	0	0	0.1		
Magnesium	10000	10000	8770	8920.0	89.2	
Manganese	0	20	0	19.3	96.5	
Nickel	0	20	1	18.8	94.0	
Potassium	10000	10000	9790	10000.0	100.0	
Selenium	0	10	0	9.9	98.7	
Silver	0	5	0	4.6	92.2	
Sodium	25000	25000	20800	22100.0	88.4	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	19.3	96.5	
Zinc	0	10	2	13.1	131.0	*

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - ICP/MS
METHOD: 6020
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

Spiked Sample Time: 3:56 PM
Sample Time: 12:25 PM

Sample ID: 0540411 PS

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125							N
Antimony	75-125	129		0.5	U	125	103.2	
Arsenic	75-125	115		0.5	U	125	92.0	
Barium	75-125	132		0.531		125	105.2	
Beryllium	75-125	114		0		125	91.2	
Cadmium	75-125	124		0.021	U	125	99.2	
Calcium	75-125							
Chromium	75-125	114		0.793	U	125	91.2	
Cobalt	75-125	139		0.18	B	125	111.1	
Copper	75-125	134		0.181	U	125	107.2	
Iron	75-125							
Lead	75-125	116		0.5	U	125	92.8	
Magnesium	75-125							
Manganese	75-125	148		0.487	U	125	118.4	
Nickel	75-125	131		0.214	B	125	104.6	
Potassium	75-125							
Selenium	75-125	102		0.5	U	125	81.6	
Silver	75-125	123		0		125	98.4	
Sodium	75-125							
Thallium	75-125	114		0.1	U	125	91.2	
Vanadium	75-125	149		0.521	B	125	118.8	
Zinc	75-125	137		5.50		125	105.2	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 5/21/2001

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	1	0.500
Arsenic	75	1	0.500
Cadmium	114	0.5	0.021
Chromium	52	4	0.793
Cobalt	59	0.8	0.043
Copper	65	2	0.181
Lead	208	1	0.500
Manganese	55	2	0.487
Nickel	60	2	0.063
Selenium	82	1	0.500
Silver	107	2	0.036
Thallium	203	0.2	0.100
Vanadium	51	5	0.471

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 25, 2001 14:34:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20367.487					ug/L
⌈	Be	9	33.367					ug/L
|	Al	27	6669.982					ug/L
⌊>	Sc-1	45	429627.067					ug/L
⌈	V	51	-655.280					ug/L
|	Cr	52	12456.659					ug/L
|	Cr	53	22703.876					ug/L
|	Mn	55	1268.055					ug/L
|	Co	59	0.000					ug/L
|	Ni	60	0.000					ug/L
|	Cu	65	66.734					ug/L
|	Zn	66	666.760					ug/L
| >	Ge	72	1029629.245					ug/L
|	As	75	198.613					ug/L
|	Se	77	550.688					ug/L
⌊	Se	82	124.408					ug/L
	Y	89	805783.895					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	66.734					ug/L
|	Cd	114	25.489					ug/L
| >	In	115	894544.268					ug/L
⌊	Sb	123	194.103					ug/L
⌈	Ba	135	33.367					ug/L
|	Ce	140	0.000					ug/L
⌊>	Tb	159	715469.756					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	38.334					ug/L
|	Tl	205	84.335					ug/L
|	Pb	206	60.006					ug/L
|	Pb	207	73.341					ug/L
|	Pb	208	283.350					ug/L
⌊>	Bi	209	744786.961					ug/L
⌈	Na	23	14013.921					mg/L
|	Mg	24	1666.877					mg/L
|	K	39	704542.880					mg/L
|	Ca	43	0.000					mg/L
|	Fe	54	41439.507					mg/L
|	Fe	57	8004.623					mg/L

⌊>	Sc	45	429627.067	mg/L
	Cl	35	2354417.611	mg/L
	Kr	83	139.336	mg/L
	U	238	0.000	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, May 25, 2001 14:35:37

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 25, 2001 14:37:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.271	-2344.22				ug/L
⌈	Be	9	3804.907	0.01	10.0000	3.877	38.773	ug/L
|	Al	27	68666.372	0.14	10.0000	1.519	15.195	ug/L
|>	Sc-1	45	441579.528	441579.53				ug/L
⌈	V	51	152292.196	0.15	10.0000	0.661	6.609	ug/L
|	Cr	52	141869.617	0.12	10.0000	0.381	3.807	ug/L
|	Cr	53	32413.366	0.01	10.0000	12.927	129.271	ug/L
|	Mn	55	209472.157	0.20	10.0000	0.533	5.327	ug/L
|	Co	59	166585.870	0.16	10.0000	0.348	3.484	ug/L
|	Ni	60	36898.699	0.04	10.0000	0.550	5.498	ug/L
|	Cu	65	40655.928	0.04	10.0000	0.105	1.053	ug/L
|	Zn	66	28725.261	0.03	10.0000	1.664	16.638	ug/L
|>	Ge	72	1049274.574	1049274.57				ug/L
|	As	75	27827.453	0.03	10.0000	0.131	1.310	ug/L
|	Se	77	2579.133	0.00	10.0000	0.719	7.185	ug/L
⌊	Se	82	3103.631	0.00	10.0000	0.195	1.950	ug/L
	Y	89	776742.608	-29041.29				ug/L
⌈	Rh	103	200.203	0.00				ug/L
|	Ag	107	122836.726	0.13	10.0000	0.511	5.113	ug/L
|	Cd	114	71923.435	0.08	10.0000	0.103	1.029	ug/L
|>	In	115	909961.357	909961.36				ug/L
⌊	Sb	123	67910.720	0.07	10.0000	0.025	0.250	ug/L
⌈	Ba	135	22725.499	0.03	10.0000	0.651	6.511	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	707035.977	707035.98				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	103727.111	103688.78	10.0000	0.071	0.709	ug/L
|	Tl	205	259683.655	259599.32	10.0000	0.137	1.365	ug/L
|	Pb	206	91015.342	90955.34	10.0000	0.165	1.652	ug/L
|	Pb	207	77246.535	77173.19	10.0000	0.163	1.631	ug/L
|	Pb	208	359677.801	359394.45	10.0000	0.082	0.815	ug/L
|>	Bi	209	757244.929	757244.93				ug/L
⌈	Na	23	5918307.585	13.40	1.0000	0.150	15.033	mg/L
|	Mg	24	4273851.953	9.67	1.0000	0.055	5.505	mg/L
|	K	39	13833091.203	29.72	1.0000	0.111	11.083	mg/L
|	Ca	43	26721.338	0.06	1.0000	0.377	37.678	mg/L
|	Fe	54	1105667.836	2.41	1.0000	0.042	4.165	mg/L
|	Fe	57	405310.349	0.90	1.0000	0.149	14.934	mg/L

\>	Sc	45	441579.528	441579.53	mg/L
	Cl	35	727763.840	-1626653.77	mg/L
	Kr	83	148.670	9.33	mg/L
	U	238	333.357	333.36	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, May 25, 2001 14:38:24

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 25, 2001 14:40:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.012	-5017.48				ug/L
⌈	Be	9	6977.051	0.02	19.7556	0.426	2.158	ug/L
|	Al	27	146507.694	0.33	20.5773	2.359	11.467	ug/L
|>	Sc-1	45	428850.129	428850.13				ug/L
⌈	V	51	305211.454	0.29	19.9721	0.662	3.314	ug/L
|	Cr	52	271222.856	0.24	19.9714	0.489	2.448	ug/L
|	Cr	53	44474.044	0.02	20.4892	8.096	39.514	ug/L
|	Mn	55	425466.958	0.40	20.0444	0.743	3.708	ug/L
|	Co	59	327748.091	0.31	19.9030	0.668	3.356	ug/L
|	Ni	60	71022.107	0.07	19.8160	0.674	3.401	ug/L
|	Cu	65	80667.411	0.08	19.9419	1.021	5.120	ug/L
|	Zn	66	53533.961	0.05	19.7222	1.156	5.861	ug/L
|>	Ge	72	1056995.647	1056995.65				ug/L
|	As	75	55711.666	0.05	19.9895	0.162	0.812	ug/L
|	Se	77	4938.374	0.00	20.2847	0.608	3.000	ug/L
⌊	Se	82	5978.194	0.01	19.9019	0.945	4.749	ug/L
	Y	89	862894.111	57110.22				ug/L
⌈	Rh	103	233.571	0.00				ug/L
|	Ag	107	244836.758	0.27	19.9526	0.951	4.766	ug/L
|	Cd	114	144241.492	0.16	19.9787	0.607	3.037	ug/L
|>	In	115	917836.913	917836.91				ug/L
⌊	Sb	123	138157.584	0.15	20.0398	0.116	0.580	ug/L
⌈	Ba	135	43173.207	0.06	19.4220	1.632	8.400	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	773465.205	773465.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	209432.050	209393.72	20.0386	0.068	0.339	ug/L
|	Tl	205	523800.443	523716.11	20.0346	0.107	0.536	ug/L
|	Pb	206	181976.912	181916.91	20.0001	0.050	0.249	ug/L
|	Pb	207	154178.315	154104.97	19.9937	0.269	1.347	ug/L
|	Pb	208	714711.556	714428.21	19.9756	0.084	0.421	ug/L
|>	Bi	209	762267.871	762267.87				ug/L
⌈	Na	23	11882347.547	27.66	2.0125	0.134	6.666	mg/L
|	Mg	24	8374322.489	19.52	2.0037	0.073	3.654	mg/L
|	K	39	28979153.774	65.89	2.0400	0.123	6.007	mg/L
|	Ca	43	41455.971	0.10	1.9051	0.347	18.201	mg/L
|	Fe	54	1980680.151	4.54	1.9755	0.206	10.424	mg/L
|	Fe	57	962060.856	2.23	2.0797	0.090	4.344	mg/L

\>	Sc	45	428850.129	428850.13	mg/L
	Cl	35	307207.506	-2047210.11	mg/L
	Kr	83	140.003	0.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Friday, May 25, 2001 14:41:12

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 25, 2001 14:43:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.169	-673.32				ug/L
⌈	Be	9	34786.347	0.09	100.5674	2.558	2.544	ug/L
|	Al	27	651157.171	1.73	100.4171	9.445	9.405	ug/L
|>	Sc-1	45	373555.704	373555.70				ug/L
⌈	V	51	1515356.993	1.46	100.0431	4.546	4.544	ug/L
|	Cr	52	1304103.339	1.25	100.0873	4.273	4.269	ug/L
|	Cr	53	164200.262	0.14	101.3543	4.456	4.397	ug/L
|	Mn	55	2013327.304	1.94	99.8514	3.759	3.764	ug/L
|	Co	59	1671903.474	1.61	100.1632	5.614	5.605	ug/L
|	Ni	60	355775.968	0.34	100.0565	4.480	4.478	ug/L
|	Cu	65	396463.983	0.38	100.0038	3.458	3.458	ug/L
|	Zn	66	231011.635	0.22	99.3399	2.604	2.621	ug/L
|>	Ge	72	1036056.965	1036056.96				ug/L
|	As	75	272660.774	0.26	100.0049	1.165	1.165	ug/L
|	Se	77	22489.352	0.02	100.1748	0.890	0.889	ug/L
⌊	Se	82	28936.779	0.03	99.9981	2.574	2.574	ug/L
	Y	89	844184.647	38400.75				ug/L
⌈	Rh	103	834.226	0.00				ug/L
|	Ag	107	1202020.250	1.30	99.8609	2.031	2.034	ug/L
|	Cd	114	718764.254	0.78	99.9393	1.294	1.295	ug/L
|>	In	115	925270.092	925270.09				ug/L
⌊	Sb	123	699282.970	0.76	100.0344	0.951	0.950	ug/L
⌈	Ba	135	210876.308	0.29	100.0043	10.533	10.533	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	735892.290	735892.29				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	1042056.631	1042018.30	99.9866	0.667	0.667	ug/L
|	Tl	205	2509961.669	2509877.33	99.8027	0.521	0.522	ug/L
|	Pb	206	897822.760	897762.75	99.9374	1.324	1.325	ug/L
|	Pb	207	763804.370	763731.03	99.9562	2.931	2.932	ug/L
|	Pb	208	3585392.019	3585108.67	100.0114	0.812	0.812	ug/L
|>	Bi	209	764040.865	764040.86				ug/L
⌈	Na	23	54921894.391	147.06	10.0312	0.552	5.498	mg/L
|	Mg	24	39577198.345	105.83	10.0379	0.218	2.176	mg/L
|	K	39	117965427.559	314.42	9.9870	0.462	4.623	mg/L
|	Ca	43	203869.354	0.55	10.0345	0.618	6.154	mg/L
|	Fe	54	9655007.165	25.92	10.0546	1.355	13.476	mg/L
|	Fe	57	3866612.221	10.37	9.9844	0.813	8.145	mg/L

└>	Sc	45	373555.704	373555.70	mg/L
	Cl	35	203530.992	-2150886.62	mg/L
	Kr	83	140.336	1.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Friday, May 25, 2001 14:44:00

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 14:49:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.731	-672.76				ug/L
⌈	Be	9	17271.601	0.04	46.7588	4.428	9.470	ug/L
|	Al	27	311306.246	0.77	44.4226	2.180	4.907	ug/L
|>	Sc-1	45	398856.974	398856.97				ug/L
⌈	V	51	755432.916	0.71	48.5790	1.136	2.338	ug/L
|	Cr	52	653104.954	0.60	48.2587	1.897	3.931	ug/L
⌊	Cr	53	74724.808	0.05	35.7344	5.088	14.237	ug/L
|	Mn	55	1034817.758	0.97	49.9319	1.910	3.824	ug/L
|	Co	59	806208.598	0.76	47.0242	1.793	3.812	ug/L
|	Ni	60	174383.299	0.16	47.7463	3.816	7.991	ug/L
|	Cu	65	200609.475	0.19	49.2221	0.360	0.731	ug/L
|	Zn	66	140712.136	0.13	58.7811	5.239	8.913	ug/L
|>	Ge	72	1064676.545	1064676.54				ug/L
|	As	75	136731.037	0.13	48.7596	0.576	1.182	ug/L
|	Se	77	11418.455	0.01	48.2124	0.954	1.979	ug/L
⌊	Se	82	14851.611	0.01	49.7142	0.139	0.280	ug/L
	Y	89	860323.079	54539.18				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	604600.226	0.65	50.1515	3.381	6.741	ug/L
|	Cd	114	359250.622	0.39	49.8448	0.975	1.956	ug/L
|>	In	115	927544.374	927544.37				ug/L
⌊	Sb	123	353116.012	0.38	50.4140	1.817	3.604	ug/L
⌈	Ba	135	105547.133	0.14	50.0823	5.880	11.741	ug/L
|	Ce	140	666.760	0.00				ug/L
|>	Tb	159	735549.899	735549.90				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	520231.917	520193.58	49.9150	0.384	0.769	ug/L
|	Tl	205	1294547.772	1294463.44	51.4730	0.693	1.347	ug/L
|	Pb	206	488770.605	488710.60	54.4024	1.056	1.942	ug/L
|	Pb	207	366858.099	366784.76	48.0043	1.696	3.533	ug/L
|	Pb	208	1802538.263	1802254.91	50.2763	0.475	0.945	ug/L
|>	Bi	209	785391.422	785391.42				ug/L
⌈	Na	23	28063538.513	70.62	4.8168	0.514	10.662	mg/L
|	Mg	24	20669954.714	51.82	4.9155	0.452	9.204	mg/L
|	K	39	64176886.226	159.62	5.0700	0.322	6.360	mg/L
|	Ca	43	99694.480	0.25	4.5786	0.226	4.932	mg/L
|	Fe	54	4901376.595	12.23	4.7453	0.425	8.961	mg/L
|	Fe	57	2067374.961	5.19	4.9984	0.659	13.185	mg/L

⌊> Sc	45	398856.974	398856.97		mg/L
Cl	35	127135.162	-2227282.45		mg/L
Kr	83	148.336	9.00		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	93.518				
|	Al	27	88.845				
⌊>	Sc-1	45		92.838			
⌈	V	51	97.158				
|	Cr	52	96.517				
|	Cr	53	71.469				
|	Mn	55	99.864				
|	Co	59	94.048				
|	Ni	60	95.493				
|	Cu	65	98.444				
|	Zn	66	117.562				
|>	Ge	72		103.404			
|	As	75	97.519				
|	Se	77	96.425				
⌊	Se	82	99.428				
	Y	89					
⌈	Rh	103					
|	Ag	107	100.303				
|	Cd	114	99.690				
|>	In	115		103.689			
⌊	Sb	123	100.828				
⌈	Ba	135	100.165				
|	Ce	140					
⌊>	Tb	159		102.807			
⌈	Ho	165					
|	Tl	203	99.830				
|	Tl	205	102.946				
|	Pb	206	108.805				
|	Pb	207	96.009				
|	Pb	208	100.553				
⌊>	Bi	209		105.452			
⌈	Na	23	96.336				
|	Mg	24	98.310				
|	K	39	101.400				
|	Ca	43	91.573				
|	Fe	54	94.907				
|	Fe	57	99.967				
⌊>	Sc	45		92.838			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 14:50:43

QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Zn	66	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 25, 2001 14:55:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17021.144	-3346.34				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	5335.387	-0.00	-0.1646	0.116	70.368	ug/L
⌊>	Sc-1	45	417928.283	417928.28				ug/L
⌈	V	51	4475.316	0.00	0.3418	0.243	71.095	ug/L
|	Cr	52	12891.175	0.00	0.0237	0.029	121.294	ug/L
|	Cr	53	6336.158	-0.02	-11.8529	0.388	3.273	ug/L
|	Mn	55	700.736	-0.00	-0.0288	0.004	14.674	ug/L
|	Co	59	33.367	0.00	0.0020	0.003	173.205	ug/L
|	Ni	60	100.102	0.00	0.0277	0.048	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
| >	Ge	72	1040512.003	1040512.00				ug/L
|	As	75	152.326	-0.00	-0.0175	0.016	92.197	ug/L
|	Se	77	189.336	-0.00	-1.6696	0.026	1.543	ug/L
⌊	Se	82	120.198	-0.00	-0.0180	0.054	300.945	ug/L
	Y	89	862515.846	56731.95				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	-0.00	-0.0000	0.010	24483.918	ug/L
|	Cd	114	21.665	-0.00	-0.0007	0.000	67.699	ug/L
| >	In	115	931375.266	931375.27				ug/L
⌊	Sb	123	1916.508	0.00	0.2435	0.011	4.437	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	720633.315	720633.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	109.002	70.67	0.0068	0.001	12.578	ug/L
|	Tl	205	260.674	176.34	0.0070	0.000	5.793	ug/L
|	Pb	206	80.008	20.00	0.0022	0.002	100.000	ug/L
|	Pb	207	86.676	13.33	0.0017	0.002	114.565	ug/L
|	Pb	208	323.021	39.67	0.0011	0.001	47.097	ug/L
⌊>	Bi	209	762649.754	762649.75				ug/L
⌈	Na	23	10674.699	-0.01	-0.0005	0.000	46.234	mg/L
|	Mg	24	1333.520	-0.00	-0.0001	0.000	524.430	mg/L
|	K	39	783054.708	0.24	0.0077	0.006	72.207	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	28361.630	-0.03	-0.0111	0.004	37.687	mg/L
|	Fe	57	11008.617	0.01	0.0075	0.004	56.368	mg/L

└>	Sc	45	417928.283	417928.28	mg/L
	Cl	35	81475.330	-2272942.28	mg/L
	Kr	83	152.336	13.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		97.277			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.057			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		104.117			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		100.722			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		102.398			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		97.277			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, May 25, 2001 14:55:50

QC Std 2	Be	9	ICB is out of limits (+/-3*IDL)
QC Std 2	V	51	ICB is out of limits (+/-3*IDL)
QC Std 2	Cr	53	ICB is out of limits (+/-3*IDL)
QC Std 2	Se	77	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 15:00:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.516	-5350.97				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	65272039.840	168.14	9745.3217	475.445	4.879	ug/L
|>	Sc-1	45	388274.532	388274.53				ug/L
⌈	V	51	2816.942	0.00	0.2385	0.337	141.148	ug/L
|	Cr	52	16535.726	0.00	0.3645	0.114	31.184	ug/L
|	Cr	53	3667.624	-0.02	-13.6360	0.419	3.073	ug/L
|	Mn	55	6576.315	0.01	0.2773	0.055	19.811	ug/L
|	Co	59	1635.159	0.00	0.1021	0.018	17.230	ug/L
|	Ni	60	2235.979	0.00	0.6567	0.338	51.445	ug/L
|	Cu	65	967.705	0.00	0.2372	0.083	35.146	ug/L
|	Zn	66	5669.959	0.01	2.2593	2.129	94.255	ug/L
|>	Ge	72	993725.594	993725.59				ug/L
|	As	75	194.129	0.00	0.0009	0.038	4190.558	ug/L
|	Se	77	498.684	-0.00	-0.1566	0.243	154.905	ug/L
⌊	Se	82	131.365	0.00	0.0410	0.031	75.143	ug/L
	Y	89	769327.301	-36456.59				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0029	0.009	291.674	ug/L
|	Cd	114	2493.562	0.00	0.3631	0.008	2.089	ug/L
|>	In	115	874987.310	874987.31				ug/L
⌊	Sb	123	1443.835	0.00	0.1897	0.006	3.260	ug/L
⌈	Ba	135	166.837	0.00	0.0636	0.071	111.632	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	710419.369	710419.37				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	100.002	61.67	0.0059	0.000	5.847	ug/L
|	Tl	205	229.673	145.34	0.0058	0.001	13.767	ug/L
|	Pb	206	1647.024	1587.02	0.1767	0.025	14.099	ug/L
|	Pb	207	1416.949	1343.61	0.1758	0.009	4.957	ug/L
|	Pb	208	6236.042	5952.69	0.1661	0.009	5.252	ug/L
|>	Bi	209	720451.823	720451.82				ug/L
⌈	Na	23	118280067.230	304.71	20.7845	1.397	6.722	mg/L
|	Mg	24	35878394.762	92.45	8.7689	0.744	8.482	mg/L
|	K	39	120273948.647	308.14	9.7873	0.656	6.698	mg/L
|	Ca	43	575304.328	1.48	27.1643	1.477	5.435	mg/L
|	Fe	54	20639513.454	53.08	20.5874	0.994	4.828	mg/L
|	Fe	57	9258449.703	23.83	22.9463	1.437	6.261	mg/L

>	Sc	45	388274.532	388274.53	mg/L
	Cl	35	5819641.830	3465224.22	mg/L
	Kr	83	175.337	36.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	97.453				
>	Sc-1	45		90.375			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		96.513			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		97.814			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		99.294			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		96.733			
	Na	23	83.138				
	Mg	24	87.689				
	K	39	97.873				
	Ca	43	90.548				
	Fe	54	82.350				
	Fe	57	91.785				
>	Sc	45		90.375			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 15:00:59

2001

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 15:05:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.579	-7688.91				ug/L
⌈	Be	9	33.367	0.00	0.0032	0.151	4654.561	ug/L
|	Al	27	62919894.260	150.70	8734.8596	106.522	1.219	ug/L
⌊>	Sc-1	45	417534.141	417534.14				ug/L
⌈	V	51	282205.643	0.28	19.3343	0.635	3.283	ug/L
|	Cr	52	251569.760	0.24	19.2060	0.581	3.025	ug/L
|	Cr	53	33077.581	0.01	8.1721	3.711	45.410	ug/L
|	Mn	55	376433.463	0.37	19.2868	0.354	1.837	ug/L
|	Co	59	285509.661	0.29	17.7207	0.437	2.465	ug/L
|	Ni	60	64689.417	0.06	18.8427	0.383	2.032	ug/L
|	Cu	65	69472.029	0.07	18.1266	0.148	0.819	ug/L
|	Zn	66	30063.461	0.03	13.1348	1.182	8.998	ug/L
| >	Ge	72	1000624.279	1000624.28				ug/L
|	As	75	25495.532	0.03	9.6148	0.173	1.801	ug/L
|	Se	77	2579.800	0.00	9.6673	0.684	7.080	ug/L
⌊	Se	82	2866.698	0.00	9.8651	0.257	2.606	ug/L
	Y	89	766075.167	-39708.73				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	53049.631	0.06	4.6126	0.322	6.972	ug/L
|	Cd	114	68000.140	0.08	9.9013	0.152	1.532	ug/L
| >	In	115	883301.571	883301.57				ug/L
⌊	Sb	123	1150.118	0.00	0.1437	0.011	7.586	ug/L
⌈	Ba	135	66.734	0.00	0.0146	0.027	183.665	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	731832.636	731832.64				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	86.668	48.33	0.0046	0.001	25.869	ug/L
|	Tl	205	193.671	109.34	0.0043	0.000	5.589	ug/L
|	Pb	206	1426.953	1366.95	0.1522	0.013	8.576	ug/L
|	Pb	207	1056.851	983.51	0.1287	0.009	7.143	ug/L
|	Pb	208	5206.683	4923.33	0.1373	0.003	2.296	ug/L
⌊>	Bi	209	726442.675	726442.68				ug/L
⌈	Na	23	134980455.179	323.44	22.0624	0.563	2.553	mg/L
|	Mg	24	39207317.987	94.01	8.9173	0.623	6.991	mg/L
|	K	39	132047406.192	314.70	9.9956	0.649	6.492	mg/L
|	Ca	43	613698.148	1.47	26.9155	1.012	3.758	mg/L
|	Fe	54	20896817.749	50.00	19.3956	1.249	6.441	mg/L
|	Fe	57	9487418.144	22.70	21.8571	0.135	0.619	mg/L

\>	Sc	45	417534.141	417534.14	mg/L
	Cl	35	5942232.296	3587814.68	mg/L
	Kr	83	187.004	47.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	87.349				
\>	Sc-1	45		97.185			
⌈	V	51	96.672				
|	Cr	52	96.030				
|	Cr	53	40.860				
|	Mn	55	96.434				
|	Co	59	88.603				
|	Ni	60	94.214				
|	Cu	65	90.633				
|	Zn	66	131.348				
\>	Ge	72		97.183			
|	As	75	96.148				
|	Se	77	96.673				
⌊	Se	82	98.651				
	Y	89					
⌈	Rh	103					
|	Ag	107	92.253				
|	Cd	114	99.013				
\>	In	115		98.743			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		102.287			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		97.537			
⌈	Na	23	88.250				
|	Mg	24	89.173				
|	K	39	99.956				
|	Ca	43	89.718				
|	Fe	54	77.582				
|	Fe	57	87.428				
\>	Sc	45		97.185			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 15:06:10

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	54	ICSAB is out of limits {+/-20%}

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 15:06:10
Page 3

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 15:10:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19026.756	-1340.73				ug/L
⌈	Be	9	15666.453	0.04	41.5398	4.711	11.341	ug/L
|	Al	27	297088.769	0.72	41.6005	4.328	10.404	ug/L
|>	Sc-1	45	405545.235	405545.23				ug/L
⌈	V	51	726757.242	0.69	47.2938	1.378	2.915	ug/L
|	Cr	52	632749.540	0.59	47.2966	0.771	1.629	ug/L
|	Cr	53	82811.564	0.06	42.0882	3.391	8.057	ug/L
|	Mn	55	1014833.983	0.96	49.5530	0.629	1.269	ug/L
|	Co	59	777250.588	0.74	45.8815	0.576	1.255	ug/L
|	Ni	60	172156.606	0.16	47.6930	2.283	4.788	ug/L
|	Cu	65	196664.868	0.19	48.8333	0.347	0.710	ug/L
|	Zn	66	132227.931	0.13	55.8958	8.059	14.419	ug/L
|>	Ge	72	1052043.920	1052043.92				ug/L
|	As	75	135759.197	0.13	48.9947	0.593	1.211	ug/L
|	Se	77	11405.770	0.01	48.7605	1.071	2.197	ug/L
⌊	Se	82	14476.934	0.01	49.0382	0.562	1.146	ug/L
	Y	89	864090.329	58306.43				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	614201.080	0.66	50.4938	2.715	5.378	ug/L
|	Cd	114	357695.902	0.38	49.1963	0.462	0.939	ug/L
|>	In	115	935357.070	935357.07				ug/L
⌊	Sb	123	335693.025	0.36	47.4987	1.378	2.901	ug/L
⌈	Ba	135	102498.667	0.14	50.2631	3.448	6.860	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	709718.284	709718.28				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510185.445	510147.11	48.9510	0.212	0.433	ug/L
|	Tl	205	1300669.360	1300585.02	51.7164	0.474	0.917	ug/L
|	Pb	206	482095.645	482035.64	53.6594	0.536	0.999	ug/L
|	Pb	207	359312.726	359239.38	47.0168	0.892	1.897	ug/L
|	Pb	208	1768534.575	1768251.22	49.3277	0.253	0.512	ug/L
|>	Bi	209	769529.595	769529.60				ug/L
⌈	Na	23	27030524.825	66.62	4.5443	0.251	5.518	mg/L
|	Mg	24	19560313.639	48.31	4.5823	0.341	7.436	mg/L
|	K	39	64407738.335	157.25	4.9948	0.197	3.937	mg/L
|	Ca	43	96990.891	0.24	4.3815	0.290	6.614	mg/L
|	Fe	54	4849163.474	11.87	4.6037	0.194	4.220	mg/L
|	Fe	57	1924540.995	4.73	4.5565	0.175	3.835	mg/L

>	Sc	45	405545.235	405545.23	mg/L
	Cl	35	115256.975	-2239160.64	mg/L
	Kr	83	154.670	15.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	83.080				
	Al	27	83.201				
>	Sc-1	45		94.395			
	V	51	94.588				
	Cr	52	94.593				
	Cr	53	84.176				
	Mn	55	99.106				
	Co	59	91.763				
	Ni	60	95.386				
	Cu	65	97.667				
	Zn	66	111.792				
>	Ge	72		102.177			
	As	75	97.989				
	Se	77	97.521				
	Se	82	98.076				
	Y	89					
	Rh	103					
	Ag	107	100.988				
	Cd	114	98.393				
>	In	115		104.562			
	Sb	123	94.997				
	Ba	135	100.526				
	Ce	140					
>	Tb	159		99.196			
	Ho	165					
	Tl	203	97.902				
	Tl	205	103.433				
	Pb	206	107.319				
	Pb	207	94.034				
	Pb	208	98.655				
>	Bi	209		103.322			
	Na	23	90.885				
	Mg	24	91.647				
	K	39	99.896				
	Ca	43	87.630				
	Fe	54	92.075				
	Fe	57	91.130				
>	Sc	45		94.395			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 15:11:19

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 15:15:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.111	-1007.38				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	4334.944	-0.01	-0.3102	0.359	115.867	ug/L
⌊>	Sc-1	45	428509.468	428509.47				ug/L
⌈	V	51	2584.843	0.00	0.2112	0.080	37.895	ug/L
|	Cr	52	13593.466	0.00	0.0621	0.201	323.890	ug/L
|	Cr	53	1333.567	-0.02	-15.4354	1.075	6.964	ug/L
|	Mn	55	567.259	-0.00	-0.0358	0.011	30.984	ug/L
|	Co	59	100.102	0.00	0.0059	0.010	173.205	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	66.734	-0.00	-0.0005	0.014	3096.631	ug/L
|	Zn	66	333.357	-0.00	-0.1482	0.245	165.007	ug/L
|>	Ge	72	1057393.882	1057393.88				ug/L
|	As	75	71.911	-0.00	-0.0474	0.015	31.131	ug/L
|	Se	77	186.669	-0.00	-1.6952	0.100	5.924	ug/L
⌊	Se	82	113.944	-0.00	-0.0469	0.060	127.390	ug/L
	Y	89	853139.802	47355.91				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	19.036	-0.00	-0.0010	0.001	68.231	ug/L
|>	In	115	915679.367	915679.37				ug/L
⌊	Sb	123	1347.620	0.00	0.1662	0.007	4.280	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	748070.125	748070.13				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	95.002	56.67	0.0054	0.001	12.353	ug/L
|	Tl	205	220.339	136.00	0.0054	0.000	8.099	ug/L
|	Pb	206	53.339	-6.67	-0.0007	0.001	86.602	ug/L
|	Pb	207	76.675	3.33	0.0004	0.005	1135.776	ug/L
|	Pb	208	267.016	-16.33	-0.0005	0.001	170.126	ug/L
⌊>	Bi	209	767679.208	767679.21				ug/L
⌈	Na	23	11676.639	-0.01	-0.0003	0.001	164.672	mg/L
|	Mg	24	333.357	-0.00	-0.0003	0.000	45.410	mg/L
|	K	39	786032.833	0.20	0.0063	0.005	73.764	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	40403.981	-0.00	-0.0010	0.008	859.959	mg/L
|	Fe	57	9340.479	0.00	0.0030	0.011	359.387	mg/L

\>	Sc	45	428509.468	428509.47	mg/L
	Cl	35	64961.968	-2289455.64	mg/L
	Kr	83	140.003	0.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		99.740			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.697			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.363			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		104.556			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		103.074			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		99.740			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 15:16:26

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBW 6L WG97853-03

Sample Date/Time: Friday, May 25, 2001 15:20:45
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.491	-1342.00				ug/L
⌈	Be	9	0.000	-0.00	-0.1050	0.000	0.000	ug/L
|	Al	27	861717.407	2.07	150.1284	14.441	9.619	ug/L
⌊>	Sc-1	45	415121.619	415121.62				ug/L
⌈	V	51	2360.819	0.00	0.2432	0.246	101.049	ug/L
|	Cr	52	20382.768	0.01	0.6941	0.098	14.161	ug/L
|	Cr	53	2000.420	-0.02	-18.7331	1.511	8.065	ug/L
|	Mn	55	5440.876	0.00	0.2475	0.053	21.364	ug/L
|	Co	59	300.308	0.00	0.0217	0.015	66.979	ug/L
|	Ni	60	1067.817	0.00	0.3628	0.085	23.528	ug/L
|	Cu	65	4138.707	0.00	1.2394	0.270	21.808	ug/L
|	Zn	66	19697.262	0.02	9.9223	4.570	46.054	ug/L
|>	Ge	72	1072022.704	1072022.70				ug/L
|	As	75	65.071	-0.00	-0.0629	0.020	31.607	ug/L
|	Se	77	172.002	-0.00	-2.2142	0.029	1.304	ug/L
⌊	Se	82	109.973	-0.00	-0.0822	0.041	49.258	ug/L
	Y	89	827411.349	21627.45				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	1401.545	0.00	0.1351	0.038	27.844	ug/L
|	Cd	114	43.729	0.00	0.0028	0.001	32.029	ug/L
|>	In	115	948121.799	948121.80				ug/L
⌊	Sb	123	756.898	0.00	0.0963	0.015	16.027	ug/L
⌈	Ba	135	266.940	0.00	0.1386	0.098	70.656	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	749831.922	749831.92				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	78.001	39.67	0.0048	0.001	24.049	ug/L
|	Tl	205	188.004	103.67	0.0052	0.001	18.021	ug/L
|	Pb	206	1160.211	1100.21	0.1531	0.022	14.632	ug/L
|	Pb	207	946.824	873.48	0.1429	0.013	9.256	ug/L
|	Pb	208	4399.093	4115.74	0.1435	0.006	4.049	ug/L
⌊>	Bi	209	790697.129	790697.13				ug/L
⌈	Na	23	191557.375	0.43	0.0369	0.007	17.966	mg/L
|	Mg	24	21702.829	0.05	0.0058	0.003	47.303	mg/L
|	K	39	865475.123	0.46	0.0182	0.016	87.976	mg/L
|	Ca	43	666.713	0.00	0.0389	0.034	86.611	mg/L
|	Fe	54	84598.090	0.11	0.0527	0.013	25.091	mg/L
|	Fe	57	9673.321	0.00	0.0058	0.005	89.422	mg/L

>	Sc	45	415121.619	415121.62	mg/L
	Cl	35	65979.393	-2288438.22	mg/L
	Kr	83	131.336	-8.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		96.624			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.117			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		105.989			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		104.803			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		106.164			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		96.624			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6L WG97853-03
Report Date/Time: Friday, May 25, 2001 15:21:33

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6L WG97853-04

Sample Date/Time: Friday, May 25, 2001 15:25:51
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.723	998.24				ug/L
⌈	Be	9	8246.412	0.02	101.4806	23.895	23.546	ug/L
|	Al	27	220393.428	0.49	141.2914	29.730	21.042	ug/L
⌊>	Sc-1	45	443082.583	443082.58				ug/L
⌈	V	51	378870.408	0.35	120.6216	8.343	6.917	ug/L
|	Cr	52	341021.410	0.30	122.3038	4.240	3.467	ug/L
|	Cr	53	37096.643	0.01	46.1815	13.080	28.324	ug/L
|	Mn	55	528754.772	0.49	126.0531	3.968	3.148	ug/L
|	Co	59	408139.319	0.38	117.7752	4.258	3.615	ug/L
|	Ni	60	90864.624	0.08	123.0420	2.192	1.782	ug/L
|	Cu	65	97290.862	0.09	118.0855	10.437	8.839	ug/L
|	Zn	66	72367.181	0.07	148.8592	16.328	10.969	ug/L
|>	Ge	72	1076298.006	1076298.01				ug/L
|	As	75	64122.801	0.06	112.9065	1.657	1.467	ug/L
|	Se	77	5195.222	0.00	101.5388	2.259	2.225	ug/L
⌊	Se	82	6528.875	0.01	106.8780	2.691	2.518	ug/L
	Y	89	855528.584	49744.69				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	313999.380	0.33	126.9697	6.273	4.940	ug/L
|	Cd	114	172714.794	0.18	116.8544	2.093	1.791	ug/L
|>	In	115	950757.968	950757.97				ug/L
⌊	Sb	123	166672.681	0.18	115.9266	2.279	1.966	ug/L
⌈	Ba	135	52242.448	0.07	117.1467	4.640	3.961	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	773400.589	773400.59				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	259469.452	259431.12	124.4682	1.766	1.419	ug/L
|	Tl	205	650002.436	649918.10	129.2167	0.656	0.507	ug/L
|	Pb	206	239916.555	239856.55	133.5020	1.477	1.106	ug/L
|	Pb	207	182031.802	181958.46	119.0725	1.337	1.123	ug/L
|	Pb	208	890289.887	890006.54	124.1397	0.796	0.641	ug/L
⌊>	Bi	209	791418.783	791418.78				ug/L
⌈	Na	23	64297.425	0.12	0.0394	0.016	39.836	mg/L
|	Mg	24	5669.024	0.01	0.0043	0.002	44.473	mg/L
|	K	39	781188.223	0.14	0.0216	0.030	141.217	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	62068.026	0.05	0.0873	0.050	57.433	mg/L
|	Fe	57	13011.888	0.01	0.0531	0.022	41.899	mg/L

L>	Sc	45	443082.583	443082.58	mg/L
	Cl	35	56221.848	-2298195.76	mg/L
	Kr	83	168.004	28.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		103.132			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.533			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		106.284			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		108.097			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		106.261			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		103.132			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6L WG97853-04
Report Date/Time: Friday, May 25, 2001 15:26:40

Method 6020 - Summary Report

Sample ID: 0543317 WG97853-02

Sample Date/Time: Friday, May 25, 2001 15:30:58
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23037.418	2669.93				ug/L
⌈	Be	9	100.101	0.00	0.6812	1.088	159.670	ug/L
|	Al	27	83697180.216	169.36	49081.7447	2240.166	4.564	ug/L
\>	Sc-1	45	494555.983	494555.98				ug/L
⌈	V	51	450546.650	0.46	155.9558	3.914	2.509	ug/L
|	Cr	52	216961.550	0.21	83.1202	2.239	2.694	ug/L
|	Cr	53	27389.785	0.01	20.7390	34.185	164.835	ug/L
|	Mn	55	1143779.567	1.15	297.0354	15.656	5.271	ug/L
|	Co	59	41797.028	0.04	13.1195	0.542	4.135	ug/L
|	Ni	60	33411.299	0.03	49.2054	0.321	0.652	ug/L
|	Cu	65	16201.661	0.02	21.3104	4.126	19.363	ug/L
|	Zn	66	97664.133	0.10	219.1122	12.149	5.545	ug/L
| \>	Ge	72	989541.132	989541.13				ug/L
|	As	75	6041.995	0.01	11.2419	0.125	1.110	ug/L
|	Se	77	204.670	-0.00	-7.7584	0.659	8.488	ug/L
⌊	Se	82	149.127	0.00	0.5360	0.265	49.414	ug/L
	Y	89	890983.020	85199.13				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.839	0.00	0.0438	0.125	286.654	ug/L
|	Cd	114	85.809	0.00	0.0445	0.006	12.967	ug/L
| \>	In	115	880048.868	880048.87				ug/L
⌊	Sb	123	1472.533	0.00	0.9640	0.009	0.882	ug/L
⌈	Ba	135	39951.298	0.05	92.6393	5.924	6.395	ug/L
|	Ce	140	469318.486	0.63				ug/L
⌊ \>	Tb	159	749063.550	749063.55				ug/L
⌈	Ho	165	7337.396	7337.40				ug/L
|	Tl	203	1037.753	999.42	0.4795	0.021	4.465	ug/L
|	Tl	205	2616.172	2531.84	0.5034	0.023	4.503	ug/L
|	Pb	206	56488.372	56428.37	31.4075	1.322	4.209	ug/L
|	Pb	207	46881.422	46808.08	30.6309	0.795	2.596	ug/L
|	Pb	208	219661.079	219377.73	30.5992	0.699	2.284	ug/L
⌊ \>	Bi	209	721987.493	721987.49				ug/L
⌈	Na	23	49584657.005	100.38	34.2360	2.858	8.349	mg/L
|	Mg	24	12963150.685	26.23	12.4412	0.868	6.976	mg/L
|	K	39	44785309.093	88.85	14.1099	0.764	5.414	mg/L
|	Ca	43	85185.240	0.17	15.7348	2.779	17.660	mg/L
|	Fe	54	10565487.381	21.27	41.2427	1.009	2.447	mg/L
|	Fe	57	4649536.568	9.38	45.1356	2.359	5.226	mg/L

|> Sc	45	494555.983	494555.98		mg/L
Cl	35	130177.546	-2224240.06		mg/L
Kr	83	197.005	57.67		mg/L
U	238	8672.972	8672.97		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		115.113			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.107			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		98.380			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		104.695			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		96.939			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		115.113			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 WG97853-02
Report Date/Time: Friday, May 25, 2001 15:31:47

Al 27 Upper, S, EEE	Al	27
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0543317 DP WG97853-07

Sample Date/Time: Friday, May 25, 2001 15:36:06
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.629	998.14				ug/L
⌈	Be	9	367.045	0.00	3.2704	2.124	64.953	ug/L
|	Al	27	82325095.294	154.46	44762.9944	5939.176	13.268	ug/L
\>	Sc-1	45	538002.523	538002.52				ug/L
⌈	V	51	442707.408	0.46	158.8584	4.176	2.629	ug/L
|	Cr	52	222158.045	0.22	88.5382	3.577	4.040	ug/L
|	Cr	53	25378.541	0.00	16.8348	7.716	45.834	ug/L
|	Mn	55	1116801.839	1.17	300.6192	6.345	2.111	ug/L
|	Co	59	40756.667	0.04	13.2591	0.358	2.701	ug/L
|	Ni	60	32036.985	0.03	48.9187	0.505	1.031	ug/L
|	Cu	65	17037.419	0.02	23.2493	2.222	9.559	ug/L
|	Zn	66	78436.334	0.08	182.0476	29.873	16.409	ug/L
\>	Ge	72	954428.125	954428.12				ug/L
|	As	75	5843.957	0.01	11.2751	0.250	2.215	ug/L
|	Se	77	219.337	-0.00	-7.2169	0.363	5.027	ug/L
⌊	Se	82	136.786	0.00	0.4044	0.082	20.223	ug/L
	Y	89	776071.185	-29712.71				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.468	0.00	0.0328	0.027	82.463	ug/L
|	Cd	114	86.715	0.00	0.0484	0.005	10.693	ug/L
\>	In	115	836380.961	836380.96				ug/L
⌊	Sb	123	1015.788	0.00	0.6603	0.012	1.800	ug/L
⌈	Ba	135	38509.038	0.06	101.0323	10.587	10.479	ug/L
|	Ce	140	455086.782	0.69				ug/L
\>	Tb	159	661629.489	661629.49				ug/L
⌈	Ho	165	2000.467	2000.47				ug/L
|	Tl	203	932.404	894.07	0.4290	0.013	2.971	ug/L
|	Tl	205	2383.755	2299.42	0.4572	0.011	2.508	ug/L
|	Pb	206	52890.385	52830.38	29.4049	0.369	1.256	ug/L
|	Pb	207	42678.059	42604.72	27.8803	0.402	1.440	ug/L
|	Pb	208	204473.811	204190.46	28.4808	0.174	0.613	ug/L
\>	Bi	209	685664.110	685664.11				ug/L
⌈	Na	23	54577556.495	102.23	34.8669	4.284	12.288	mg/L
|	Mg	24	14087240.211	26.43	12.5361	1.660	13.242	mg/L
|	K	39	43169344.332	79.12	12.5654	1.306	10.391	mg/L
|	Ca	43	94627.760	0.18	16.1298	0.745	4.621	mg/L
|	Fe	54	10853913.318	20.28	39.3241	5.630	14.316	mg/L
|	Fe	57	4575675.780	8.53	41.0764	3.439	8.373	mg/L

└>	Sc	45	538002.523	538002.52	mg/L
	Cl	35	127126.144	-2227291.47	mg/L
	Kr	83	180.004	40.67	mg/L
	U	238	7004.320	7004.32	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		125.225			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.696			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		93.498			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		92.475			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		92.062			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		125.225			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 DP WG97853-07
Report Date/Time: Friday, May 25, 2001 15:36:55

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543318 WG97853-01

Sample Date/Time: Friday, May 25, 2001 15:41:13
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.800	-4.69				ug/L
⌈	Be	9	133.469	0.00	1.3009	2.028	155.863	ug/L
|	Al	27	32734025.986	74.62	21625.7573	1214.240	5.615	ug/L
|>	Sc-1	45	439477.815	439477.81				ug/L
⌈	V	51	194222.627	0.21	70.7917	1.519	2.146	ug/L
|	Cr	52	97051.649	0.09	36.5226	1.271	3.481	ug/L
|	Cr	53	11342.721	-0.01	-37.1482	11.315	30.459	ug/L
|	Mn	55	482364.966	0.51	131.4798	3.887	2.956	ug/L
|	Co	59	20148.558	0.02	6.6472	0.373	5.616	ug/L
|	Ni	60	13726.936	0.01	21.2527	1.519	7.146	ug/L
|	Cu	65	7010.449	0.01	9.6480	0.394	4.082	ug/L
|	Zn	66	55554.929	0.06	130.3820	27.646	21.204	ug/L
|>	Ge	72	941233.345	941233.34				ug/L
|	As	75	2452.545	0.00	4.5870	0.137	2.982	ug/L
|	Se	77	170.669	-0.00	-8.3629	0.123	1.468	ug/L
⌊	Se	82	148.011	0.00	0.6548	0.189	28.930	ug/L
	Y	89	752329.068	-53454.83				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0026	0.027	1052.236	ug/L
|	Cd	114	62.244	0.00	0.0304	0.002	7.239	ug/L
|>	In	115	820858.248	820858.25				ug/L
⌊	Sb	123	1870.817	0.00	1.3652	0.039	2.893	ug/L
⌈	Ba	135	20115.143	0.03	53.1853	5.710	10.737	ug/L
|	Ce	140	206270.028	0.31				ug/L
|>	Tb	159	656542.675	656542.67				ug/L
⌈	Ho	165	2333.777	2333.78				ug/L
|	Tl	203	487.355	449.02	0.2154	0.002	1.143	ug/L
|	Tl	205	1188.778	1104.44	0.2196	0.011	4.928	ug/L
|	Pb	206	24905.865	24845.86	13.8290	0.473	3.420	ug/L
|	Pb	207	20842.499	20769.16	13.5912	0.701	5.156	ug/L
|	Pb	208	98105.425	97822.07	13.6444	0.234	1.715	ug/L
|>	Bi	209	668220.373	668220.37				ug/L
⌈	Na	23	81608081.320	186.43	63.5821	6.866	10.799	mg/L
|	Mg	24	5718697.103	13.05	6.1868	0.449	7.264	mg/L
|	K	39	21285285.837	46.82	7.4359	0.132	1.777	mg/L
|	Ca	43	43136.368	0.10	8.9320	2.020	22.618	mg/L
|	Fe	54	4603864.895	10.42	20.2041	1.918	9.495	mg/L
⌊	Fe	57	1968389.985	4.47	21.5006	0.802	3.731	mg/L

>	Sc	45	439477.815	439477.81	mg/L
	Cl	35	178552.009	-2175865.60	mg/L
	Kr	83	139.669	0.33	mg/L
	U	238	4334.757	4334.76	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		102.293			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		91.415			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		91.763			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		91.764			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		89.720			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		102.293			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 WG97853-01
Report Date/Time: Friday, May 25, 2001 15:42:02

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543318 S WG97853-05

Sample Date/Time: Friday, May 25, 2001 15:46:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24041.373	3673.89				ug/L
⌈	Be	9	11286.897	0.02	133.3010	13.723	10.295	ug/L
|	Al	27	49787081.440	109.00	31589.0032	1467.589	4.646	ug/L
|>	Sc-1	45	457190.951	457190.95				ug/L
⌈	V	51	615067.894	0.67	228.2887	12.380	5.423	ug/L
|	Cr	52	435699.294	0.46	184.7017	9.950	5.387	ug/L
|	Cr	53	47155.188	0.03	107.9069	4.265	3.953	ug/L
|	Mn	55	1124214.826	1.22	313.1376	13.829	4.416	ug/L
|	Co	59	393362.858	0.43	132.4210	5.050	3.814	ug/L
|	Ni	60	94650.459	0.10	149.5008	2.337	1.563	ug/L
|	Cu	65	98237.022	0.11	139.0967	10.307	7.410	ug/L
|	Zn	66	98684.979	0.11	237.4281	30.882	13.007	ug/L
|>	Ge	72	922653.347	922653.35				ug/L
|	As	75	58347.361	0.06	119.8679	1.143	0.954	ug/L
|	Se	77	4411.363	0.00	100.4475	3.324	3.309	ug/L
⌊	Se	82	5424.926	0.01	103.5304	2.265	2.188	ug/L
	Y	89	757922.816	-47861.08				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	251844.437	0.31	120.6191	2.642	2.190	ug/L
|	Cd	114	153151.484	0.19	122.7630	1.508	1.229	ug/L
|>	In	115	802400.837	802400.84				ug/L
⌊	Sb	123	69498.687	0.09	57.1981	1.099	1.921	ug/L
⌈	Ba	135	70179.785	0.11	197.5322	16.653	8.431	ug/L
|	Ce	140	215197.328	0.35				ug/L
⌊>	Tb	159	618019.421	618019.42				ug/L
⌈	Ho	165	1333.567	1333.57				ug/L
|	Tl	203	221157.068	221118.73	106.0870	0.326	0.307	ug/L
|	Tl	205	558176.055	558091.72	110.9598	0.445	0.401	ug/L
|	Pb	206	238476.416	238416.41	132.7005	2.191	1.651	ug/L
|	Pb	207	181682.986	181609.64	118.8442	1.069	0.900	ug/L
|	Pb	208	886419.414	886136.06	123.5998	1.303	1.054	ug/L
⌊>	Bi	209	659940.661	659940.66				ug/L
⌈	Na	23	94004245.571	206.11	70.2966	7.464	10.618	mg/L
|	Mg	24	7461180.354	16.33	7.7442	0.388	5.013	mg/L
|	K	39	22645149.040	48.01	7.6252	0.782	10.250	mg/L
|	Ca	43	45152.424	0.10	9.1338	3.367	36.862	mg/L
|	Fe	54	5706366.540	12.39	24.0341	0.903	3.757	mg/L
|	Fe	57	2518652.851	5.50	26.4685	1.482	5.600	mg/L

└> Sc	45	457190.951	457190.95		mg/L
Cl	35	183667.818	-2170749.79		mg/L
Kr	83	151.003	11.67		mg/L
U	238	5335.621	5335.62		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
└> Sc-1	45		106.416			
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72		89.610			
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115		89.699			
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
└> Tb	159		86.380			
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
└> Bi	209		88.608			
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
└> Sc	45		106.416			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 S WG97853-05
Report Date/Time: Friday, May 25, 2001 15:47:11

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543318 SD WG97853-06

Sample Date/Time: Friday, May 25, 2001 15:51:30
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.676	998.19				ug/L
⌈	Be	9	9883.433	0.02	111.9688	8.729	7.796	ug/L
|	Al	27	44886778.148	95.03	27538.8790	3489.250	12.670	ug/L
|>	Sc-1	45	475369.963	475369.96				ug/L
⌈	V	51	623374.511	0.67	230.4763	14.489	6.286	ug/L
|	Cr	52	448629.220	0.47	189.5366	0.853	0.450	ug/L
|	Cr	53	42795.155	0.02	89.7749	16.282	18.137	ug/L
|	Mn	55	1056675.775	1.14	293.0515	15.012	5.123	ug/L
|	Co	59	385273.031	0.42	129.2178	6.822	5.279	ug/L
|	Ni	60	90797.270	0.10	142.8800	3.562	2.493	ug/L
|	Cu	65	93129.525	0.10	131.2995	3.713	2.828	ug/L
|	Zn	66	104431.130	0.11	250.6544	30.928	12.339	ug/L
|>	Ge	72	926077.677	926077.68				ug/L
|	As	75	57464.055	0.06	117.6059	0.738	0.627	ug/L
|	Se	77	4297.959	0.00	97.1466	1.668	1.717	ug/L
⌊	Se	82	5220.320	0.01	99.1557	0.449	0.453	ug/L
	Y	89	762802.447	-42981.45				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	265436.561	0.33	126.9377	2.226	1.754	ug/L
|	Cd	114	154598.012	0.19	123.7436	1.856	1.500	ug/L
|>	In	115	803607.733	803607.73				ug/L
⌊	Sb	123	71814.283	0.09	59.0202	1.040	1.763	ug/L
⌈	Ba	135	71325.379	0.12	199.9442	14.736	7.370	ug/L
|	Ce	140	220005.942	0.36				ug/L
|>	Tb	159	620188.931	620188.93				ug/L
⌈	Ho	165	1666.923	1666.92				ug/L
|	Tl	203	220135.955	220097.62	105.5970	0.629	0.596	ug/L
|	Tl	205	562087.552	562003.22	111.7374	0.625	0.559	ug/L
|	Pb	206	238320.708	238260.70	132.6138	0.670	0.505	ug/L
|	Pb	207	180982.243	180908.90	118.3856	1.495	1.263	ug/L
|	Pb	208	880888.759	880605.41	122.8284	0.291	0.237	ug/L
|>	Bi	209	637758.237	637758.24				ug/L
⌈	Na	23	90560866.613	191.91	65.4526	9.959	15.216	mg/L
|	Mg	24	7024837.119	14.82	7.0302	0.510	7.255	mg/L
|	K	39	23990583.987	49.01	7.7839	0.604	7.756	mg/L
|	Ca	43	49170.676	0.10	9.4937	1.257	13.242	mg/L
|	Fe	54	5646175.551	11.79	22.8631	0.494	2.161	mg/L
|	Fe	57	2156734.993	4.54	21.8583	1.996	9.134	mg/L

L>	Sc	45	475369.963	475369.96	mg/L
	Cl	35	149211.028	-2205206.58	mg/L
	Kr	83	139.669	0.33	mg/L
	U	238	7003.478	7003.48	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		110.647			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		89.943			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		89.834			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		86.683			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		85.630			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		110.647			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 SD WG97853-06
Report Date/Time: Friday, May 25, 2001 15:52:19

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0540411 PS

Sample Date/Time: Friday, May 25, 2001 15:56:39
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27386.310	7018.82				ug/L
⌈	Be	9	20249.088	0.04	114.4263	16.850	14.726	ug/L
|	Al	27	533245.656	1.10	159.0080	12.121	7.623	ug/L
⌊>	Sc-1	45	479596.283	479596.28				ug/L
⌈	V	51	815884.477	0.87	148.5844	6.313	4.249	ug/L
|	Cr	52	740145.994	0.78	155.6679	2.051	1.318	ug/L
|	Cr	53	78435.665	0.06	114.3537	27.267	23.844	ug/L
|	Mn	55	1081778.051	1.15	147.9755	6.875	4.646	ug/L
|	Co	59	843214.488	0.90	139.3212	6.943	4.983	ug/L
|	Ni	60	168878.338	0.18	130.9442	5.809	4.436	ug/L
|	Cu	65	192693.761	0.21	133.9537	6.339	4.732	ug/L
|	Zn	66	115599.491	0.12	136.6387	9.877	7.229	ug/L
|>	Ge	72	939226.908	939226.91				ug/L
|	As	75	113572.360	0.12	114.7581	1.336	1.164	ug/L
|	Se	77	8522.415	0.01	101.0392	3.083	3.051	ug/L
⌊	Se	82	10811.161	0.01	102.3668	0.100	0.098	ug/L
	Y	89	742210.669	-63573.23				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	518147.777	0.64	122.9803	3.472	2.823	ug/L
|	Cd	114	312906.406	0.39	124.3024	1.093	0.879	ug/L
|>	In	115	809560.876	809560.88				ug/L
⌊	Sb	123	314710.183	0.39	128.6059	1.970	1.532	ug/L
⌈	Ba	135	101077.758	0.15	131.7646	2.622	1.990	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	664909.406	664909.41				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	475412.987	475374.65	114.0361	1.195	1.048	ug/L
|	Tl	205	1209584.421	1209500.09	120.2364	1.597	1.328	ug/L
|	Pb	206	439158.667	439098.66	122.1992	1.811	1.482	ug/L
|	Pb	207	345391.603	345318.26	112.9870	1.572	1.391	ug/L
|	Pb	208	1660600.313	1660316.96	115.7919	1.027	0.887	ug/L
⌊>	Bi	209	657856.940	657856.94				ug/L
⌈	Na	23	418989.272	0.84	0.1434	0.011	7.723	mg/L
|	Mg	24	158761.148	0.33	0.0779	0.013	16.368	mg/L
|	K	39	684365.789	-0.21	-0.0167	0.010	61.048	mg/L
|	Ca	43	3334.174	0.01	0.3189	0.112	34.973	mg/L
|	Fe	54	118804.507	0.15	0.1471	0.032	22.037	mg/L
|	Fe	57	16018.502	0.01	0.0361	0.020	55.995	mg/L

└>	Sc	45	479596.283	479596.28	mg/L
	Cl	35	79465.082	-2274952.53	mg/L
	Kr	83	116.669	-22.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
|	Al	27					
└>	Sc-1	45		111.631			
┌	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.220			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		90.500			
└	Sb	123					
┌	Ba	135					
|	Ce	140					
└>	Tb	159		92.933			
┌	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		88.328			
┌	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		111.631			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411 PS
Report Date/Time: Friday, May 25, 2001 15:57:28

Method 6020 - Summary Report

Sample ID: 0540411 SDL

Sample Date/Time: Friday, May 25, 2001 16:05:53
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24711.036	4343.55				ug/L
⌈	Be	9	0.000	-0.00	-1.0499	0.000	0.000	ug/L
|	Al	27	30733.219	0.05	37.5357	3.115	8.298	ug/L
⌊>	Sc-1	45	455427.309	455427.31				ug/L
⌈	V	51	5861.503	0.01	5.8895	0.889	15.091	ug/L
|	Cr	52	13392.653	0.00	2.1997	1.328	60.355	ug/L
|	Cr	53	1666.877	-0.02	-188.1801	5.748	3.054	ug/L
|	Mn	55	1434.913	0.00	0.1920	0.074	38.436	ug/L
|	Co	59	100.101	0.00	0.0832	0.083	100.370	ug/L
|	Ni	60	100.101	0.00	0.3893	0.388	99.693	ug/L
|	Cu	65	100.102	0.00	0.1395	0.608	436.171	ug/L
|	Zn	66	1667.063	0.00	6.2946	12.342	196.075	ug/L
|>	Ge	72	937484.622	937484.62				ug/L
|	As	75	66.924	-0.00	-0.5773	0.196	33.997	ug/L
|	Se	77	121.334	-0.00	-23.9770	0.155	0.644	ug/L
⌊	Se	82	91.393	-0.00	-1.0480	0.400	38.177	ug/L
	Y	89	682529.531	-123254.36				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0065	0.068	1038.901	ug/L
|	Cd	114	20.046	-0.00	-0.0066	0.003	38.268	ug/L
|>	In	115	821322.109	821322.11				ug/L
⌊	Sb	123	268.615	0.00	0.1822	0.032	17.467	ug/L
⌈	Ba	135	33.367	0.00	0.0099	0.367	3711.686	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	678438.329	678438.33				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	29.000	-9.33	-0.0112	0.006	56.695	ug/L
|	Tl	205	73.334	-11.00	-0.0055	0.006	117.246	ug/L
|	Pb	206	186.688	126.68	0.1763	0.035	19.868	ug/L
|	Pb	207	120.013	46.67	0.0764	0.087	113.390	ug/L
|	Pb	208	627.045	343.69	0.1198	0.017	14.160	ug/L
⌊>	Bi	209	678126.565	678126.57				ug/L
⌈	Na	23	98356.433	0.18	0.1554	0.027	17.361	mg/L
|	Mg	24	33413.235	0.07	0.0827	0.019	22.809	mg/L
|	K	39	666429.228	-0.17	-0.0679	0.064	94.543	mg/L
|	Ca	43	666.713	0.00	0.3266	0.283	86.657	mg/L
|	Fe	54	54500.261	0.02	0.1151	0.085	74.035	mg/L
|	Fe	57	6002.661	-0.01	-0.0651	0.048	73.373	mg/L

|> Sc	45	455427.309	455427.31		mg/L
Cl	35	41120.033	-2313297.58		mg/L
Kr	83	120.669	-18.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		106.005			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.051			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		91.815			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		94.824			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		91.050			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		106.005			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411 SDL
Report Date/Time: Friday, May 25, 2001 16:06:44

Be 9 Lower	Be	9
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 16:11:03
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.260	1666.77				ug/L
⌈	Be	9	21487.131	0.05	51.8516	6.020	11.610	ug/L
|	Al	27	368274.543	0.81	46.8907	6.610	14.097	ug/L
|>	Sc-1	45	449778.462	449778.46				ug/L
⌈	V	51	800413.138	0.81	55.7323	3.724	6.681	ug/L
|	Cr	52	681645.922	0.68	54.6531	1.498	2.741	ug/L
|	Cr	53	87205.275	0.07	49.5652	11.717	23.640	ug/L
|	Mn	55	1050695.491	1.07	54.8956	0.733	1.335	ug/L
|	Co	59	812906.902	0.83	51.3448	1.256	2.446	ug/L
|	Ni	60	168876.482	0.17	50.0564	2.662	5.317	ug/L
|	Cu	65	192346.734	0.20	51.0861	0.918	1.797	ug/L
|	Zn	66	132215.409	0.13	59.7553	2.930	4.903	ug/L
|>	Ge	72	983464.449	983464.45				ug/L
|	As	75	127220.483	0.13	49.1223	1.028	2.094	ug/L
|	Se	77	10737.400	0.01	49.1223	0.547	1.114	ug/L
⌊	Se	82	13651.654	0.01	49.4772	0.947	1.915	ug/L
	Y	89	764893.067	-40890.83				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	576557.309	0.69	53.3311	0.810	1.519	ug/L
|	Cd	114	336383.244	0.40	52.0750	0.464	0.892	ug/L
|>	In	115	831054.428	831054.43				ug/L
⌊	Sb	123	319702.956	0.38	50.9166	1.165	2.288	ug/L
⌈	Ba	135	93975.179	0.14	48.6069	1.952	4.017	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	670396.952	670396.95				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	473082.544	473044.21	45.3908	0.599	1.319	ug/L
|	Tl	205	1194771.008	1194686.67	47.5055	0.910	1.915	ug/L
|	Pb	206	443745.193	443685.19	49.3903	1.041	2.108	ug/L
|	Pb	207	336444.785	336371.44	44.0239	0.476	1.081	ug/L
|	Pb	208	1654168.608	1653885.26	46.1374	0.409	0.887	ug/L
⌊>	Bi	209	695727.497	695727.50				ug/L
⌈	Na	23	32539931.159	72.43	4.9407	0.711	14.391	mg/L
|	Mg	24	24065340.816	53.54	5.0781	0.152	2.992	mg/L
|	K	39	78489716.967	173.53	5.5118	0.447	8.103	mg/L
|	Ca	43	136633.429	0.31	5.6081	0.844	15.042	mg/L
|	Fe	54	4844264.146	10.71	4.1523	0.450	10.833	mg/L
|	Fe	57	2064409.008	4.58	4.4123	0.215	4.873	mg/L

>	Sc	45	449778.462	449778.46	mg/L
	Cl	35	35421.427	-2318996.18	mg/L
	Kr	83	130.669	-8.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	103.703				
	Al	27	93.781				
>	Sc-1	45		104.690			
	V	51	111.465				
	Cr	52	109.306				
	Cr	53	99.130				
	Mn	55	109.791				
	Co	59	102.690				
	Ni	60	100.113				
	Cu	65	102.172				
	Zn	66	119.511				
>	Ge	72		95.516			
	As	75	98.245				
	Se	77	98.245				
	Se	82	98.954				
	Y	89					
	Rh	103					
	Ag	107	106.662				
	Cd	114	104.150				
>	In	115		92.903			
	Sb	123	101.833				
	Ba	135	97.214				
	Ce	140					
>	Tb	159		93.700			
	Ho	165					
	Tl	203	90.782				
	Tl	205	95.011				
	Pb	206	98.781				
	Pb	207	88.048				
	Pb	208	92.275				
>	Bi	209		93.413			
	Na	23	98.814				
	Mg	24	101.561				
	K	39	110.235				
	Ca	43	112.163				
	Fe	54	83.046				
	Fe	57	88.245				
>	Sc	45		104.690			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 16:11:53

QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Pb	207	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 16:16:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23708.957	3341.47				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	5335.434	-0.00	-0.2050	0.209	102.139	ug/L
\>	Sc-1	45	449097.439	449097.44				ug/L
⌈	V	51	4222.999	0.01	0.3429	0.051	14.993	ug/L
|	Cr	52	12122.437	0.00	0.0407	0.111	273.138	ug/L
|	Cr	53	2667.227	-0.02	-14.3186	0.893	6.238	ug/L
|	Mn	55	500.519	-0.00	-0.0365	0.006	16.645	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	33.367	0.00	0.0098	0.017	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	333.357	-0.00	-0.1390	0.260	187.376	ug/L
\>	Ge	72	963602.125	963602.12				ug/L
|	As	75	176.587	-0.00	-0.0031	0.032	1051.013	ug/L
|	Se	77	125.334	-0.00	-1.9166	0.103	5.399	ug/L
⌊	Se	82	110.038	-0.00	-0.0218	0.120	551.094	ug/L
	Y	89	741825.658	-63958.24				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	15.808	-0.00	-0.0012	0.000	20.160	ug/L
\>	In	115	816096.680	816096.68				ug/L
⌊	Sb	123	931.047	0.00	0.1228	0.010	8.029	ug/L
⌈	Ba	135	33.367	-0.00	-0.0003	0.028	10540.257	ug/L
|	Ce	140	0.000	0.00				ug/L
\>	Tb	159	665707.646	665707.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	36.000	-2.33	-0.0002	0.001	257.143	ug/L
|	Tl	205	62.668	-21.67	-0.0009	0.000	26.244	ug/L
|	Pb	206	103.344	43.34	0.0048	0.004	81.044	ug/L
|	Pb	207	66.674	-6.67	-0.0009	0.004	482.182	ug/L
|	Pb	208	308.021	24.67	0.0007	0.001	164.572	ug/L
\>	Bi	209	690773.076	690773.08				ug/L
⌈	Na	23	13347.396	-0.00	-0.0001	0.001	828.850	mg/L
|	Mg	24	1333.473	-0.00	-0.0001	0.000	137.895	mg/L
|	K	39	715484.159	-0.04	-0.0013	0.003	262.494	mg/L
|	Ca	43	333.357	0.00	0.0134	0.023	173.205	mg/L
|	Fe	54	49501.987	0.01	0.0051	0.005	89.666	mg/L
|	Fe	57	7670.986	-0.00	-0.0012	0.006	532.065	mg/L

⌊> Sc	45	449097.439	449097.44		mg/L
Cl	35	28056.725	-2326360.89		mg/L
Kr	83	146.336	7.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		104.532			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.587			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		91.230			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.045			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		92.748			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		104.532			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 16:16:59

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBS 4G WG98121-03

Sample Date/Time: Friday, May 25, 2001 16:21:18
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26717.492	6350.00				ug/L
⌈	Be	9	0.000	-0.00	-8.3990	0.000	0.000	ug/L
|	Al	27	253440.152	0.49	2838.3797	407.910	14.371	ug/L
|>	Sc-1	45	504236.959	504236.96				ug/L
⌈	V	51	5953.374	0.01	47.5914	26.782	56.276	ug/L
|	Cr	52	22123.142	0.01	90.3289	21.176	23.443	ug/L
|	Cr	53	3667.717	-0.02	-1350.5112	118.240	8.755	ug/L
|	Mn	55	18877.123	0.02	95.9724	2.940	3.064	ug/L
|	Co	59	767.476	0.00	5.0108	0.913	18.218	ug/L
|	Ni	60	1601.782	0.00	49.2242	3.504	7.118	ug/L
|	Cu	65	1201.303	0.00	31.4313	3.418	10.874	ug/L
|	Zn	66	10674.840	0.01	473.7755	97.286	20.534	ug/L
|>	Ge	72	949014.824	949014.82				ug/L
|	As	75	29.171	-0.00	-6.1719	1.199	19.423	ug/L
|	Se	77	150.002	-0.00	-178.1582	6.771	3.801	ug/L
⌊	Se	82	94.342	-0.00	-7.7187	2.682	34.750	ug/L
	Y	89	794587.423	-11196.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	233.571	0.00	1.4688	1.020	69.453	ug/L
|	Cd	114	48.671	0.00	0.3433	0.103	29.991	ug/L
|>	In	115	881640.074	881640.07				ug/L
⌊	Sb	123	1203.224	0.00	15.1989	1.627	10.702	ug/L
⌈	Ba	135	1034.444	0.00	49.4498	6.233	12.605	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	702332.197	702332.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	40.667	2.33	0.0224	0.077	343.749	ug/L
|	Tl	205	84.668	0.33	0.0013	0.048	3604.111	ug/L
|	Pb	206	1113.532	1053.53	11.7277	0.973	8.295	ug/L
|	Pb	207	953.493	880.15	11.5193	1.987	17.247	ug/L
|	Pb	208	4390.093	4106.74	11.4563	0.205	1.792	ug/L
|>	Bi	209	615274.783	615274.78				ug/L
⌈	Na	23	416172.902	0.80	5.4339	0.764	14.057	mg/L
|	Mg	24	60591.553	0.12	1.1046	0.137	12.432	mg/L
|	K	39	837386.362	0.03	0.0867	0.471	543.760	mg/L
|	Ca	43	3000.677	0.01	10.9073	3.699	33.912	mg/L
|	Fe	54	453013.122	0.81	31.2513	3.321	10.628	mg/L
|	Fe	57	19359.643	0.02	1.9130	0.378	19.759	mg/L

\>	Sc	45	504236.959	504236.96	mg/L
	Cl	35	91585.146	-2262832.47	mg/L
	Kr	83	109.002	-30.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		117.366			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		92.171			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		98.557			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		98.164			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		82.611			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		117.366			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 4G WG98121-03
Report Date/Time: Friday, May 25, 2001 16:22:08

Be 9 Lower	Be	9
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82

Method 6020 - Summary Report

Sample ID: LCSS 4G WG98121-04

Sample Date/Time: Friday, May 25, 2001 16:26:52
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27052.957	6685.47				ug/L
⌈	Be	9	4339.064	0.01	9110.6394	1883.952	20.679	ug/L
|	Al	27	98682.114	0.18	10446.9586	1060.202	10.148	ug/L
⌊>	Sc-1	45	504625.190	504625.19				ug/L
⌈	V	51	163965.273	0.17	11320.9903	312.478	2.760	ug/L
|	Cr	52	151337.719	0.14	11254.4310	713.264	6.338	ug/L
|	Cr	53	16019.767	-0.01	-4412.2485	4620.550	104.721	ug/L
⌈	Mn	55	215483.235	0.22	11086.0211	359.016	3.238	ug/L
|	Co	59	155051.663	0.16	9687.4398	183.100	1.890	ug/L
|	Ni	60	34249.454	0.03	10040.1334	160.974	1.603	ug/L
|	Cu	65	38609.514	0.04	10129.6279	561.750	5.546	ug/L
|	Zn	66	27388.469	0.03	12039.0624	3504.123	29.106	ug/L
| >	Ge	72	994221.358	994221.36				ug/L
|	As	75	24042.377	0.02	9123.6419	188.781	2.069	ug/L
|	Se	77	1980.941	0.00	6898.3489	297.854	4.318	ug/L
⌊	Se	82	2419.094	0.00	8313.8430	70.997	0.854	ug/L
	Y	89	759386.420	-46397.48				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	112255.899	0.13	9957.2010	670.580	6.735	ug/L
|	Cd	114	63929.776	0.07	9491.3152	36.291	0.382	ug/L
| >	In	115	866204.834	866204.83				ug/L
⌊	Sb	123	62780.997	0.07	9570.0678	312.553	3.266	ug/L
⌈	Ba	135	19345.688	0.03	9286.2592	1348.444	14.521	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	723945.737	723945.74				ug/L
⌈	Ho	165	0.000	0.00				ug/L
⌈	Tl	203	94243.974	94205.64	9039.4776	94.775	1.048	ug/L
|	Tl	205	238040.314	237955.98	9462.0777	208.792	2.207	ug/L
|	Pb	206	88358.699	88298.69	9829.2548	165.799	1.687	ug/L
|	Pb	207	67070.183	66996.84	8768.4622	183.258	2.090	ug/L
⌊	Pb	208	327741.959	327458.61	9134.8988	123.108	1.348	ug/L
⌊>	Bi	209	714508.395	714508.40				ug/L
⌈	Na	23	65970.019	0.10	6.7326	0.760	11.287	mg/L
|	Mg	24	7337.583	0.01	0.9849	0.472	47.923	mg/L
|	K	39	671501.503	-0.30	-9.5631	4.710	49.254	mg/L
|	Ca	43	666.713	0.00	25.4305	22.031	86.634	mg/L
|	Fe	54	79567.479	0.06	23.2450	9.077	39.048	mg/L
⌊	Fe	57	7003.759	-0.00	-4.6549	4.845	104.089	mg/L

L>	Sc	45	504625.190	504625.19	mg/L
	Cl	35	33413.235	-2321004.38	mg/L
	Kr	83	119.336	-20.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		117.457			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		96.561			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		96.832			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		101.185			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		95.935			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		117.457			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 4G WG98121-04
Report Date/Time: Friday, May 25, 2001 16:27:50

Cr 53 Lower	Cr	53
K 39 Lower	K	39
Fe 57 Lower	Fe	57

Sample ID: LCSS 4G WG98121-04
Report Date/Time: Friday, May 25, 2001 16:27:50
Page 3

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 16:32:10
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.073	1666.59				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	67820197.552	167.44	9704.6642	1434.432	14.781	ug/L
⌊>	Sc-1	45	408772.293	408772.29				ug/L
⌈	V	51	47.047	0.00	0.0480	0.394	821.473	ug/L
|	Cr	52	17539.067	0.01	0.4442	0.080	17.910	ug/L
|	Cr	53	8672.878	-0.01	-9.8887	3.405	34.438	ug/L
|	Mn	55	6709.999	0.01	0.2834	0.089	31.314	ug/L
|	Co	59	1368.172	0.00	0.0854	0.023	27.264	ug/L
|	Ni	60	2369.440	0.00	0.6946	0.151	21.713	ug/L
|	Cu	65	1001.080	0.00	0.2462	0.115	46.741	ug/L
|	Zn	66	4001.307	0.00	1.5112	0.909	60.155	ug/L
|>	Ge	72	994779.933	994779.93				ug/L
|	As	75	105.904	-0.00	-0.0327	0.042	129.560	ug/L
|	Se	77	603.359	0.00	0.3405	0.423	124.210	ug/L
⌊	Se	82	117.553	-0.00	-0.0095	0.019	198.797	ug/L
	Y	89	721708.399	-84075.50				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	133.471	0.00	0.0063	0.021	329.769	ug/L
|	Cd	114	2314.880	0.00	0.3437	0.005	1.310	ug/L
|>	In	115	857313.740	857313.74				ug/L
⌊	Sb	123	857.910	0.00	0.1037	0.003	3.049	ug/L
⌈	Ba	135	233.571	0.00	0.0965	0.055	57.484	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	718048.965	718048.96				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	88.335	50.00	0.0048	0.002	39.107	ug/L
|	Tl	205	234.006	149.67	0.0060	0.001	9.978	ug/L
|	Pb	206	1343.594	1283.59	0.1429	0.008	5.474	ug/L
|	Pb	207	1206.889	1133.55	0.1484	0.007	5.018	ug/L
|	Pb	208	5610.837	5327.49	0.1486	0.001	0.621	ug/L
⌊>	Bi	209	700100.238	700100.24				ug/L
⌈	Na	23	149959153.650	370.78	25.2917	4.427	17.502	mg/L
|	Mg	24	41056719.779	100.98	9.5785	1.240	12.943	mg/L
|	K	39	128815476.670	315.49	10.0208	1.161	11.582	mg/L
|	Ca	43	703375.342	1.73	31.6530	1.805	5.701	mg/L
|	Fe	54	22145693.407	54.53	21.1498	2.695	12.743	mg/L
|	Fe	57	9420943.435	23.17	22.3073	2.679	12.008	mg/L

> Sc	45	408772.293	408772.29		mg/L
Cl	35	6221466.134	3867048.52		mg/L
Kr	83	157.337	18.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	97.047				
>	Sc-1	45		95.146			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		96.615			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		95.838			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		100.360			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		94.000			
	Na	23	101.167				
	Mg	24	95.785				
	K	39	100.208				
	Ca	43	105.510				
	Fe	54	84.599				
	Fe	57	89.229				
>	Sc	45		95.146			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 16:33:00

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 16:37:20
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29394.174	9026.69				ug/L
[	Be	9	33.367	0.00	0.0051	0.154	3043.208	ug/L
|	Al	27	66448112.630	164.43	9530.2283	985.012	10.336	ug/L
\>	Sc-1	45	405548.572	405548.57				ug/L
[	V	51	294159.633	0.30	20.3234	1.030	5.070	ug/L
|	Cr	52	269766.389	0.26	20.8509	0.410	1.967	ug/L
|	Cr	53	41119.751	0.02	14.4613	5.152	35.629	ug/L
|	Mn	55	404713.970	0.41	20.9214	0.562	2.686	ug/L
|	Co	59	299624.163	0.30	18.7508	0.662	3.528	ug/L
|	Ni	60	65329.139	0.07	19.1980	0.603	3.143	ug/L
|	Cu	65	72909.794	0.07	19.1838	0.514	2.679	ug/L
|	Zn	66	22703.829	0.02	9.9508	2.322	23.336	ug/L
\>	Ge	72	992151.584	992151.58				ug/L
|	As	75	25551.571	0.03	9.7214	0.210	2.158	ug/L
|	Se	77	2651.826	0.00	10.1209	0.639	6.318	ug/L
[	Se	82	2802.540	0.00	9.7219	0.114	1.169	ug/L
	Y	89	812772.868	6988.97				ug/L
[	Rh	103	33.367	0.00				ug/L
|	Ag	107	54393.931	0.06	4.7988	0.253	5.265	ug/L
|	Cd	114	69076.392	0.08	10.2089	0.537	5.260	ug/L
\>	In	115	871779.735	871779.73				ug/L
[	Sb	123	823.821	0.00	0.0966	0.006	5.996	ug/L
[	Ba	135	100.101	0.00	0.0361	0.052	143.888	ug/L
|	Ce	140	1333.567	0.00				ug/L
\>	Tb	159	682872.501	682872.50				ug/L
[	Ho	165	333.357	333.36				ug/L
|	Tl	203	88.668	50.33	0.0048	0.000	4.136	ug/L
|	Tl	205	206.005	121.67	0.0048	0.000	9.690	ug/L
|	Pb	206	1323.588	1263.58	0.1407	0.005	3.199	ug/L
|	Pb	207	1176.882	1103.54	0.1444	0.021	14.569	ug/L
|	Pb	208	5180.000	4896.65	0.1366	0.005	3.770	ug/L
\>	Bi	209	704709.290	704709.29				ug/L
[	Na	23	144966254.160	357.23	24.3670	0.923	3.786	mg/L
|	Mg	24	44940463.542	110.82	10.5118	0.235	2.235	mg/L
|	K	39	140588934.215	346.72	11.0130	1.523	13.827	mg/L
|	Ca	43	691415.875	1.71	31.3069	3.263	10.423	mg/L
|	Fe	54	22022441.158	54.31	21.0673	1.185	5.627	mg/L
|	Fe	57	9834563.844	24.31	23.4038	2.127	9.088	mg/L

⌊> Sc	45	405548.572	405548.57		mg/L
Cl	35	6510915.845	4156498.23		mg/L
Kr	83	172.337	33.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	95.302				
⌊>	Sc-1	45		94.395			
⌈	V	51	101.617				
|	Cr	52	104.255				
|	Cr	53	72.307				
|	Mn	55	104.607				
|	Co	59	93.754				
|	Ni	60	95.990				
|	Cu	65	95.919				
|	Zn	66	99.508				
|>	Ge	72		96.360			
|	As	75	97.214				
|	Se	77	101.209				
⌊	Se	82	97.219				
	Y	89					
⌈	Rh	103					
|	Ag	107	95.975				
|	Cd	114	102.089				
|>	In	115		97.455			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.444			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		94.619			
⌈	Na	23	97.468				
|	Mg	24	105.118				
|	K	39	110.130				
|	Ca	43	104.356				
|	Fe	54	84.269				
|	Fe	57	93.615				
⌊>	Sc	45		94.395			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 16:38:11

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 16:42:30
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23372.929	3005.44				ug/L
⌈	Be	9	21052.408	0.04	47.3159	4.976	10.517	ug/L
|	Al	27	430255.887	0.88	51.2055	3.385	6.611	ug/L
|>	Sc-1	45	479992.574	479992.57				ug/L
⌈	V	51	783594.972	0.76	52.2831	2.084	3.987	ug/L
|	Cr	52	691968.227	0.66	53.1458	1.369	2.576	ug/L
|	Cr	53	84161.572	0.06	44.4961	4.236	9.521	ug/L
|	Mn	55	1083082.557	1.05	54.2153	2.670	4.924	ug/L
|	Co	59	828089.875	0.81	50.1342	2.642	5.270	ug/L
|	Ni	60	182448.066	0.18	51.8322	1.946	3.755	ug/L
|	Cu	65	201094.606	0.20	51.1569	1.532	2.995	ug/L
|	Zn	66	146148.777	0.14	63.3462	3.201	5.053	ug/L
|>	Ge	72	1026472.503	1026472.50				ug/L
|	As	75	139811.470	0.14	51.7415	1.744	3.371	ug/L
|	Se	77	11833.795	0.01	52.0270	0.950	1.825	ug/L
⌊	Se	82	14972.117	0.01	52.0435	2.699	5.186	ug/L
	Y	89	819138.110	13354.22				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	624818.978	0.69	53.1881	1.429	2.686	ug/L
|	Cd	114	366779.169	0.41	52.2510	1.039	1.988	ug/L
|>	In	115	903187.844	903187.84				ug/L
⌊	Sb	123	342324.927	0.38	50.1653	1.132	2.256	ug/L
⌈	Ba	135	103176.039	0.14	49.2466	1.667	3.386	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	727299.154	727299.15				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	517622.858	517584.52	49.6647	0.271	0.545	ug/L
|	Tl	205	1311194.764	1311110.43	52.1350	0.441	0.847	ug/L
|	Pb	206	483488.253	483428.25	53.8144	1.069	1.987	ug/L
|	Pb	207	370836.374	370763.03	48.5250	0.546	1.126	ug/L
|	Pb	208	1795025.124	1794741.77	50.0667	0.361	0.720	ug/L
|>	Bi	209	736643.908	736643.91				ug/L
⌈	Na	23	34433789.587	71.93	4.9066	0.485	9.877	mg/L
|	Mg	24	24114465.551	50.25	4.7658	0.245	5.150	mg/L
|	K	39	65331146.770	134.74	4.2799	0.241	5.621	mg/L
|	Ca	43	104430.368	0.22	4.0096	0.612	15.264	mg/L
|	Fe	54	4865087.858	10.09	3.9149	0.431	11.003	mg/L
|	Fe	57	2116796.256	4.42	4.2529	0.507	11.932	mg/L

⌊>	Sc	45	479992.574	479992.57	mg/L
	Cl	35	98005.924	-2256411.69	mg/L
	Kr	83	143.670	4.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	94.632				
|	Al	27	102.411				
⌊>	Sc-1	45		111.723			
⌈	V	51	104.566				
|	Cr	52	106.292				
|	Cr	53	88.992				
|	Mn	55	108.431				
|	Co	59	100.268				
|	Ni	60	103.664				
|	Cu	65	102.314				
|	Zn	66	126.692				
|>	Ge	72		99.693			
|	As	75	103.483				
|	Se	77	104.054				
⌊	Se	82	104.087				
	Y	89					
⌈	Rh	103					
|	Ag	107	106.376				
|	Cd	114	104.502				
|>	In	115		100.966			
⌊	Sb	123	100.331				
⌈	Ba	135	98.493				
|	Ce	140					
⌊>	Tb	159		101.653			
⌈	Ho	165					
|	Tl	203	99.329				
|	Tl	205	104.270				
|	Pb	206	107.629				
|	Pb	207	97.050				
|	Pb	208	100.133				
⌊>	Bi	209		98.907			
⌈	Na	23	98.131				
|	Mg	24	95.316				
|	K	39	85.598				
|	Ca	43	80.192				
|	Fe	54	78.297				
|	Fe	57	85.058				
⌊>	Sc	45		111.723			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 16:43:20

QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Fe	54	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 16:47:38
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23706.377	3338.89				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	4334.664	-0.01	-0.3539	0.027	7.761	ug/L
⌊>	Sc-1	45	460154.190	460154.19				ug/L
⌈	V	51	3599.895	0.00	0.2775	0.169	60.760	ug/L
|	Cr	52	12556.945	-0.00	-0.0065	0.075	1159.710	ug/L
|	Cr	53	2667.554	-0.02	-14.4816	2.049	14.147	ug/L
|	Mn	55	567.263	-0.00	-0.0356	0.018	51.001	ug/L
|	Co	59	33.367	0.00	0.0020	0.003	173.205	ug/L
|	Ni	60	66.734	0.00	0.0187	0.016	86.612	ug/L
|	Cu	65	33.367	-0.00	-0.0086	0.014	167.707	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
| >	Ge	72	1045331.334	1045331.33				ug/L
|	As	75	75.178	-0.00	-0.0459	0.011	23.744	ug/L
|	Se	77	162.669	-0.00	-1.7940	0.038	2.140	ug/L
⌊	Se	82	105.306	-0.00	-0.0719	0.032	44.821	ug/L
	Y	89	858000.894	52217.00				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0029	0.005	168.888	ug/L
|	Cd	114	29.980	0.00	0.0006	0.001	119.220	ug/L
| >	In	115	897613.009	897613.01				ug/L
⌊	Sb	123	1062.315	0.00	0.1280	0.010	7.562	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	788220.411	788220.41				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.334	32.00	0.0031	0.000	10.975	ug/L
|	Tl	205	157.670	73.34	0.0029	0.001	21.875	ug/L
|	Pb	206	76.675	16.67	0.0019	0.006	301.993	ug/L
|	Pb	207	53.339	-20.00	-0.0026	0.005	175.594	ug/L
|	Pb	208	286.350	3.00	0.0001	0.002	2183.397	ug/L
⌊>	Bi	209	737529.283	737529.28				ug/L
⌈	Na	23	15350.059	0.00	0.0000	0.000	280.608	mg/L
|	Mg	24	666.713	-0.00	-0.0002	0.000	52.974	mg/L
|	K	39	784441.008	0.06	0.0019	0.002	108.440	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	44788.378	0.00	0.0009	0.007	784.493	mg/L
⌊	Fe	57	9007.965	-0.00	-0.0000	0.012	74124.959	mg/L

>	Sc	45	460154.190	460154.19	mg/L
	Cl	35	39107.656	-2315309.96	mg/L
	Kr	83	131.336	-8.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		107.105			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		101.525			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.343			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		110.168			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.026			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		107.105			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 16:48:26

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0552601 WG98121-02

Sample Date/Time: Friday, May 25, 2001 16:56:55
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24043.342	3675.86				ug/L
⌈	Be	9	0.000	-0.00	-85.7037	0.000	0.000	ug/L
|	Al	27	3225012.104	6.71	396925.4084	38022.755	9.579	ug/L
|>	Sc-1	45	479935.650	479935.65				ug/L
⌈	V	51	7455.056	0.01	529.0861	139.776	26.418	ug/L
|	Cr	52	22993.363	0.01	762.6443	131.380	17.227	ug/L
|	Cr	53	3000.770	-0.02	-14595.0274	1218.329	8.348	ug/L
|	Mn	55	6275.710	0.00	241.9441	25.568	10.568	ug/L
|	Co	59	533.888	0.00	31.5165	9.104	28.886	ug/L
|	Ni	60	600.631	0.00	166.2113	95.857	57.672	ug/L
|	Cu	65	266.940	0.00	48.9867	38.044	77.662	ug/L
|	Zn	66	1333.567	0.00	272.4932	650.800	238.832	ug/L
|>	Ge	72	1074122.196	1074122.20				ug/L
|	As	75	104.144	-0.00	-37.1838	14.425	38.794	ug/L
|	Se	77	156.668	-0.00	-1878.0313	40.049	2.132	ug/L
⌊	Se	82	115.459	-0.00	-48.8466	41.806	85.586	ug/L
	Y	89	858731.175	52947.28				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.571	0.00	13.8588	9.877	71.269	ug/L
|	Cd	114	58.735	0.00	4.5090	2.212	49.068	ug/L
|>	In	115	933076.636	933076.64				ug/L
⌊	Sb	123	397.786	0.00	28.2641	3.942	13.947	ug/L
⌈	Ba	135	1468.292	0.00	701.4439	196.509	28.015	ug/L
|	Ce	140	39779.860	0.05				ug/L
|>	Tb	159	725759.149	725759.15				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	170.670	132.34	12.9575	1.874	14.463	ug/L
|	Tl	205	410.683	326.35	13.2417	1.120	8.455	ug/L
|	Pb	206	5509.343	5449.34	618.9904	23.965	3.872	ug/L
|	Pb	207	4615.285	4541.94	606.5755	8.899	1.467	ug/L
|	Pb	208	21872.400	21589.05	614.5465	9.036	1.470	ug/L
|>	Bi	209	763798.647	763798.65				ug/L
⌈	Na	23	50849.473	0.07	5.1067	1.074	21.031	mg/L
|	Mg	24	38774.165	0.08	7.4610	1.627	21.800	mg/L
|	K	39	793549.519	0.01	0.4115	2.932	712.557	mg/L
|	Ca	43	8005.090	0.02	311.6255	140.218	44.996	mg/L
|	Fe	54	115289.848	0.14	56.9492	9.608	16.872	mg/L
|	Fe	57	27386.310	0.04	37.8126	7.836	20.724	mg/L

L> Sc	45	479935.650	479935.65		mg/L
Cl	35	41455.359	-2312962.25		mg/L
Kr	83	135.669	-3.67		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		111.710			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		104.321			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		104.307			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		101.438			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		102.553			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		111.710			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552601 WG98121-02
Report Date/Time: Friday, May 25, 2001 16:57:54

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82

Method 6020 - Summary Report

Sample ID: 0552601 DP WG98121-07

Sample Date/Time: Friday, May 25, 2001 17:02:35
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.216	-673.27				ug/L
⌈	Be	9	0.000	-0.00	-83.9896	0.000	0.000	ug/L
|	Al	27	3448588.441	6.49	375932.4809	14209.538	3.780	ug/L
|>	Sc-1	45	529972.203	529972.20				ug/L
⌈	V	51	7268.656	0.01	512.7133	102.050	19.904	ug/L
|	Cr	52	21319.804	0.01	644.5792	107.842	16.731	ug/L
|	Cr	53	3667.810	-0.02	-13804.9618	1453.923	10.532	ug/L
|	Mn	55	4773.043	0.00	168.3961	22.752	13.511	ug/L
|	Co	59	367.043	0.00	21.5029	3.253	15.126	ug/L
|	Ni	60	467.152	0.00	128.5106	69.008	53.698	ug/L
|	Cu	65	333.676	0.00	65.5320	38.366	58.546	ug/L
|	Zn	66	1000.117	0.00	130.9748	420.676	321.188	ug/L
|>	Ge	72	1059366.026	1059366.03				ug/L
|	As	75	126.737	-0.00	-27.8857	27.032	96.938	ug/L
|	Se	77	166.669	-0.00	-1786.6176	120.818	6.762	ug/L
⌊	Se	82	120.075	-0.00	-26.8368	94.587	352.452	ug/L
	Y	89	835549.278	29765.38				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-2.9398	4.841	164.678	ug/L
|	Cd	114	21.124	-0.00	-0.7281	0.438	60.107	ug/L
|>	In	115	924537.921	924537.92				ug/L
⌊	Sb	123	247.032	0.00	6.6483	0.403	6.055	ug/L
⌈	Ba	135	1201.305	0.00	548.9969	142.281	25.917	ug/L
|	Ce	140	22702.891	0.03				ug/L
|>	Tb	159	742046.149	742046.15				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	53.667	15.33	1.4713	0.363	24.691	ug/L
|	Tl	205	152.336	68.00	2.7040	0.571	21.124	ug/L
|	Pb	206	5209.091	5149.09	573.1871	37.720	6.581	ug/L
|	Pb	207	4151.622	4078.28	533.7602	13.673	2.562	ug/L
|	Pb	208	19628.524	19345.17	539.6597	9.087	1.684	ug/L
|>	Bi	209	759907.435	759907.43				ug/L
⌈	Na	23	37431.216	0.04	2.5987	0.284	10.921	mg/L
|	Mg	24	35090.802	0.06	5.9274	1.855	31.296	mg/L
|	K	39	820275.015	-0.09	-2.9970	4.817	160.720	mg/L
|	Ca	43	4001.167	0.01	138.4511	34.016	24.569	mg/L
|	Fe	54	113989.964	0.12	45.9496	11.287	24.565	mg/L
|	Fe	57	25379.902	0.03	28.0717	9.589	34.160	mg/L

>	Sc	45	529972.203	529972.20	mg/L
	Cl	35	43136.794	-2311280.82	mg/L
	Kr	83	124.002	-15.33	mg/L
	U	238	333.357	333.36	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		123.356			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		102.888			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		103.353			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		103.715			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		102.030			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		123.356			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552601 DP WG98121-07
Report Date/Time: Friday, May 25, 2001 17:03:34

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0552602 WG98121-01

Sample Date/Time: Friday, May 25, 2001 17:08:15
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19693.841	-673.65				ug/L
⌈	Be	9	0.000	-0.00	-85.7037	0.000	0.000	ug/L
|	Al	27	5436273.964	12.22	722626.8613	102419.935	14.173	ug/L
|>	Sc-1	45	448053.830	448053.83				ug/L
⌈	V	51	13667.638	0.01	940.6807	136.272	14.487	ug/L
|	Cr	52	24968.492	0.01	929.5311	12.357	1.329	ug/L
|	Cr	53	3667.717	-0.02	-14097.1845	1098.599	7.793	ug/L
|	Mn	55	6910.278	0.01	276.0815	40.559	14.691	ug/L
|	Co	59	1101.198	0.00	65.4547	29.620	45.253	ug/L
|	Ni	60	1268.053	0.00	354.0093	96.912	27.376	ug/L
|	Cu	65	567.258	0.00	124.9710	39.306	31.452	ug/L
|	Zn	66	666.713	-0.00	-8.7116	248.157	2848.581	ug/L
|>	Ge	72	1064805.993	1064805.99				ug/L
|	As	75	179.096	-0.00	-9.5020	26.600	279.943	ug/L
|	Se	77	164.669	-0.00	-1835.2822	90.044	4.906	ug/L
⌊	Se	82	129.206	0.00	1.7244	37.601	2180.552	ug/L
	Y	89	809438.226	3654.33				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	3304.069	0.00	269.8817	20.250	7.503	ug/L
|	Cd	114	30.396	0.00	0.5111	1.087	212.750	ug/L
|>	In	115	940534.625	940534.63				ug/L
⌊	Sb	123	132.143	-0.00	-10.3195	1.768	17.133	ug/L
⌈	Ba	135	1601.790	0.00	741.2254	232.881	31.418	ug/L
|	Ce	140	30732.843	0.04				ug/L
|>	Tb	159	753079.050	753079.05				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	45.667	7.33	0.7180	0.722	100.515	ug/L
|	Tl	205	96.002	11.67	0.4734	0.293	61.809	ug/L
|	Pb	206	6143.260	6083.25	690.9970	38.255	5.536	ug/L
|	Pb	207	4722.033	4648.69	620.8316	18.711	3.014	ug/L
|	Pb	208	23817.823	23534.47	669.9243	8.687	1.297	ug/L
|>	Bi	209	758108.413	758108.41				ug/L
⌈	Na	23	106454.660	0.21	14.3584	1.372	9.555	mg/L
|	Mg	24	67990.805	0.15	14.5133	2.864	19.730	mg/L
|	K	39	827703.455	0.22	7.2624	7.897	108.743	mg/L
|	Ca	43	2333.823	0.01	93.8627	52.228	55.643	mg/L
|	Fe	54	158389.329	0.26	102.3528	14.358	14.028	mg/L
|	Fe	57	48498.846	0.09	88.1520	7.757	8.799	mg/L

> Sc	45	448053.830	448053.83		mg/L
Cl	35	35756.141	-2318661.47		mg/L
Kr	83	123.336	-16.00		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		104.289			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.416			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		105.141			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		105.257			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		101.789			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		104.289			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 WG98121-01
Report Date/Time: Friday, May 25, 2001 17:09:14

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Sb 123 Lower	Sb	123

Method 6020 - Summary Report

Sample ID: 0552602 S WG98121-05

Sample Date/Time: Friday, May 25, 2001 17:13:55
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.378	-5.11				ug/L
⌈	Be	9	3504.372	0.01	8391.4932	1964.144	23.406	ug/L
|	Al	27	6759355.852	14.72	870303.6192	129689.343	14.902	ug/L
|>	Sc-1	45	464443.937	464443.94				ug/L
⌈	V	51	178215.587	0.17	11768.6137	504.301	4.285	ug/L
|	Cr	52	161021.089	0.14	11441.3039	265.024	2.316	ug/L
|	Cr	53	18022.755	-0.01	-3837.0814	622.709	16.229	ug/L
|	Mn	55	227845.778	0.21	11206.5646	717.816	6.405	ug/L
|	Co	59	171880.174	0.16	10268.8956	112.774	1.098	ug/L
|	Ni	60	37770.653	0.04	10589.9638	259.230	2.448	ug/L
|	Cu	65	37166.876	0.03	9325.9391	149.421	1.602	ug/L
|	Zn	66	34420.104	0.03	14478.6380	3907.779	26.990	ug/L
|>	Ge	72	1060724.662	1060724.66				ug/L
|	As	75	24639.359	0.02	8937.5849	38.751	0.434	ug/L
|	Se	77	2048.294	0.00	6740.2262	174.642	2.591	ug/L
⌊	Se	82	2548.896	0.00	8372.0277	51.284	0.613	ug/L
	Y	89	887177.006	81393.11				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	125789.412	0.14	10637.0086	109.908	1.033	ug/L
|	Cd	114	68824.239	0.07	9740.8947	122.343	1.256	ug/L
|>	In	115	927114.283	927114.28				ug/L
⌊	Sb	123	26304.846	0.03	3803.8074	32.324	0.850	ug/L
⌈	Ba	135	21721.363	0.03	10719.5477	768.154	7.166	ug/L
|	Ce	140	50182.172	0.07				ug/L
⌊>	Tb	159	717321.226	717321.23				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	101388.906	101350.57	9923.5384	109.634	1.105	ug/L
|	Tl	205	254142.223	254057.89	10308.5243	183.573	1.781	ug/L
|	Pb	206	102672.933	102612.93	11655.8063	153.741	1.319	ug/L
|	Pb	207	79423.891	79350.55	10597.2448	276.127	2.606	ug/L
|	Pb	208	381801.663	381518.31	10860.1704	153.190	1.411	ug/L
⌊>	Bi	209	749306.631	749306.63				ug/L
⌈	Na	23	81474.849	0.15	10.3069	4.314	41.858	mg/L
|	Mg	24	84501.164	0.18	17.3048	1.494	8.636	mg/L
|	K	39	797994.444	0.11	3.4499	10.964	317.801	mg/L
|	Ca	43	3334.174	0.01	138.4418	58.861	42.517	mg/L
|	Fe	54	181594.109	0.29	115.1994	18.110	15.720	mg/L
|	Fe	57	53197.976	0.10	95.3538	14.805	15.527	mg/L

L>	Sc	45	464443.937	464443.94	mg/L
	Cl	35	31067.980	-2323349.63	mg/L
	Kr	83	139.336	0.00	mg/L
	U	238	1000.117	1000.12	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		108.104			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		103.020			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		103.641			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		100.259			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		100.607			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		108.104			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 S WG98121-05
Report Date/Time: Friday, May 25, 2001 17:14:54
Page 2

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53

Method 6020 - Summary Report

Sample ID: 0552602 SD WG98121-06

Sample Date/Time: Friday, May 25, 2001 17:19:35
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 50.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24712.349	4344.86				ug/L
⌈	Be	9	4138.690	0.01	9095.2908	1631.131	17.934	ug/L
|	Al	27	7828234.508	16.69	930053.0604	108288.166	11.643	ug/L
L>	Sc-1	45	472608.564	472608.56				ug/L
⌈	V	51	188009.485	0.18	11672.5546	565.946	4.849	ug/L
|	Cr	52	171093.974	0.15	11485.7845	138.876	1.209	ug/L
|	Cr	53	18024.535	-0.01	-3622.5973	4262.970	117.677	ug/L
|	Mn	55	232281.194	0.22	10746.3212	427.056	3.974	ug/L
|	Co	59	176773.123	0.17	9929.7023	572.437	5.765	ug/L
|	Ni	60	40857.354	0.04	10771.9003	438.748	4.073	ug/L
|	Cu	65	40622.498	0.04	9586.7177	465.436	4.855	ug/L
|	Zn	66	32415.440	0.03	12799.4746	5447.685	42.562	ug/L
| >	Ge	72	1063146.968	1063146.97				ug/L
|	As	75	25128.952	0.02	8570.7498	147.038	1.716	ug/L
|	Se	77	2103.643	0.00	6568.5566	170.208	2.591	ug/L
L	Se	82	2598.218	0.00	8029.9990	284.572	3.544	ug/L
	Y	89	862188.734	56404.84				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	128676.280	0.14	10387.3062	181.321	1.746	ug/L
|	Cd	114	68683.921	0.08	9279.3893	88.944	0.959	ug/L
| >	In	115	915278.605	915278.61				ug/L
L	Sb	123	9512.873	0.01	1295.3624	24.251	1.872	ug/L
⌈	Ba	135	23763.312	0.03	10310.6330	183.565	1.780	ug/L
|	Ce	140	58243.008	0.08				ug/L
L>	Tb	159	767168.205	767168.20				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	102737.539	102699.20	9475.4571	227.439	2.400	ug/L
|	Tl	205	258908.483	258824.15	9896.0377	218.908	2.212	ug/L
|	Pb	206	103806.143	103746.14	11104.6510	279.823	2.520	ug/L
|	Pb	207	78591.161	78517.82	9881.0704	76.776	0.777	ug/L
|	Pb	208	384362.423	384079.07	10302.3104	149.024	1.447	ug/L
L>	Bi	209	749167.691	749167.69				ug/L
⌈	Na	23	74392.334	0.13	8.2857	2.029	24.488	mg/L
|	Mg	24	100036.986	0.21	19.0368	2.421	12.717	mg/L
|	K	39	797136.299	0.07	1.9866	6.974	351.040	mg/L
|	Ca	43	2667.180	0.01	101.9219	31.647	31.051	mg/L
|	Fe	54	182256.935	0.29	109.3190	18.733	17.136	mg/L
|	Fe	57	55214.032	0.10	91.3601	9.556	10.460	mg/L

>	Sc	45	472608.564	472608.56	mg/L
	Cl	35	48163.143	-2306254.47	mg/L
	Kr	83	132.669	-6.67	mg/L
	U	238	2000.467	2000.47	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		110.004			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		103.255			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.318			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		107.226			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		100.588			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		110.004			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 SD WG98121-06
Report Date/Time: Friday, May 25, 2001 17:20:34

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53

Method 6020 - Summary Report

Sample ID: 0552603

Sample Date/Time: Friday, May 25, 2001 17:25:16
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20697.561	330.07				ug/L
⌈	Be	9	0.000	-0.00	-83.9896	0.000	0.000	ug/L
|	Al	27	6860424.608	14.50	840469.8772	26788.919	3.187	ug/L
⌊>	Sc-1	45	472848.614	472848.61				ug/L
⌈	V	51	13539.023	0.01	923.3542	205.991	22.309	ug/L
|	Cr	52	28518.794	0.01	1203.1511	144.832	12.038	ug/L
|	Cr	53	4334.944	-0.02	-13316.7606	1780.484	13.370	ug/L
|	Mn	55	9950.203	0.01	422.8677	7.876	1.863	ug/L
|	Co	59	1001.077	0.00	59.0442	20.396	34.543	ug/L
|	Ni	60	1067.820	0.00	295.5191	96.640	32.702	ug/L
|	Cu	65	300.308	0.00	57.5802	42.982	74.646	ug/L
|	Zn	66	3000.677	0.00	984.3419	425.230	43.199	ug/L
\>	Ge	72	1052638.662	1052638.66				ug/L
|	As	75	177.364	-0.00	-9.2800	27.699	298.484	ug/L
|	Se	77	166.669	-0.00	-1781.5073	88.797	4.984	ug/L
⌊	Se	82	116.597	-0.00	-36.1289	55.644	154.016	ug/L
	Y	89	836177.336	30393.44				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-2.9552	4.814	162.911	ug/L
|	Cd	114	57.407	0.00	4.4131	1.180	26.750	ug/L
\>	In	115	914333.483	914333.48				ug/L
⌊	Sb	123	313.738	0.00	16.7130	2.987	17.870	ug/L
⌈	Ba	135	2436.239	0.00	1138.5676	539.607	47.393	ug/L
|	Ce	140	70695.830	0.09				ug/L
⌊>	Tb	159	742810.649	742810.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	133.003	94.67	9.0839	1.777	19.564	ug/L
|	Tl	205	307.343	223.01	8.8677	0.907	10.229	ug/L
|	Pb	206	9814.390	9754.38	1085.8408	36.062	3.321	ug/L
|	Pb	207	8021.971	7948.63	1040.3066	5.909	0.568	ug/L
|	Pb	208	38633.810	38350.46	1069.8377	5.182	0.484	ug/L
⌊>	Bi	209	747048.187	747048.19				ug/L
⌈	Na	23	93615.539	0.17	11.2937	1.595	14.125	mg/L
|	Mg	24	88550.194	0.18	17.5120	3.091	17.652	mg/L
|	K	39	868945.648	0.20	6.3065	2.456	38.946	mg/L
|	Ca	43	3668.044	0.01	139.3177	114.121	81.914	mg/L
|	Fe	54	137535.565	0.19	75.5981	14.495	19.173	mg/L
|	Fe	57	39779.201	0.07	63.0688	12.407	19.672	mg/L

Sc	45	472848.614	472848.61		mg/L
Cl	35	37439.117	-2316978.49		mg/L
Kr	83	136.669	-2.67		mg/L
U	238	1333.520	1333.52		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		110.060			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.235			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.212			
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.821			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.304			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		110.060			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552603
Report Date/Time: Friday, May 25, 2001 17:26:15

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Ag 107 Lower	Ag	107

Method 6020 - Summary Report

Sample ID: 0552602 PS

Sample Date/Time: Friday, May 25, 2001 17:30:34
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 500.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29059.976	8692.49				ug/L
[	Be	9	21420.793	0.04	49220.0478	11472.339	23.308	ug/L
|	Al	27	6159068.699	12.75	754091.0759	70736.484	9.380	ug/L
L>	Sc-1	45	483544.954	483544.95				ug/L
[	V	51	895183.471	0.86	59731.2659	1292.796	2.164	ug/L
|	Cr	52	774576.485	0.73	59610.8298	459.272	0.770	ug/L
|	Cr	53	98003.064	0.07	54289.5014	5666.500	10.438	ug/L
|	Mn	55	1270302.692	1.21	63641.0888	1908.244	2.998	ug/L
|	Co	59	928481.533	0.89	56227.6756	1782.359	3.170	ug/L
|	Ni	60	205314.135	0.20	58329.0311	1801.102	3.088	ug/L
|	Cu	65	224029.122	0.21	57016.5127	4031.203	7.070	ug/L
|	Zn	66	125778.165	0.12	54451.7927	7132.223	13.098	ug/L
\>	Ge	72	1046753.960	1046753.96				ug/L
|	As	75	141261.282	0.13	52293.3067	827.895	1.583	ug/L
|	Se	77	11132.002	0.01	48765.5251	832.897	1.708	ug/L
L	Se	82	14153.433	0.01	49165.3209	777.222	1.581	ug/L
	Y	89	853494.588	47710.69				ug/L
[	Rh	103	133.469	0.00				ug/L
|	Ag	107	602131.118	0.67	52339.0454	879.615	1.681	ug/L
|	Cd	114	368991.646	0.41	53676.1964	522.007	0.973	ug/L
\>	In	115	902443.484	902443.48				ug/L
L	Sb	123	359881.827	0.40	53853.5645	838.029	1.556	ug/L
[	Ba	135	113611.326	0.15	53216.2448	985.978	1.853	ug/L
|	Ce	140	38441.001	0.05				ug/L
L>	Tb	159	755332.727	755332.73				ug/L
[	Ho	165	333.357	333.36				ug/L
|	Tl	203	545384.258	545345.92	53396.4546	662.967	1.242	ug/L
|	Tl	205	1379888.998	1379804.66	55986.2555	785.967	1.404	ug/L
|	Pb	206	502998.813	502938.81	57128.8382	1285.807	2.251	ug/L
|	Pb	207	400656.753	400583.41	53497.8080	595.845	1.114	ug/L
|	Pb	208	1913504.795	1913221.44	54461.1104	461.295	0.847	ug/L
L>	Bi	209	745702.279	745702.28				ug/L
[	Na	23	110897.520	0.20	13.7821	4.774	34.641	mg/L
|	Mg	24	79783.589	0.16	15.6320	2.658	17.006	mg/L
|	K	39	825807.588	0.07	2.4183	4.792	198.171	mg/L
|	Ca	43	2667.180	0.01	102.7179	18.476	17.987	mg/L
|	Fe	54	158049.127	0.23	91.6124	14.853	16.212	mg/L
|	Fe	57	44807.343	0.07	73.3436	13.249	18.064	mg/L

⌊> Sc	45	483544.954	483544.95		mg/L
Cl	35	29729.968	-2324687.64		mg/L
Kr	83	130.002	-9.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		112.550			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.663			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		100.883			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.572			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		100.123			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		112.550			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 PS
Report Date/Time: Friday, May 25, 2001 17:31:24

Method 6020 - Summary Report

Sample ID: 0552602 SDL

Sample Date/Time: Friday, May 25, 2001 17:35:43
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 2500.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 50

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24376.932	4009.45				ug/L
⌈	Be	9	0.000	-0.00	-428.5185	0.000	0.000	ug/L
|	Al	27	1286531.381	2.72	804518.6598	194473.806	24.173	ug/L
⌊>	Sc-1	45	480851.844	480851.84				ug/L
⌈	V	51	5232.119	0.01	1968.2357	351.614	17.864	ug/L
|	Cr	52	16301.692	0.00	1433.2379	673.888	47.019	ug/L
|	Cr	53	3334.407	-0.02	-71436.6807	9211.258	12.894	ug/L
|	Mn	55	2169.171	0.00	221.4835	84.833	38.302	ug/L
|	Co	59	400.412	0.00	121.5113	30.726	25.286	ug/L
|	Ni	60	667.372	0.00	952.5291	546.931	57.419	ug/L
|	Cu	65	300.312	0.00	298.6222	446.288	149.449	ug/L
|	Zn	66	2334.010	0.00	3627.4242	5535.644	152.605	ug/L
|>	Ge	72	1044467.603	1044467.60				ug/L
|	As	75	160.313	-0.00	-75.6919	141.208	186.556	ug/L
|	Se	77	144.668	-0.00	-9566.3631	251.218	2.626	ug/L
⌊	Se	82	122.561	-0.00	-63.2489	308.529	487.801	ug/L
	Y	89	833060.369	27276.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	834.217	0.00	336.5743	66.452	19.744	ug/L
|	Cd	114	35.755	0.00	7.5518	4.533	60.031	ug/L
|>	In	115	894164.759	894164.76				ug/L
⌊	Sb	123	726.942	0.00	402.5986	6.625	1.646	ug/L
⌈	Ba	135	233.573	0.00	490.9357	504.676	102.799	ug/L
|	Ce	140	8338.306	0.01				ug/L
⌊>	Tb	159	722848.998	722849.00				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	31.334	-7.00	-3.4270	3.739	109.109	ug/L
|	Tl	205	88.001	3.67	0.7439	1.935	260.165	ug/L
|	Pb	206	1980.473	1920.47	1090.7293	37.257	3.416	ug/L
|	Pb	207	1580.335	1506.99	1006.2935	159.055	15.806	ug/L
|	Pb	208	7560.635	7277.28	1035.7635	20.528	1.982	ug/L
⌊>	Bi	209	738611.956	738611.96				ug/L
⌈	Na	23	52863.735	0.08	27.8134	9.692	34.847	mg/L
|	Mg	24	20362.753	0.04	18.6738	2.382	12.753	mg/L
|	K	39	726143.545	-0.11	-18.1330	31.880	175.814	mg/L
|	Ca	43	1000.117	0.00	182.5277	169.364	92.788	mg/L
|	Fe	54	73591.238	0.06	115.1331	48.286	41.939	mg/L
|	Fe	57	19694.263	0.02	115.0079	57.120	49.666	mg/L

|> Sc	45	480851.844	480851.84		mg/L
Cl	35	26717.679	-2327699.93		mg/L
Kr	83	143.670	4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		111.923			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.441			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		99.958			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		101.031			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		99.171			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		111.923			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 SDL
Report Date/Time: Friday, May 25, 2001 17:36:33

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Tl 203 Lower	Tl	203
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: ICSA

Sample Date/Time: Friday, May 25, 2001 17:40:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15015.954	-5351.53				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	62527869.997	166.56	9653.8212	1079.864	11.186	ug/L
⌊>	Sc-1	45	378513.921	378513.92				ug/L
⌈	V	51	5743.752	0.01	0.4410	0.300	67.939	ug/L
|	Cr	52	18275.333	0.01	0.4915	0.199	40.509	ug/L
|	Cr	53	5669.118	-0.02	-12.1626	1.555	12.784	ug/L
|	Mn	55	6476.137	0.01	0.2688	0.052	19.396	ug/L
|	Co	59	1501.677	0.00	0.0938	0.041	43.270	ug/L
|	Ni	60	2235.926	0.00	0.6495	0.095	14.639	ug/L
|	Cu	65	1401.545	0.00	0.3479	0.089	25.446	ug/L
|	Zn	66	5669.211	0.00	2.2292	1.097	49.201	ug/L
\>	Ge	72	1000907.661	1000907.66				ug/L
|	As	75	163.074	-0.00	-0.0117	0.030	258.518	ug/L
|	Se	77	474.016	-0.00	-0.2910	0.160	55.021	ug/L
⌊	Se	82	125.293	0.00	0.0153	0.019	124.982	ug/L
	Y	89	736122.945	-69660.95				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	2427.070	0.00	0.3503	0.009	2.694	ug/L
\>	In	115	882306.084	882306.08				ug/L
⌊	Sb	123	1006.385	0.00	0.1223	0.001	1.050	ug/L
⌈	Ba	135	300.307	0.00	0.1336	0.052	38.558	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	696100.297	696100.30				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	94.668	56.33	0.0054	0.001	27.577	ug/L
|	Tl	205	217.339	133.00	0.0053	0.000	9.095	ug/L
|	Pb	206	1603.675	1543.67	0.1718	0.015	8.629	ug/L
|	Pb	207	1226.897	1153.56	0.1510	0.032	20.925	ug/L
|	Pb	208	6047.329	5763.98	0.1608	0.008	4.878	ug/L
⌊>	Bi	209	711978.708	711978.71				ug/L
⌈	Na	23	135496962.023	359.85	24.5461	2.880	11.734	mg/L
|	Mg	24	41241659.958	110.30	10.4616	1.733	16.567	mg/L
|	K	39	117734575.451	313.82	9.9678	1.885	18.915	mg/L
|	Ca	43	660889.099	1.76	32.2578	3.429	10.631	mg/L
|	Fe	54	22694664.426	60.48	23.4605	3.474	14.806	mg/L
|	Fe	57	9372933.923	24.83	23.9071	1.342	5.613	mg/L

|> Sc	45	378513.921	378513.92		mg/L
Cl	35	6006932.819	3652515.21		mg/L
Kr	83	158.670	19.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		88.103			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.210			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		98.632			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		97.293			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		95.595			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		88.103			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSA
Report Date/Time: Friday, May 25, 2001 17:41:43

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Friday, May 25, 2001 17:46:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.348	997.86				ug/L
[	Be	9	33.367	0.00	0.0060	0.156	2594.503	ug/L
|	Al	27	69780318.868	174.80	10131.5139	310.684	3.067	ug/L
L>	Sc-1	45	399185.225	399185.23				ug/L
[	V	51	285455.068	0.29	19.9700	0.581	2.908	ug/L
|	Cr	52	266027.489	0.26	20.8224	1.052	5.052	ug/L
|	Cr	53	37435.026	0.02	11.9253	6.522	54.692	ug/L
|	Mn	55	374690.335	0.38	19.5930	0.738	3.764	ug/L
|	Co	59	299723.905	0.31	18.9944	0.724	3.811	ug/L
|	Ni	60	66743.571	0.07	19.8515	0.624	3.146	ug/L
|	Cu	65	75640.349	0.08	20.1523	0.376	1.865	ug/L
|	Zn	66	22034.354	0.02	9.7570	1.372	14.058	ug/L
| >	Ge	72	980211.822	980211.82				ug/L
|	As	75	25706.921	0.03	9.8997	0.096	0.972	ug/L
|	Se	77	2505.774	0.00	9.5732	0.828	8.647	ug/L
L	Se	82	2787.693	0.00	9.7927	0.302	3.080	ug/L
	Y	89	760171.832	-45612.06				ug/L
[	Rh	103	33.367	0.00				ug/L
|	Ag	107	56243.406	0.06	4.9659	0.194	3.902	ug/L
|	Cd	114	68322.908	0.08	10.1031	0.194	1.924	ug/L
| >	In	115	869825.085	869825.08				ug/L
L	Sb	123	893.333	0.00	0.1073	0.003	3.079	ug/L
[	Ba	135	233.572	0.00	0.1013	0.086	84.954	ug/L
|	Ce	140	0.000	0.00				ug/L
L>	Tb	159	709509.943	709509.94				ug/L
[	Ho	165	0.000	0.00				ug/L
|	Tl	203	93.668	55.33	0.0053	0.000	5.217	ug/L
|	Tl	205	201.338	117.00	0.0047	0.000	10.687	ug/L
|	Pb	206	1323.589	1263.58	0.1407	0.015	10.332	ug/L
|	Pb	207	1150.208	1076.87	0.1409	0.012	8.861	ug/L
|	Pb	208	5253.032	4969.68	0.1386	0.003	2.485	ug/L
L>	Bi	209	703865.018	703865.02				ug/L
[	Na	23	137562989.398	344.65	23.5091	0.748	3.182	mg/L
|	Mg	24	45680224.259	114.40	10.8514	0.443	4.082	mg/L
|	K	39	125121842.930	311.64	9.8987	0.769	7.772	mg/L
|	Ca	43	652624.192	1.64	29.9700	2.453	8.185	mg/L
|	Fe	54	22511712.463	56.31	21.8410	0.860	3.936	mg/L
|	Fe	57	9646218.837	24.16	23.2583	1.969	8.468	mg/L

> Sc	45	399185.225	399185.23		mg/L
Cl	35	6398541.251	4044123.64		mg/L
Kr	83	163.003	23.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		92.914			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		95.200			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		97.237			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		99.167			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		94.506			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		92.914			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSAB
Report Date/Time: Friday, May 25, 2001 17:46:53

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Friday, May 25, 2001 17:51:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16687.694	-3679.79				ug/L
⌈	Be	9	18174.629	0.04	47.6422	4.051	8.503	ug/L
|	Al	27	368981.764	0.88	50.9167	2.017	3.962	ug/L
⌊>	Sc-1	45	412966.846	412966.85				ug/L
⌈	V	51	784518.928	0.77	52.5981	1.112	2.114	ug/L
|	Cr	52	701906.343	0.68	54.2065	2.695	4.971	ug/L
|	Cr	53	71024.852	0.05	35.2498	8.684	24.635	ug/L
|	Mn	55	1083070.952	1.06	54.4842	1.980	3.634	ug/L
|	Co	59	843446.507	0.83	51.2789	1.787	3.485	ug/L
|	Ni	60	176735.163	0.17	50.4482	1.541	3.054	ug/L
|	Cu	65	196665.700	0.19	50.3183	1.637	3.254	ug/L
|	Zn	66	126114.095	0.12	54.9387	7.242	13.182	ug/L
|>	Ge	72	1021237.140	1021237.14				ug/L
|	As	75	137147.816	0.13	50.9975	0.908	1.781	ug/L
|	Se	77	11561.351	0.01	51.0418	1.406	2.755	ug/L
⌊	Se	82	14922.659	0.01	52.1016	1.181	2.267	ug/L
	Y	89	801655.143	-4128.75				ug/L
⌈	Rh	103	100.102	0.00				ug/L
|	Ag	107	617603.121	0.69	53.4198	4.200	7.863	ug/L
|	Cd	114	364789.025	0.41	52.7624	1.172	2.222	ug/L
|>	In	115	889781.137	889781.14				ug/L
⌊	Sb	123	339959.963	0.38	50.5898	1.616	3.195	ug/L
⌈	Ba	135	102128.968	0.14	47.4067	6.417	13.535	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	751706.624	751706.62				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	512293.486	512255.15	49.1533	1.055	2.147	ug/L
|	Tl	205	1274306.213	1274221.88	50.6681	0.127	0.252	ug/L
|	Pb	206	475902.470	475842.46	52.9699	1.042	1.967	ug/L
|	Pb	207	362317.417	362244.08	47.4100	0.282	0.594	ug/L
|	Pb	208	1757988.619	1757705.27	49.0336	0.211	0.431	ug/L
⌊>	Bi	209	728947.853	728947.85				ug/L
⌈	Na	23	32023424.316	77.54	5.2893	0.086	1.622	mg/L
|	Mg	24	23186874.965	56.32	5.3417	0.419	7.837	mg/L
|	K	39	70179041.053	168.47	5.3510	0.388	7.255	mg/L
|	Ca	43	121045.583	0.30	5.4299	1.450	26.706	mg/L
|	Fe	54	4970382.691	12.00	4.6544	0.557	11.975	mg/L
|	Fe	57	2112418.520	5.12	4.9328	0.644	13.053	mg/L

⌊> Sc	45	412966.846	412966.85		mg/L
Cl	35	91247.977	-2263169.63		mg/L
Kr	83	140.336	1.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		96.122			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		99.185			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.468			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.065			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		97.873			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		96.122			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV
Report Date/Time: Friday, May 25, 2001 17:52:02

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Friday, May 25, 2001 17:56:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16353.778	-4013.71				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	6336.345	-0.00	-0.0570	0.380	666.853	ug/L
⌊>	Sc-1	45	456687.369	456687.37				ug/L
⌈	V	51	4764.029	0.01	0.3644	0.128	35.013	ug/L
|	Cr	52	13760.379	0.00	0.1127	0.067	59.851	ug/L
|	Cr	53	1333.520	-0.02	-15.4206	0.827	5.363	ug/L
|	Mn	55	433.781	-0.00	-0.0414	0.008	18.352	ug/L
|	Co	59	66.734	0.00	0.0041	0.004	86.719	ug/L
|	Ni	60	33.367	0.00	0.0093	0.016	173.205	ug/L
|	Cu	65	33.367	-0.00	-0.0081	0.015	191.024	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
| >	Ge	72	1018568.236	1018568.24				ug/L
|	As	75	82.541	-0.00	-0.0427	0.028	66.158	ug/L
|	Se	77	140.668	-0.00	-1.8750	0.100	5.345	ug/L
⌊	Se	82	113.263	-0.00	-0.0342	0.075	219.837	ug/L
	Y	89	776823.937	-28959.96				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	22.893	-0.00	-0.0004	0.001	140.614	ug/L
| >	In	115	894879.058	894879.06				ug/L
⌊	Sb	123	1026.897	0.00	0.1232	0.008	6.124	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	679629.965	679629.97				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	60.668	22.33	0.0021	0.001	24.661	ug/L
|	Tl	205	145.336	61.00	0.0024	0.000	11.859	ug/L
|	Pb	206	103.344	43.34	0.0048	0.001	13.324	ug/L
|	Pb	207	93.343	20.00	0.0026	0.008	288.675	ug/L
|	Pb	208	379.359	96.01	0.0027	0.001	44.907	ug/L
⌊>	Bi	209	734418.388	734418.39				ug/L
⌈	Na	23	14013.874	-0.00	-0.0001	0.001	722.528	mg/L
|	Mg	24	2333.730	0.00	0.0001	0.000	108.151	mg/L
|	K	39	731338.398	-0.01	-0.0003	0.010	3771.234	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	44757.379	0.00	0.0005	0.003	552.109	mg/L
|	Fe	57	9007.684	0.00	0.0007	0.014	1873.923	mg/L

L> Sc	45	456687.369	456687.37		mg/L
Cl	35	39780.190	-2314637.42		mg/L
Kr	83	136.669	-2.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

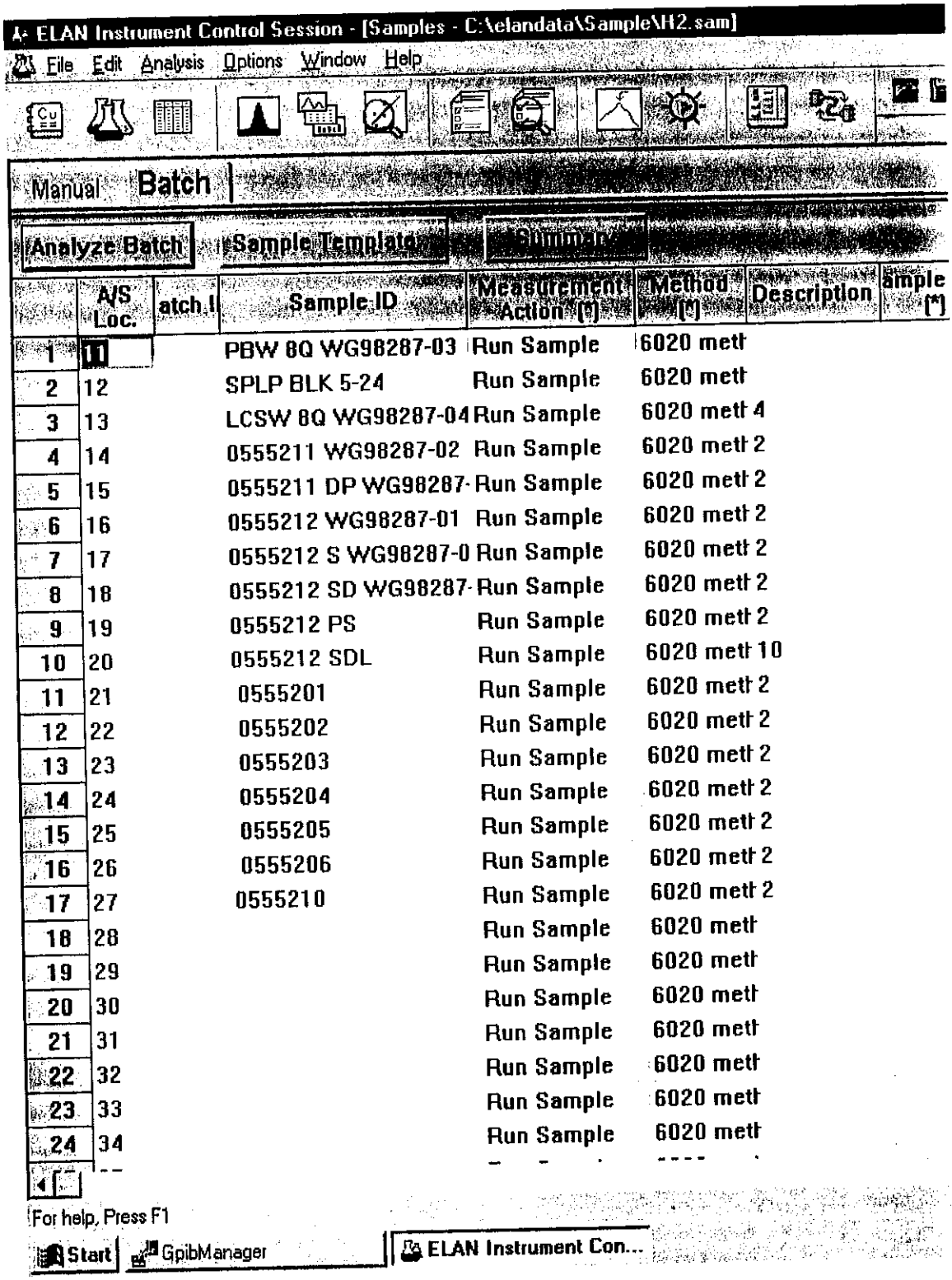
	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		106.299			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		98.926			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		100.037			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		94.991			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		98.608			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		106.299			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB
Report Date/Time: Friday, May 25, 2001 17:57:08
Page 2

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77


ELAN Instrument Control Session - [Samples - C:\elandata\Sample\H2.sam]
File Edit Analysis Options Window Help
Manual Batch
Analyze Batch
Sample Template
Summar
A/S Loc.
atch I
Sample ID
Measurement Action (*)
Method (*)
Description
ample (*)
1 11 PBW 8Q WG98287-03 Run Sample 6020 metl
2 12 SPLP BLK 5-24 Run Sample 6020 metl
3 13 LCSW 8Q WG98287-04 Run Sample 6020 metl 4
4 14 0555211 WG98287-02 Run Sample 6020 metl 2
5 15 0555211 DP WG98287- Run Sample 6020 metl 2
6 16 0555212 WG98287-01 Run Sample 6020 metl 2
7 17 0555212 S WG98287-0 Run Sample 6020 metl 2
8 18 0555212 SD WG98287- Run Sample 6020 metl 2
9 19 0555212 PS Run Sample 6020 metl 2
10 20 0555212 SDL Run Sample 6020 metl 10
11 21 0555201 Run Sample 6020 metl 2
12 22 0555202 Run Sample 6020 metl 2
13 23 0555203 Run Sample 6020 metl 2
14 24 0555204 Run Sample 6020 metl 2
15 25 0555205 Run Sample 6020 metl 2
16 26 0555206 Run Sample 6020 metl 2
17 27 0555210 Run Sample 6020 metl 2
18 28 Run Sample 6020 metl
19 29 Run Sample 6020 metl
20 30 Run Sample 6020 metl
21 31 Run Sample 6020 metl
22 32 Run Sample 6020 metl
23 33 Run Sample 6020 metl
24 34 Run Sample 6020 metl
For help, Press F1
Start
GpibManager
ELAN Instrument Con...

2.3.1.3 Preparation Log (s)

Metals Digestion Log

Analyst(s): SJK
Box: E
Digestion Work Group: WG97746
Date: 05-20-01 @ 09:15
Analytical Work Group: WG
LCS: 10mlOSS0031-67/100ml MS-1-5-16
MS/MSD: 10mlOSS0031-67/100ml MS-1-5-16
Witness: VC
HNO_3 Lot #: N-17
HCl Lot #: H-14
H_2O_2 Lot #: N/A
Earliest Sample Due Date: 05/23/01

General Digestion
ME401 Revision # 7 - Method 3005A-Water [X]
ME403 Revision # ____ - Method 3050B-Soil [ ]

Furnace Digestion
ME402 Revision # ____ - Method 3020A-Water [ ]
ME403 Revision # ____ - Method 3050B-Soil [ ]

AS/SE Digestion
ME410 Revision # ____ - Method 7060/7740-Water [ ]

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	PBLW	100ml	100ml	WG97746-03	
2	LCSW			-04	
3	05-349-01				5/25
4	-02				
5	-03				
6	-04				
7	-05				
8	-06				
9	-07				
10	-08				
11	-09				
12	-10				
13	-11				
14	-12				
15	-13				
16	05-404-11				5/25
17	05-413-01			NPDES	5/25
18	-03			"	"
19	05-426-01			NPDES	5/25
20	05-439-02			NPDES -01	5/25
21	-02MS			-05	
22	-02MSD			-06	
23	-03			-02	
24	-03DUP			-07	
25	-04				
26					
27			05-20-01 AK		
28					

Comments: _____

Peer Review By: Vicki Collins 5/20/01 Supervisor Review: [signature] 5/21/01

Metals Digestion Log

Analyst(s): HD
Date: 05-18-01 @ 15:25
LCS: 5mL 05500321-67/50mL 0.45-15-16
MS/MSD: 5mL 05500321-67/50mL 0.45-15-16
Witness: AK
HNO_3 Lot #: BN42/N-17
HCl Lot #: H-14
H_2O_2 Lot #: 00-05
Earliest Sample Due Date: 05/22/01

Box: BLL

Digestion Work Group: WG 97743
Analytical Work Group: WG

General Digestion
ME401 Revision # ____ - Method 3005A-Water
ME403 Revision # 7 - Method 3050B-Soil [X]

Furnace Digestion
ME402 Revision # ____ - Method 3020A-Water
ME403 Revision # ____ - Method 3050B-Soil

AS/SE Digestion
ME410 Revision # ____ - Method 7060/7740-Water

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	PBS		50mL	100 97743-03	
2	LCSS	1.00 g		-04	
3	05-404-01	1.06 g		L4 -02	5/25
4	-01MS	0.98 g		-07	
5	-03	1.07 g		-01	
6	-03MS	1.10 g		-05	
7	-04MSD	1.02 g		-06	
8	-05	0.94 g			
9	-06	"			
10	-07	"			
11	-08	"			
12	-09	1.01 g			
13	-10	1.10 g			
14	05-411-01	1.05 g		L4	5/23
15	05-406-06	0.98 g			5/29
16	05-349-01	1.04 g			5/29
17	-03	1.08 g			"
18	05-398-01	1.10 g			5/22
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

05/20/01

Comments: _____

Peer Review By: [illegible] 05-18-01 Supervisor Review: [illegible] 5/21/01

Microwave Digestion Log

Analyst(s): HD
Date: 05.21.01 @ 1720
LCS: 0.5mL MS 18.6
MS/MSD: 0.5mL MS 18.6
Witness: DJK
Earliest Sample Due Date: 05.22.01

Box: 6L
HNO_3 Lot #: N117
HCl Lot #: _____

Digestion Work Group: WG 97853
Analytical Work Group: WG _____

ME407 - Method 3015-Water
ME406 - Method 3051-Soil-Oil

5
~~4~~

HD 05.21.01

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBW	40mL	50mL	273.33g	273.30g	WG 97853 -03	
2	LCSW			262.63	262.61	-04	
3	SPLP BLK 052001			260.13	262.08		
4	05.433.04			261.02	261.01	level4 AFCEE	05.22.01
5	.05			264.97	264.91		
6	.06			270.72	270.64		
7	.07			265.98	263.94		
8	.08			262.40	262.33		
9	.09			264.36	264.30		
10	.10			260.39	260.33		
11	.11			260.23	260.11		
12	.12			263.74	263.71		
13	.13			259.84	259.81		
14	.14			258.15	258.11		
15	.15			271.31	271.27		
16	.16			264.54	264.46		
17	.17			263.67	263.63	-02	
18	.17 DUP			263.67	263.62	-02	
19	.18			263.43	263.37	-01	
20	.18MS			263.03	262.94	-05	
21	.18MSD			264.26	264.21	-06	
22	05.404.11			260.14	260.11	level4	05.25.01
23							
24							
25							
26							
27			HD 05.21.01				
28							
29							
30							

Comments: _____

Peer Review By: D.K 05.21.01 Supervisor Review: _____

Microwave Digestion Log

Digestion Work Group: WG 97747

Analyst(s): VC
Date: 5/20/01 10:15
LCS: 0.5mL MS 1-8-6
MS/MSD: 0.5mL MS 1-8-6
Witness: AK
Earliest Sample Due Date: 5/21/01

Box: LL
HNO_3 Lot #: N.17
HCl Lot #: —

Analytical Work Group: WG

ME407 - Method 3015-Water
ME406 - Method 3051-Soil-Oil

8	VC 5/20/01
4	

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBS		50mL	240.14gn	240.10gn		
2	LCSS	0.50gn		23340	23337		
3	05-292-01 #	0.48		23319	23315	W697747.02	5/21
4	01dup	0.50		23392	23388		
5	404-01 ##	0.51		23424	23421		5/25
6	02	0.48		23341	23339	W6 97747.01	
7	03 MS	0.49		23269	23269		
8	04 MSD	0.49		23218	23216		
9	05	0.50		23257	23255		
10	06	0.52		22982	22980		
11	07	0.52		23191	23185		
12	08	0.52		23389	23385		
13	09	0.51		23259	23255		
14	10 dup	0.44		23141	23136		
15							
16							
17							
18							
19		VC					
20		5/20/01					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Comments: # level 4 AFCCEE/level 4

Peer Review By: [signature] 05/21/01

Supervisor Review: [signature] 5/21/01

2.3.1.4 Sample Calculations

Example 6010 Calculations
Perkin Elmer Optima 3000 (PE-ICP)

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

The equation is in the form of $I = mC + b$,

Where:
I = Mean emission intensity at the element's measured wavelength.
C = Concentration of the element in mg/L
m = Slope of the ICAL curve computed by system
b = Intercept of the ICAL curve computed by system

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$C = [(I - b) / (m)]] [(Qs) / (Vp)] [D]$$

	Example:
Where:	
I = Mean adjusted intensity at the element's measured wavelength.	307088.8
b = Intercept of the ICAL curve computed by system	373.4
m = Slope of the ICAL curve computed by system	780569.9
Qs = Sample quantity digested (defaults to 1)_	1
Vp = Prep volume (defaults to 1)	1
D = Dilution factor as a multplier (10X = 10)	1
C = Concentration of element in ppm (mg/L):	**0.39293778**

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$C = [(I - b) / m]] [(Vp) / (Qs)] [D]$$

	Example:
Where:	
I = Mean emission intensity at the element's measured wavelength.	307088.8
b = Intercept of the ICAL curve computed by system	373.4
m = Slope of the ICAL curve computed by system	780569.9
Qs = Sample quantity digested (g)	2
Vp = Prep volume (mL)	100
D = Dilution factor as a multplier (10X = 10)	1
C = Concentration of element in ppm (mg/kg):	**19.6468888**

5.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		19.646889
Px = Percent solids of sample (%wt)		80
	C(mg/kg)	**24.5586113**

2101

Example 6010 Calculations
TJA - Iris

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data,	1
= Final volume/ initial volume	
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/L):	**0.1**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data,	50
= Final volume(mL)/ initial weight (g)	
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/kg):	**5**

4.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:		
Cx = Concentration calculated as received (wet basis):		125
Px = Percent solids of sample (%wt)		80
	C(mg/kg)	156.25

2102

Example 6020 Calculations
Perkin Elmer ELAN ICP/MS

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Vi)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Ws)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.3.3 Metals CVAA (Mercury) Data

METALS - CVAA (MERCURY) DATA
Login Number: L0105404

A. QC Summary

✓ Batch QC Summary Form

B. Raw Data

✓ Analyst checksheet
✓ Analysis run log
✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank data
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- Post digestion spike (if applicable)
- Serial dilution (as needed)
- Standard additions results (as needed)

C. Preparation Log(s)

D. Sample Calculations

Checked by: MMB Date: 05/30/01

2.3.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG97689
METHOD: 7470A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: Leeman PS 202

RUN DATE: 05/22/2001
PREP DATE: 05/21/2001
ANALYST: AMT
DUPLICATE: L0105297-01
MS/MSD L0105350-01

			CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.001020	ND	ND	ND	0.010000	0.010200	0.010300	102.0	80.0	120.0	102.0	103.0	75.0	125.0	NA	1.0	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG97966
METHOD: 7471A
MATRIX: Soil
UNITS: mg/kg
INSTRUMENT: Leeman PS 202

RUN DATE: 05/23/2001
PREP DATE: 05/21/2001
ANALYST: AMT
DUPLICATE L0105404-01
MS/MSD L0105404-02

			CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.1300	ND	0.1670	0.1800	ND	ND	ND	0.1670	0.1890	0.1860	107.8	80.0	120.0	113.2	111.4	75.0	125.0	NA	1.6	20.0

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

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2.3.3.2 Raw Data

Metals

Date: 05-22-01
Analyst: QMT
Method: 7470A
Instrument: PS200
Work Group: 97889

	Analyst	
Calibration/Linearity	✓	X
ICV/CCV	✓	X
ICB/CCB	✓	X
icsa/icsab/cri	NA	NA
Blank/LCS	✓	X
MS/MSD	✓	X
Postspike/Serial Dilution	✓	X
Duplicate	✓	X
Record Results	✓	X
Excel Spreadsheets	✓	X
Results Reporting / Data Qualifiers	✓	X
Calculations & Correct Factors	✓	X
Reanalysis Assign		NA
Instrument Failure/Reassign		NA
Case Narrative		NA
QA Approval - Seedpak 3		NA
Check for Completeness	✓	X
Level IV Data	05441	

05297 > 5/22 (P)
05350

05349 - 5/24
05404 - 5/25
05441 - 6/4

Primary Reviewer Initials & Date Checked QMT 5/22/01

Secondary Reviewer Initials & Date Checked [illegible] 5/22/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/22

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

2110

KEMRON ENVIRONMENTAL SERVICES
MERCURY RUN LOGBOOK

ANALYST AmT DATE 05-22-01 TIME 1103
METHOD # 7470A SOP # ME401 REV. # 4 WORK GROUP # 97889
CAL STD SOURCE DSS 0034-32
POST SPK SOURCE DSS 0034-32 (10ppb std)
ICV/CCV SOURCE DSS ~~33~~ AmT 5/22/01 0034-33

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S 0.0		ng/ml		27.				
	S 0.2				28.				
	S 1.0				29.				
	S 2.0				30.				
	S 5.0				31.				
	S 10.0				32.				
	ICV				33.				
	ICB			CCV/CCB	34.				
1.	PBW N			WG97804-03	35.				
2.	LCSW N			04	36.				
3.	TC BLK 5/18			WG97697@140	37.				
4.	TC05297-01	0.9	5/50	02	38.				
5.	01 SPK				39.				
6.	01 Dup			07	40.				
7.	05350-01			01	41.				
8.	01 MS			05	42.				
9.	01 MSD			06	43.				
10.	05441-01			CCV/CCB	44.				
11.	01 MS				45.				
12.	05404-11	0.9			46.				
13.	11 SPK				47.				
14.	05349-01		1/50		48.				
15.	01 MS				49.				
16.	02	0.9			50.				
17.	02 SPK				51.				
18.	02	0.5			52.				
19.	02 SPK			CCV/CCB	53.				
20.					54.				
21.					55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.				

AmT 05-22-01

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence

ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

2111

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 7470 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 22-May-01 Initial Calibration ID: _____

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Mercury	0.000	1277	0.200	20215	1.000	94866	2.000	184881	5.000	460494	10.000	899086	0.99994	

r = correlation coefficient

Comments:

_____

_____

_____

_____

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7470
ANALYST: AMT
DATE: 05/22/2001

UNITS: ug/L

ICV Time: 11:12 AM
CCV1 Time: 11:15 AM
CCV2 Time: 11:30 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.08	108.0	1.0	1.09	109.0	1.05	105.0	

(1) Control Limits: 80-120%

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KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7470
ANALYST: AMT
DATE: 05/22/2001

UNITS: ug/L

ICV Time: 11:12 AM
CCV1 Time: 11:49 AM
CCV2 Time:

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.08	108.0	1.0	1.01	101.0		######	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	05/22/2001
UNITS:	ug/L
ICB Time:	11:14 AM
CCB1 Time:	11:17 AM
CCB2 Time:	11:32 AM
CCB3 Time:	11:50 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.010	-.022	-.019	-0.34

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PS202
METHOD: 7470
ANALYST: amt
DATE: 5/22/2001

UNITS: ug/L

Spiked Sample Time: 11:35 AM
Sample Time: 11:33 AM

Sample ID: 0540411

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	85-115	0.997		0.052	U	1.0	99.7	

N = % Recovery exceeds control limits of 85-115%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PS202

Date: 8/16/2000

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Mercury	253.70	0.2	0.05200

Comments:

Hg .000 ppb 1277

*** Standard: 2 Rep: 1 Seq: 419 11:05:18 22 May 2001 HG

Hg .200 ppb 20215

*** Standard: 3 Rep: 1 Seq: 420 11:06:29 22 May 2001 HG

Hg 1.00 ppb 94866

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 1 Seq: 421 11:07:39 22 May 2001 HG

Hg 2.00 ppb 184881

*** Standard: 5 Rep: 1 Seq: 422 11:09:23 22 May 2001 HG

Hg 5.00 ppb 460494

*** Standard: 6 Rep: 1 Seq: 423 11:10:46 22 May 2001 HG

Hg 10.0 ppb 899086

```
RunProt: CLP2        Hg analysis in the ppb range
RunFold: 051701    Seq: 424  Batch:
                   Prnt: R/T On                          Pump: On
                   Rev: 4.2    11:11:13 22 May 2001 Xmit: Off Gas:      0.70 LPM
State: Idle                                             User: AMT PS202    A/S: On
```

CALIBRATION: Accepted Values protocol: CLP2

	Current	Accepted	Type	A	B	C	r
Hg	Yes	11:11 22-May-01	L		1.11116e-5	-3.38408e-2	.999930

```
Update coefficients
For help on <hotkey> press Shift <hotkey>
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  424     11:12:42 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     1.08    1.00   ppb         .000  %

*** Check Standard: 3  Ck3ICB        Seq:  425     11:14:29 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -5.15    -.010    .200   ppb         .000  %

*** Check Standard: 2  Ck2CCV        Seq:  426     11:15:57 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          109.     1.09    1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  427     11:17:16 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -10.9    -.022    .200   ppb         .000  %

*** Sample ID: PBW N                 Seq:  428     11:18:24 22 May 2001 HG
                             WG97804-03
Hg   -.008    ppb        .000  %  -.008

*** Sample ID: LCSW N                Seq:  429     11:19:32 22 May 2001 HG
                             WG97804-04
Hg    1.02    ppb        .000  %   1.02

*** Sample ID: TCBLK 5/18            Seq:  430     11:20:59 22 May 2001 HG
                             WG97697 @ 1400
Hg   -.013    ppb        .000  %  -.013

*** Sample ID: TC0529701             Seq:  431     11:22:18 22 May 2001 HG
 UNSPIKED                    WG97804-02 0.9       Wgt 5.0000 Vol 55.500
Hg   -.229    ppb        .000  %  -.229

*** Sample ID: 0529701PS             Seq:  432     11:23:37 22 May 2001 HG
 SPIKED                                          Wgt 5.0000 Vol 50.000
Hg    10.0    ppb        .000  %   10.0

*** %Rec.  ID: 0529701PS             Seq:  433     11:23:37 22 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb          102.    -.021    .000      1.00    .000

*** Sample ID: 0529701DP             Seq:  434     11:24:45 22 May 2001 HG
                             WG97804-07           Wgt 5.0000 Vol 50.000
Hg   -.256    ppb        .000  %  -.256

*** Sample ID: TC0535001             Seq:  435     11:25:55 22 May 2001 HG
 UNSPIKED                    WG97804-01           Wgt 5.0000 Vol 50.000
Hg   -.256    ppb        .000  %  -.256
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Sample ID: TC0535001S              Seq:  436    11:27:02 22 May 2001 HG
 SPIKED                        WG97804-05          Wgt 5.0000 Vol 50.000
Hg    10.2    ppb        .000  %   10.2

*** %Rec.  ID: TC0535001S              Seq:  437    11:27:02 22 May 2001 HG
                           Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb          105.    -.026    .000      1.02    .000

*** DUP  ID: 0535001SD  TC0535001S   Seq:  438    11:28:19 22 May 2001 HG
      RPD                  Orig.     Dup.
Hg    .513    %            10.2      10.3

*** Sample ID: 0535001SD               Seq:  439    11:28:19 22 May 2001 HG
 DUP                           WG97804-06          Wgt 5.0000 Vol 50.000
Hg    10.3    ppb        .000  %   10.3

*** Sample ID: 0544101                 Seq:  440    11:29:46 22 May 2001 HG
 UNSPIKED                                          Wgt 5.0000 Vol 50.000
Hg    2.27    ppb        .000  %   2.27

*** Check Standard: 2  Ck2CCV          Seq:  441    11:30:54 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     1.05    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB          Seq:  442    11:32:34 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -9.36    -.019    .200   ppb        .000  %

*** Sample ID: 0544101S                Seq:  443    11:33:57 22 May 2001 HG
 SPIKED                                            Wgt 5.0000 Vol 50.000
Hg    12.6    ppb        .000  %   12.6

*** %Rec.  ID: 0544101S                Seq:  444    11:33:57 22 May 2001 HG
                           Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb          104.      .227    .000      1.26    .000

*** Sample ID: 0540411                 Seq:  445    11:35:05 22 May 2001 HG
 UNSPIKED                    0.9                   Wgt 1.0000 Vol 1.1100
Hg   -.040    ppb        .000  %  -.040

*** Sample ID: 0540411PS               Seq:  446    11:36:13 22 May 2001 HG
 SPIKED
Hg    .997    ppb        .000  %   .997
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** %Rec.  ID: 0540411PS              Seq:  447    11:36:13 22 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         103.    -.036    .000      .997    .000

*** Sample ID: 0534901               Seq:  448    11:37:20 22 May 2001 HG
 UNSPIKED                                      Wgt 1.0000 Vol 50.000
Hg    1.38    ppb        .000  %   1.38

*** Sample ID: 0534901S              Seq:  449    11:38:38 22 May 2001 HG
 SPIKED                                        Wgt 1.0000 Vol 50.000
Hg    53.9    ppb        .000  %   53.9

*** %Rec.  ID: 0534901S              Seq:  450    11:38:38 22 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         105.     .028    .000      1.08    .000

*** Sample ID: 0534902               Seq:  451    11:40:07 22 May 2001 HG
 UNSPIKED                  0.9                 Wgt 1.0000 Vol 55.500
Hg    93.7    ppb        .000  %   93.7

*** Sample ID: 0534902PS             Seq:  452    11:41:15 22 May 2001 HG
 SPIKED                                        Wgt 1.0000 Vol 50.000
Hg    120.    ppb        .000  %   120.

*** %Rec.  ID: 0534902PS             Seq:  453    11:41:15 22 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  L ppb         71.5     1.69    .000      2.40    .000

*** Sample ID: 0534902               Seq:  454    11:46:38 22 May 2001 HG
 UNSPIKED                  0.5                 Wgt 1.0000 Vol 100.00
Hg    90.9    ppb        .000  %   90.9

*** Sample ID: 0534902PS             Seq:  455    11:47:56 22 May 2001 HG
 SPIKED                                        Wgt 1.0000 Vol 50.000
Hg    95.2    ppb        .000  %   95.2

*** %Rec.  ID: 0534902PS             Seq:  456    11:47:56 22 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         99.6     .909    .000      1.90    .000

*** Check Standard: 2  Ck2CCV        Seq:  457    11:49:38 22 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.    1.01    1.00   ppb        .000  %
```

D. Spk
Dil 1/2

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCB Seq: 458 11:50:53 22 May 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		-16.9	-.034	.200	ppb	.000	%

Metals

Date: 05-23-01
Analyst: AmT
Method: 7471A
Instrument: PS202
Work Group: 97966, 97967, 97969

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	NA
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	✓
Calculations & Correct Factors	✓
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	✓
QA Approval - Seedpak 3	
Check for Completeness	✓
Level IV Data	05404
	05380
	05382

05380 - 5/24 (P)
05404 - 5/25 (P)
05397 - 5/29

05446 7 5/31
05382

Primary Reviewer Initials & Date Checked AmT 05/23/01

Secondary Reviewer Initials & Date Checked _____

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

2125

KEMRON ENVIRONMENTAL SERVICES
MERCURY RUN LOGBOOK

ANALYST Amt DATE 05-23-01 TIME 0934
METHOD # 7471A SOP # ME405 REV. # 2 WORK GROUP # 97967, 97966, 9796
CAL STD SOURCE DSS 0034-34 ICV/CCV SOURCE DSS 0034-33
POST SPK SOURCE DSS 0034-34 (10ppbStd)

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S 0.0		g/mL		27.	PBS A			WG97835-03
	S 0.2				28.	LCSS A		.6/100	04
	S 1.0				29.	05380-01	0.9	.67/100	
	S 2.0				30.	01 SPK		.67/100	CCV/CCB
	S 5.0				31.	01 SDL	0.2	.67/100	
	S 10.0				32.	02		.7/100	
	ICV				33.	03		.63/100	
	ICB			CCV/CCB	34.	04		.67/100	
1.	PBS SL			WG97854-03	35.	05		.71/100	
2.	LCSS SL		.6/100	04	36.	05380-01		.6/100	01
3.	05446-01			01	37.	Amt 01 MS			05
4.	01 MS			05	38.	05/23/01 01 MSD			06
5.	01 MSD			06	39.	02			02
6.	02			02	40.	02 Dup			CCV/CCB 07
7.	02 Dup			07	41.	03	0.9		
8.	03	0.9			42.	03 SPK			
9.	03 SPK		↓		43.	04			
10.	PBS Q		CCV/CCB	WG97836-03	44.	05			
11.	LCSS Q		.6/100	04	45.	06		↓	
12.	05397-01	0.9			46.	05446-01 MS		.6/100	R
13.	01 SPK				47.	02 Dup		↓	R CCV/CCB
14.	02				48.				
15.	05404-01			02	49.				
16.	01 Dup			07	50.				
17.	02			01	51.				
18.	03 MS			05	52.				
19.	04 MSD			06	53.				
20.	05	0.9		CCV/CCB	54.				
21.	05 SPK				55.				
22.	06				56.				
23.	07				57.				
24.	08				58.	Amt 05/23/01			
25.	09				59.				
26.	10		↓		60.				

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence

ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

2126

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 7471 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 23-May-01 Initial Calibration ID: _____

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Mercury	0.000	402	0.200	19057	1.000	94005	2.000	182614	5.000	452025	10.000	889219	0.99996	

r = correlation coefficient

Comments:

_____

_____

_____

_____

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

2127

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7471
ANALYST: AMT
DATE: 05/23/2001

UNITS: ug/L

ICV Time: 9:44 AM
CCV1 Time: 9:50 AM
CCV2 Time: 10:06 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.03	103.0	1.0	1.05	105.0	1.06	106.0	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7471
ANALYST: AMT
DATE: 05/23/2001

UNITS: ug/L

ICV Time: 9:44 AM
CCV1 Time: 10:21 AM
CCV2 Time: 10:38 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.03	103.0	1.0	1.07	107.0	1.07	107.0	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PS202
METHOD: 7471
ANALYST: AMT
DATE: 05/23/2001

UNITS: ug/L

ICV Time: 9:44 AM
CCV1 Time: 10:54 AM
CCV2 Time: 11:16 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
					CCV1		CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.03	103.0	1.0	1.06	106.0	1.01	101.0	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/23/2001
UNITS:	ug/L
ICB Time:	9:46 AM
CCB1 Time:	9:51 AM
CCB2 Time:	10:07 AM
CCB3 Time:	10:23 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.031	-.041	-.037	-.031

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/23/2001
UNITS:	ug/L
ICB Time:	9:46 AM
CCB1 Time:	10:39 AM
CCB2 Time:	10:55 AM
CCB3 Time:	11:18 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.031	-.031	-.055	-.034

2132

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PS202
METHOD: 7470
ANALYST: amt
DATE: 5/23/2001

UNITS: ug/L

Spiked Sample Time: 10:24 AM
Sample Time: 10:20 AM

Sample ID: 0540405

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	85-115	1.10		0.052	U	1.0	110.0	

N = % Recovery exceeds control limits of 85-115%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PS202

Date: 8/1/2000

Units: mg/kg

Analyte	Wave-length /Mass	CRQL	MDL
Mercury	253.70	0.1	0.01773

Comments:

Hg .000 ppb 402

*** Standard: 2 Rep: 1 Seq: 460 09:36:04 23 May 2001 HG

Hg .200 ppb 19057

*** Standard: 3 Rep: 1 Seq: 461 09:37:16 23 May 2001 HG

Hg 1.00 ppb 94005

*** Standard: 4 Rep: 1 Seq: 462 09:38:27 23 May 2001 HG

Hg 2.00 ppb 182614

*** Standard: 5 Rep: 1 Seq: 463 09:40:28 23 May 2001 HG

Hg 5.00 ppb 452025

*** Standard: 6 Rep: 1 Seq: 464 09:41:41 23 May 2001 HG

Hg 10.0 ppb 889219

Andrea Jarbe
DSS 0034-34
Box 5L, Q, A
WA 97967
97966
97969

```
RunProt: CLP2        Hg analysis in the ppb range
RunFold: 051701    Seq: 465  Batch:
                   Prnt: R/T On                          Pump: On
                   Rev: 4.2    09:43:19 23 May 2001 Xmit: Off Gas:      0.70 LPM
State: Idle                                             User: AMT PS202    A/S: On
```

CALIBRATION: Accepted Values protocol: CLP2

	Current	Accepted	Type	A	B	C	r
Hg	Yes	09:43 23-May-01	L		1.12446e-5	-2.92482e-2	.999965

```
Update coefficients
For help on <hotkey> press Shift <hotkey>
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  465     09:44:37 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg           103.     1.03    1.00   ppb         .000  %

*** Check Standard: 3  Ck3ICB        Seq:  466     09:46:20 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg          -15.5    -.031    .200   ppb         .000  %

*** Check Standard: 2  Ck2CCV        Seq:  467     09:50:38 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg           105.     1.05    1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  468     09:51:51 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg          -20.3    -.041    .200   ppb         .000  %

*** Sample ID: PBS 5L                Seq:  469     09:53:03 23 May 2001 HG
                              WG97854-03
Hg   -.026    ppb        .000  %  -.026

*** Sample ID: LCSS 5L               Seq:  470     09:54:42 23 May 2001 HG
                              WG97854-04            Wgt .60000 Vol 100.00
Hg    180.    ppb        .000  %   180.

*** Sample ID: 0544601               Seq:  471     09:55:59 23 May 2001 HG
 UNSPIKED                     WG97854-01            Wgt .60000 Vol 100.00
Hg    319.    ppb        .000  %   319.

*** Sample ID: 0544601S              Seq:  472     09:57:28 23 May 2001 HG
 SPIKED                       WG97854-05            Wgt .60000 Vol 100.00
Hg    416.    ppb        .000  %   416.

*** %Rec.  ID: 0544601S              Seq:  473     09:57:28 23 May 2001 HG
                            Spikes =1  Unspiked =1
      Spike                  %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  L ppb            58.2     1.91    .000      2.50    .000

*** DUP  ID: 0544601SD  0544601S     Seq:  474     09:58:35 23 May 2001 HG
      RPD                   Orig.     Dup.
Hg    22.8    %             416.     523.

*** Sample ID: 0544601SD             Seq:  475     09:58:35 23 May 2001 HG
 DUP                          WG97854-06            Wgt .60000 Vol 100.00
Hg    523.    ppb        .000  %   523.

*** Sample ID: 0544602               Seq:  476     09:59:50 23 May 2001 HG
                              WG97854-02            Wgt .60000 Vol 100.00
Hg    214.    ppb        .000  %   214.
```

RR

2137

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** DUP  ID: 0544602DP  0544602      Seq:  477    10:01:18 23 May 2001 HG
      RPD                Orig.      Dup.
Hg    27.0    %          214.      281.

*** Sample ID: 0544602DP             Seq:  478    10:01:18 23 May 2001 HG
 DUP                        WG97854-07          Wgt .60000 Vol 100.00
Hg    281.    ppb        .000  %   281.

*** Sample ID: 0544603               Seq:  479    10:02:44 23 May 2001 HG
 UNSPIKED                    0.9                 Wgt .60000 Vol 111.00
Hg    279.    ppb        .000  %   279.

*** Sample ID: 0544603PS             Seq:  480    10:04:05 23 May 2001 HG
 SPIKED                                         Wgt .60000 Vol 100.00
Hg    420.    ppb        .000  %   420.

*** %Rec.  ID: 0544603PS             Seq:  481    10:04:05 23 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         101.     1.51    .000      2.52    .000

*** Sample ID: PBS Q                 Seq:  482    10:05:12 23 May 2001 HG
                           WG97836-03
Hg   -.063    ppb        .000  %  -.063

*** Check Standard: 2  Ck2CCV        Seq:  483     10:06:19 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     1.06    1.00  ppb        .000  %

*** Check Standard: 3  Ck3CCB        Seq:  484     10:07:38 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -18.7    -.037    .200  ppb        .000  %

*** Sample ID: LCSS Q                Seq:  485    10:08:46 23 May 2001 HG
                           WG97836-04          Wgt .60000 Vol 100.00
Hg    180.    ppb        .000  %   180.

*** Sample ID: 0539701               Seq:  486    10:10:06 23 May 2001 HG
 UNSPIKED                    0.9                 Wgt .60000 Vol 111.00
Hg   -4.23    ppb        .000  %  -4.23

*** Sample ID: 0539701PS             Seq:  487    10:11:13 23 May 2001 HG
 SPIKED                                         Wgt .60000 Vol 100.00
Hg    180.    ppb        .000  %   180.
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** %Rec.  ID: 0539701PS                Seq:  488    10:11:13 23 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb          110.    -.023    .000      1.08    .000

*** Sample ID: 0539702 03 9mr 05-23-01  Seq:  489    10:12:30 23 May 2001 HG
                                                  Wgt .60000 Vol 100.00
Hg    444.     ppb         .000  %    444.

*** Sample ID: 0540401                  Seq:  490    10:13:46 23 May 2001 HG
                            WG97836-02            Wgt .60000 Vol 100.00
Hg    6.69     ppb         .000  %    6.69

*** DUP  ID: 0540401DP  0540401         Seq:  491    10:15:07 23 May 2001 HG
      RPD                  Orig.      Dup.
Hg    55.8     %            6.69      11.9

*** Sample ID: 0540401DP                Seq:  492    10:15:07 23 May 2001 HG
 DUP                        WG97836-07            Wgt .60000 Vol 100.00
Hg    11.9     ppb         .000  %    11.9

*** Sample ID: 0540402                  Seq:  493    10:16:34 23 May 2001 HG
 UNSPIKED                   WG97836-01            Wgt .60000 Vol 100.00
Hg    9.47     ppb         .000  %    9.47

*** Sample ID: 0540403S                 Seq:  494    10:17:53 23 May 2001 HG
 SPIKED                     WG97836-05            Wgt .60000 Vol 100.00
Hg    189.     ppb         .000  %    189.

*** %Rec.  ID: 0540403S                 Seq:  495    10:17:53 23 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb          108.      .057    .000      1.14    .000

*** DUP  ID: 0540404SD  0540403S       Seq:  496    10:19:03 23 May 2001 HG
      RPD                  Orig.      Dup.
Hg    1.63     %            189.      186.

*** Sample ID: 0540404SD                Seq:  497    10:19:03 23 May 2001 HG
 DUP                        WG97836-06            Wgt .60000 Vol 100.00
Hg    186.     ppb         .000  %    186.

*** Sample ID: 0540405                  Seq:  498    10:20:41 23 May 2001 HG
 UNSPIKED                     0.9                 Wgt .60000 Vol 111.00
Hg    5.86     ppb         .000  %    5.86
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Check Standard: 2  Ck2CCV        Seq:  499     10:21:47 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.     1.07    1.00  ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  500     10:23:07 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -15.4    -.031    .200  ppb         .000  %

*** Sample ID: 0540405PS             Seq:  501     10:24:16 23 May 2001 HG
 SPIKED                                          Wgt .60000 Vol 100.00
Hg    183.    ppb        .000  %   183.

*** %Rec.  ID: 0540405PS             Seq:  502     10:24:16 23 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.     Avg(U)   SD(U)     Avg(S)    SD(S)
Hg    1.00    ppb          106.      .032    .000       1.10     .000

*** Sample ID: 0540406               Seq:  503     10:25:23 23 May 2001 HG
                                                 Wgt .60000 Vol 100.00
Hg    6.11    ppb        .000  %   6.11

*** Sample ID: 0540407               Seq:  504     10:26:40 23 May 2001 HG
                                                 Wgt .60000 Vol 100.00
Hg    15.2    ppb        .000  %   15.2

*** Sample ID: 0540408               Seq:  505     10:28:09 23 May 2001 HG
                                                 Wgt .60000 Vol 100.00
Hg    24.8    ppb        .000  %   24.8

*** Sample ID: 0540409               Seq:  506     10:29:45 23 May 2001 HG
                                                 Wgt .60000 Vol 100.00
Hg    22.1    ppb        .000  %   22.1

*** Sample ID: 0540410               Seq:  507     10:30:51 23 May 2001 HG
                                                 Wgt .60000 Vol 100.00
Hg   -3.01    ppb        .000  %  -3.01

*** Sample ID: PBS A                 Seq:  508     10:32:19 23 May 2001 HG
                          WG97835-03
Hg   -.059    ppb        .000  %  -.059

*** Sample ID: LCSS A                Seq:  509     10:33:56 23 May 2001 HG
                          WG97835-04             Wgt .60000 Vol 100.00
Hg    184.    ppb        .000  %   184.

*** Sample ID: 0538001               Seq:  510     10:35:12 23 May 2001 HG
 UNSPIKED                  0.9                   Wgt .67000 Vol 111.00
Hg    18.1    ppb        .000  %   18.1
```

```
Line   Conc.  Units      SD/RSD       1        2        3        4        5
-------------------------------------------------------------------------------

*** Sample ID: 0538001PS                Seq:  511    10:36:33 23 May 2001 HG
 SPIKED                                                Wgt .67000 Vol 100.00
Hg    165.    ppb         .000  %    165.

*** %Rec.  ID: 0538001PS                Seq:  512    10:36:33 23 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb          99.7      .109     .000      1.11     .000

*** Check Standard: 2  Ck2CCV           Seq:  513    10:38:00 23 May 2001 HG
Line  Flag  %Rcv.   Found     True  Units       SD/RSD
Hg           107.    1.07     1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB           Seq:  514    10:39:24 23 May 2001 HG
Line  Flag  %Rcv.   Found     True  Units       SD/RSD
Hg          -15.3   -.031     .200   ppb         .000  %

*** Sample ID: 0538001SDL               Seq:  515    10:40:36 23 May 2001 HG
                              0.2                    Wgt .67000 Vol 100.00
Hg   -.710    ppb         .000  %   -.710

*** Sample ID: 0538002                  Seq:  516    10:42:18 23 May 2001 HG
                                                     Wgt .70000 Vol 100.00
Hg   -4.03    ppb         .000  %   -4.03

*** Sample ID: 0538003                  Seq:  517    10:43:34 23 May 2001 HG
                                                     Wgt .63000 Vol 100.00
Hg    46.7    ppb         .000  %    46.7

*** Sample ID: 0538004                  Seq:  518    10:44:53 23 May 2001 HG
                                                     Wgt .67000 Vol 100.00
Hg    8.52    ppb         .000  %    8.52

*** Sample ID: 0538005                  Seq:  519    10:46:03 23 May 2001 HG
                                                     Wgt .71000 Vol 100.00
Hg    12.4    ppb         .000  %    12.4

*** Sample ID: 0538201                  Seq:  520    10:47:27 23 May 2001 HG
 UNSPIKED                  WG97835-01                Wgt .60000 Vol 100.00
Hg    9.00    ppb         .000  %    9.00

*** Sample ID: 0538201S                 Seq:  521    10:48:56 23 May 2001 HG
 SPIKED                    WG97835-05                Wgt .60000 Vol 100.00
Hg    186.    ppb         .000  %    186.
```

P Spk good

2141

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** %Rec.  ID: 0538201S                Seq:  522    10:48:56 23 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         106.     .054    .000      1.12     .000

*** DUP  ID: 0538201SD  0538201S     Seq:  523    10:50:14 23 May 2001 HG
      RPD                 Orig.     Dup.
Hg    .235    %           186.     187.

*** Sample ID: 0538201SD               Seq:  524    10:50:14 23 May 2001 HG
 DUP                        WG97835-06          Wgt .60000 Vol 100.00
Hg    187.    ppb        .000  %   187.

*** Sample ID: 0538202                 Seq:  525    10:51:22 23 May 2001 HG
                           WG97835-02          Wgt .60000 Vol 100.00
Hg    .551    ppb        .000  %   .551

*** DUP  ID: 0538202DP  0538202       Seq:  526    10:53:02 23 May 2001 HG
      RPD                 Orig.     Dup.
Hg    173.    %           .551     7.51

*** Sample ID: 0538202DP               Seq:  527    10:53:02 23 May 2001 HG
 DUP                        WG97835-07          Wgt .60000 Vol 100.00
Hg    7.51    ppb        .000  %   7.51

*** Check Standard: 2  Ck2CCV          Seq:  528    10:54:11 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     1.06    1.00  ppb         .000  %

*** Check Standard: 3  Ck3CCB          Seq:  529    10:55:20 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -27.4    -.055    .200  ppb         .000  %

*** Sample ID: 0538203                 Seq:  530    10:56:58 23 May 2001 HG
 UNSPIKED                   0.9                 Wgt .60000 Vol 111.00
Hg    2.94    ppb        .000  %   2.94

*** Sample ID: 0538203PS               Seq:  531    10:58:06 23 May 2001 HG
 SPIKED                                         Wgt .60000 Vol 100.00
Hg    183.    ppb        .000  %   183.

*** %Rec.  ID: 0538203PS               Seq:  532    10:58:06 23 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         108.     .016    .000      1.10     .000
```

2142

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Sample ID: 0538204                    Seq:  533    10:59:16 23 May 2001 HG
                                                   Wgt .60000 Vol 100.00
Hg    1.94    ppb       .000  %   1.94

*** Sample ID: 0538205                    Seq:  534    11:01:34 23 May 2001 HG
                                                   Wgt .60000 Vol 100.00
Hg    4.83    ppb       .000  %   4.83

*** Sample ID: 0538206                    Seq:  535    11:03:13 23 May 2001 HG
                                                   Wgt .60000 Vol 100.00
Hg    6.62    ppb       .000  %   6.62

*** Sample ID: 0544601S                   Seq:  536    11:07:33 23 May 2001 HG
                                                   Wgt .60000 Vol 100.00
Hg    535.    ppb       .000  %   535.

*** DUP  ID: 0544602DP  0544601S          Seq:  537    11:10:51 23 May 2001 HG
      RPD                Orig.     Dup.
Hg    56.2    %          535.      300.

*** Sample ID: 0544602DP                  Seq:  538    11:10:51 23 May 2001 HG
 DUP                        WG97854-07              Wgt .60000 Vol 100.00
Hg    300.    ppb       .000  %   300.

*** Check Standard: 2  Ck2CCV             Seq:  539    11:16:59 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     1.01    1.00  ppb         .000  %

*** Check Standard: 3  Ck3CCB             Seq:  540    11:18:15 23 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -17.2    -.034    .200  ppb         .000  %
```

RR
Data not used

2143

2.3.3.3 Preparation Log (s)

Analyst(s): VC Box: N Digestion Work Group: WG 97804

Date: 5/21/01 11:00 Analytical Work Group: WG

LCS: 0.5mL DS500 3430

MS/MSD: 0.5mL DS500 3430

Witness: Apk

H_2SO_4 Lot #: 505

K_2SO_4 Lot #: PS-41

$KMNO_4$ Lot #: PM-55

HNO_3 Lot #: N-17

Earliest Sample Due Date: 5/22/01

ICV / CCV: DS500 3433 Stds: 0, 0.2, 1, 2, 5, 10: DS500 3432

ME404 Revision # 4 - Method 7470A-Water ✓

ME405 Revision # ____ - Method 7471A-Soil

Bath Temperature @ start: 95.0 11:00

Bath Temperature @ end: 94.9 1:00

Pressure & Time: NA

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBW	50mL	50mL	-03	
2	LCSW	↓	↓	-04	
3	TBLK 5/18	↓	↓	TBW 97697 14:00	
4	TBS 29701	5-	↓	WG 97804-02	5/22
5	↓ 01 dup	↓	↓	-07	
6	↓ 350-01	↓	↓	WG 97804-01	5/22
7	↓ 01 MS	↓	↓	-05	
8	↓ 01 MSD	↓	↓	-06	
9	h2o 441-01 *	↓	↓		6/4
10	↓ 01 MS	↓	↓		
11	↓ 404-11	50	↓		5/25
12	W 349 01	1gr	↓		5/24
13	↓ 01 MS	↓	↓		
14	↓ 02	↓	↓		
15					
16					
17					
18		VC 5/21/01			
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

Comments: * level 4

Peer Review By: [signature] 05-21-01 Supervisor Review: [signature] 5/22/01

2145

Analyst(s): STK
Date: 05-21-01 @ 12:58
LCS: 1W DSSC034-30
MS/MSD: 1W DSSC034-30
Witness: VC
H_2SO_4 Lot #: 5-05
K_2SO_4 Lot #: N/A
$KMNO_4$ Lot #: DM-55
HNO_3 Lot #: N-17
Earliest Sample Due Date: 05-25-01
ICV / CCV: DSSC034-35 Stds: 0, 0.2, 1, 2, 5, 10: DSSC034-34

Box: 6

Digestion Work Group: WG 97836

Analytical Work Group: WG

ME404 Revision # ____ - Method 7470A-Water
ME405 Revision # 2 - Method 7471A-Soil [X]

Bath Temperature @ start: N/A
Bath Temperature @ end: N/A
Pressure & Time: 15psi for 15min

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBS		100mL	WG97836-03	
2	LCSS	0.6g		-01	
3	05-397-01				5/29
4	-02				1
5	05-404-01			L4 AFO5210ISTK -02	5/25
6	-01DUP			-07	
7	-02			-01	
8	-03MS			-05	
9	-04MSD			-06	
10	-05				
11	-06				
12	-07				
13	-08				
14	-09				
15	-10				
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

05-21-01 jk

Comments: _____

Peer Review By: Vicki Collins 5/21/01 Supervisor Review: _____

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2.3.3.4 Sample Calculations

Example Cold Vapor Mercury Calculations
Leeman PS202 Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and five standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Vi)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Ws)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.4 General Chemistry Data

PERCENT SOLIDS DATA

Login Number: L0105404

✓ **Analysis benchsheet**

✓ **Calculation spreadsheet**

Example calculation:

[(WT3 - WT1)/(WT2 - WT1)] * 100 = % solids

100 - (% solids) = % moisture

where: WT1 = Weight (grams) of empty container
WT2 = Weight (grams) of container and wet sample
WT3 = Weight (grams) of container and dry sample
100 = factor to get units as percent weight

Checked By: dlh Date: 5/23/01

2150

PERCENT SOLIDS

Workgroup: 97807 Approval: dlh 5/22/01
ADT (on): tmm 5/21/01 C-940 ADT (off): tmm 5/22/01 @820

Sample	Empty Pan WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C
05-314-01	1.31	27.42	23.19		
02	1.29	27.19	22.46		
03	1.27	25.20	21.50		
04	1.30	21.50	18.39		
05	1.30	26.41	21.27		
06	1.27	25.74	21.02		
07	1.27	21.60	18.07		
08	1.29	25.03	20.47		
09	1.30	29.47	24.78		
05-410-01	1.31	27.48	24.27		
02	1.27	24.83	22.21		
03	1.29	24.06	20.06		
05-409-01	1.30	30.79	25.00		
02	1.31	25.57	22.28		
03	1.30	25.95	22.92		
04	1.27	31.85	27.73		
05	1.29	34.04	26.25		
06	1.31	53.18	45.79		
05-435-01	1.30	24.42	20.42		
02	1.31	30.73	27.81		
Duplicate 05-314-09	1.29	24.49	20.53		

Workgroup: 97808 Approval: dlh 5/22/01
ADT (on): tmm 5/21/01 @ 1110 ADT (off): tmm 5/22/01 @830

Sample	Empty Pan WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C
05-202-01	1.28	35.68	33.67		
02	1.27	28.08	26.28		
03	1.28	20.25	18.13		
04	1.28	26.39	24.12		
05	1.29	26.27	23.27		
06	1.28	26.74	22.83		
07	1.30	24.01	20.58		
08	1.27	32.20	30.70		
05-404-01	1.27	38.15	29.30		
02-03-04	1.29	36.12	28.72		
05	1.28	34.24	26.25		
06	1.27	26.46	21.93		
07	1.30	36.28	29.83		
08	1.30	37.17	29.19		
09	1.32	31.57	25.90		
10	1.31	39.75	32.95		
05-387-01	1.28	29.94	29.63		
02	1.29	41.06	40.63		
03	1.32	31.01	30.45		
04	1.31	29.53	29.06		
Duplicate 05-404-09	1.33	23.51	19.42		

KEMRON Environmental Services

TEST CODE: PCT_S NAME: PERCENT SOLIDS

METHOD: ASTM

UNITS: % ADT: TMM/05/21/01/111

SamN	WT1	WT2	WT3	Level	Results	Units
05-202-01	1.28	35.68	33.67	94.157	94	%
02	1.27	28.08	26.28	93.286	93	%
03	1.28	20.25	18.13	88.824	89	%
04	1.28	26.39	24.12	90.96	91	%
05	1.29	26.27	23.27	87.99	88	%
06	1.28	26.74	22.83	84.643	85	%
07	1.3	24.01	20.58	84.897	85	%
08	1.27	32.2	30.7	95.15	95	%
05-404-01	1.27	38.15	29.3	76.003	76	%
02-03-04	1.29	36.12	28.72	78.754	79	%
05	1.28	34.24	28.25	81.826	82	%
06	1.27	26.46	21.93	82.017	82	%
07	1.3	36.28	29.83	81.561	82	%
08	1.3	37.17	29.19	77.753	78	%
09	1.32	31.57	25.9	81.256	81	%
10	1.31	39.75	32.95	82.31	82	%
08-387-01	1.28	29.94	29.63	98.918	99	%
02	1.29	41.06	40.63	98.919	99	%
03	1.32	31.01	30.45	98.114	98	%
04	1.31	29.53	29.06	98.335	98	%
dup-404-09	1.33	23.51	19.42	81.56	82	%

KEMRON REPORT L0105526

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1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0105526

CHAIN OF CUSTODY:

The chain of custody number was 148799-24.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The cooler temperatures were 1,1 ° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Angie Hurst DATE: 5-25-01

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0105526

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 05/24/01 on HPMS-6 yielded a % recovery for carbon disulfide that was below the lower advisory limit. All other acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: MES REVIEWED Stephanie L Lepre DATE: 5/31/01

4

REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with sample fraction 04 yielded percent recoveries for 1-methylnaphthalene, benzo(g,h,i)perylene and a surrogate which were below advisory limits.

The LCS associated with the soil fractions yielded a percent recovery for fluoranthene which was above the advisory limit. All other acceptance criteria were met.

Matrix Spikes: Sample fraction 01 (PAHL)was chosen internally for MS/MSD treatment. The MS/MSD yielded percent recoveries for three analytes which were above the advisory limits. Sample 02 (8270) was chosen internally for MS/MSD analysis. All other acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample fraction 04 yielded a percent recovery for 2-fluorbiphenyl which was below the advisory limit. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RDC

REVIEWED: Stephanie Lopez DATE: 6/7/01

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REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: WG98098:The MS yielded a % recovery for methoychlor that was above the advisory limits. WG98096: The MS/MSD yielded % recoveries for gamma-chlordane, alpha-chlordane, 4,4-DDE, and 4,4-DDT that were below the advisory limits. All other acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.
Endrin/ DDT Breakdown : All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie L Lupo DATE: 6/12/01

Rev. 7/14/00

REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Surrogates: Sample fraction 04 yielded a % recovery for DCBP that was below the lower surrogate limit. The 2,4,5,6-TCMX recovery was acceptable. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW__ REVIEWED: Stephanie L Tyler DATE: 5/31/01

Rev. 7/14/00

7

REPORT NARRATIVE
GC PRO RANGE ORGANICS

KEMRON Report No.: L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: All acceptance criteria were met

SAMPLES

Samples: All acceptance criteria were met.
Surrogates: The method blank associated with this sample delivery group yielded %recovery for 0-terphenyl, lower than an advisory limits. Recovery from re-analysis was with in the limits. All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED Stephanie Lupe DATE: 6/7/04

Rev. 7/14/00

REPORT NARRATIVE
METALS

KEMRON Login No:L0105526

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SLP,KHR,JYH,AMT REVIEWED Maren Beery DATE: 06/01/01

Rev. 6/00

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260 AAB # : WG98011

Lab Name : Kemron Environmental Services Contract # :

Base/Command : NAS Cecil Field Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S Tepe Name: Dennis S. Tepe

Date: 31-MAY-01 Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.602	6.0	0.602	1	ND
1,1,1-Trichloroethane	0.602	6.0	0.602	1	ND
1,1,2,2-Tetrachloroethane	0.602	6.0	0.602	1	ND
1,1,2-Trichloroethane	0.602	6.0	0.602	1	ND
1,1-Dichloroethane	1.20	6.0	1.20	1	ND
1,1-Dichloroethene	0.602	6.0	0.602	1	ND
1,1-Dichloropropene	0.602	6.0	0.602	1	ND
1,2,3-Trichlorobenzene	0.602	6.0	0.602	1	ND
1,2,3-Trichloropropane	0.771	6.0	0.771	1	ND
1,2,4-Trichlorobenzene	0.602	6.0	0.602	1	ND
1,2,4-Trimethylbenzene	0.602	6.0	0.602	1	ND
1,2-Dibromo-3-chloropropane	0.602	6.0	0.602	1	ND
1,2-Dibromoethane	0.602	6.0	0.602	1	ND
1,2-Dichlorobenzene	0.602	6.0	0.602	1	ND
1,2-Dichloroethane	0.602	6.0	0.602	1	ND
1,2-Dichloropropane	0.602	6.0	0.602	1	ND
1,3,5-Trimethylbenzene	0.602	6.0	0.602	1	ND
1,3-Dichlorobenzene	0.602	6.0	0.602	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.602	6.0	0.602	1	ND
1,4-Dichlorobenzene	0.602	6.0	0.602	1	ND
2,2-Dichloropropane	0.602	6.0	0.602	1	ND
2-Butanone	3.01	120	3.01	1	ND
2-Chloroethyl vinyl ether	0.602	12	0.602	1	ND
2-Chlorotoluene	0.602	6.0	0.602	1	ND
2-Hexanone	3.01	12	3.01	1	ND
4-Chlorotoluene	0.602	6.0	0.602	1	ND
4-Methyl-2-pentanone	3.01	12	3.01	1	ND
Acetone	3.01	120	3.01	1	ND
Acrolein	24.1	120	24.1	1	ND
Acrylonitrile	3.01	120	3.01	1	ND
Benzene	0.602	6.0	0.602	1	ND
Bromobenzene	0.602	6.0	0.602	1	ND
Bromochloromethane	0.602	6.0	0.602	1	ND
Bromodichloromethane	0.602	6.0	0.602	1	ND
Bromoform	0.602	6.0	0.602	1	ND
Bromomethane	1.20	12	1.20	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.602	6.0	0.602	1	ND
Carbon tetrachloride	0.602	6.0	0.602	1	ND
Chlorobenzene	0.602	6.0	0.602	1	ND
Chlorodibromomethane	0.602	6.0	0.602	1	ND
Chloroethane	1.20	12	1.20	1	ND
Chloroform	0.602	6.0	0.602	1	ND
Chloromethane	2.41	12	2.41	1	ND
Dibromomethane	0.602	6.0	0.602	1	ND
Dichlorodifluoromethane	1.20	12	1.20	1	ND
Ethylbenzene	0.602	6.0	0.602	1	ND
Hexachlorobutadiene	0.602	6.0	0.602	1	ND
Isopropylbenzene	0.602	6.0	0.602	1	ND
Methylene chloride	1.20	6.0	1.20	1	ND
Naphthalene	0.602	12	0.900	1	J
Styrene	0.602	6.0	0.602	1	ND
Tetrachloroethene	0.602	6.0	0.602	1	ND
Toluene	0.602	6.0	0.602	1	ND
Trichloroethene	0.602	6.0	0.602	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:25

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.20	12	1.20	1	ND
Vinyl acetate	1.20	12	1.20	1	ND
Vinyl chloride	1.20	12	1.20	1	ND
cis-1,2-Dichloroethene	0.602	6.0	0.602	1	ND
cis-1,3-Dichloropropene	0.602	6.0	0.602	1	ND
m-Xylene	0.602	6.0	0.602	1	ND
n-Butylbenzene	0.602	6.0	0.602	1	ND
n-Propylbenzene	0.602	6.0	0.602	1	ND
o-Xylene	0.602	6.0	0.602	1	ND
p-Isopropyltoluene	0.602	6.0	0.602	1	ND
p-Xylene		6.0		1	ND
sec-Butylbenzene	0.602	6.0	0.602	1	ND
tert-Butylbenzene	0.602	6.0	0.602	1	ND
trans-1,2-Dichloroethene	0.602	6.0	0.602	1	ND
trans-1,3-Dichloropropene	0.602	6.0	0.602	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	80 - 120	
4-Bromofluorobenzene	101	74 - 121	
Dibromofluoromethane	101	80 - 120	
Toluene-d8	96.9	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.532	5.3	0.532	1	ND
1,1,1-Trichloroethane	0.532	5.3	0.532	1	ND
1,1,2,2-Tetrachloroethane	0.532	5.3	0.532	1	ND
1,1,2-Trichloroethane	0.532	5.3	0.532	1	ND
1,1-Dichloroethane	1.06	5.3	1.06	1	ND
1,1-Dichloroethene	0.532	5.3	0.532	1	ND
1,1-Dichloropropene	0.532	5.3	0.532	1	ND
1,2,3-Trichlorobenzene	0.532	5.3	0.532	1	ND
1,2,3-Trichloropropane	0.681	5.3	0.681	1	ND
1,2,4-Trichlorobenzene	0.532	5.3	0.532	1	ND
1,2,4-Trimethylbenzene	0.532	5.3	0.532	1	ND
1,2-Dibromo-3-chloropropane	0.532	5.3	0.532	1	ND
1,2-Dibromoethane	0.532	5.3	0.532	1	ND
1,2-Dichlorobenzene	0.532	5.3	0.532	1	ND
1,2-Dichloroethane	0.532	5.3	0.532	1	ND
1,2-Dichloropropane	0.532	5.3	0.532	1	ND
1,3,5-Trimethylbenzene	0.532	5.3	0.532	1	ND
1,3-Dichlorobenzene	0.532	5.3	0.532	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.532	5.3	0.532	1	ND
1,4-Dichlorobenzene	0.532	5.3	0.532	1	ND
2,2-Dichloropropane	0.532	5.3	0.532	1	ND
2-Butanone	2.66	110	2.66	1	ND
2-Chloroethyl vinyl ether	0.532	11	0.532	1	ND
2-Chlorotoluene	0.532	5.3	0.532	1	ND
2-Hexanone	2.66	11	2.66	1	ND
4-Chlorotoluene	0.532	5.3	0.532	1	ND
4-Methyl-2-pentanone	2.66	11	2.66	1	ND
Acetone	2.66	110	2.66	1	ND
Acrolein	21.3	110	21.3	1	ND
Acrylonitrile	2.66	110	2.66	1	ND
Benzene	0.532	5.3	0.532	1	ND
Bromobenzene	0.532	5.3	0.532	1	ND
Bromochloromethane	0.532	5.3	0.532	1	ND
Bromodichloromethane	0.532	5.3	0.532	1	ND
Bromoform	0.532	5.3	0.532	1	ND
Bromomethane	1.06	11	1.06	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.532	5.3	0.532	1	ND
Carbon tetrachloride	0.532	5.3	0.532	1	ND
Chlorobenzene	0.532	5.3	0.532	1	ND
Chlorodibromomethane	0.532	5.3	0.532	1	ND
Chloroethane	1.06	11	1.06	1	ND
Chloroform	0.532	5.3	0.532	1	ND
Chloromethane	2.13	11	2.13	1	ND
Dibromomethane	0.532	5.3	0.532	1	ND
Dichlorodifluoromethane	1.06	11	1.06	1	ND
Ethylbenzene	0.532	5.3	0.532	1	ND
Hexachlorobutadiene	0.532	5.3	0.532	1	ND
Isopropylbenzene	0.532	5.3	0.532	1	ND
Methylene chloride	1.06	5.3	1.06	1	ND
Naphthalene	0.532	11	0.532	1	ND
Styrene	0.532	5.3	2.10	1	J
Tetrachloroethene	0.532	5.3	0.532	1	ND
Toluene	0.532	5.3	0.532	1	ND
Trichloroethene	0.532	5.3	0.532	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 18:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.06	11	1.06	1	ND
Vinyl acetate	1.06	11	1.06	1	ND
Vinyl chloride	1.06	11	1.06	1	ND
cis-1,2-Dichloroethene	0.532	5.3	0.532	1	ND
cis-1,3-Dichloropropene	0.532	5.3	0.532	1	ND
m-Xylene	0.532	5.3	0.532	1	ND
n-Butylbenzene	0.532	5.3	0.532	1	ND
n-Propylbenzene	0.532	5.3	0.532	1	ND
o-Xylene	0.532	5.3	0.532	1	ND
p-Isopropyltoluene	0.532	5.3	0.532	1	ND
p-Xylene		5.3		1	ND
sec-Butylbenzene	0.532	5.3	0.532	1	ND
tert-Butylbenzene	0.532	5.3	0.532	1	ND
trans-1,2-Dichloroethene	0.532	5.3	0.532	1	ND
trans-1,3-Dichloropropene	0.532	5.3	0.532	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	99.7	80 - 120	
4-Bromofluorobenzene	96.2	74 - 121	
Dibromofluoromethane	99.0	80 - 120	
Toluene-d8	93.0	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9 11-MAY-2001

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 19:28

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.633	6.3	0.633	1	ND
1,1,1-Trichloroethane	0.633	6.3	0.633	1	ND
1,1,2,2-Tetrachloroethane	0.633	6.3	0.633	1	ND
1,1,2-Trichloroethane	0.633	6.3	0.633	1	ND
1,1-Dichloroethane	1.27	6.3	1.27	1	ND
1,1-Dichloroethene	0.633	6.3	0.633	1	ND
1,1-Dichloropropene	0.633	6.3	0.633	1	ND
1,2,3-Trichlorobenzene	0.633	6.3	0.633	1	ND
1,2,3-Trichloropropane	0.810	6.3	0.810	1	ND
1,2,4-Trichlorobenzene	0.633	6.3	0.633	1	ND
1,2,4-Trimethylbenzene	0.633	6.3	0.633	1	ND
1,2-Dibromo-3-chloropropane	0.633	6.3	0.633	1	ND
1,2-Dibromoethane	0.633	6.3	0.633	1	ND
1,2-Dichlorobenzene	0.633	6.3	0.633	1	ND
1,2-Dichloroethane	0.633	6.3	0.633	1	ND
1,2-Dichloropropane	0.633	6.3	0.633	1	ND
1,3,5-Trimethylbenzene	0.633	6.3	0.633	1	ND
1,3-Dichlorobenzene	0.633	6.3	0.633	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 19:28

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.633	6.3	0.633	1	ND
1,4-Dichlorobenzene	0.633	6.3	0.633	1	ND
2,2-Dichloropropane	0.633	6.3	0.633	1	ND
2-Butanone	3.16	130	3.16	1	ND
2-Chloroethyl vinyl ether	0.633	13	0.633	1	ND
2-Chlorotoluene	0.633	6.3	0.633	1	ND
2-Hexanone	3.16	13	3.16	1	ND
4-Chlorotoluene	0.633	6.3	0.633	1	ND
4-Methyl-2-pentanone	3.16	13	3.16	1	ND
Acetone	3.16	130	3.16	1	ND
Acrolein	25.3	130	25.3	1	ND
Acrylonitrile	3.16	130	3.16	1	ND
Benzene	0.633	6.3	0.633	1	ND
Bromobenzene	0.633	6.3	0.633	1	ND
Bromochloromethane	0.633	6.3	0.633	1	ND
Bromodichloromethane	0.633	6.3	0.633	1	ND
Bromoform	0.633	6.3	0.633	1	ND
Bromomethane	1.27	13	1.27	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS9
Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 19:28
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.633	6.3	0.633	1	ND
Carbon tetrachloride	0.633	6.3	0.633	1	ND
Chlorobenzene	0.633	6.3	0.633	1	ND
Chlorodibromomethane	0.633	6.3	0.633	1	ND
Chloroethane	1.27	13	1.27	1	ND
Chloroform	0.633	6.3	0.633	1	ND
Chloromethane	2.53	13	2.53	1	ND
Dibromomethane	0.633	6.3	0.633	1	ND
Dichlorodifluoromethane	1.27	13	1.27	1	ND
Ethylbenzene	0.633	6.3	0.633	1	ND
Hexachlorobutadiene	0.633	6.3	0.633	1	ND
Isopropylbenzene	0.633	6.3	0.633	1	ND
Methylene chloride	1.27	6.3	1.27	1	ND
Naphthalene	0.633	13	0.633	1	ND
Styrene	0.633	6.3	0.633	1	ND
Tetrachloroethene	0.633	6.3	0.633	1	ND
Toluene	0.633	6.3	0.633	1	ND
Trichloroethene	0.633	6.3	0.633	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98011

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS9

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 23-MAY-01 19:28

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	1.27	13	1.27	1	ND
Vinyl acetate	1.27	13	1.27	1	ND
Vinyl chloride	1.27	13	1.27	1	ND
cis-1,2-Dichloroethene	0.633	6.3	0.633	1	ND
cis-1,3-Dichloropropene	0.633	6.3	0.633	1	ND
m-Xylene	0.633	6.3	0.633	1	ND
n-Butylbenzene	0.633	6.3	0.633	1	ND
n-Propylbenzene	0.633	6.3	0.633	1	ND
o-Xylene	0.633	6.3	0.633	1	ND
p-Isopropyltoluene	0.633	6.3	0.633	1	ND
p-Xylene		6.3		1	ND
sec-Butylbenzene	0.633	6.3	0.633	1	ND
tert-Butylbenzene	0.633	6.3	0.633	1	ND
trans-1,2-Dichloroethene	0.633	6.3	0.633	1	ND
trans-1,3-Dichloropropene	0.633	6.3	0.633	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	80 - 120	
4-Bromofluorobenzene	96.5	74 - 121	
Dibromofluoromethane	99.3	80 - 120	
Toluene-d8	94.1	81 - 117	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8260
AAB # : WG98069
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04
005-2TB2-W-05227-01	L0105526-05

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 31-MAY-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 13:42

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	5.0	0.250	1	ND
1,1,1-Trichloroethane	0.250	5.0	0.250	1	ND
1,1,2,2-Tetrachloroethane	0.125	5.0	0.125	1	ND
1,1,2-Trichloroethane	0.250	5.0	0.250	1	ND
1,1-Dichloroethane	0.125	5.0	0.125	1	ND
1,1-Dichloroethene	0.500	5.0	0.500	1	ND
1,1-Dichloropropene	0.250	5.0	0.250	1	ND
1,2,3-Trichlorobenzene	0.125	5.0	0.125	1	ND
1,2,3-Trichloropropane	0.750	5.0	0.750	1	ND
1,2,4-Trichlorobenzene	0.200	5.0	0.200	1	ND
1,2,4-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,2-Dibromo-3-chloropropane	1.00	5.0	1.00	1	ND
1,2-Dibromoethane	0.250	5.0	0.250	1	ND
1,2-Dichlorobenzene	0.125	5.0	0.125	1	ND
1,2-Dichloroethane	0.250	5.0	0.250	1	ND
1,2-Dichloropropane	0.125	5.0	0.125	1	ND
1,3,5-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,3-Dichlorobenzene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 13:42

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.200	5.0	0.200	1	ND
1,4-Dichlorobenzene	0.125	5.0	0.125	1	ND
2,2-Dichloropropane	0.250	5.0	0.250	1	ND
2-Butanone	2.50	100	2.50	1	ND
2-Chloroethyl vinyl ether	10.0	10	10.0	1	ND
2-Chlorotoluene	0.125	5.0	0.125	1	ND
2-Hexanone	2.50	10	2.50	1	ND
4-Chlorotoluene	0.250	5.0	0.250	1	ND
4-Methyl-2-pentanone	2.50	10	2.50	1	ND
Acetone	2.50	100	2.50	1	ND
Acrolein	20.0	100	20.0	1	ND
Acrylonitrile	2.50	100	2.50	1	ND
Benzene	0.125	5.0	0.125	1	ND
Bromobenzene	0.125	5.0	0.125	1	ND
Bromochloromethane	0.200	5.0	0.200	1	ND
Bromodichloromethane	0.250	5.0	0.250	1	ND
Bromoform	0.540	5.0	0.540	1	ND
Bromomethane	0.500	10	0.500	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 13:42

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.500	5.0	0.500	1	ND
Carbon tetrachloride	0.250	5.0	0.250	1	ND
Chlorobenzene	0.125	5.0	0.125	1	ND
Chlorodibromomethane	0.250	5.0	0.250	1	ND
Chloroethane	0.500	10	0.500	1	ND
Chloroform	0.125	5.0	1.40	1	J
Chloromethane	0.250	10	0.250	1	ND
Dibromomethane	0.250	5.0	0.250	1	ND
Dichlorodifluoromethane	0.250	10	0.250	1	ND
Ethylbenzene	0.250	5.0	0.250	1	ND
Hexachlorobutadiene	0.250	5.0	0.250	1	ND
Isopropylbenzene	0.250	5.0	0.250	1	ND
Methylene chloride	0.250	5.0	0.250	1	ND
Naphthalene	0.200	10	0.200	1	ND
Styrene	0.125	5.0	0.125	1	ND
Tetrachloroethene	0.250	5.0	0.250	1	ND
Toluene	0.250	5.0	0.250	1	ND
Trichloroethene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 13:42

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.250	10	0.250	1	ND
Vinyl acetate	2.50	10	2.50	1	ND
Vinyl chloride	0.250	10	0.250	1	ND
cis-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
cis-1,3-Dichloropropene	0.250	5.0	0.250	1	ND
m-Xylene	0.330	5.0	0.330	1	ND
n-Butylbenzene	0.250	5.0	0.250	1	ND
n-Propylbenzene	0.125	5.0	0.125	1	ND
o-Xylene	0.250	5.0	0.250	1	ND
p-Isopropyltoluene	0.250	5.0	0.250	1	ND
p-Xylene	0.330	5.0	0.330	1	ND
sec-Butylbenzene	0.250	5.0	0.250	1	ND
tert-Butylbenzene	0.250	5.0	0.250	1	ND
trans-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
trans-1,3-Dichloropropene	0.500	5.0	0.500	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	95.7	80 - 120	
4-Bromofluorobenzene	104	86 - 115	
Dibromofluoromethane	92.3	86 - 118	
Toluene-d8	97.8	88 - 110	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB2-W-05227-01 Lab Sample ID: L0105526-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 14:14

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	5.0	0.250	1	ND
1,1,1-Trichloroethane	0.250	5.0	0.250	1	ND
1,1,2,2-Tetrachloroethane	0.125	5.0	0.125	1	ND
1,1,2-Trichloroethane	0.250	5.0	0.250	1	ND
1,1-Dichloroethane	0.125	5.0	0.125	1	ND
1,1-Dichloroethene	0.500	5.0	0.500	1	ND
1,1-Dichloropropene	0.250	5.0	0.250	1	ND
1,2,3-Trichlorobenzene	0.125	5.0	0.125	1	ND
1,2,3-Trichloropropane	0.750	5.0	0.750	1	ND
1,2,4-Trichlorobenzene	0.200	5.0	0.200	1	ND
1,2,4-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,2-Dibromo-3-chloropropane	1.00	5.0	1.00	1	ND
1,2-Dibromoethane	0.250	5.0	0.250	1	ND
1,2-Dichlorobenzene	0.125	5.0	0.125	1	ND
1,2-Dichloroethane	0.250	5.0	0.250	1	ND
1,2-Dichloropropane	0.125	5.0	0.125	1	ND
1,3,5-Trimethylbenzene	0.250	5.0	0.250	1	ND
1,3-Dichlorobenzene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB2-W-05227-01 Lab Sample ID: L0105526-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 14:14

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,3-Dichloropropane	0.200	5.0	0.200	1	ND
1,4-Dichlorobenzene	0.125	5.0	0.125	1	ND
2,2-Dichloropropane	0.250	5.0	0.250	1	ND
2-Butanone	2.50	100	2.50	1	ND
2-Chloroethyl vinyl ether	10.0	10	10.0	1	ND
2-Chlorotoluene	0.125	5.0	0.125	1	ND
2-Hexanone	2.50	10	2.50	1	ND
4-Chlorotoluene	0.250	5.0	0.250	1	ND
4-Methyl-2-pentanone	2.50	10	2.50	1	ND
Acetone	2.50	100	2.50	1	ND
Acrolein	20.0	100	20.0	1	ND
Acrylonitrile	2.50	100	2.50	1	ND
Benzene	0.125	5.0	0.125	1	ND
Bromobenzene	0.125	5.0	0.125	1	ND
Bromochloromethane	0.200	5.0	0.200	1	ND
Bromodichloromethane	0.250	5.0	0.250	1	ND
Bromoform	0.540	5.0	0.540	1	ND
Bromomethane	0.500	10	0.500	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB2-W-05227-01 Lab Sample ID: L0105526-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 14:14

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Carbon disulfide	0.500	5.0	0.500	1	ND
Carbon tetrachloride	0.250	5.0	0.250	1	ND
Chlorobenzene	0.125	5.0	0.125	1	ND
Chlorodibromomethane	0.250	5.0	0.250	1	ND
Chloroethane	0.500	10	0.500	1	ND
Chloroform	0.125	5.0	0.125	1	ND
Chloromethane	0.250	10	0.250	1	ND
Dibromomethane	0.250	5.0	0.250	1	ND
Dichlorodifluoromethane	0.250	10	0.250	1	ND
Ethylbenzene	0.250	5.0	0.250	1	ND
Hexachlorobutadiene	0.250	5.0	0.250	1	ND
Isopropylbenzene	0.250	5.0	0.250	1	ND
Methylene chloride	0.250	5.0	0.380	1	J
Naphthalene	0.200	10	0.200	1	ND
Styrene	0.125	5.0	0.125	1	ND
Tetrachloroethene	0.250	5.0	0.250	1	ND
Toluene	0.250	5.0	0.250	1	ND
Trichloroethene	0.250	5.0	0.250	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8260 Preparatory Method: 8260B\5030B AAB # : WG98069

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-2TB2-W-05227-01 Lab Sample ID: L0105526-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS6

Date Received: 23-MAY-01 Date Extracted: Date Analyzed: 24-MAY-01 14:14

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Trichlorofluoromethane	0.250	10	0.250	1	ND
Vinyl acetate	2.50	10	2.50	1	ND
Vinyl chloride	0.250	10	0.250	1	ND
cis-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
cis-1,3-Dichloropropene	0.250	5.0	0.250	1	ND
m-Xylene	0.330	5.0	0.330	1	ND
n-Butylbenzene	0.250	5.0	0.250	1	ND
n-Propylbenzene	0.125	5.0	0.125	1	ND
o-Xylene	0.250	5.0	0.250	1	ND
p-Isopropyltoluene	0.250	5.0	0.250	1	ND
p-Xylene	0.330	5.0	0.330	1	ND
sec-Butylbenzene	0.250	5.0	0.250	1	ND
tert-Butylbenzene	0.250	5.0	0.250	1	ND
trans-1,2-Dichloroethene	0.250	5.0	0.250	1	ND
trans-1,3-Dichloropropene	0.500	5.0	0.500	1	ND

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	97.4	80 - 120	
4-Bromofluorobenzene	104	86 - 115	
Dibromofluoromethane	94.1	86 - 118	
Toluene-d8	98.0	88 - 110	

Internal Std	Qualifier
Fluorobenzene	
Chlorobenzene-d5	
1,4-Dichlorobenzene-d4	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
AAB # : WG98440
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 17:01

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.01	6.0	3.01	1	ND
2-Methylnaphthalene	3.01	6.0	3.01	1	ND
Acenaphthene	3.01	6.0	3.01	1	ND
Acenaphthylene	3.01	6.0	3.01	1	ND
Anthracene	3.01	6.0	3.01	1	ND
Benzo(a)anthracene	3.01	6.0	3.01	1	ND
Benzo(a)pyrene	3.01	6.0	3.01	1	ND
Benzo(b)fluoranthene	3.01	6.0	3.01	1	ND
Benzo(g,h,i)perylene	3.01	6.0	3.01	1	ND
Benzo(k)fluoranthene	3.01	6.0	3.01	1	ND
Chrysene	3.01	6.0	3.01	1	ND
Dibenzo(a,h)anthracene	3.01	6.0	3.01	1	ND
Fluoranthene	3.01	6.0	3.01	1	ND
Fluorene	3.01	6.0	3.01	1	ND
Indeno(1,2,3-cd)pyrene	3.01	6.0	3.01	1	ND
Naphthalene	3.01	6.0	3.01	1	ND
Phenanthrene	3.01	6.0	3.01	1	ND
Pyrene	3.01	6.0	3.01	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS7

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 17:01

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	62.8	30 - 115	
Nitrobenzene-d5	74.8	23 - 120	
p-Terphenyl-d14	83.2	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 18:21

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	2.66	5.3	2.66	1	ND
2-Methylnaphthalene	2.66	5.3	2.66	1	ND
Acenaphthene	2.66	5.3	2.66	1	ND
Acenaphthylene	2.66	5.3	2.66	1	ND
Anthracene	2.66	5.3	2.66	1	ND
Benzo(a)anthracene	2.66	5.3	2.66	1	ND
Benzo(a)pyrene	2.66	5.3	2.66	1	ND
Benzo(b)fluoranthene	2.66	5.3	2.66	1	ND
Benzo(g,h,i)perylene	2.66	5.3	2.66	1	ND
Benzo(k)fluoranthene	2.66	5.3	2.66	1	ND
Chrysene	2.66	5.3	2.66	1	ND
Dibenzo(a,h)anthracene	2.66	5.3	2.66	1	ND
Fluoranthene	2.66	5.3	2.66	1	ND
Fluorene	2.66	5.3	2.66	1	ND
Indeno(1,2,3-cd)pyrene	2.66	5.3	2.66	1	ND
Naphthalene	2.66	5.3	2.66	1	ND
Phenanthrene	2.66	5.3	2.66	1	ND
Pyrene	2.66	5.3	2.66	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS7

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 18:21

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	62.8	30 - 115	
Nitrobenzene-d5	73.2	23 - 120	
p-Terphenyl-d14	79.6	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 18:47

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	3.16	6.3	3.16	1	ND
2-Methylnaphthalene	3.16	6.3	3.16	1	ND
Acenaphthene	3.16	6.3	3.16	1	ND
Acenaphthylene	3.16	6.3	3.16	1	ND
Anthracene	3.16	6.3	3.16	1	ND
Benzo(a)anthracene	3.16	6.3	3.16	1	ND
Benzo(a)pyrene	3.16	6.3	3.16	1	ND
Benzo(b)fluoranthene	3.16	6.3	3.16	1	ND
Benzo(g,h,i)perylene	3.16	6.3	3.16	1	ND
Benzo(k)fluoranthene	3.16	6.3	3.16	1	ND
Chrysene	3.16	6.3	3.16	1	ND
Dibenzo(a,h)anthracene	3.16	6.3	3.16	1	ND
Fluoranthene	3.16	6.3	3.16	1	ND
Fluorene	3.16	6.3	3.16	1	ND
Indeno(1,2,3-cd)pyrene	3.16	6.3	3.16	1	ND
Naphthalene	3.16	6.3	3.16	1	ND
Phenanthrene	3.16	6.3	3.16	1	ND
Pyrene	3.16	6.3	3.16	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG98440

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS7

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 18:47

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	92.0	30 - 115	
Nitrobenzene-d5	106	23 - 120	
p-Terphenyl-d14	111	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
AAB # : WG98224
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98224

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS7 21-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 24-MAY-01 14:32

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.050	0.10	0.050	1	ND
2-Methylnaphthalene	0.050	0.10	0.050	1	ND
Acenaphthene	0.050	0.10	0.050	1	ND
Acenaphthylene	0.050	0.10	0.050	1	ND
Anthracene	0.050	0.10	0.050	1	ND
Benzo(a)anthracene	0.050	0.10	0.050	1	ND
Benzo(a)pyrene	0.050	0.10	0.050	1	ND
Benzo(b)fluoranthene	0.050	0.10	0.050	1	ND
Benzo(g,h,i)perylene	0.050	0.10	0.050	1	ND
Benzo(k)fluoranthene	0.050	0.10	0.050	1	ND
Chrysene	0.050	0.10	0.050	1	ND
Dibenzo(a,h)anthracene	0.050	0.10	0.050	1	ND
Fluoranthene	0.050	0.10	0.050	1	ND
Fluorene	0.050	0.10	0.050	1	ND
Indeno(1,2,3-cd)pyrene	0.050	0.10	0.050	1	ND
Naphthalene	0.050	0.10	0.060	1	J
Phenanthrene	0.050	0.10	0.050	1	ND
Pyrene	0.050	0.10	0.050	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98224

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS7

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 24-MAY-01 14:32

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	40.0	43 - 116	*
Nitrobenzene-d5	56.8	35 - 114	
p-Terphenyl-d14	56.0	33 - 141	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8081

AAB # : WG98098

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : NAS Cecil Field

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

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Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 07-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 15:03

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.994	4.0	0.994	1	ND
4,4'-DDE	0.994	4.0	0.994	1	ND
4,4'-DDT	0.994	4.0	0.994	1	ND
Aldrin	0.482	2.0	0.482	1	ND
Dieldrin	0.994	4.0	0.994	1	ND
Endosulfan I	0.482	2.0	0.482	1	ND
Endosulfan II	0.994	4.0	0.994	1	ND
Endosulfan sulfate	0.994	4.0	0.994	1	ND
Endrin	0.994	4.0	0.994	1	ND
Endrin aldehyde	0.994	4.0	0.994	1	ND
Endrin ketone	0.994	4.0	0.994	1	ND
Heptachlor	0.482	2.0	0.482	1	ND
Heptachlor epoxide	0.482	2.0	0.482	1	ND
Methoxychlor	0.994	20	0.994	1	ND
Toxaphene	20.1	40	20.1	1	ND
alpha Chlordane	0.482	2.0	0.482	1	ND
alpha-BHC	0.482	2.0	0.482	1	ND
beta-BHC	0.482	2.0	0.482	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HP9

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 15:03

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.482	2.0	0.482	1	ND
gamma Chlordane	0.482	2.0	0.482	1	ND
gamma-BHC (Lindane)	0.482	2.0	0.482	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	92.0	29 - 133	
Decachlorobiphenyl	104	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 16:15

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.878	3.5	0.878	1	ND
4,4'-DDE	0.878	3.5	0.878	1	ND
4,4'-DDT	0.878	3.5	0.878	1	ND
Aldrin	0.426	1.8	0.426	1	ND
Dieldrin	0.878	3.5	0.878	1	ND
Endosulfan I	0.426	1.8	0.426	1	ND
Endosulfan II	0.878	3.5	0.878	1	ND
Endosulfan sulfate	0.878	3.5	0.878	1	ND
Endrin	0.878	3.5	0.878	1	ND
Endrin aldehyde	0.878	3.5	0.878	1	ND
Endrin ketone	0.878	3.5	0.878	1	ND
Heptachlor	0.426	1.8	0.426	1	ND
Heptachlor epoxide	0.426	1.8	0.426	1	ND
Methoxychlor	0.878	18	0.878	1	ND
Toxaphene	17.8	35	17.8	1	ND
alpha Chlordane	0.426	1.8	0.426	1	ND
alpha-BHC	0.426	1.8	0.426	1	ND
beta-BHC	0.426	1.8	0.426	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HP9

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 16:15

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.426	1.8	0.426	1	ND
gamma Chlordane	0.426	1.8	0.426	1	ND
gamma-BHC (Lindane)	0.426	1.8	0.426	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	70.3	29 - 133	
Decachlorobiphenyl	80.8	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 16:39

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	1.04	4.2	1.04	1	ND
4,4'-DDE	1.04	4.2	1.04	1	ND
4,4'-DDT	1.04	4.2	1.04	1	ND
Aldrin	0.506	2.1	0.506	1	ND
Dieldrin	1.04	4.2	1.04	1	ND
Endosulfan I	0.506	2.1	0.506	1	ND
Endosulfan II	1.04	4.2	1.04	1	ND
Endosulfan sulfate	1.04	4.2	1.04	1	ND
Endrin	1.04	4.2	1.04	1	ND
Endrin aldehyde	1.04	4.2	1.04	1	ND
Endrin ketone	1.04	4.2	1.04	1	ND
Heptachlor	0.506	2.1	0.506	1	ND
Heptachlor epoxide	0.506	2.1	0.506	1	ND
Methoxychlor	1.04	21	1.04	1	ND
Toxaphene	21.1	42	21.1	1	ND
alpha Chlordane	0.506	2.1	0.506	1	ND
alpha-BHC	0.506	2.1	0.506	1	ND
beta-BHC	0.506	2.1	0.506	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3550B AAB # : WG98098

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP9

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 16:39

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.506	2.1	0.506	1	ND
gamma Chlordane	0.506	2.1	0.506	1	ND
gamma-BHC (Lindane)	0.506	2.1	0.506	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	87.5	29 - 133	
Decachlorobiphenyl	104	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8081 AAB # : WG98096

Lab Name : Kemron Environmental Services Contract # :

Base/Command : NAS Cecil Field Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S. Tepe Name: Dennis S. Tepe

Date: 07-JUN-01 Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG98096

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9 24-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 21:53

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
4,4'-DDD	0.025	0.10	0.025	1	ND
4,4'-DDE	0.025	0.10	0.025	1	ND
4,4'-DDT	0.025	0.10	0.025	1	ND
Aldrin	0.010	0.05	0.010	1	ND
Dieldrin	0.025	0.10	0.025	1	ND
Endosulfan I	0.010	0.05	0.010	1	ND
Endosulfan II	0.025	0.10	0.025	1	ND
Endosulfan sulfate	0.025	0.10	0.025	1	ND
Endrin	0.025	0.10	0.025	1	ND
Endrin aldehyde	0.025	0.10	0.025	1	ND
Endrin ketone	0.025	0.10	0.025	1	ND
Heptachlor	0.010	0.05	0.010	1	ND
Heptachlor epoxide	0.010	0.05	0.010	1	ND
Methoxychlor	0.025	0.50	0.025	1	ND
Toxaphene	0.500	1.0	0.500	1	ND
alpha Chlordane	0.010	0.05	0.010	1	ND
alpha-BHC	0.010	0.05	0.010	1	ND
beta-BHC	0.010	0.05	0.010	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8081 Preparatory Method: 8081A\3510C AAB # : WG98096

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP9

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 21:53

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
delta-BHC	0.010	0.05	0.010	1	ND
gamma Chlordane	0.010	0.05	0.010	1	ND
gamma-BHC (Lindane)	0.010	0.05	0.010	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	36.9	13 - 154	
Decachlorobiphenyl	30.3	25 - 140	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8082
AAB # : WG98099
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

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Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 31-MAY-01
Title: Laboratory Manager

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG98099

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HP7 07-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 13:56

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	9.94	20	9.94	1	ND
Aroclor-1221	9.94	20	9.94	1	ND
Aroclor-1232	9.94	20	9.94	1	ND
Aroclor-1242	9.94	20	9.94	1	ND
Aroclor-1248	9.94	20	9.94	1	ND
Aroclor-1254	9.94	20	9.94	1	ND
Aroclor-1260	9.94	20	9.94	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	93.8	29 - 133	
Decachlorobiphenyl	119	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG98099

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HP7 07-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 14:15

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	8.78	18	8.78	1	ND
Aroclor-1221	8.78	18	8.78	1	ND
Aroclor-1232	8.78	18	8.78	1	ND
Aroclor-1242	8.78	18	8.78	1	ND
Aroclor-1248	8.78	18	8.78	1	ND
Aroclor-1254	8.78	18	8.78	1	ND
Aroclor-1260	8.78	18	8.78	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	84.2	29 - 133	
Decachlorobiphenyl	110	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3550B AAB # : WG98099

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP7 07-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 25-MAY-01 15:12

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	10.4	21	10.4	1	ND
Aroclor-1221	10.4	21	10.4	1	ND
Aroclor-1232	10.4	21	10.4	1	ND
Aroclor-1242	10.4	21	10.4	1	ND
Aroclor-1248	10.4	21	10.4	1	ND
Aroclor-1254	10.4	21	10.4	1	ND
Aroclor-1260	10.4	21	10.4	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	96.1	29 - 133	
Decachlorobiphenyl	130	30 - 173	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8082

AAB # : WG98097

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : NAS Cecil Field

Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 31-MAY-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8082 Preparatory Method: 8082\3510C AAB # : WG98097

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP7 07-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 24-MAY-01 16:15

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aroclor-1016	0.250	0.50	0.250	1	ND
Aroclor-1221	0.250	0.50	0.250	1	ND
Aroclor-1232	0.250	0.50	0.250	1	ND
Aroclor-1242	0.250	0.50	0.250	1	ND
Aroclor-1248	0.250	0.50	0.250	1	ND
Aroclor-1254	0.250	0.50	0.250	1	ND
Aroclor-1260	0.250	0.50	0.250	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,5,6-Tetrachloro-m-xylene	35.2	30 - 132	
Decachlorobiphenyl	32.8	36 - 144	*

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015
AAB # : WG98089
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

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Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG98089

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 30-MAY-01 23:58

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6020	12000	7800	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	85.6	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

Page 1 of 1

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG98089

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 31-MAY-01 00:12

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	5320	11000	7700	1	J

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	94.0	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

Page 1 of 1

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG98089

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 31-MAY-01 00:26

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	6330	13000	19000	1	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	86.1	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015 AAB # : WG98088

Lab Name : Kemron Environmental Services Contract # :

Base/Command : NAS Cecil Field Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S Tepe Name: Dennis S. Tepe

Date: 07-JUN-01 Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3510C AAB # : WG98088

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 16-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 30-MAY-01 22:19

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	263	530	263	1.05	ND

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	61.9	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG98187

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : NAS Cecil Field

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

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Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 07-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP 29-MAY-01

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 14:33

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.81	6.0	790	1	
Antimony, Total	0.542	12	0.542	1	ND
Barium, Total	0.0169	0.60	0.980	1	
Beryllium, Total	0.00964	0.60	0.00964	1	ND
Cadmium, Total	0.0386	0.60	0.0386	1	ND
Calcium, Total	3.40	12	180	1	
Chromium, Total	0.0723	1.2	1.70	1	
Cobalt, Total	0.0518	1.2	0.0518	1	ND
Copper, Total	0.175	1.2	0.175	1	ND
Iron, Total	1.35	2.4	110	1	
Magnesium, Total	5.51	30	21.0	1	J
Manganese, Total	0.00843	0.60	2.20	1	
Nickel, Total	0.125	2.4	0.480	1	J
Potassium, Total	7.11	60	8.70	1	J
Selenium, Total	0.308	1.2	0.308	1	ND
Silver, Total	0.124	2.4	0.124	1	ND
Sodium, Total	1.03	30	2.30	1	J
Thallium, Total	0.419	2.4	0.419	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25C88-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: IRIS-ICP

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 14:33

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.275	0.60	0.510	1	J
Zinc, Total	0.560	1.2	0.560	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: IRIS-ICP 29-MAY-01

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 14:23

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	3.36	5.3	1400	1	
Antimony, Total	0.479	11	0.479	1	ND
Barium, Total	0.0149	0.53	1.20	1	
Beryllium, Total	0.00851	0.53	0.0087	1	J
Cadmium, Total	0.034	0.53	0.034	1	ND
Calcium, Total	3.00	11	71.0	1	
Chromium, Total	0.0638	1.1	1.40	1	
Cobalt, Total	0.0457	1.1	0.098	1	J
Copper, Total	0.154	1.1	0.154	1	ND
Iron, Total	1.19	2.1	190	1	
Magnesium, Total	4.86	27	35.0	1	
Manganese, Total	0.00745	0.53	1.30	1	
Nickel, Total	0.111	2.1	0.680	1	J
Potassium, Total	6.28	53	19.0	1	J
Selenium, Total	0.272	1.1	0.370	1	J
Silver, Total	0.110	2.1	0.110	1	ND
Sodium, Total	0.914	27	3.70	1	J
Thallium, Total	0.370	2.1	0.370	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: IRIS-ICP

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 14:23

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.243	0.53	1.10	1	
Zinc, Total	0.495	1.1	0.495	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP 24-MAY-01

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 24-MAY-01 14:47

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	4.00	6.3	2200	1	
Antimony, Total	0.570	13	0.570	1	ND
Barium, Total	0.0177	0.63	2.60	1	
Beryllium, Total	0.0101	0.63	0.014	1	J
Cadmium, Total	0.0405	0.63	0.0405	1	ND
Calcium, Total	3.57	13	260	1	
Chromium, Total	0.0759	1.3	2.60	1	
Cobalt, Total	0.0544	1.3	0.120	1	J
Copper, Total	0.184	1.3	0.184	1	ND
Iron, Total	1.42	2.5	230	1	
Magnesium, Total	5.78	32	64.0	1	
Manganese, Total	0.00886	0.63	2.70	1	
Nickel, Total	0.132	2.5	0.840	1	J
Potassium, Total	7.47	63	31.0	1	J
Selenium, Total	0.324	1.3	0.360	1	J
Silver, Total	0.130	2.5	0.130	1	ND
Sodium, Total	1.09	32	9.30	1	J
Thallium, Total	0.441	2.5	0.441	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG98187

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: IRIS-ICP

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 24-MAY-01 14:47

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Vanadium, Total	0.289	0.63	1.00	1	
Zinc, Total	0.589	1.3	0.640	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG98336

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : NAS Cecil Field

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 07-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3005A AAB # : WG98336

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: PE-ICP 29-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 29-MAY-01 12:14

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Aluminum, Total	0.049	0.10	0.049	1	ND
Arsenic, Total	0.000796	0.004	0.000796	1	ND
Barium, Total	0.0016	0.01	0.0016	1	ND
Beryllium, Total	0.000035	0.01	0.000035	1	ND
Cadmium, Total	0.00071	0.01	0.00071	1	ND
Calcium, Total	0.0308	0.20	0.350	1	
Chromium, Total	0.000647	0.005	0.000647	1	ND
Cobalt, Total	0.00047	0.02	0.00047	1	ND
Copper, Total	0.0019	0.02	0.0019	1	ND
Iron, Total	0.0046	0.04	0.047	1	
Magnesium, Total	0.00991	0.50	0.077	1	J
Manganese, Total	0.00021	0.01	0.002	1	J
Nickel, Total	0.0036	0.04	0.0036	1	ND
Potassium, Total	0.250	1.0	0.250	1	ND
Silver, Total	0.00045	0.004	0.00045	1	ND
Sodium, Total	0.150	0.50	0.220	1	J
Vanadium, Total	0.0036	0.01	0.0036	1	ND
Zinc, Total	0.00317	0.02	0.018	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 6020A
AAB # : WG98247
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

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Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG98247

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: ELAN-ICP 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 16:56

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.301	0.60	0.301	10	ND
Lead, Total	0.301	0.60	0.741	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG98247

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: ELAN-ICP 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 17:08

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.266	0.53	0.266	10	ND
Lead, Total	0.266	0.53	0.713	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG98247

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: ELAN-ICP 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 17:25

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.316	0.63	0.316	10	ND
Lead, Total	0.316	0.63	1.35	10	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

Page 1 of 1

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **6020A**

AAB # : **WG98230**

Lab Name : **Kemron Environmental Services**

Contract # :

Base/Command : **NAS Cecil Field**

Prime Contractor : **CCI, Inc.**

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

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Signature: Dennis S. Tepe

Name: **Dennis S. Tepe**

Date: **07-JUN-01**

Title: **Laboratory Manager**

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6020A Preparatory Method: 3015 AAB # : WG98230

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: ELAN-ICP 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 12:20

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Antimony, Total	0.0005	0.001	0.0005	1	ND
Lead, Total	0.0005	0.001	0.0005	1	ND
Selenium, Total	0.0005	0.001	0.0005	1	ND
Thallium, Total	0.0001	0.0002	0.0001	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : **7471A**

AAB # : **WG98215**

Lab Name : **Kemron Environmental Services**

Contract # :

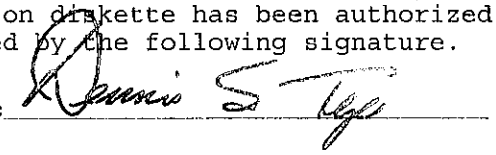
Base/Command : **NAS Cecil Field**

Prime Contractor : **CCI, Inc.**

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: **Dennis S. Tepe**

Date: **07-JUN-01**

Title: **Laboratory Manager**

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG98215

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: PS202 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 10:41

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0228	0.32	0.0228	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

Page 1 of 1

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG98215

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: PS202 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 10:35

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0217	0.30	0.0217	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 7471A Preparatory Method: METHOD AAB # : WG98215

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: PS202 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 10:39

Concentration Units: mg/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0191	0.27	0.0191	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

INORGANIC ANALYSES DATA PACKAGE

Analytical Method : 7470A

Lab Name : Kemron Environmental Services

Base/Command : NAS Cecil Field

AAB # : WG98240

Contract # :

Prime Contractor : CCI, Inc.

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S Tepe

Name: Dennis S. Tepe

Date: 07-JUN-01

Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
INORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 7470A Preparatory Method: METHOD AAB # : WG98240

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: PS202 25-MAY-01

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 25-MAY-01 12:30

Concentration Units: mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.000052	0.0002	0.000052	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
AAB # : WG98367
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25CS8-S-0522-01	L0105526-01
005-25CS9-S-0522-01	L0105526-02
005-25CS10-S-0522-01	L0105526-03

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3 22-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:36

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	39.2	200	39.2	1	ND
1,2-Dichlorobenzene	39.6	200	39.6	1	ND
1,3-Dichlorobenzene	38.5	200	38.5	1	ND
1,4-Dichlorobenzene	40.8	200	40.8	1	ND
2,4,5-Trichlorophenol	56.5	990	56.5	1	ND
2,4,6-Trichlorophenol	51.1	200	51.1	1	ND
2,4-Dichlorophenol	48.9	200	48.9	1	ND
2,4-Dimethylphenol	44.7	200	44.7	1	ND
2,4-Dinitrophenol	127	990	127	1	ND
2,4-Dinitrotoluene	51.0	200	51.0	1	ND
2,6-Dinitrotoluene	48.5	200	48.5	1	ND
2-Chloronaphthalene	47.8	200	47.8	1	ND
2-Chlorophenol	40.6	200	40.6	1	ND
2-Methylnaphthalene	44.0	200	44.0	1	ND
2-Methylphenol	76.1	200	76.1	1	ND
2-Nitroaniline	55.6	990	55.6	1	ND
2-Nitrophenol	39.0	200	39.0	1	ND
3,3'-Dichlorobenzidine	185	400	185	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil
% Solids: 83 Initial Calibration ID: HPMS3
Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:36
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Methylphenol	49.8	200	49.8	1	ND
3-Nitroaniline	86.9	990	86.9	1	ND
4,6-Dinitro-2-methylphenol	43.4	990	43.4	1	ND
4-Bromophenyl-phenylether	45.6	200	45.6	1	ND
4-Chloro-3-methylphenol	55.2	200	55.2	1	ND
4-Chloroaniline	64.0	200	64.0	1	ND
4-Chlorophenyl-phenyl ether	52.9	200	52.9	1	ND
4-Methylphenol	49.7	200	49.7	1	ND
4-Nitroaniline	48.0	990	48.0	1	ND
4-Nitrophenol	68.4	990	68.4	1	ND
Acenaphthene	50.1	200	50.1	1	ND
Acenaphthylene	50.8	200	50.8	1	ND
Anthracene	42.1	200	42.1	1	ND
Benzo(a)anthracene	34.6	200	34.6	1	ND
Benzo(a)pyrene	31.2	200	31.2	1	ND
Benzo(b)fluoranthene	33.5	200	33.5	1	ND
Benzo(g,h,i)Perylene	44.2	200	44.2	1	ND
Benzo(k)fluoranthene	40.8	200	40.8	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil
% Solids: 83 Initial Calibration ID: HPMS3
Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:36
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzoic acid	23.5	990	23.5	1	ND
Benzyl alcohol	71.4	200	71.4	1	ND
Bis(2-Chloroethoxy)Methane	56.9	200	56.9	1	ND
Bis(2-Chloroethyl)ether	48.6	200	48.6	1	ND
Butylbenzylphthalate	37.2	200	37.2	1	ND
Chrysene	48.8	200	48.8	1	ND
Di-N-Butylphthalate	37.6	200	37.6	1	ND
Di-n-octylphthalate	36.8	200	36.8	1	ND
Dibenzo(a,h)Anthracene	46.7	200	46.7	1	ND
Dibenzofuran	51.9	200	51.9	1	ND
Diethylphthalate	58.7	200	58.7	1	ND
Dimethylphthalate	54.8	200	54.8	1	ND
Fluoranthene	34.0	200	34.0	1	ND
Fluorene	53.1	200	53.1	1	ND
Hexachlorobenzene	48.0	200	48.0	1	ND
Hexachlorobutadiene	44.3	200	44.3	1	ND
Hexachlorocyclopentadiene	105	200	105	1	ND
Hexachloroethane	39.2	200	39.2	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS8-S-0522-01 Lab Sample ID: L0105526-01 Matrix: Soil

% Solids: 83 Initial Calibration ID: HPMS3

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:36

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Indeno(1,2,3-cd)pyrene	43.3	200	43.3	1	ND
Isophorone	52.3	200	52.3	1	ND
N-Nitrosodiphenylamine	57.2	200	57.2	1	ND
N-Nitrosodipropylamine	42.5	200	42.5	1	ND
Naphthalene	43.8	200	43.8	1	ND
Nitrobenzene	41.3	200	41.3	1	ND
Pentachlorophenol	24.4	990	24.4	1	ND
Phenanthrene	52.3	200	52.3	1	ND
Phenol	38.0	200	38.0	1	ND
Pyrene	36.6	200	36.6	1	ND
bis(2-Chloroisopropyl)ether	49.8	200	49.8	1	ND
bis(2-Ethylhexyl)phthalate	47.5	200	47.5	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	76.8	19 - 122	
2-Fluorobiphenyl	58.8	30 - 115	
2-Fluorophenol	53.3	25 - 121	
Nitrobenzene-d5	63.1	23 - 120	
Phenol-d5	59.0	24 - 113	
p-Terphenyl-d14	92.0	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS3 22-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 13:11

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	34.6	180	34.6	1	ND
1,2-Dichlorobenzene	35.0	180	35.0	1	ND
1,3-Dichlorobenzene	34.0	180	34.0	1	ND
1,4-Dichlorobenzene	36.0	180	36.0	1	ND
2,4,5-Trichlorophenol	49.9	880	49.9	1	ND
2,4,6-Trichlorophenol	45.1	180	45.1	1	ND
2,4-Dichlorophenol	43.2	180	43.2	1	ND
2,4-Dimethylphenol	39.5	180	39.5	1	ND
2,4-Dinitrophenol	113	880	113	1	ND
2,4-Dinitrotoluene	45.1	180	45.1	1	ND
2,6-Dinitrotoluene	42.8	180	42.8	1	ND
2-Chloronaphthalene	42.2	180	42.2	1	ND
2-Chlorophenol	35.9	180	35.9	1	ND
2-Methylnaphthalene	38.9	180	38.9	1	ND
2-Methylphenol	67.2	180	67.2	1	ND
2-Nitroaniline	49.1	880	49.1	1	ND
2-Nitrophenol	34.5	180	34.5	1	ND
3,3'-Dichlorobenzidine	163	350	163	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS3

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 13:11

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Methylphenol	43.9	180	43.9	1	ND
3-Nitroaniline	76.7	880	76.7	1	ND
4,6-Dinitro-2-methylphenol	38.4	880	38.4	1	ND
4-Bromophenyl-phenylether	40.2	180	40.2	1	ND
4-Chloro-3-methylphenol	48.7	180	48.7	1	ND
4-Chloroaniline	56.5	180	56.5	1	ND
4-Chlorophenyl-phenyl ether	46.7	180	46.7	1	ND
4-Methylphenol	43.9	180	43.9	1	ND
4-Nitroaniline	42.4	880	42.4	1	ND
4-Nitrophenol	60.4	880	60.4	1	ND
Acenaphthene	44.2	180	44.2	1	ND
Acenaphthylene	44.9	180	44.9	1	ND
Anthracene	37.2	180	37.2	1	ND
Benzo(a)anthracene	30.5	180	30.5	1	ND
Benzo(a)pyrene	27.5	180	27.5	1	ND
Benzo(b)fluoranthene	29.6	180	29.6	1	ND
Benzo(g,h,i)Perylene	39.0	180	39.0	1	ND
Benzo(k)fluoranthene	36.0	180	36.0	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil
% Solids: 94 Initial Calibration ID: HPMS3
Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 13:11
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzoic acid	20.7	880	20.7	1	ND
Benzyl alcohol	63.0	180	63.0	1	ND
Bis(2-Chloroethoxy)Methane	50.2	180	50.2	1	ND
Bis(2-Chloroethyl)ether	42.9	180	42.9	1	ND
Butylbenzylphthalate	32.8	180	32.8	1	ND
Chrysene	43.1	180	43.1	1	ND
Di-N-Butylphthalate	33.2	180	33.2	1	ND
Di-n-octylphthalate	32.5	180	32.5	1	ND
Dibenzo(a,h)Anthracene	41.2	180	41.2	1	ND
Dibenzofuran	45.8	180	45.8	1	ND
Diethylphthalate	51.8	180	51.8	1	ND
Dimethylphthalate	48.4	180	48.4	1	ND
Fluoranthene	30.0	180	30.0	1	ND
Fluorene	46.9	180	46.9	1	ND
Hexachlorobenzene	42.4	180	42.4	1	ND
Hexachlorobutadiene	39.1	180	39.1	1	ND
Hexachlorocyclopentadiene	92.7	180	92.7	1	ND
Hexachloroethane	34.6	180	34.6	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS9-S-0522-01 Lab Sample ID: L0105526-02 Matrix: Soil

% Solids: 94 Initial Calibration ID: HPMS3

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 13:11

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Indeno(1,2,3-cd)pyrene	38.2	180	38.2	1	ND
Isophorone	46.1	180	46.1	1	ND
N-Nitrosodiphenylamine	50.5	180	50.5	1	ND
N-Nitrosodipropylamine	37.5	180	37.5	1	ND
Naphthalene	38.7	180	38.7	1	ND
Nitrobenzene	36.4	180	36.4	1	ND
Pentachlorophenol	21.6	880	21.6	1	ND
Phenanthrene	46.2	180	46.2	1	ND
Phenol	33.5	180	33.5	1	ND
Pyrene	32.3	180	32.3	1	ND
bis(2-Chloroisopropyl)ether	43.9	180	43.9	1	ND
bis(2-Ethylhexyl)phthalate	42.0	180	42.0	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	68.7	19 - 122	
2-Fluorobiphenyl	50.7	30 - 115	
2-Fluorophenol	46.8	25 - 121	
Nitrobenzene-d5	54.9	23 - 120	
Phenol-d5	50.2	24 - 113	
p-Terphenyl-d14	80.0	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS3 22-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	41.2	210	41.2	1	ND
1,2-Dichlorobenzene	41.6	210	41.6	1	ND
1,3-Dichlorobenzene	40.4	210	40.4	1	ND
1,4-Dichlorobenzene	42.8	210	42.8	1	ND
2,4,5-Trichlorophenol	59.3	1000	59.3	1	ND
2,4,6-Trichlorophenol	53.7	210	53.7	1	ND
2,4-Dichlorophenol	51.4	210	51.4	1	ND
2,4-Dimethylphenol	47.0	210	47.0	1	ND
2,4-Dinitrophenol	134	1000	134	1	ND
2,4-Dinitrotoluene	53.6	210	53.6	1	ND
2,6-Dinitrotoluene	50.9	210	50.9	1	ND
2-Chloronaphthalene	50.2	210	50.2	1	ND
2-Chlorophenol	42.7	210	42.7	1	ND
2-Methylnaphthalene	46.3	210	46.3	1	ND
2-Methylphenol	79.9	210	79.9	1	ND
2-Nitroaniline	58.4	1000	58.4	1	ND
2-Nitrophenol	41.0	210	41.0	1	ND
3,3'-Dichlorobenzidine	194	420	194	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS3

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Methylphenol	52.3	210	52.3	1	ND
3-Nitroaniline	91.3	1000	91.3	1	ND
4,6-Dinitro-2-methylphenol	45.6	1000	45.6	1	ND
4-Bromophenyl-phenylether	47.9	210	47.9	1	ND
4-Chloro-3-methylphenol	58.0	210	58.0	1	ND
4-Chloroaniline	67.3	210	67.3	1	ND
4-Chlorophenyl-phenyl ether	55.6	210	55.6	1	ND
4-Methylphenol	52.2	210	52.2	1	ND
4-Nitroaniline	50.4	1000	50.4	1	ND
4-Nitrophenol	71.8	1000	71.8	1	ND
Acenaphthene	52.6	210	52.6	1	ND
Acenaphthylene	53.4	210	53.4	1	ND
Anthracene	44.3	210	44.3	1	ND
Benzo(a)anthracene	36.3	210	36.3	1	ND
Benzo(a)pyrene	32.8	210	32.8	1	ND
Benzo(b)fluoranthene	35.2	210	35.2	1	ND
Benzo(g,h,i)Perylene	46.4	210	46.4	1	ND
Benzo(k)fluoranthene	42.8	210	42.8	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367
Lab Name : Kemron Environmental Services Contract#:
Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil
% Solids: 79 Initial Calibration ID: HPMS3
Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:02
Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzoic acid	24.7	1000	24.7	1	ND
Benzyl alcohol	75.0	210	75.0	1	ND
Bis(2-Chloroethoxy)Methane	59.7	210	59.7	1	ND
Bis(2-Chloroethyl)ether	51.0	210	51.0	1	ND
Butylbenzylphthalate	39.1	210	39.1	1	ND
Chrysene	51.2	210	51.2	1	ND
Di-N-Butylphthalate	39.5	210	39.5	1	ND
Di-n-octylphthalate	38.7	210	38.7	1	ND
Dibenzo(a,h)Anthracene	49.1	210	49.1	1	ND
Dibenzofuran	54.5	210	54.5	1	ND
Diethylphthalate	61.6	210	61.6	1	ND
Dimethylphthalate	57.5	210	57.5	1	ND
Fluoranthene	35.7	210	35.7	1	ND
Fluorene	55.7	210	55.7	1	ND
Hexachlorobenzene	50.5	210	50.5	1	ND
Hexachlorobutadiene	46.6	210	46.6	1	ND
Hexachlorocyclopentadiene	110	210	110	1	ND
Hexachloroethane	41.2	210	41.2	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3550B AAB # : WG98367

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25CS10-S-0522-01 Lab Sample ID: L0105526-03 Matrix: Soil

% Solids: 79 Initial Calibration ID: HPMS3

Date Received: 23-MAY-01 Date Extracted: 23-MAY-01 Date Analyzed: 29-MAY-01 12:02

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Indeno(1,2,3-cd)pyrene	45.4	210	45.4	1	ND
Isophorone	54.9	210	54.9	1	ND
N-Nitrosodiphenylamine	60.1	210	60.1	1	ND
N-Nitrosodipropylamine	44.7	210	44.7	1	ND
Naphthalene	46.0	210	46.0	1	ND
Nitrobenzene	43.4	210	43.4	1	ND
Pentachlorophenol	25.7	1000	25.7	1	ND
Phenanthrene	55.0	210	55.0	1	ND
Phenol	39.9	210	39.9	1	ND
Pyrene	38.5	210	38.5	1	ND
bis(2-Chloroisopropyl)ether	52.3	210	52.3	1	ND
bis(2-Ethylhexyl)phthalate	49.9	210	49.9	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	88.6	19 - 122	
2-Fluorobiphenyl	60.6	30 - 115	
2-Fluorophenol	50.6	25 - 121	
Nitrobenzene-d5	62.2	23 - 120	
Phenol-d5	58.6	24 - 113	
p-Terphenyl-d14	93.5	18 - 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
AAB # : WG98142
Lab Name : Kemron Environmental Services
Contract # :
Base/Command : NAS Cecil Field
Prime Contractor : CCI

Field sample ID	Lab Sample ID
005-25EB2-W-0522-01	L0105526-04

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dennis S. Tepe
Name: Dennis S. Tepe
Date: 07-JUN-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98142

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5 24-MAY-2001

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 24-MAY-01 19:55

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1,2,4-Trichlorobenzene	1.97	5.0	1.97	1	ND
1,2-Dichlorobenzene	1.91	5.0	1.91	1	ND
1,3-Dichlorobenzene	1.82	5.0	1.82	1	ND
1,4-Dichlorobenzene	1.86	5.0	1.86	1	ND
2,4,5-Trichlorophenol	1.83	5.0	1.83	1	ND
2,4,6-Trichlorophenol	1.72	5.0	1.72	1	ND
2,4-Dichlorophenol	1.88	5.0	1.88	1	ND
2,4-Dimethylphenol	2.08	5.0	2.08	1	ND
2,4-Dinitrophenol	9.02	25	9.02	1	ND
2,4-Dinitrotoluene	1.42	5.0	1.42	1	ND
2,6-Dinitrotoluene	1.66	5.0	1.66	1	ND
2-Chloronaphthalene	1.93	5.0	1.93	1	ND
2-Chlorophenol	1.68	5.0	1.68	1	ND
2-Methylnaphthalene	2.06	5.0	2.06	1	ND
2-Methylphenol	1.65	5.0	1.65	1	ND
2-Nitroaniline	1.56	25	1.56	1	ND
2-Nitrophenol	1.60	5.0	1.60	1	ND
3,3'-Dichlorobenzidine	4.33	10	4.33	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98142

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 24-MAY-01 19:55

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
3-Methylphenol	1.54	5.0	1.54	1	ND
3-Nitroaniline	1.55	25	1.55	1	ND
4,6-Dinitro-2-methylphenol	2.23	25	2.23	1	ND
4-Bromophenyl-phenylether	2.21	5.0	2.21	1	ND
4-Chloro-3-methylphenol	1.77	5.0	1.77	1	ND
4-Chloroaniline	1.87	5.0	1.87	1	ND
4-Chlorophenyl-phenyl ether	1.74	5.0	1.74	1	ND
4-Methylphenol	1.54	5.0	1.54	1	ND
4-Nitroaniline	1.81	25	1.81	1	ND
4-Nitrophenol	1.64	25	1.64	1	ND
Acenaphthene	1.89	5.0	1.89	1	ND
Acenaphthylene	1.85	5.0	1.85	1	ND
Anthracene	2.11	5.0	2.11	1	ND
Benzo(a)anthracene	1.79	5.0	1.79	1	ND
Benzo(a)pyrene	1.78	5.0	1.78	1	ND
Benzo(b)fluoranthene	2.19	5.0	2.19	1	ND
Benzo(g,h,i)Perylene	3.16	5.0	3.16	1	ND
Benzo(k)fluoranthene	2.25	5.0	2.25	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98142

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 24-MAY-01 19:55

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzoic acid	4.64	25	4.64	1	ND
Benzyl alcohol	1.54	5.0	1.54	1	ND
Bis(2-Chloroethoxy)Methane	1.60	5.0	1.60	1	ND
Bis(2-Chloroethyl)ether	1.59	5.0	1.59	1	ND
Butylbenzylphthalate	2.17	5.0	2.17	1	ND
Chrysene	2.51	5.0	2.51	1	ND
Di-N-Butylphthalate	5.00	5.0	5.00	1	ND
Di-n-octylphthalate	2.04	5.0	2.04	1	ND
Dibenzo(a,h)Anthracene	3.53	5.0	3.53	1	ND
Dibenzofuran	1.86	5.0	1.86	1	ND
Diethylphthalate	1.87	5.0	1.87	1	ND
Dimethylphthalate	1.83	5.0	1.83	1	ND
Fluoranthene	2.15	5.0	2.15	1	ND
Fluorene	1.81	5.0	1.81	1	ND
Hexachlorobenzene	2.66	5.0	2.66	1	ND
Hexachlorobutadiene	2.35	5.0	2.35	1	ND
Hexachlorocyclopentadiene	2.61	5.0	2.61	1	ND
Hexachloroethane	1.99	5.0	1.99	1	ND

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ORGANIC ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3510C AAB # : WG98142

Lab Name : Kemron Environmental Services Contract#:

Field Sample ID: 005-25EB2-W-0522-01 Lab Sample ID: L0105526-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPMS5

Date Received: 23-MAY-01 Date Extracted: 24-MAY-01 Date Analyzed: 24-MAY-01 19:55

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Indeno(1,2,3-cd)pyrene	2.07	5.0	2.07	1	ND
Isophorone	1.79	5.0	1.79	1	ND
N-Nitroso-di-n-propylamine	1.54	5.0	1.54	1	ND
N-Nitrosodiphenylamine	4.27	5.0	4.27	1	ND
Naphthalene	2.79	5.0	2.79	1	ND
Nitrobenzene	1.61	5.0	1.61	1	ND
Pentachlorophenol	1.70	25	1.70	1	ND
Phenanthrene	1.76	5.0	1.76	1	ND
Phenol	0.730	5.0	0.730	1	ND
Pyrene	2.81	5.0	2.81	1	ND
bis(2-Chloroisopropyl)ether	1.80	5.0	1.80	1	ND
bis(2-Ethylhexyl)phthalate	2.47	5.0	2.47	1	ND

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	60.8	10 - 123	
2-Fluorobiphenyl	63.3	43 - 116	
2-Fluorophenol	35.0	21 - 100	
Nitrobenzene-d5	68.2	35 - 114	
Phenol-d5	25.6	10 - 94	
p-Terphenyl-d14	103	33 - 141	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

05/08/2001

ADH - ANGELA D. HURST
AJF - AMANDA J. FICKIESEN
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AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DCU - DAVID C. UNDERWOOD
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
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DLR - DIANNA L. RAUCH
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
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JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LBM - LAWRENCE B. MCSWEGAN
LKN - LINDA K. NEDEFF
LRR - LUCYNDA R. ROBERTS
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
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MMB - MAREN M. BEERY
MRR - MICHELLE R. RAUCH
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RVC - RUTH V. CALLIHAN
RWC - ROD W. CAMPBELL
SAM - SAMUAL A. MILLS
SJK - SINDY J. KINNEY
SKH - SHARON K. HANDSCHUMACHER
SLC - SHAWN L. COLE
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TM - TODD MCGINNIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc
List of Valid Qualifiers
December 15, 2000

Standard Qualifiers

These are KEMRON's Standard Report Qualifiers

A	See the report narrative
B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration >40% difference between The two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Re analysis confirms reported results
RE	Re analysis confirms sample matrix Interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out Of control limits
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less Than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

***** Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semiquantative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
148799-24

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	148799	Kemron Environmental Services	Jennifer Zimmerman, CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904 777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Grey Sites III - Site 25 Excavation Confirmation	CTO 005	2880	Jeff Wilmoth, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (740) 373-4071 FAX (740)-373-4835	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Bill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) EPA 8260 Volatiles	EPA 8270 Semi-Volatiles	EPA 8270 PAH Low	EPA 8081A Pesticides	EPA 0082 PCBs	TAL Metals As, Cd, Cr, Pb	FL PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	005-25CS8-S-0522-01	sample location CS-8	soil	05/22/01	10:30	III/C	7	x	x	x	x	x	x	x						
2	005-25CS9-S-0522-01	sample location CS-9	soil	05/22/01	10:40	III/C	7	x	x	x	x	x	x	x						
3	005-25CS10-S-0522-01	sample location CS-10	soil	05/22/01	11:00	III/C	7	x	x	x	x	x	x	x						
4	005-25EB2-W-0522-01	equip blank #2	wtr	05/22/01	11:20	III/C	7	x	x	x	x	x	x	x						
5	005-2TB2-W-05227-01	trip blank #2	wtr	05/22/01	--	III/C	7	x												
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Dave Keul, CCI/JAJES	FedEx Tracking #7909-3316-7095 & 7909-3316-7051	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Bill Canelos, CCI/JAJES W.J. Canelos	5/22/01	12:00	FedEx Tracking #7909-3316-7095 & 7909-3316-7051	5/22/01	12:00
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

KEMRON Internal Laboratory Chain of Custody

Work Order: L0105526 **Client:** CCI **# of Samples:** 5 **Due Date:** 5-30-01 **Page:** 1

Sample #	Analysis	Reason	Removed By ADT	Removed From	Moved To	Reliq. by	Ret'd By ADT	Ret'd To	Rec'd By	Reason
04A	PEST/PCB	EXT	CEB 5/23/01 @ 1348	WALKIN	ELAB	Au	JEA 0800 10/24/01	dumpster	DJP	disposal
01-03A	MET	DIG	@1545 ED 05-23-01	walkin	DIG	Brq	STK 05-24-01 @1440	Archive	Brq	Archive
04A	MET	DIG	@1545 ED 05-23-01	walkin	DIG	Brq	STK 05-25-01 @805	Archive	DJW	Archive
1-3	8260	AN	MCJ 1550 5-23-01	V-1	ORG-4	ars	AMS 6-7-01 @1525	Archive	AMS	archive
4,5	8260	AN	MCJ 1550 5-23-01	V-1	ORG-4	ars	AMS 6-7-01 @1525	archive	AMS	archive
4A	827-PAHL	EXT	JAQ 5/23/01 16:30	walkin	Elab	Brq	JEA 0800 10/24/01	dumpster	DJP	disposal
1-3A	PEST/PCB/GNA/AA	EXT	CEB 5/23/01 @ 1609	WALKIN	ELAB	Brq	DCJ 5/24/01 @2350	WalkIn	JAQ	Storage
4A, 4B	FLA-PRO	EXT	JAQ 5/24/01 17:05	walkin	Elab	AMS	JEA 0800 10/24/01	dumpster	DJP	disposal
04A	8270	EXT	DCJ 5/24/01 @0730	walkin	ELAB	NS	JAQ 0829 5-25-01	Dumpster	SAM	Disposal
1-3A	PCT-5	test	Tmm @840 5/24/01	walkin	wet	Brq	Tmm @840 5/24/01	archive	Brq	archive
1-3A	PAHL	EXT	MCJ 5/24/01 @1250	walkin	ELAB	Brq	CEB 5/24/01 @ 1311	Archive	NS	Storage

KEMRON Environmental Services | SAMPLES RECEIPT FORM #1 | Marietta Laboratory

CLIENT: CCI	DATE: 5-23-01	SHIPPED BY: (X) FED-EX ( ) AIRBORNE ( ) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

BRG ARS Other

COOLER ID: KL879	COOLER ID: KL811	COOLER ID: KL1060
INDEX # : 790933167051	INDEX # : 790933167095	INDEX # : 791565546971
SEALED ( ) YES ( ) NO	SEALED (X) YES ( ) NO	SEALED (X) YES ( ) NO
CUSTODY ( ) YES (X) NO	CUSTODY ( ) YES (X) NO	CUSTODY ( ) YES (X) NO
TEMP : (C) (D) 1 °C	TEMP : (C) (D) 1 °C	TEMP : (C) (D) °C
TEMP IN RANGE (4°C ± 2°) ( ) YES (X) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES (X) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE (X) BLUE ICE ( )	WET ICE (X) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN (X) MELTED ( )	ICE FROZEN (X) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (X) YES ( ) NO	RADIATION CHECKED (X) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (X) YES ( ) NO	SAMPLE INTACT (X) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO
SALVAGEBLE ( ) YES ( ) NO	SALVAGEBLE ( ) YES ( ) NO	SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (X) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER (X) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (X) YES ( ) NO	LABELS: INTACT (X) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO
LEGIBLE (X) YES ( ) NO	LEGIBLE (X) YES ( ) NO	LEGIBLE ( ) YES ( ) NO
MATCH COC (X) YES ( ) NO	MATCH COC (X) YES ( ) NO	MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) AS APPROPRIATE (X) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE (X) YES ( ) NO	pH IN RANGE (2 - >9 - >12) AS APPROPRIATE ( ) YES ( ) NO
LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS
	Encores	
water	Soils/TB	

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 02/21/01

CRF#4

Sample Receipt Form #2

Client: CCI Project: _____

Date Received: 5-23-01

_____ Cooler temperature > than 6 degrees Celcius

Reason _____

_____ Samples received not on chain of custody

_____ Samples on chain of custody not received

_____ Information on sample containers different from chain of custody

✓ Sample containers received broken, leaking or not sealed (List sample ID)

005-20S10-15-05221 - 1 encore envelope had water in it - 3 soil jars are very moist. Water was standing about 1 inch deep in baggie.

_____ pH out (List sample ID & which container)

_____ Insufficient sample volume

_____ Air bubbles present in Voa vials (List sample ID)

_____ Hold time expired (List sample ID)

TSR:

Was client notified regarding information: YES NO

Name of person contacted: Bill Canelos Company: CCI

TSR: ~~Er~~ Nina Scott Date: 5-23-01

Attach: Phone Logs, e-mails, faxes, etc.

See phone LOG

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2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

REPORT NARRATIVE
GC/MS VOLATILE ORGANICS

KEMRON Login No: L0105526

METHOD

Preparation: SW- 846 5030B
Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS analyzed on 05/24/01 on HPMS-6 yielded a % recovery for carbon disulfide that was below the lower advisory limit. All other acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: MES REVIEWED: Stephanie A Segre DATE: 5/31/01

VOLATILES GC/MS DATA

Login Number: L0105526

A. QC Summary

✓ Batch QC Summary Forms
✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

✓ Target Compound List Results - See Summary Report
na Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
✓ Reconstructed total ion chromatograph (RIC) and quantitation report for each sample
✓ Raw spectra and background subtracted mass spectra of target compounds identified
na Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

✓ Initial calibration data summary form
✓ Chromatograms and quantitation reports for initial calibration standards
✓ Continuing calibration data summary form
✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

✓ GC/MS Instrument Performance Check (BFB)
✓ Blank chromatogram and quantitation report
✓ Laboratory Control Sample chromatogram and quantitation report
na Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
✓ Instrument runlogs
na 5035 preservation logs

Checked By: cwritis **Date:** 5-30-01

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2.1.1.1 QC Summary

VOA - GC/MS

Date: 5.24.01 **Analyst:** cms **Method:** 8260 624

Instrument: HPMS 6 **Work Group:** WG 98069

	Analyst
System Performance Check	✓
BFB	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source standard % Difference	✓
Continuing Calibration / Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Spectra of TCL Hits	✓
Surrogates	✓
Internal Standards Criteria	✓
Calculations & Correct Factors	✓
Dilutions Run	✓
Reruns	✓
Excel Spreadsheets	✓
Case Narrative	
Narrative Summary	✓
Results Reporting / Data Qualifiers	✓
Client Data Package Assembly	
Check for Completeness	✓

Primary Reviewers Initials & Date Checked: RJ 5.24.01

Secondary Reviewers Initials & Date Checked: SCT 5/24/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked: _____

Comments: _____

✓ = Checked & OK
NA = Not Applicable

VOA - GC/MS

Date: 5.23.01 **Analyst:** MES **Method:** (8260) 624

Instrument: HPMS9 **Work Group:** WG 98011

	Analyst
System Performance Check	✓
BFB	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source standard % Difference	✓
Continuing Calibration / Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	NA
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Spectra of TCL Hits	✓
Surrogates	✓
Internal Standards Criteria	✓
Calculations & Correct Factors	✓
Dilutions Run	
Reruns	
Excel Spreadsheets	✓
Case Narrative	
Narrative Summary	✓
Results Reporting / Data Qualifiers	✓
Client Data Package Assembly	
Check for Completeness	✓

Primary Reviewers Initials & Date Checked: MS 5.25.01

Secondary Reviewers Initials & Date Checked: SLT 5/25/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
✓ • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked: _____

Comments: _____

✓ = Checked & OK
NA = Not Applicable

Volatile Quality Control Summary - 8260

Workgroup: WG98011 **Run Date:** 5/23/01 **Sample Number:** 05-504-02 **LCS DF:** 1.0
Method: 8260B **Instrument:** HPMS9 **Sample Filename:** 9M15745.D **Sample DF:** 0.9
Matrix: Soil **Blank Filename:** 9M15739.D **MS Filename:** 9M15746.D **MS DF:** 0.9
Units: ug/kg **LCS Filename:** 9M15740.D **MSD Filename:** 9M15747.D **MSD DF:** 0.9

		CONCENTRATION, ug/kg						PERCENT RECOVERY									OUTLIERS				
Target Analytes	MDL ug/kg	Blank ug/kg	LCS ug/kg	Sample ug/kg	MS ug/kg	MSD ug/kg	Spike Level ug/kg	Blank %	LCS %	Sample %	MS %	MSD %	LCL %	UCL %	MS RPD %	RPD UCL %	Blank	LCS	MS	MSD	RPD
dichlorodifluoromethane	1.00	ND	15.53	ND	11.57	9.54	18.0	ND	77.7	ND	64.3	53.0	70.0	130.0	19.2	28.0			L	L	
chloromethane	2.00	ND	22.10	ND	15.74	11.78	18.0	ND	110.5	ND	87.4	65.4	32.0	189.0	28.8	96.0					
vinyl chloride	1.00	ND	19.64	ND	14.12	11.25	18.0	ND	98.2	ND	78.4	62.5	59.0	172.0	22.6	69.0					
bromomethane	1.00	ND	25.11	ND	16.60	13.64	18.0	ND	125.6	ND	92.2	75.8	38.0	164.0	19.6	77.0					
chloroethane	1.00	ND	22.01	ND	15.68	13.00	18.0	ND	110.1	ND	87.1	72.2	46.0	175.0	18.7	80.0					
trichlorofluoromethane	1.00	ND	20.15	ND	14.45	11.83	18.0	ND	100.8	ND	80.3	65.7	37.0	168.0	19.9	22.0					
acetone	2.50	ND	18.41	25.04	34.92	24.51	18.0	ND	92.1	25.04	54.9	NA	10.0	179.0	NA	51.0				L	
1,1-dichloroethene	0.50	ND	22.29	ND	18.37	16.48	18.0	ND	111.5	ND	102.1	91.6	70.0	137.0	10.8	32.0					
iodomethane	1.00	ND	30.39	ND	27.44	24.66	18.0	ND	152.0	ND	152.4	137.0	10.0	247.0	10.7	164.0					
methylene chloride	1.00	ND	21.75	ND	16.38	13.12	18.0	ND	108.8	ND	91.0	72.9	70.0	131.0	22.1	36.0					
carbon disulfide	0.50	ND	17.82	ND	13.93	13.16	18.0	ND	89.1	ND	77.4	73.1	49.0	154.0	5.7	64.0					
methyl-tert-butyl ether	0.50	ND	19.83	ND	16.62	13.02	18.0	ND	99.2	ND	92.3	72.3	62.1	NA	24.3	52.0					
trans-1,2-dichloroethene	0.50	ND	23.04	ND	18.04	15.39	18.0	ND	115.2	ND	100.2	85.5	70.0	130.0	15.9	26.0					
n-hexane	0.50	ND	23.85	ND	17.52	13.66	18.0	ND	119.3	ND	97.3	75.9	51.0	151.0	24.8	61.0					
vinyl acetate	1.00	ND	13.15	ND	10.28	8.77	18.0	ND	65.8	ND	57.1	48.7	10.0	179.0	15.9	105					
1,1-dichloroethane	1.00	ND	22.66	ND	17.11	14.31	18.0	ND	113.3	ND	95.1	79.5	70.0	130.0	17.8	26.0					
2-butanone	2.50	ND	18.63	ND	19.24	2.03	18.0	ND	93.2	ND	106.9	11.3	29.0	159.0	161.8	79.0				L	H
2,2-dichloropropane	0.50	ND	21.90	ND	16.30	13.80	18.0	ND	109.5	ND	90.6	76.7	70.0	136.0	16.6	35.0					
cis-1,2-dichloroethene	0.50	ND	22.27	0.53	20.27	15.98	18.0	ND	111.4	0.53	109.7	85.8	70.0	130.0	23.7	29.0					
chloroform	0.50	ND	23.52	ND	16.63	13.44	18.0	ND	117.6	ND	92.4	74.7	70.0	131.0	21.2	29.0					
bromochloromethane	0.50	ND	22.87	ND	16.55	13.35	18.0	ND	114.4	ND	91.9	74.2	65.0	140.0	21.4	56.0					
1,1,1-trichloroethane	0.50	ND	22.12	ND	16.19	13.39	18.0	ND	110.6	ND	89.9	74.4	70.0	138.0	18.9	36.0					
1,1-dichloropropene	0.50	ND	20.64	ND	16.59	14.49	18.0	ND	103.2	ND	92.2	80.5	70.0	159.0	13.5	43.0					
carbon tetrachloride	0.50	ND	22.70	ND	15.59	12.53	18.0	ND	113.5	ND	86.6	69.6	70.0	144.0	21.8	41.0				L	
1,2-dichloroethane	0.50	ND	22.78	ND	14.82	11.47	18.0	ND	113.9	ND	82.3	63.7	70.0	130.0	25.5	51.0				L	
benzene	0.50	ND	23.64	32.87	42.79	47.32	18.0	ND	118.2	32.87	55.1	80.3	70.0	130.0	10.1	20.0			L		
trichloroethene	0.50	ND	23.18	3.73	18.82	17.99	18.0	ND	115.9	3.73	83.8	79.2	70.0	130.0	4.5	22.0					
1,2-dichloropropane	0.50	ND	22.25	ND	17.09	14.02	18.0	ND	111.3	ND	94.9	77.9	70.0	130.0	19.7	25.0					
bromodichloromethane	0.50	ND	22.74	ND	16.03	13.08	18.0	ND	113.7	ND	89.1	72.7	70.0	136.0	20.3	31.0					
dibromomethane	0.50	ND	23.44	ND	16.07	12.50	18.0	ND	117.2	ND	89.3	69.4	70.0	130.0	25.0	28.0				L	
2-chloroethylvinyl ether	0.50	ND	18.48	ND	18.75	17.26	18.0	ND	92.4	ND	104.2	95.9	10.0	246.0	8.3	182.0					
4-methyl-2-pentanone	2.50	ND	19.49	ND	16.99	58.24	18.0	ND	97.5	ND	94.4	323.6	45.0	153.0	109.7	67.0				H	H
cis-1,3-dichloropropene	0.50	ND	21.06	ND	15.44	13.03	18.0	ND	105.3	ND	85.8	72.4	70.0	141.0	16.9	39.0					
toluene	0.50	ND	22.69	ND	14.92	13.58	18.0	ND	113.5	ND	82.9	75.4	70.0	130.0	9.4	26.0					
trans-1,3-dichloropropene	0.50	ND	17.94	ND	11.67	9.20	18.0	ND	89.7	ND	64.8	51.1	70.0	130.0	23.7	27.0			L	L	
1,1,2-trichloroethane	0.50	ND	18.63	ND	13.16	8.61	18.0	ND	93.2	ND	73.1	47.8	70.0	130.0	41.8	22.0				L	H
2-hexanone	2.50	ND	13.27	ND	25.21	135.76	18.0	ND	66.4	ND	140.1	754.2	42.0	138.0	137.4	59.0			H	H	H
1,3-dichloropropane	0.50	ND	17.81	ND	12.81	10.40	18.0	ND	89.1	ND	71.2	57.8	70.0	130.0	20.8	24.0				L	
tetrachloroethene	0.50	ND	20.38	ND	13.03	11.40	18.0	ND	101.9	ND	72.4	63.3	70.0	130.0	13.3	24.0				L	
dibromochloromethane	0.50	ND	17.87	ND	12.04	9.36	18.0	ND	89.4	ND	66.9	52.0	70.0	130.0	25.0	29.0			L	L	
1,2-dibromoethane	0.50	ND	18.24	ND	13.78	10.94	18.0	ND	91.2	ND	76.6	60.8	70.0	130.0	23.0	22.0				L	H
1-chlorohexane	0.50	ND	19.57	ND	12.70	10.82	18.0	ND	97.9	ND	70.6	60.1	70.0	139.0	16.0	40.0				L	
chlorobenzene	0.50	ND	21.08	196.30	100.87	263.28	18.0	ND	105.4	196.3	NA	372.1	70.0	130.0	89.2	20.0			L	H	H
1,1,1,2-tetrachloroethane	0.50	ND	19.17	ND	11.97	9.26	18.0	ND	95.9	ND	66.5	51.4	70.0	131.0	25.5	29.0			L	L	
ethylbenzene	0.50	ND	22.39	3.10	14.77	19.66	18.0	ND	112.0	3.1	64.8	92.0	70.0	130.0	28.4	20.0			L		H
m+p-xylene	0.50	ND	48.49	ND	28.84	22.10	36.0	ND	121.2	ND	80.1	61.4	70.0	130.0	26.5	33.0				L	
o-xylene	0.50	ND	23.18	ND	15.19	11.50	18.0	ND	115.9	ND	84.4	63.9	70.0	130.0	27.7	21.0				L	H
styrene	0.50	ND	22.20	ND	14.20	10.82	18.0	ND	111.0	ND	78.9	60.1	70.0	130.0	27.0	26.0				L	H
bromoform	0.50	ND	18.66	ND	11.58	8.64	18.0	ND	93.3	ND	64.3	48.0	70.0	130.0	29.1	33.0			L	L	
isopropylbenzene	0.30	ND	21.18	51.07	31.98	134.97	18.0	ND	105.9	51.1	NA	466.1	85.0	124.0	123.4	15.0			L	H	H
1,1,2,2-tetrachloroethane	0.50	ND	17.17	ND	23.65	96.82	18.0	ND	85.9	ND	131.4	537.9	70.0	130.0	121.5	28.0			H	H	H
1,2,3-trichloropropane	0.64	ND	17.98	ND	15.25	10.62	18.0	ND	89.9	ND	84.7	59.0	70.0	130.0	35.8	28.0				L	H
propyl-benzene	0.50	ND	21.04	115.72	51.91	255.42	18.0	ND	105.2	115.7	NA	776.1	70.0	130.0	132.4	26.0			L	H	H
bromobenzene	0.50	ND	20.01	ND	12.67	20.92	18.0	ND	100.1	ND	70.4	116.2	70.0	130.0	49.1	22.0					H
1,3,5-trimethylbenzene	0.50	ND	20.83	5.70	13.45	26.35	18.0	ND	104.2	5.7	43.1	114.7	70.0	130.0	64.8	22.0			L		H
2-chlorotoluene	0.50	ND	20.90	ND	11.51	5.76	18.0	ND	104.5	ND	63.9	32.0	70.0	130.0	66.6	24.0			L	L	H
4-chlorotoluene	0.50	ND	22.28	ND	10.63	9.18	18.0	ND	111.4	ND	59.1	51.0	70.0	130.0	14.6	23.0			L	L	
tert-butyl-benzene	0.50	ND	19.15	8.82	13.86	27.77	18.0	ND	95.8	8.8	28.0	105.3	70.0	130.0	66.8	30.0			L		H
1,2,4-trimethylbenzene	0.50	ND	21.26	8.48	11.56	41.80	18.0	ND	106.3	8.5	17.1	185.1	70.0	130.0	113.3	22.0			L	H	H
sec-butyl-benzene	0.50	ND	20.55	53.29	31.05	167.24	18.0	ND	102.8	53.3	NA	633.1	70.0	130.0	137.4	26.0			L	H	H
p-isopropyl-toluene	0.50	ND	19.40	3.14	9.86	54.72	18.0	ND	97.0	3.1	37.3	286.6	70.0	130.0	138.9	21.0			L	H	H
1,3-dichlorobenzene	0.50	ND	20.86	ND	11.62	11.71	18.0	ND	104.3	ND	64.6	65.1	70.0	130.0	0.8	20.0			L	L	
1,4-dichlorobenzene	0.50	ND	20.10	9.58	12.87	20.05	18.0	ND	100.5	9.6	18.3	58.2	70.0	130.0	43.6	20.0			L	L	H
n-butyl-benzene	0.50	ND	22.72	73.00	36.43	227.74	18.0	ND	113.6	73.0	NA	859.7	70.0	130.0	144.8	29.0			L	H	H
1,2-dichlorobenzene	0.50	ND	20.83	4.67	12.76	17.14	18.0	ND	104.2	4.7	44.9	69.3	70.0	130.0	29.3	20.0			L	L	H
1,2-dibromo-3-chloropropane	0.50	ND	18.48	ND	13.45	11.44	18.0	ND	92.4	ND	74.7	63.6	63.0	131.0	16.2	20.0					
1,2,4-trichlorobenzene	0.50	0.52	21.48	ND	10.86	7.14	18.0	0.52	107.4	ND	60.3	39.7	70.0	130.0	41.3	25.0			L	L	H
hexachlorobutadiene	0.50	ND	21.07	ND	7.45	4.19	18.0	ND	105.4	ND	41.4	23.3	70.0	130.0	56.0	29.0			L	L	H
naphthalene	0.50	0.82	21.53	250.79	32.94	276.47	18.0	0.82	107.7	250.8	NA	142.7	59.0	130.0	157.4	43.0			L	H	H
1,2,3-trichlorobenzene	0.50	0.52	21.48	ND	10.86	7.14	18.0	0.52	107.4	ND	60.3	39.7	70.0	130.0	41.3	29.0			L	L	H
Surrogates																					
dibromofluoromethane		50.18	48.22	45.37	44.72	44.31	50.0	100.4	96.4	90.7	89.4	88.6	80	120							
1,2-dichloroethane-d4		51.31	49.97	45.47	42.95	43.04	50.0	102.6	99.9	90.9	85.9	86.1	80	120							
toluene-d8		46.31	46.65	46.51	44.51	48.14	50.0	92.6	93.3	93.0	89.0	96.3	81	117							
p-bromofluorobenzene		50.17	47.06	67.11	55.74	127.28	50.0	100.3	94.1	134.2	111.5	254.6	74	121						H	

Notes and Definitions:

RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected
NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference
H=Above control limit
L=Below control limit
DF=Dilution Factor

Volatile Quality Control Summary - 8260

Workgroup: WG98069
Method: 8260B
Matrix: WATER
Units: ug/L

Run Date: 5/24/2001
Instrument: HPMS6
Blank Filename: 6M25928.D
LCS Filename: 6M25929.D

Sample Number: 05-525-01
Sample Filename: 6M25939.D
MS Filename: 6M25940.D
MSD Filename: 6M25941.D

LCS DF: 1
Sample DF: 1
MS DF: 1
MSD DF: 1

		CONCENTRATION, ug/L						PERCENT RECOVERY									OUTLIERS				
	MDL	Blank	LCS	Sample	MS	MSD	Spike Level	Blank	LCS	Sample	MS	MSD	LCL	UCL	MS RPD	RPD UCL	Blank	LCS	MS	MSD	RPD
Target Analytes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	%	%	%	%	%	%	%	%	%					
dichlorodifluoromethane	0.25	ND	17.64	ND	12.60	11.91	20.0	ND	88.2	ND	63.0	59.6	34.0	202.0	5.6	30.0					
chloromethane	0.25	ND	19.04	ND	13.98	12.77	20.0	ND	95.2	ND	69.9	63.9	44.0	182.0	9.0	85.0					
vinyl chloride	0.25	ND	21.18	ND	16.50	13.84	20.0	ND	105.9	ND	82.5	69.2	61.0	164.0	17.5	63.0					
bromomethane	0.50	ND	19.46	ND	12.60	12.80	20.0	ND	97.3	ND	63.0	64.0	64.2	140.0	1.6	58.0			L	L	
chloroethane	0.50	ND	20.43	ND	15.20	14.34	20.0	ND	102.2	ND	76.0	71.7	74.0	148.0	5.8	47.0				L	
trichlorofluoromethane	0.25	ND	21.04	ND	15.88	14.21	20.0	ND	105.2	ND	79.4	71.1	50.0	157.0	11.1	65.0					
acetone	2.50	ND	18.31	ND	15.20	15.02	20.0	ND	91.6	ND	76.0	75.1	39.0	149.0	1.2	67.0					
1,1-dichloroethene	0.50	ND	19.05	ND	14.01	13.17	20.0	ND	95.3	ND	70.1	65.9	80.0	138.0	6.2	34.0			L	L	
iodomethane	0.50	ND	22.19	ND	14.74	17.53	20.0	ND	111.0	ND	73.7	87.7	10.0	274.0	17.3	171.0					
methylene chloride	0.25	ND	18.72	ND	14.34	14.23	20.0	ND	93.6	ND	71.7	71.2	80.0	123.0	0.8	24.0			L	L	
carbon disulfide	0.50	ND	13.15	ND	9.64	9.05	20.0	ND	65.8	ND	48.2	45.3	71.0	143.0	6.3	44.0		L	L	L	
methyl-tert-butyl ether	0.50	ND	18.90	ND	16.87	17.47	20.0	ND	94.5	ND	84.4	87.4	78.0	140.0	3.5	38.0					
trans-1,2-dichloroethene	0.25	ND	19.63	ND	14.56	13.69	20.0	ND	98.2	ND	72.8	68.5	80.0	128.0	6.2	25.0			L	L	
n-hexane	0.56	ND	19.32	ND	12.34	11.43	20.0	ND	96.6	ND	61.7	57.2	68.0	137.0	7.7	42.0			L	L	
vinyl acetate	2.50	ND	19.27	ND	15.80	16.55	20.0	ND	96.4	ND	79.0	82.8	20.0	196.0	4.6	108.0					
1,1-dichloroethane	0.13	ND	19.52	ND	15.01	13.97	20.0	ND	97.6	ND	75.1	69.9	80.0	124.0	7.2	25.0			L	L	
2-butanone	2.50	ND	20.27	ND	14.90	15.84	20.0	ND	101.4	ND	74.5	79.2	53.0	146.0	6.1	57.0					
2,2-dichloropropane	0.25	ND	20.11	ND	14.98	13.67	20.0	ND	100.6	ND	74.9	68.4	78.0	137.0	9.1	36.0			L	L	
cis-1,2-dichloroethene	0.25	ND	19.79	ND	15.20	14.51	20.0	ND	99.0	ND	76.0	72.6	80.0	122.0	4.6	22.0			L	L	
chloroform	0.13	ND	19.91	ND	15.63	14.59	20.0	ND	99.6	ND	78.2	73.0	80.0	125.0	6.9	22.0			L	L	
bromochloromethane	0.20	ND	19.47	ND	15.68	15.36	20.0	ND	97.4	ND	78.4	76.8	80.0	130.0	2.1	29.0			L	L	
1,1,1-trichloroethane	0.25	ND	20.59	ND	15.44	14.18	20.0	ND	103.0	ND	77.2	70.9	80.0	135.0	8.5	29.0			L	L	
1,1-dichloropropene	0.25	ND	18.94	ND	13.43	12.70	20.0	ND	94.7	ND	67.2	63.5	80.0	154.0	5.6	33.0			L	L	
carbon tetrachloride	0.25	ND	21.87	ND	16.13	14.57	20.0	ND	109.4	ND	80.7	72.9	80.0	140.0	10.2	34.0				L	
1,2-dichloroethane	0.25	ND	20.06	ND	16.81	16.13	20.0	ND	100.3	ND	84.1	80.7	81.0	136.0	4.1	34.0				L	
benzene	0.13	ND	20.35	ND	15.10	14.35	20.0	ND	101.8	ND	75.5	71.8	80.0	123.0	5.1	24.0			L	L	
trichloroethene	0.25	ND	20.21	ND	14.49	13.77	20.0	ND	101.1	ND	72.5	68.9	80.0	125.0	5.1	22.0			L	L	
1,2-dichloropropane	0.25	ND	18.63	ND	14.47	14.10	20.0	ND	93.2	ND	72.4	70.5	80.0	128.0	2.6	28.0			L	L	
bromodichloromethane	0.25	ND	21.28	ND	16.85	16.39	20.0	ND	106.4	ND	84.3	82.0	80.0	132.0	2.8	25.0					
dibromomethane	0.25	ND	20.33	ND	17.19	16.82	20.0	ND	101.7	ND	86.0	84.1	80.0	127.0	2.2	27.0					
2-chloroethylvinyl ether	10.00	ND	16.06	ND	2.73	0.00	20.0	ND	80.3	ND	13.7	0.0	10.0	294.0	200.0	246.0				L	
4-methyl-2-pentanone	2.50	ND	16.87	ND	13.06	13.80	20.0	ND	84.4	ND	65.3	69.0	63.1	132.0	5.5	52.0					
cis-1,3-dichloropropene	0.25	ND	21.83	ND	17.03	16.88	20.0	ND	109.2	ND	85.2	84.4	80.0	139.0	0.9	26.0					
toluene	0.25	ND	21.79	ND	15.09	14.26	20.0	ND	109.0	ND	75.5	71.3	80.0	128.0	5.7	29.0			L	L	
trans-1,3-dichloropropene	0.50	ND	22.08	ND	16.95	16.66	20.0	ND	110.4	ND	84.8	83.3	80.0	126.0	1.7	26.0					
1,1,2-trichloroethane	0.13	ND	20.99	ND	15.92	16.16	20.0	ND	105.0	ND	79.6	80.8	73.0	128.0	1.5	34.0					
2-hexanone	2.50	ND	18.20	ND	13.57	14.94	20.0	ND	91.0	ND	67.9	74.7	56.0	135.0	9.6	48.0					
1,3-dichloropropane	0.20	ND	20.62	ND	15.75	15.66	20.0	ND	103.1	ND	78.8	78.3	80.0	126.0	0.6	27.0			L	L	
tetrachloroethene	0.25	ND	21.71	ND	14.55	13.43	20.0	ND	108.6	ND	72.8	67.2	80.0	126.0	8.0	27.0			L	L	
dibromochloromethane	0.25	ND	21.40	ND	16.20	16.13	20.0	ND	107.0	ND	81.0	80.7	80.0	133.0	0.4	29.0					
1,2-dibromoethane	0.25	ND	21.28	ND	16.12	16.59	20.0	ND	106.4	ND	80.6	83.0	26.0	187.0	2.9	99.0					
1-chlorohexane	0.13	ND	20.60	ND	14.27	13.29	20.0	ND	103.0	ND	71.4	66.5	80.0	133.0	7.1	31.0			L	L	
chlorobenzene	0.13	ND	19.99	ND	14.20	13.56	20.0	ND	100.0	ND	71.0	67.8	80.0	120.0	4.6	21.0			L	L	
1,1,1,2-tetrachloroethane	0.25	ND	22.78	ND	16.53	15.92	20.0	ND	113.9	ND	82.7	79.6	80.0	130.0	3.8	27.0				L	
ethylbenzene	0.25	ND	20.77	ND	14.31	13.21	20.0	ND	103.9	ND	71.6	66.1	80.0	121.0	8.0	22.0			L	L	
m+p-xylene	0.50	ND	42.35	ND	29.37	27.03	40.0	ND	105.9	ND	73.4	67.6	80.0	124.0	8.3	52.0			L	L	
o-xylene	0.25	ND	21.80	ND	15.23	14.27	20.0	ND	109.0	ND	76.2	71.4	80.0	120.0	6.5	18.0			L	L	
styrene	0.13	ND	21.86	ND	15.61	14.87	20.0	ND	109.3	ND	78.1	74.4	80.0	121.0	4.9	20.0			L	L	
bromoform	0.54	ND	19.00	ND	15.03	14.98	20.0	ND	95.0	ND	75.2	74.9	75.0	132.0	0.3	34.0				L	
isopropylbenzene	0.25	ND	20.71	ND	13.99	12.80	20.0	ND	103.6	ND	70.0	64.0	80.0	121.0	8.9	24.0			L	L	
1,1,2,2-tetrachloroethane	0.13	ND	20.46	ND	16.39	16.52	20.0	ND	102.3	ND	82.0	82.6	73.0	128.0	0.8	34.0					
1,2,3-trichloropropane	0.75	ND	22.17	ND	18.16	17.83	20.0	ND	110.9	ND	90.8	89.2	78.0	130.0	1.8	32.0					
propyl-benzene	0.13	ND	22.02	ND	15.39	13.56	20.0	ND	110.1	ND	77.0	67.8	79.0	127.0	12.6	29.0			L	L	
bromobenzene	0.13	ND	21.06	ND	15.74	14.87	20.0	ND	105.3	ND	78.7	74.4	80.0	120.0	5.7	22.0			L	L	
1,3,5-trimethylbenzene	0.25	ND	22.49	ND	15.90	14.03	20.0	ND	112.5	ND	79.5	70.2	80.0	122.0	12.5	25.0			L	L	
2-chlorotoluene	0.13	ND	21.89	ND	15.53	14.08	20.0	ND	109.5	ND	77.7	70.4	53.0	164.0	9.8	62.0					
4-chlorotoluene	0.25	ND	20.89	ND	15.41	13.66	20.0	ND	104.5	ND	77.1	68.3	42.0	163.0	12.0	74.0					
tert-butyl-benzene	0.25	ND	20.59	ND	14.30	12.53	20.0	ND	103.0	ND	71.5	62.7	76.0	132.0	13.2	34.0			L	L	
1,2,4-trimethylbenzene	0.25	ND	21.03	ND	15.18	13.48	20.0	ND	105.2	ND	75.9	67.4	80.0	128.0	11.9	27.0			L	L	
sec-butyl-benzene	0.25	ND	21.13	ND	14.48	12.58	20.0	ND	105.7	ND	72.4	62.9	73.0	126.0	14.0	33.0			L	L	
p-isopropyl-toluene	0.25	ND	20.71	ND	14.36	12.44	20.0	ND	103.6	ND	71.8	62.2	77.0	124.0	14.3	29.0			L	L	
1,3-dichlorobenzene	0.25	ND	20.97	ND	15.52	14.07	20.0	ND	104.9	ND	77.6	70.4	80.0	120.0	9.8	22.0			L	L	
1,4-dichlorobenzene	0.13	ND	20.00	ND	15.03	13.73	20.0	ND	100.0	ND	75.2	68.7	80.0	120.0	9.0	18.0			L	L	
n-butyl-benzene	0.25	ND	21.21	ND	14.64	12.54	20.0	ND	106.1	ND	73.2	62.7	73.0	136.0	15.5	39.0				L	
1,2-dichlorobenzene	0.13	ND	20.53	ND	15.79	14.75	20.0	ND	102.7	ND	79.0	73.8	80.0	120.0	6.8	20.0			L	L	
1,2-dibromo-3-chloropropane	1.00	ND	20.77	ND	16.92	16.70	20.0	ND	103.9	ND	84.6	83.5	22.0	178.0	1.3	96.0					
1,2,4-trichlorobenzene	0.20	0.29	20.99	ND	15.76	14.71	20.0	0.29	105.0	ND	78.8	73.6	75.0	126.0	6.9	31.0				L	
hexachlorobutadiene	0.25	0.69	21.10	ND	13.70	11.79	20.0	0.69	105.5	ND	68.5	59.0	68.0	126.0	15.0	36.0				L	
naphthalene	0.20	0.37	21.93	ND	18.45	18.12	20.0	0.37	109.7	ND	92.3	90.6	57.0	138.0	1.8	50.0					
1,2,3-trichlorobenzene	0.13	0.48	20.50	ND	15.96	15.27	20.0	0.48	102.5	ND	79.8	76.4	66.0	130.0	4.4	39.0					
Surrogates																					
dibromofluoromethane		22.49	22.69	22.73	23.36	23.46	25.0	90.0	90.8	90.9	93.4	93.8	86	118							
1,2-dichloroethane-d4		22.47	23.00	23.46	24.40	25.17	25.0	89.9	92.0	93.8	97.6	100.7	80	120							
toluene-d8		24.98	24.63	24.87	22.45	22.35	25.0	99.9	98.5	99.5	89.8	89.4	88	110							
p-bromofluorobenzene		25.72	25.79	26.35	24.98	24.67	25.0	102.9	103.2	105.4	99.9	98.7	86	115							

Notes and Definitions:
RDL= Reporting Detection Limit
LCS= Laboratory Control Sample
MS/MSD= Matrix Spike / Matrix Spike Duplicate

LCL= Lower Control Limit
UCL= Upper Control Limit
ND= Not Detected

NS=Not spiked
NA=Not applicable
RPD= Relative Percent Difference

H=Above control limit
L=Below control limit
DF=Dilution Factor

Tune File : D:\HPCHEM\1\DATA\052301\9M15735.D
Tune Time : 23 May 2001 14:32

Daily Calibration File : D:\HPCHEM\1\DATA\052301\9M15737.D

						785618	660681	442638
File	Sample	Surrogate Recovery %				Internal Standard Responses		
9M15738.D	WG98011-	100	101	94	99	679053	584800	394990
9M15739.D	WG98011-	100	103	93	100	618704	536275	348760
9M15740.D	WG98011-	96	100	93	94	663627	579018	398293
9M15741.D	L0105526	101	102	97	101	642997	551808	361139
9M15742.D	L0105526	99	100	93	96	665790	573388	376855
9M15743.D	L0105526	99	102	94	97	646960	560124	372639
9M15744.D	L0105504	96	105	88	154*	761147	760524	507532
9M15745.D	L0105504	91	91	93	134*	876427	800523	528793
9M15746.D	L0105504	89	86	89	111	890853	789099	548663
9M15747.D	L0105504	89	86	96	255*	951687	837765	569884
9M15748.D	L0105504	86	80*	96	197*	905817	784013	542718
9M15749.D	L0105504	83	79*	96	162*	939772	794978	536356
9M15750.D	L0105504	83	78*	90	93	980441	844196	554940
9M15751.D	L0105504	82	82	114	849*	953025	734924	488364

t - fails 12hr time check * - fails criteria

Created: Thu May 24 08:19:16 2001 HPMS9

120

Tune File : C:\HPCHEM\1\DATA\052401\6M25926.D
Tune Time : 24 May 2001 7:23

Daily Calibration File : C:\HPCHEM\1\DATA\052401\6M25927.D

		DFM	DCA	TOL	BFB	FBZ	CBZ	
						1431890	1190770	666397
File	Sample	Surrogate Recovery %				Internal Standard Responses		
6M25928.D	WG98069-	90	90	100	103	1336554	1089179	571829
6M25929.D	WG98069-	91	92	99	103	1376153	1158541	636591
6M25930.D	L0105521	91	93	99	99	1300996	1069777	622908
6M25931.D	L0105521	91	93	99	103	1334509	1114861	611991
6M25932.D	L0105521	91	92	98	98	1302767	1093918	649430
6M25933.D	L0105491	90	90	99	105	1330397	1129701	594914
6M25934.D	L0105504	90	90	98	105	1291973	1098117	575112
6M25935.D	L0105505	91	92	98	105	1221884	1050020	552044
6M25936.D	L0105525	92	94	98	105	1199003	1026034	544779
6M25937.D	L0105526	92	96	98	104	1149608	998126	538165
6M25938.D	L0105526	94	97	98	104	1162697	998293	533492
6M25939.D	WG98069-	91	94	99	105	1183569	1021238	540494
6M25940.D	WG98069-	93	98	90	100	1374976	1221030	653745
6M25941.D	WG98069-	94	101	89	99	1465609	1314460	723710
6M25942.D	L0105491	90	93	99	106	1448004	1211342	642192
6M25944.D	L0105491	95	99	105	123*	2087744	1528862	712735
6M25945.D	L0105491	89	96	104	116*	1814502	1367709	679364
6M25946.D	system b	83*	81	100	105	1625367	1332225	692718
6M25947.D	tsystem b	87	82	101	106	1606147	1304495	659839

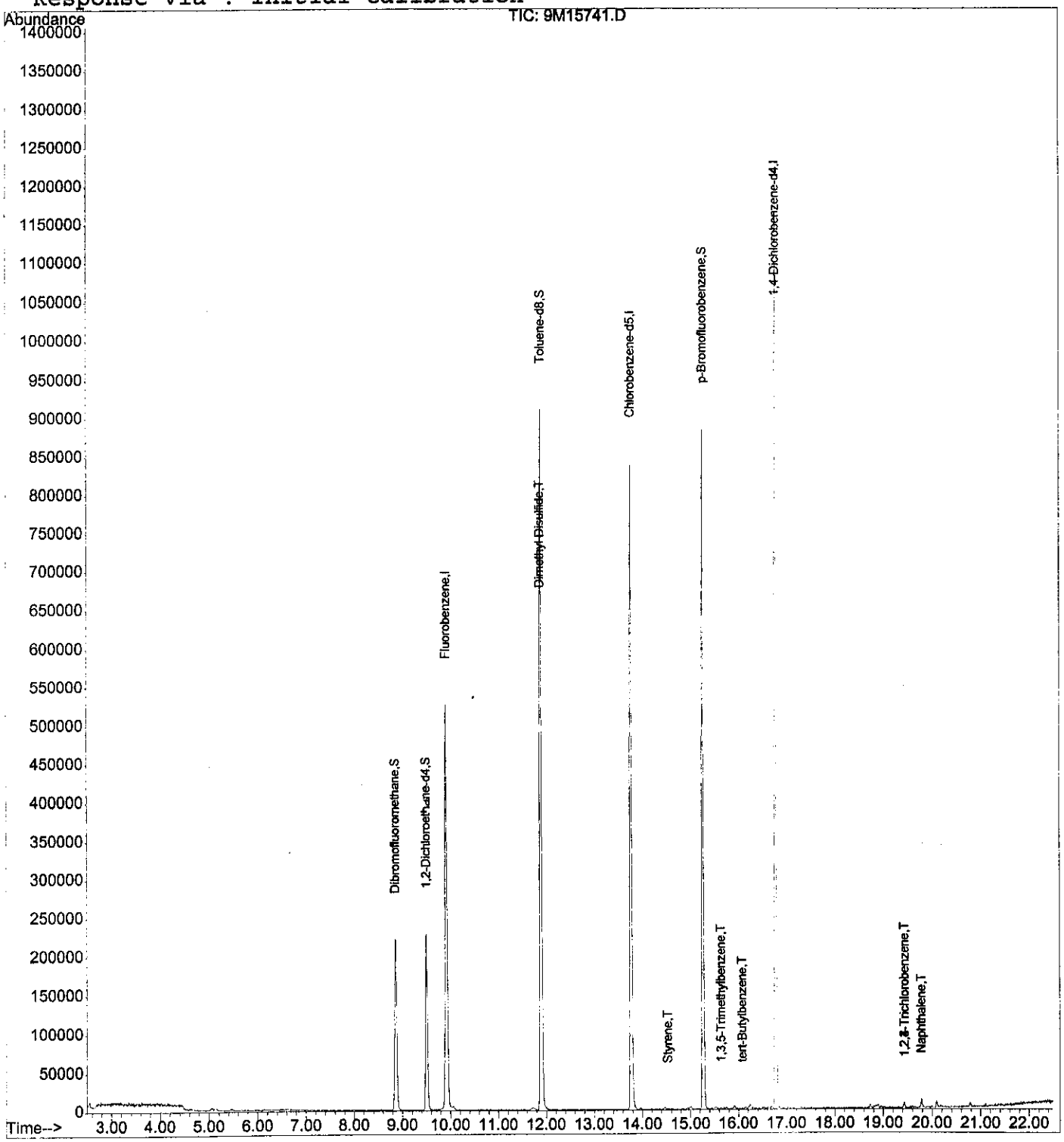
t - fails 12hr time check * - fails criteria

Created: Thu May 24 22:39:10 2001 HPMS6

2.1.1.2 Sample Data

Data File : D:\HPCHEM\1\DATA\052301\9M15741.D Vial: 6
Acq On : 23 May 2001 18:25 Operator: MES
Sample : L0105526-01 A 00 0.9X 630-NAVY-CTO 5.49G Inst : HPMS9
Misc : 7,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration

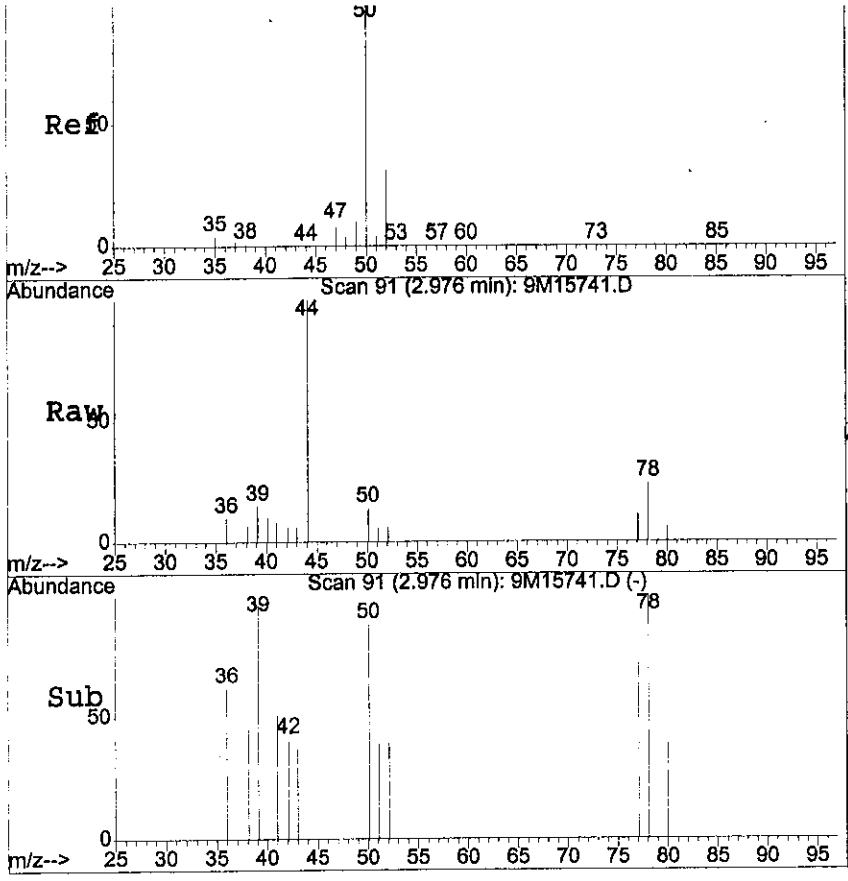


Data File : D:\HPCHEM\1\DATA\052301\9M15741.D Vial: 6
Acq On : 23 May 2001 18:25 Operator: MES
Sample : L0105526-01 A 00 0.9X 630-NAVY-CTO 5.49G Inst : HPMS9
Misc : 7,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	642997	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.77	117	551808	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	361139	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	202402	50.74	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%			
33) 1,2-Dichloroethane-d4	9.51	65	247221	51.14	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.28%			
45) Toluene-d8	11.90	98	807292	48.47	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 96.94%			
66) p-Bromofluorobenzene	15.27	95	377409	50.50	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 101.00%			
Target Compounds						Qvalue
3) Chloromethane	2.98	50	1428	Below Cal	#	63
11) Acetone	5.45	43	2530	Below Cal	#	79
43) Dimethyl Disulfide	11.88	79	100	4.11	ug/kg#	1
61) Styrene	14.54	104	119	1.58	ug/kg#	57
71) 1,3,5-Trimethylbenzene	15.64	105	1487	2.13	ug/kg#	45
75) tert-Butylbenzene	16.09	119	214	0.99	ug/kg#	83
86) Naphthalene	19.79	128	9598	0.75	ug/kg F	96

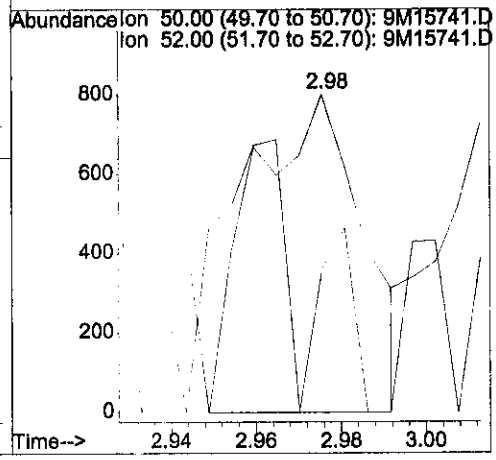
(#) = qualifier out of range (m) = manual integration

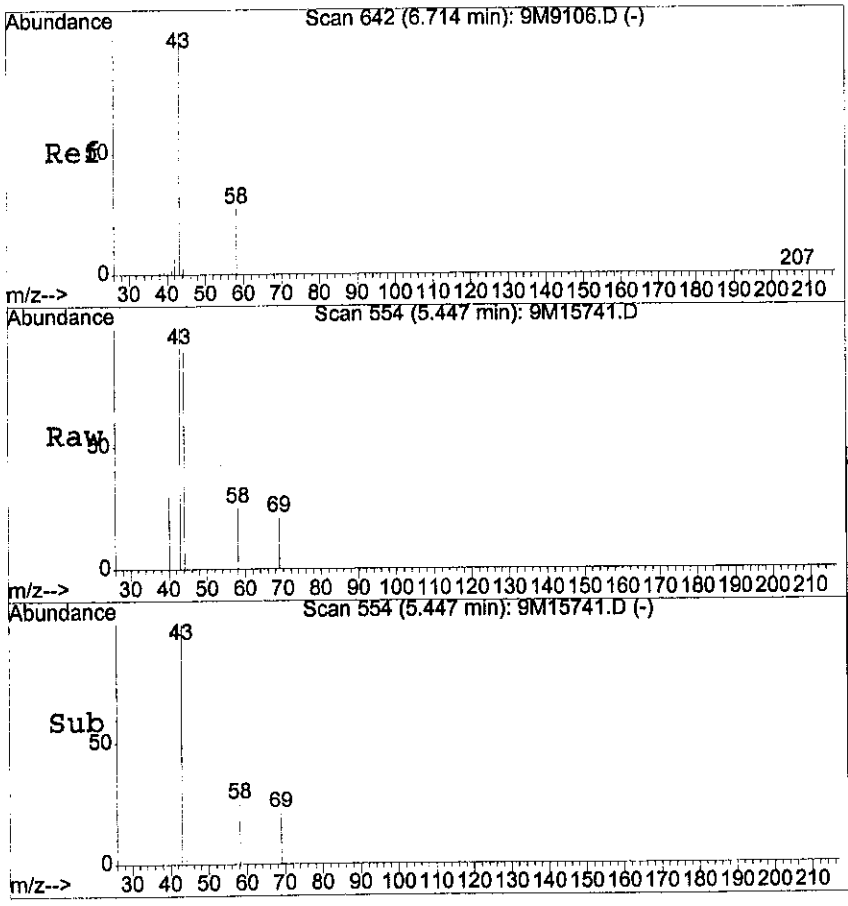


Chloromethane
Concen: Below Cal
RT: 2.98 min Scan# 91
Delta R.T. -0.01 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion: 50 Resp: 1428

Ion	Ratio	Lower	Upper
50	100		
52	52.6	25.4	38.2#

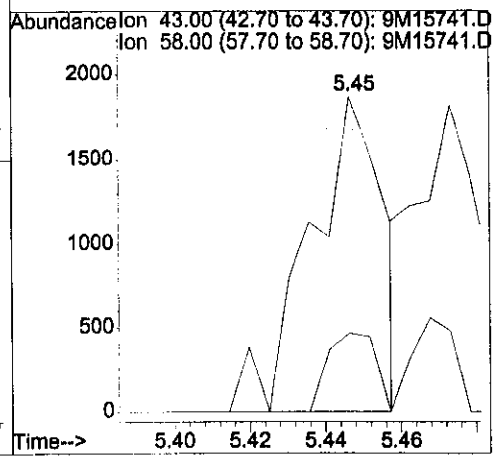


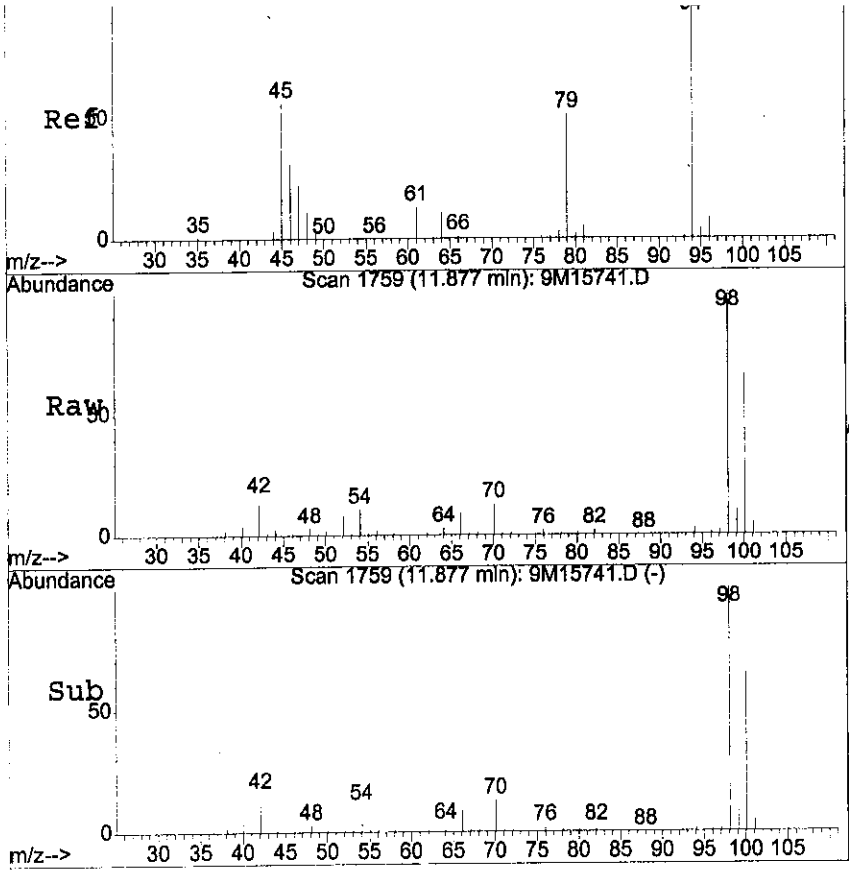


#11
Acetone
Concen: Below Cal
RT: 5.45 min Scan# 554
Delta R.T. 0.02 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion: 43 Resp: 2530

Ion	Ratio	Lower	Upper
43	100		
58	16.3	21.9	32.9#

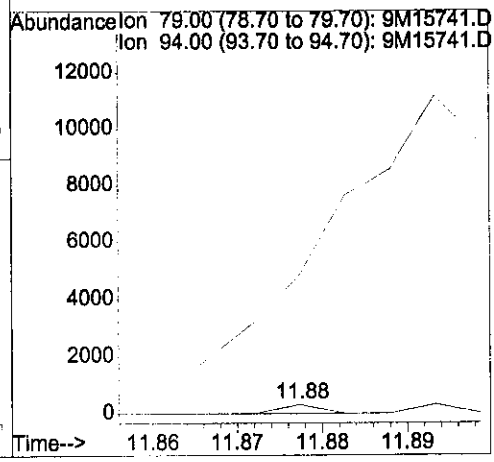


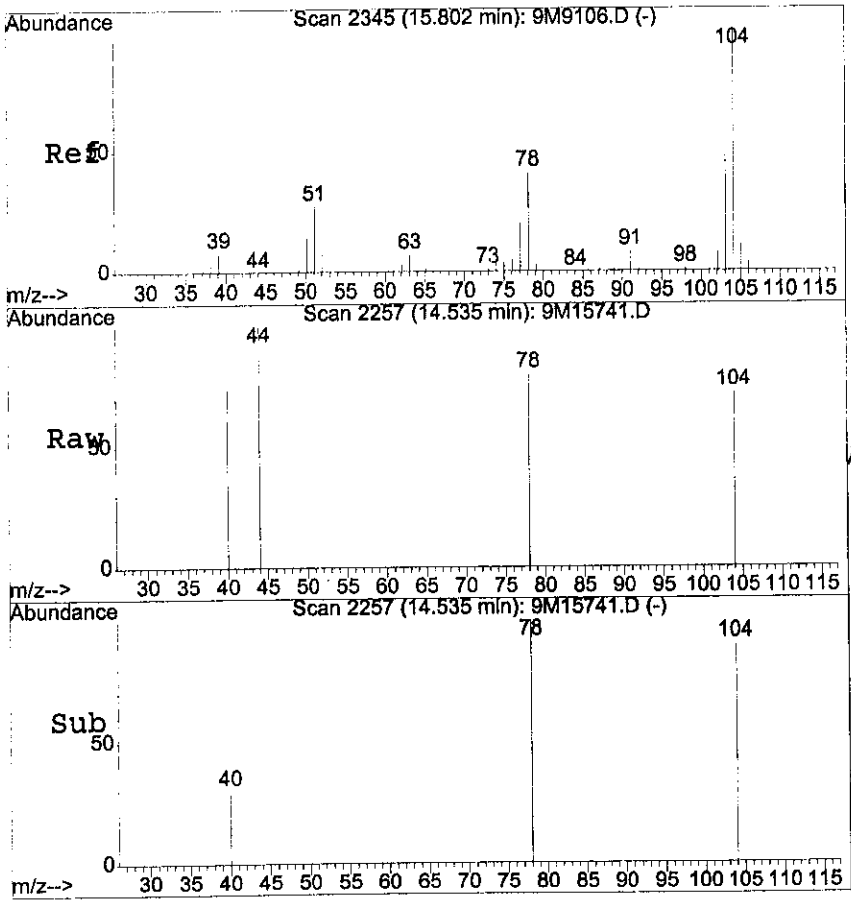


Dimethyl Disulfide
Concen: 4.11 ug/kg
RT: 11.88 min Scan# 1759
Delta R.T. 0.07 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion: 79 Resp: 100

Ion	Ratio	Lower	Upper
79	100		
94	25858.0	153.5	230.3#

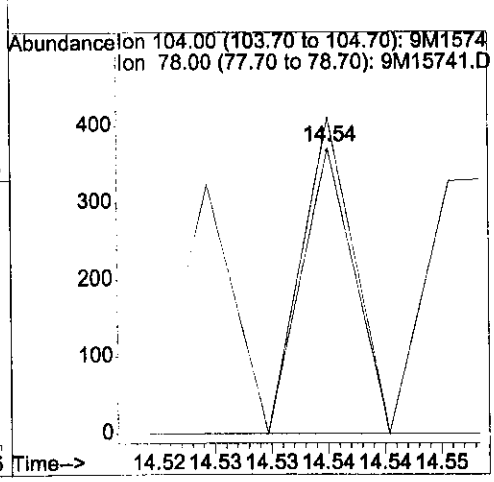


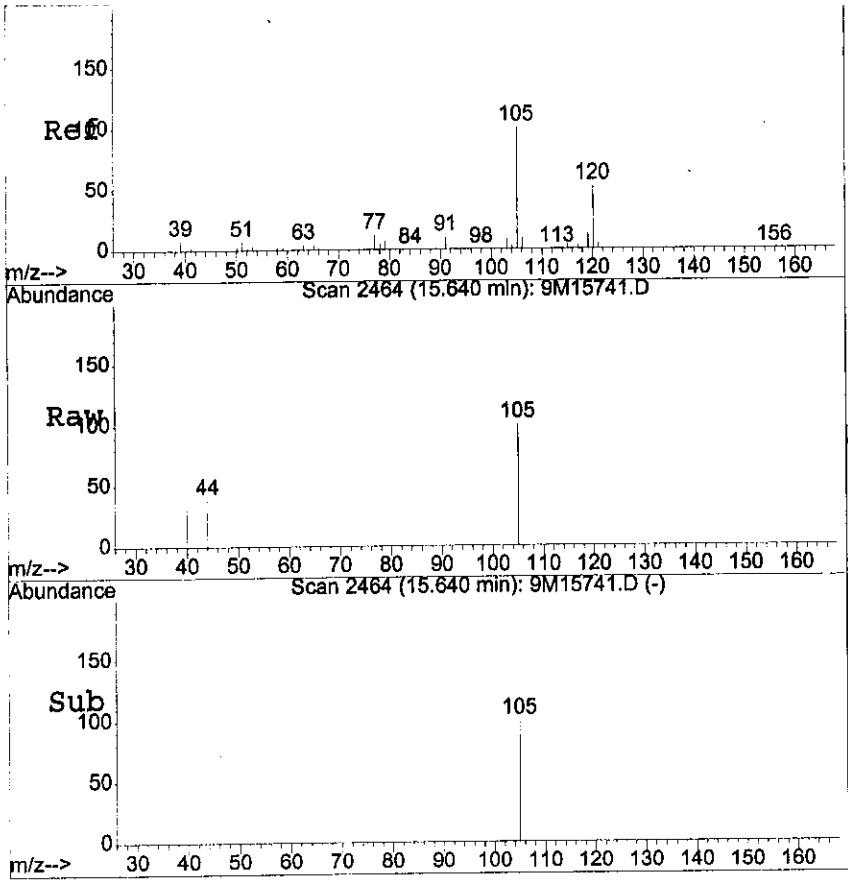


#61
Styrene
Concen: 1.58 ug/kg
RT: 14.54 min Scan# 2257
Delta R.T. 0.00 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion:104 Resp: 119

Ion	Ratio	Lower	Upper
104	100		
78	87.4	45.0	67.4#

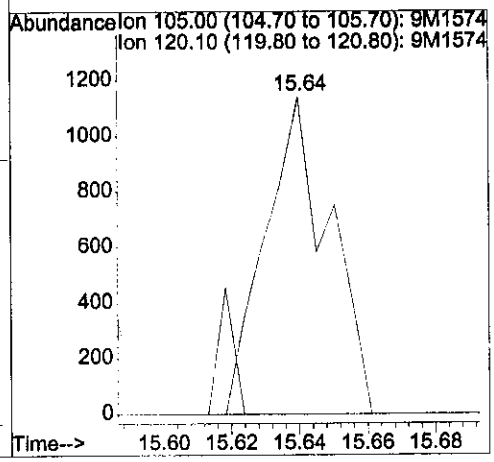


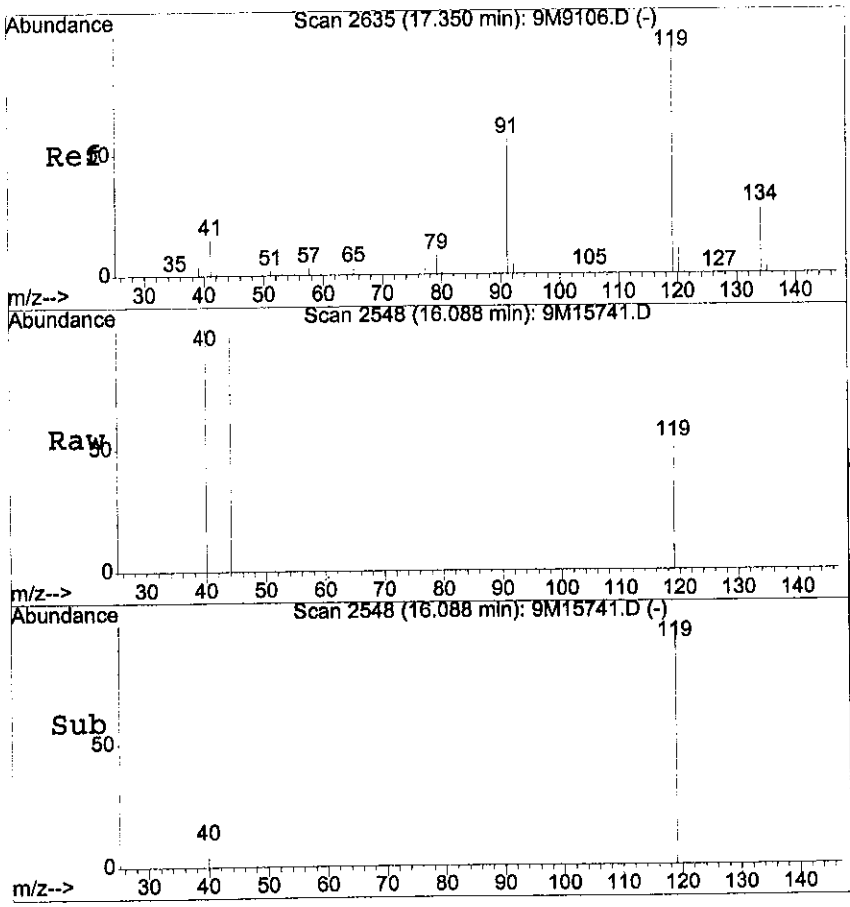


1,3,5-Trimethylbenzene
Concen: 2.13 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.02 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion:105 Resp: 1487

Ion	Ratio	Lower	Upper
105	100		
120	9.8	37.3	55.9#

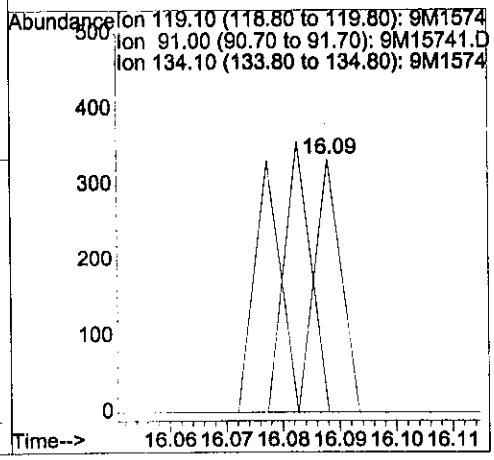


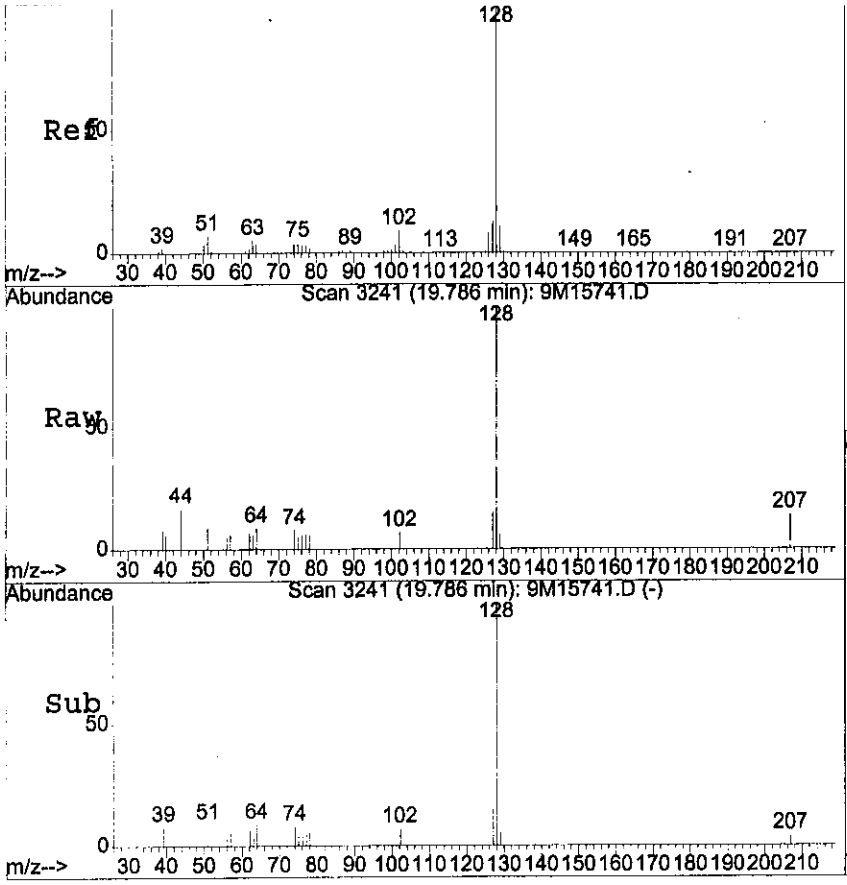


#75
tert-Butylbenzene
Concen: 0.99 ug/kg
RT: 16.09 min Scan# 2548
Delta R.T. 0.01 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

Tgt Ion:119 Resp: 214

Ion	Ratio	Lower	Upper
119	100		
91	53.7	39.5	59.3
134	0.0	16.0	24.0#

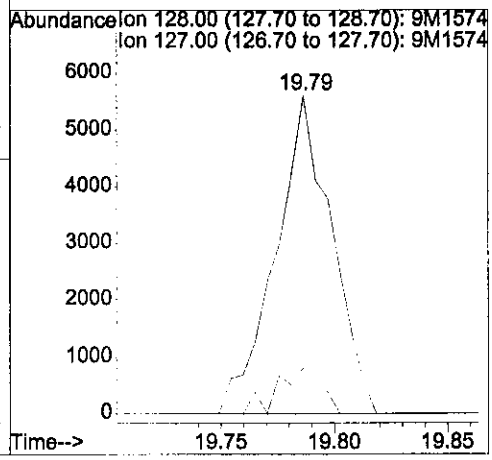




Naphthalene
Concen: 0.75 ug/kg
RT: 19.79 min Scan# 3241
Delta R.T. 0.01 min
Lab File: 9M15741.D
Acq: 23 May 2001 18:25

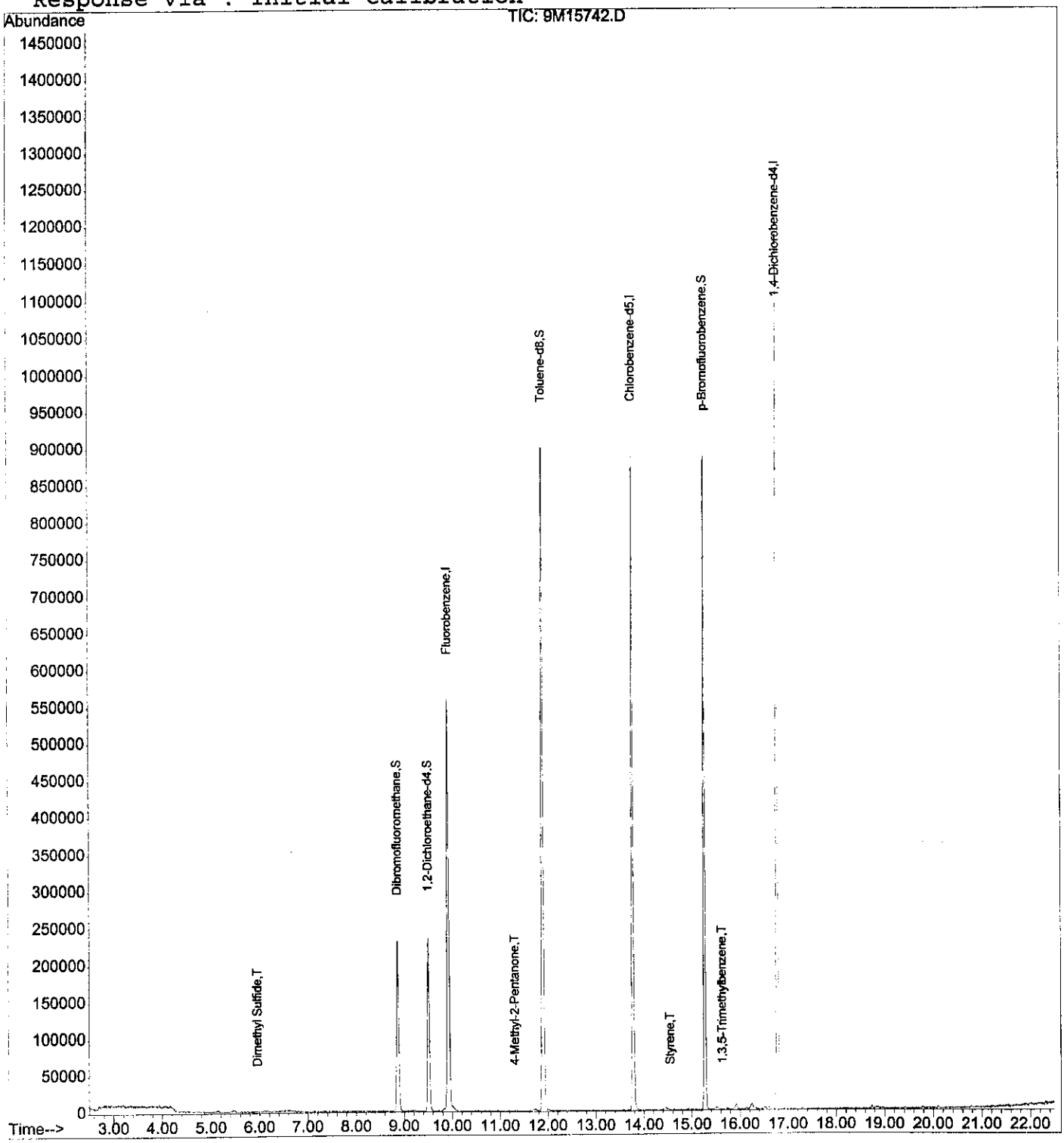
Tgt Ion:128 Resp: 9598

Ion	Ratio	Lower	Upper
128	100		
127	10.9	9.9	14.9



Data File : D:\HPCHEM\1\DATA\052301\9M15742.D Vial: 7
Acq On : 23 May 2001 18:56 Operator: MES
Sample : L0105526-02 A 00 1.1X 630-NAVY-CTO 4.36G Inst : HPMS9
Misc : 7,1.1 Multiplr: 1.10
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\052301\9M15742.D Vial: 7
Acq On : 23 May 2001 18:56 Operator: MES
Sample : L0105526-02 A 00 1.1X 630-NAVY-CTO 4.36G Inst : HPMS9
Misc : 7,1.1 Multiplr: 1.10
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	665790	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	573388	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	376855	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	204364	49.48	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.96%			
33) 1,2-Dichloroethane-d4	9.51	65	249454	49.83	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.66%			
45) Toluene-d8	11.90	98	804475	46.48	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 92.96%			
66) p-Bromofluorobenzene	15.27	95	375280	48.12	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 96.24%			
Target Compounds						Qvalue
3) Chloromethane	2.99	50	475	Below Cal	#	46
11) Acetone	5.47	43	3708	Below Cal		98
13) Dimethyl Sulfide	5.96	62	101	2.93	ug/kg#	1
41) 4-Methyl-2-Pentanone	11.31	58	102	6.01	ug/kg#	35
61) Styrene	14.55	104	143	1.93	ug/kg# F	81
71) 1,3,5-Trimethylbenzene	15.64	105	750	2.56	ug/kg#	30

(#) = qualifier out of range (m) = manual integration
9M15742.D 8260SOIL.M Thu May 24 08:45:46 2001 HPMS_9 Page 1

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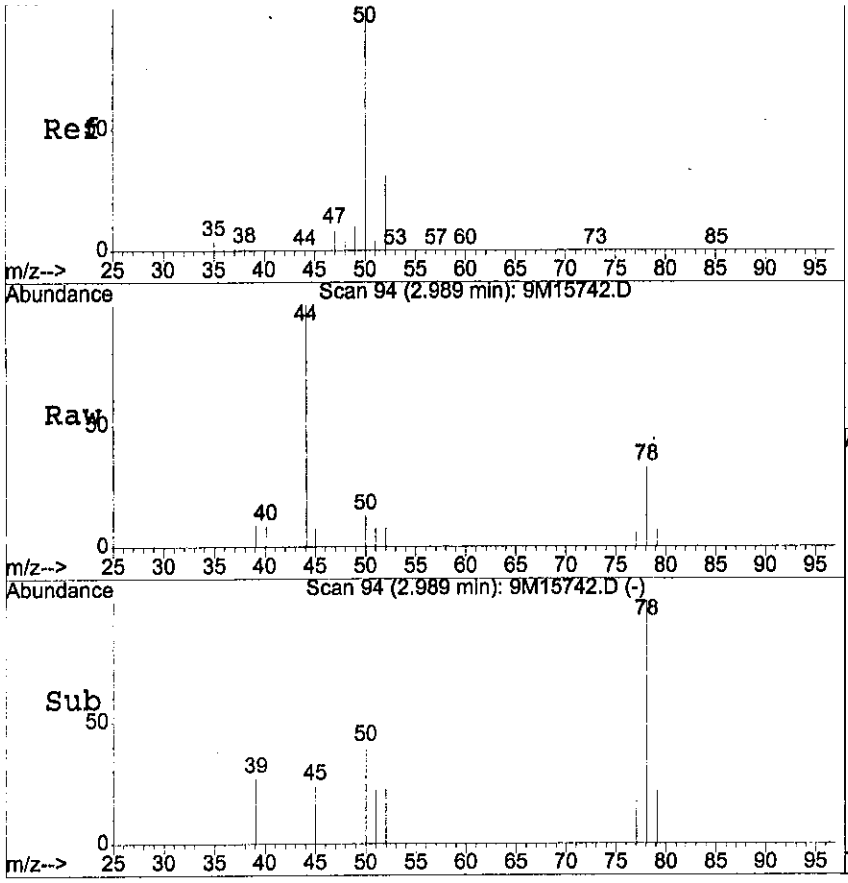
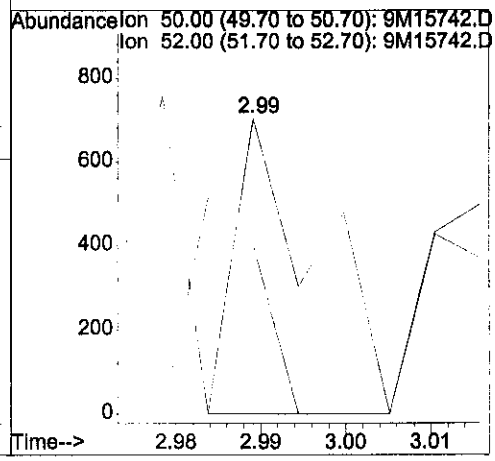
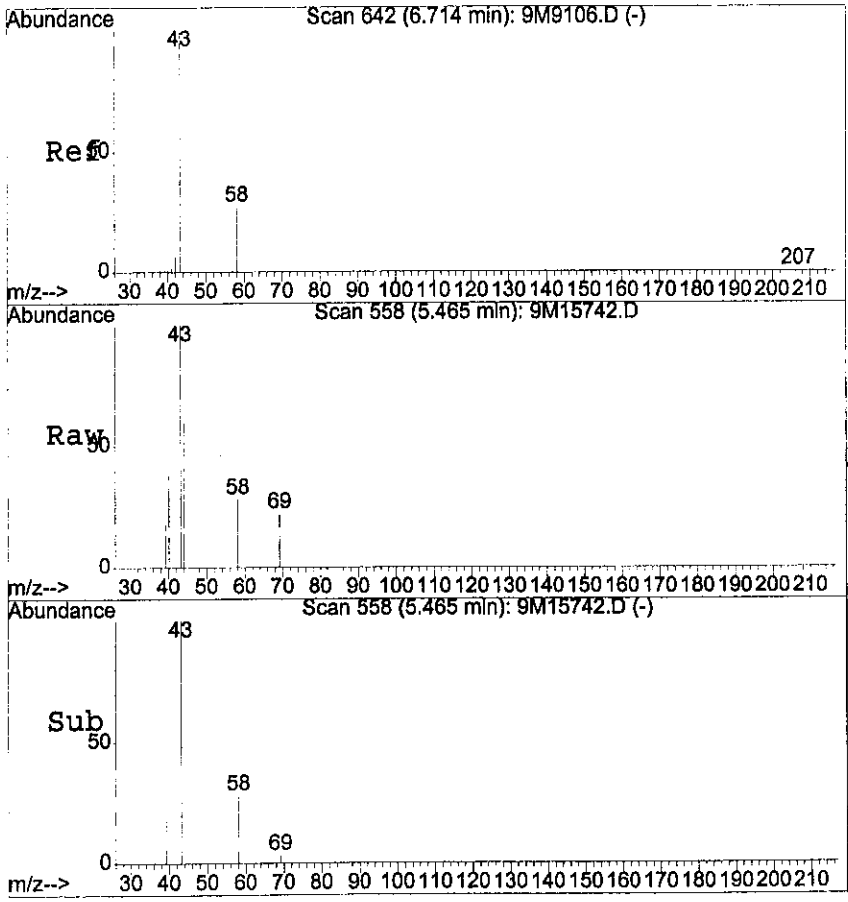


Chloromethane
Concen: Below Cal
RT: 2.99 min Scan# 94
Delta R.T. 0.00 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

Tgt Ion: 50 Resp: 475

Ion	Ratio	Lower	Upper
50	100		
52	61.7	25.4	38.2#

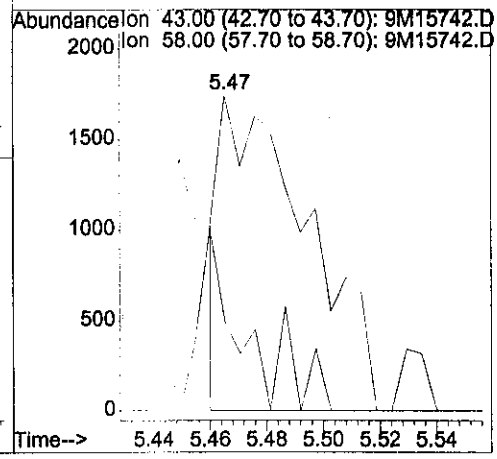


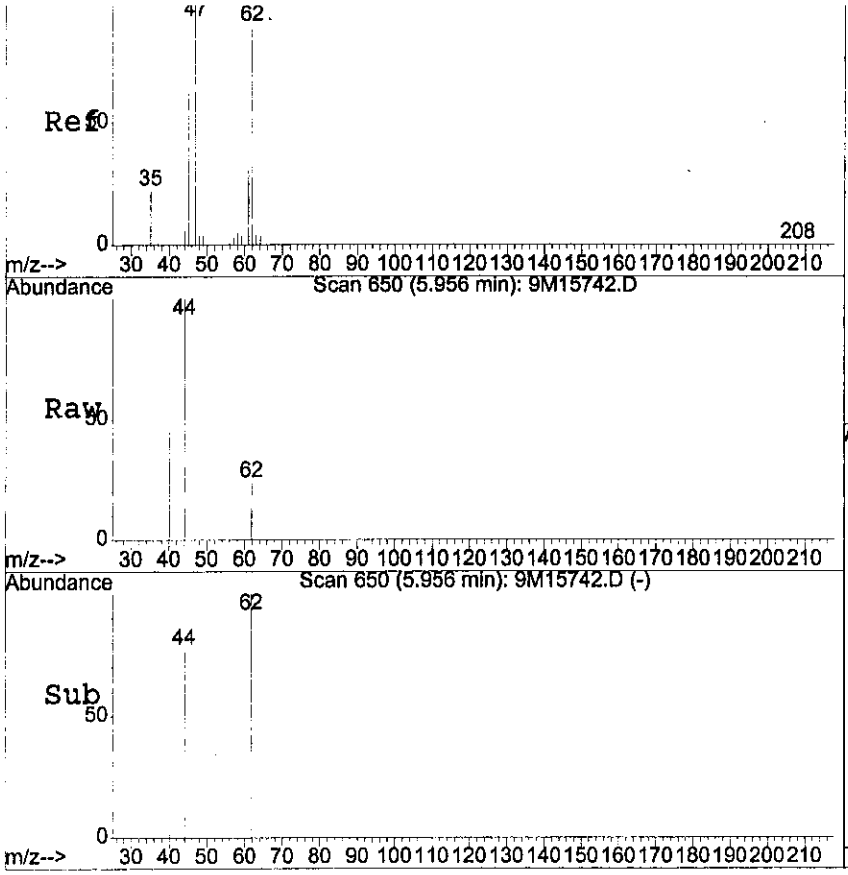


#11
Acetone
Concen: Below Cal
RT: 5.47 min Scan# 558
Delta R.T. 0.03 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

Tgt Ion: 43 Resp: 3708

Ion	Ratio	Lower	Upper
43	100		
58	26.3	21.9	32.9

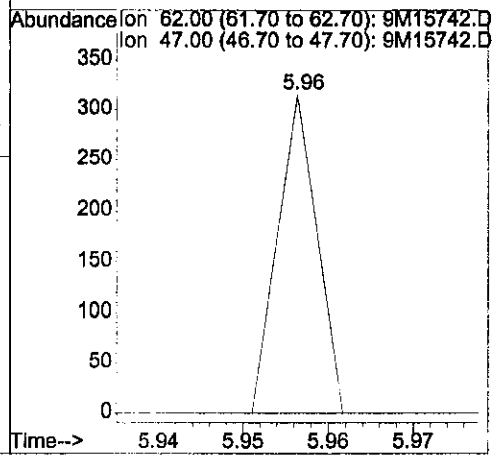


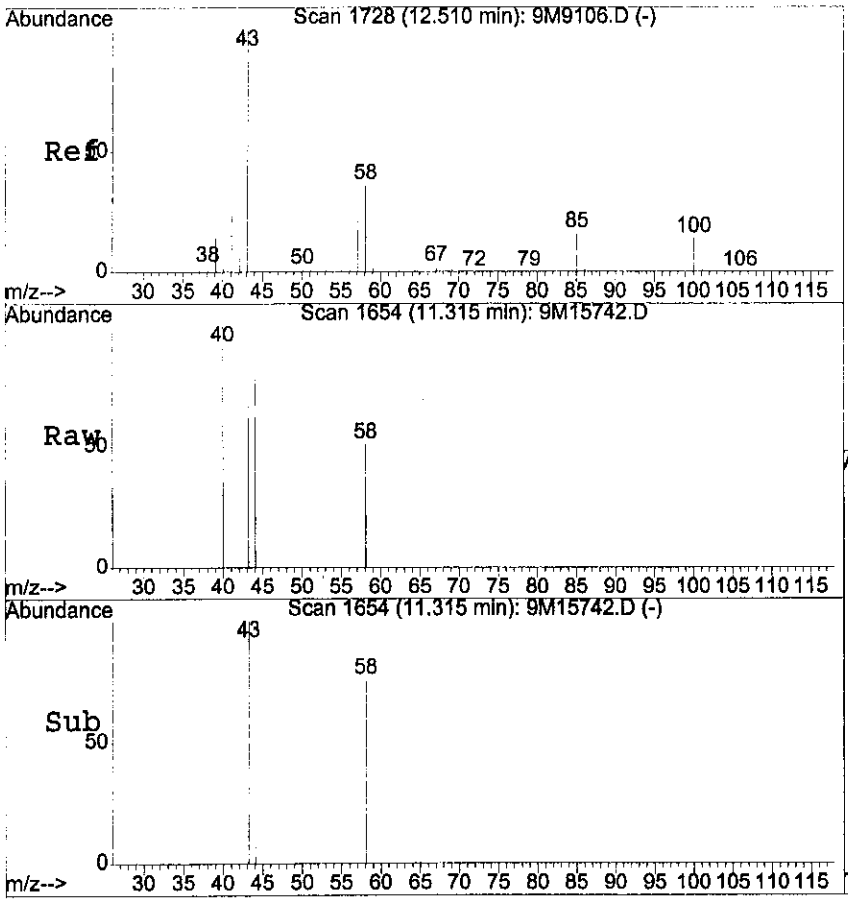


Dimethyl Sulfide
Concen: 2.93 ug/kg
RT: 5.96 min Scan# 650
Delta R.T. 0.06 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

Tgt Ion: 62 Resp: 101

Ion	Ratio	Lower	Upper
62	100		
47	0.0	80.1	120.1#

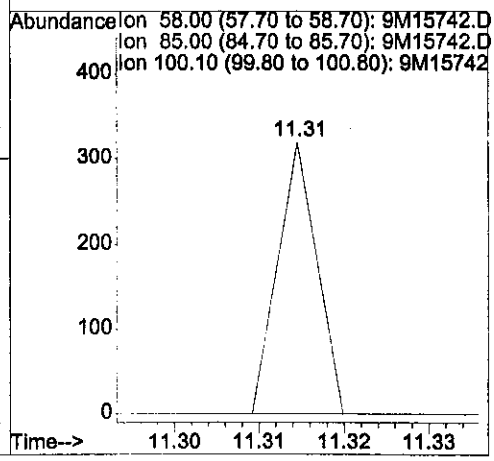


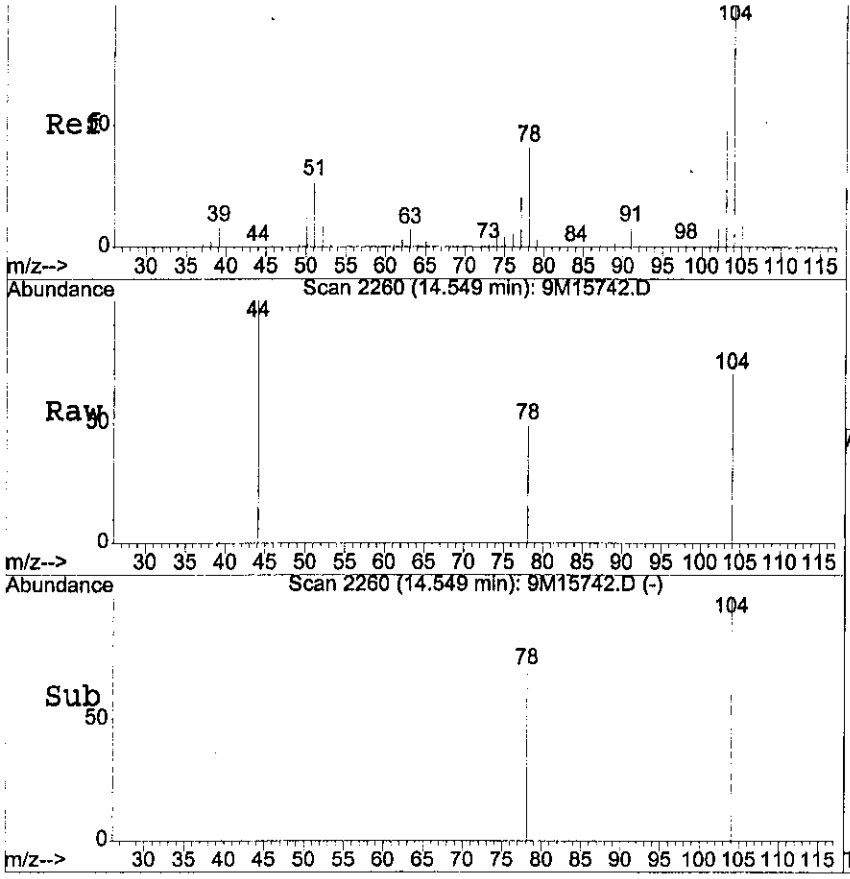


#41
4-Methyl-2-Pentanone
Concen: 6.01 ug/kg
RT: 11.31 min Scan# 1654
Delta R.T. 0.03 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

Tgt Ion: 58 Resp: 102

Ion	Ratio	Lower	Upper
58	100		
85	0.0	36.1	54.1#
100	0.0	28.5	42.7#

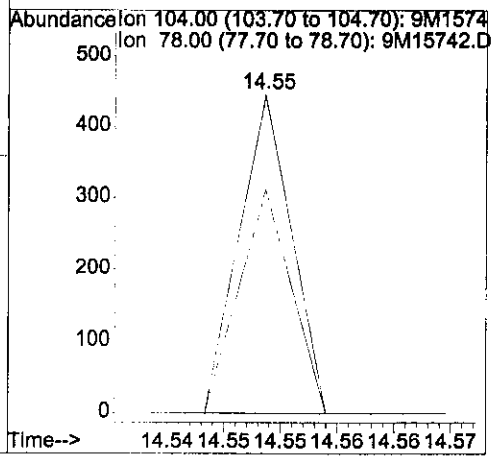


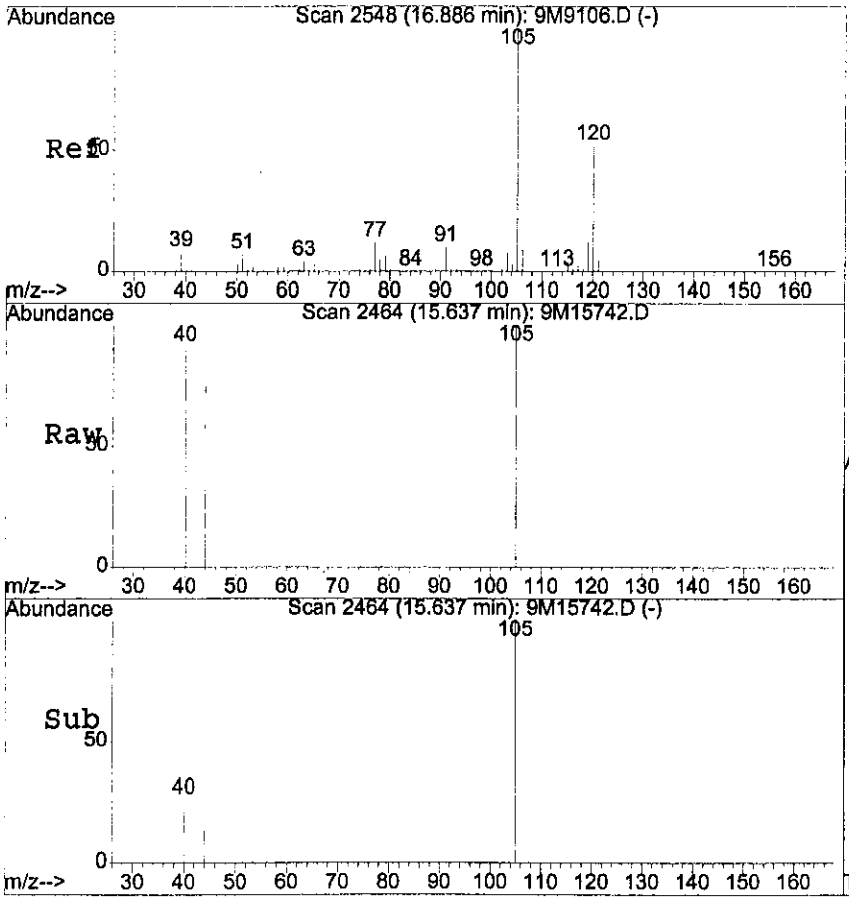


Styrene
Concen: 1.93 ug/kg
RT: 14.55 min Scan# 2260
Delta R.T. 0.01 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

Tgt Ion:104 Resp: 143

Ion	Ratio	Lower	Upper
104	100		
78	69.9	45.0	67.4#

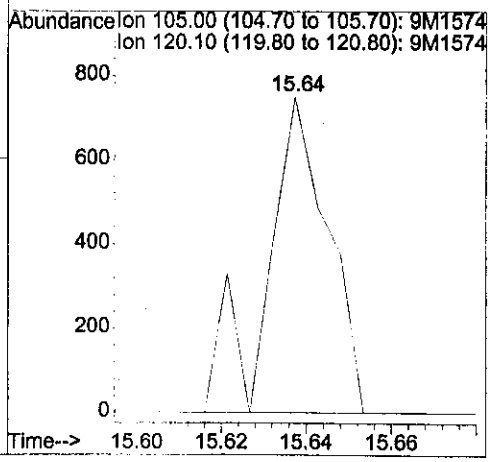




#71
1,3,5-Trimethylbenzene
Concen: 2.56 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.01 min
Lab File: 9M15742.D
Acq: 23 May 2001 18:56

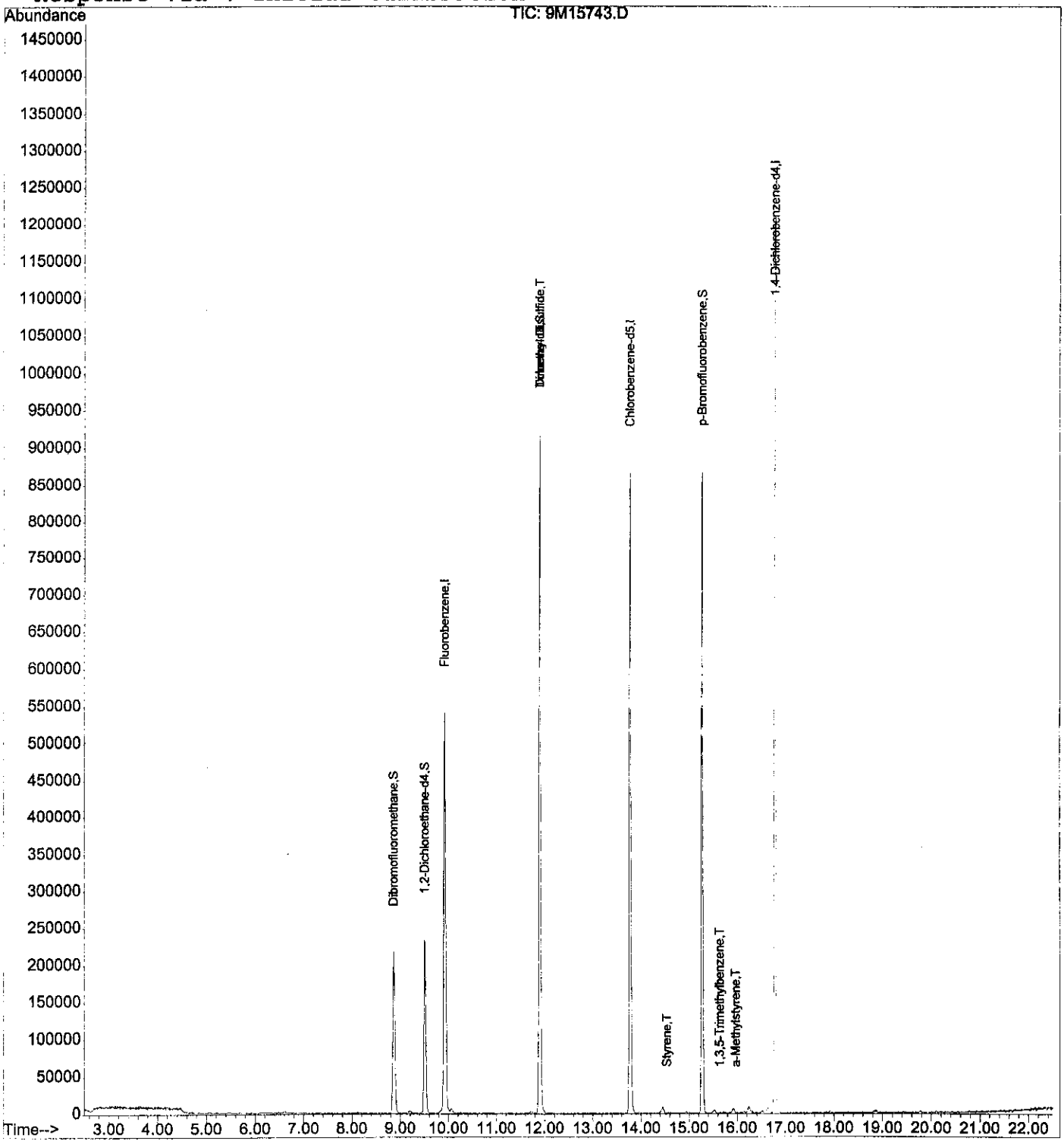
Tgt Ion:105 Resp: 750

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#



Data File : D:\HPCHEM\1\DATA\052301\9M15743.D Vial: 8
Acq On : 23 May 2001 19:28 Operator: MES
Sample : L0105526-03 A 00 0.9X 630-NAVY-CTO 5.34G Inst : HPMS9
Misc : 7,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\052301\9M15743.D Vial: 8
Acq On : 23 May 2001 19:28 Operator: MES
Sample : L0105526-03 A 00 0.9X 630-NAVY-CTO 5.34G Inst : HPMS9
Misc : 7,0.9 Multiplr: 0.90
MS Integration Params: RTEINT.P
Quant Time: May 24 8:45 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	646960	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.78	117	560124	50.00	ug/kg	0.02
64) 1,4-Dichlorobenzene-d4	16.78	152	372639	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	199308	49.66	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.32%			
33) 1,2-Dichloroethane-d4	9.51	65	248268	51.04	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.08%			
45) Toluene-d8	11.90	98	795686	47.06	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 94.12%			
66) p-Bromofluorobenzene	15.28	95	372271	48.27	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 96.54%			
Target Compounds						Qvalue
3) Chloromethane	3.01	50	912	Below Cal	#	50
11) Acetone	5.45	43	991	Below Cal	#	72
43) Dimethyl Disulfide	11.91	79	156	~~4.13 ug/kg#~~		1
61) Styrene	14.54	104	107	~~1.58 ug/kg# F~~		1 mcl 5.250
71) 1,3,5-Trimethylbenzene	15.64	105	196	~~2.08 ug/kg#~~		30
74) a-Methylstyrene	15.97	118	100	~~3.58 ug/kg#~~		23

(#) = qualifier out of range (m) = manual integration
9M15743.D 8260SOIL.M Thu May 24 08:46:04 2001 HPMS_9 Page 1

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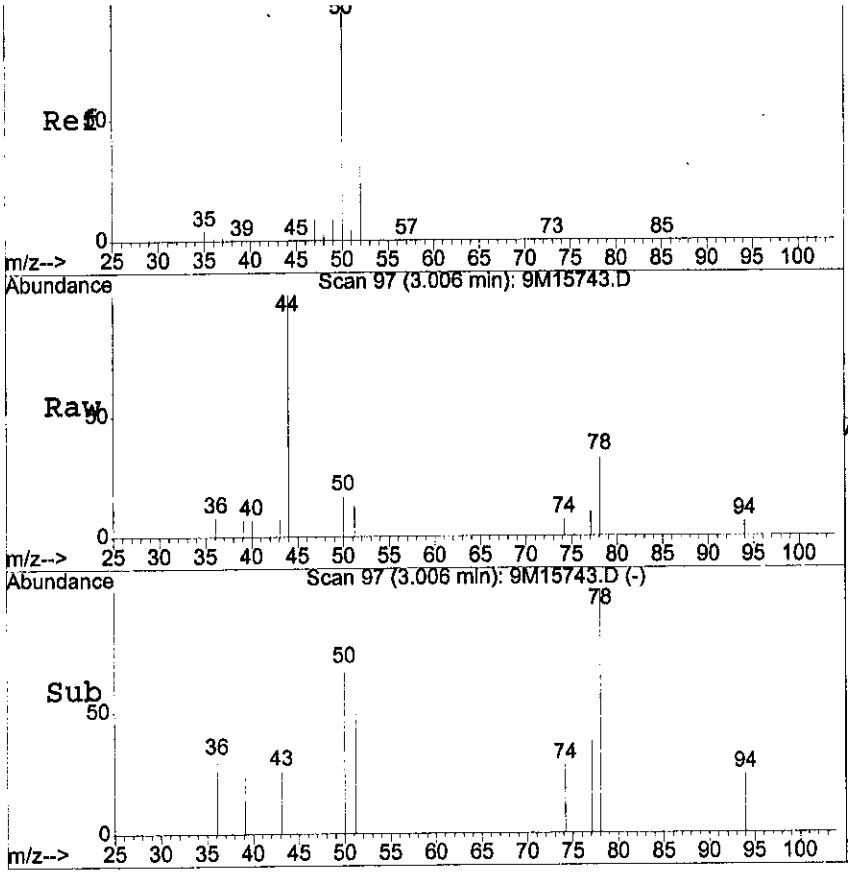
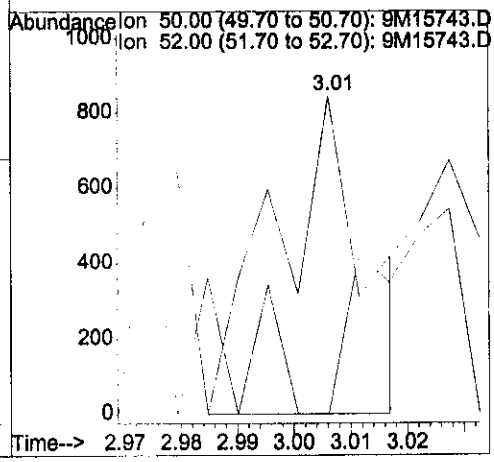
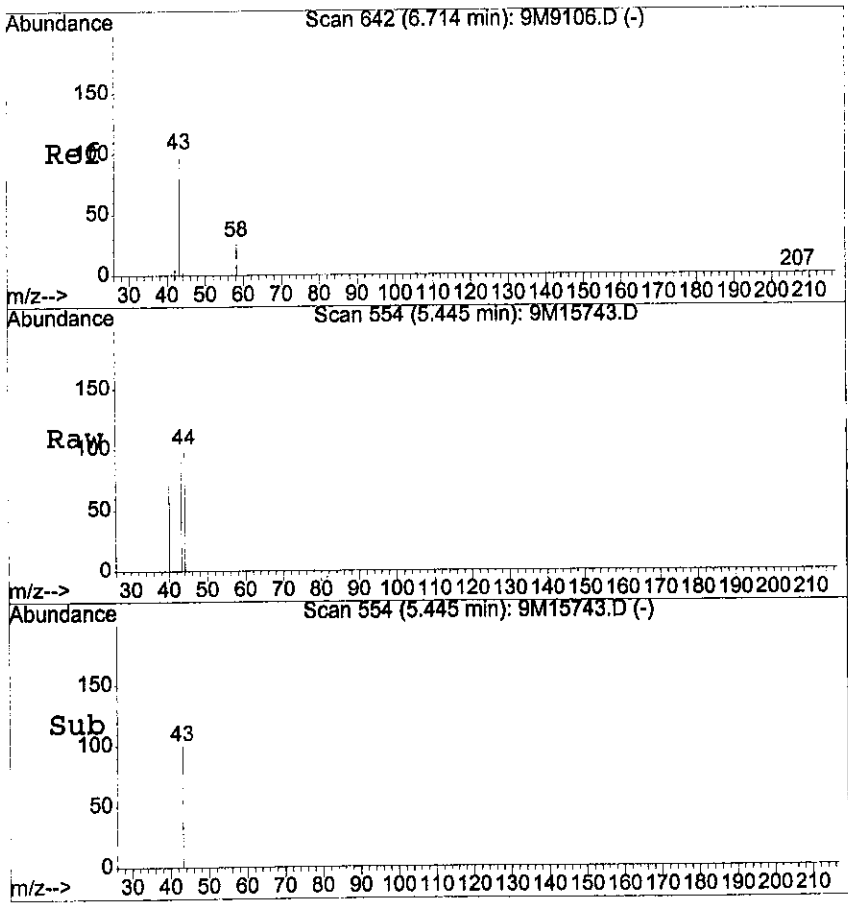


Chloromethane
Concen: Below Cal
RT: 3.01 min Scan# 97
Delta R.T. 0.02 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

Tgt Ion: 50 Resp: 912

Ion	Ratio	Lower	Upper
50	100		
52	59.5	25.4	38.2#

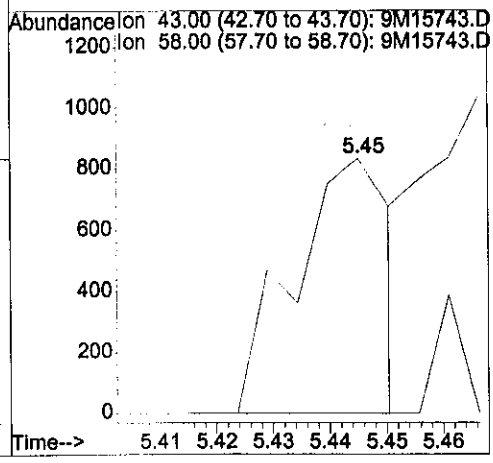


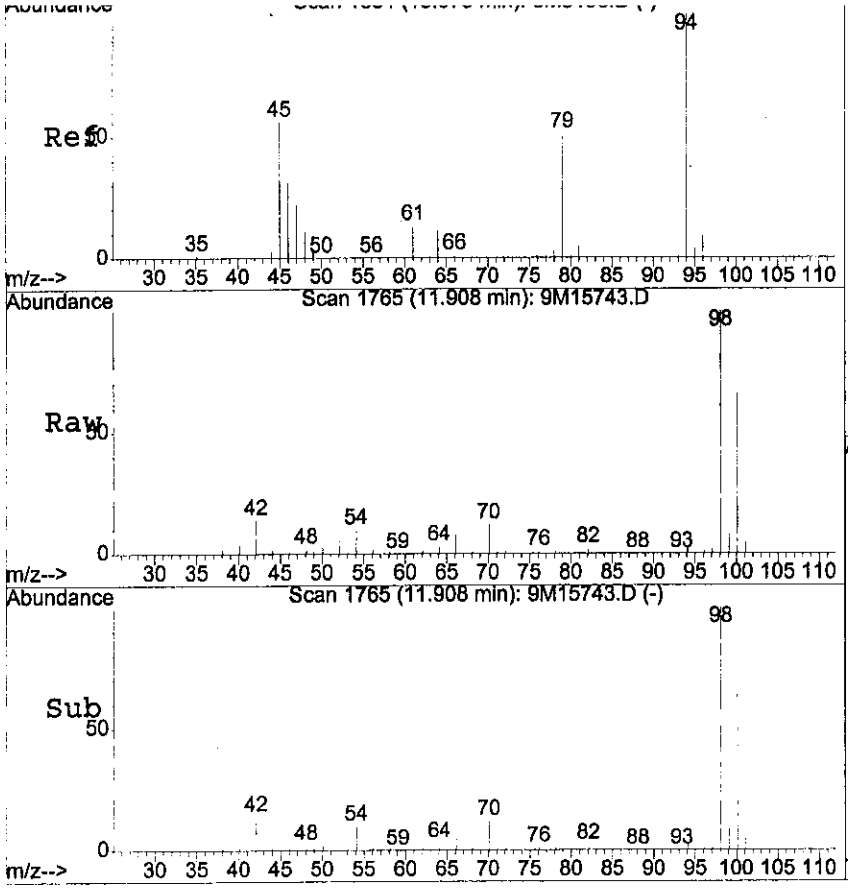


#11
Acetone
Concen: Below Cal
RT: 5.45 min Scan# 554
Delta R.T. 0.01 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

Tgt Ion: 43 Resp: 991

Ion	Ratio	Lower	Upper
43	100		
58	12.6	21.9	32.9#

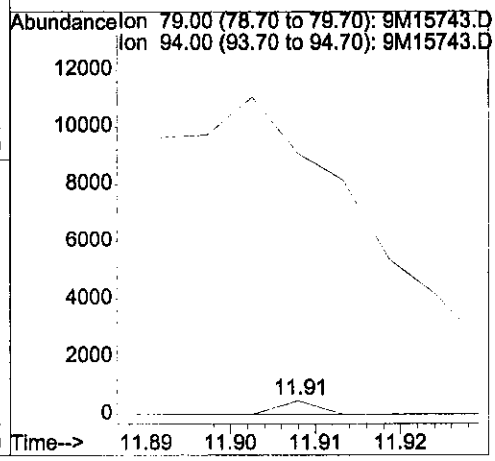


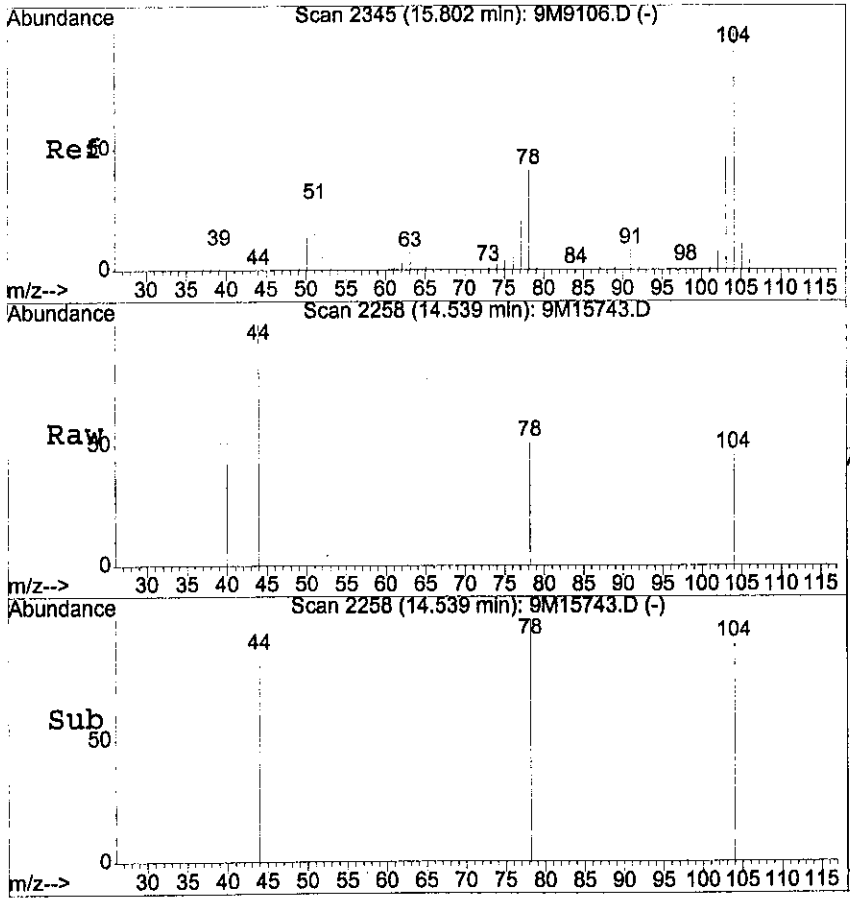


#43
Dimethyl Disulfide
Concen: 4.13 ug/kg
RT: 11.91 min Scan# 1765
Delta R.T. 0.10 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

Tgt Ion: 79 Resp: 156

Ion	Ratio	Lower	Upper
79	100		
94	16728.8	153.5	230.3#

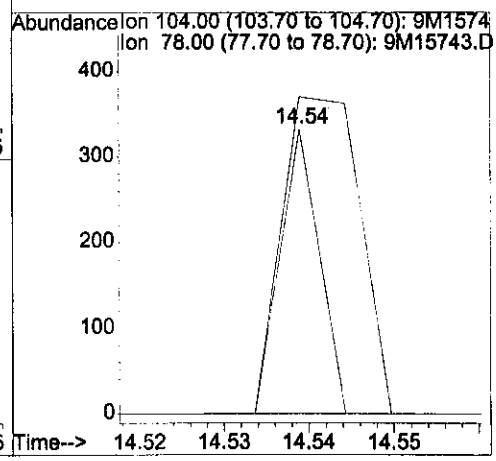


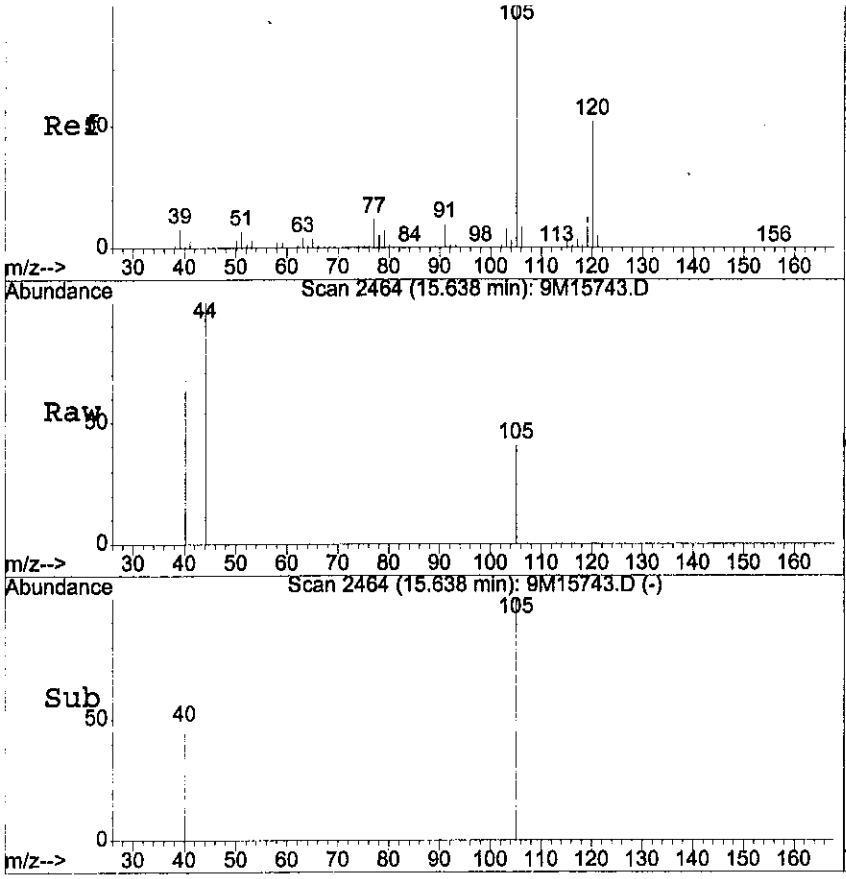


#61
Styrene
Concen: 1.58 ug/kg
RT: 14.54 min Scan# 2258
Delta R.T. 0.00 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

Tgt Ion:104 Resp: 107

Ion	Ratio	Lower	Upper
104	100		
78	219.6	45.0	67.4#

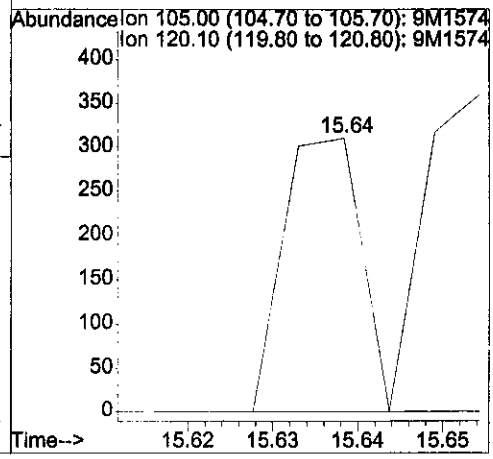


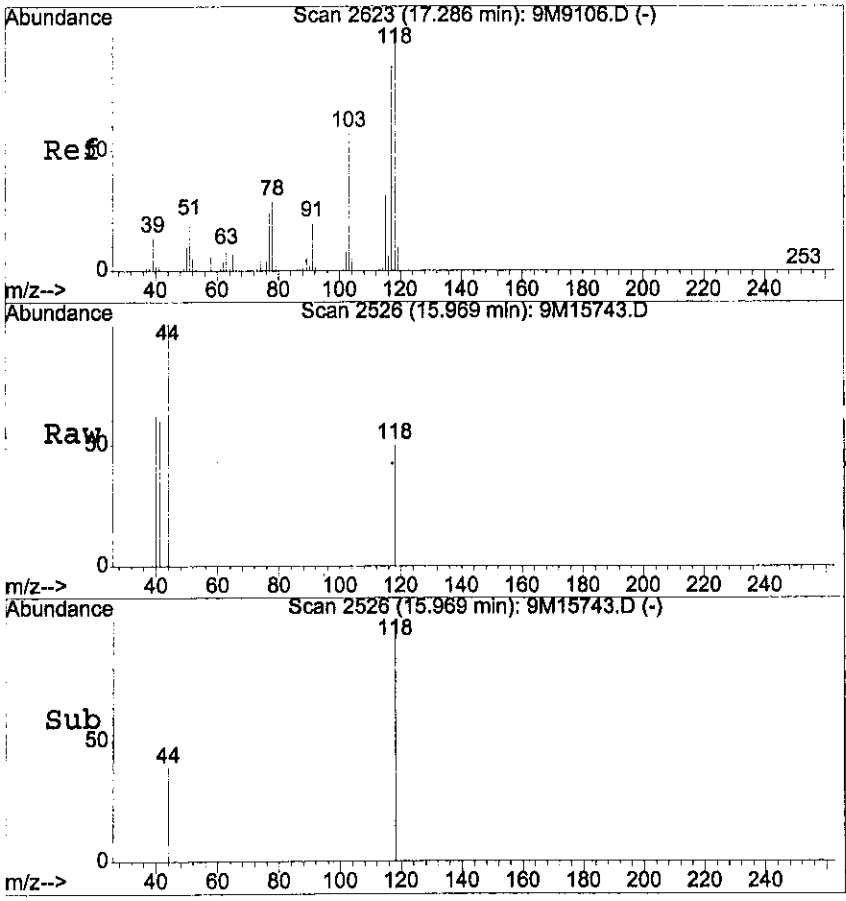


1,3,5-Trimethylbenzene
Concen: 2.08 ug/kg
RT: 15.64 min Scan# 2464
Delta R.T. 0.01 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

Tgt Ion:105 Resp: 196

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#

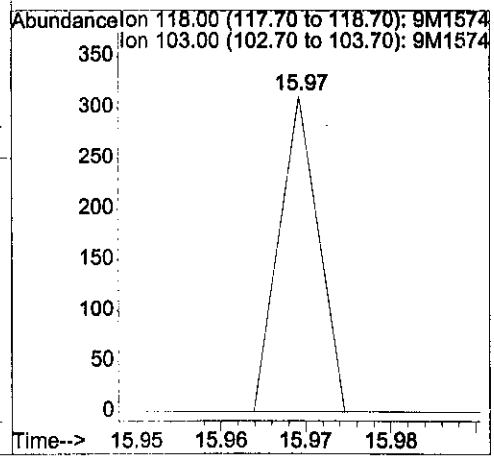




#74
a-Methylstyrene
Concen: 3.58 ug/kg
RT: 15.97 min Scan# 2526
Delta R.T. -0.05 min
Lab File: 9M15743.D
Acq: 23 May 2001 19:28

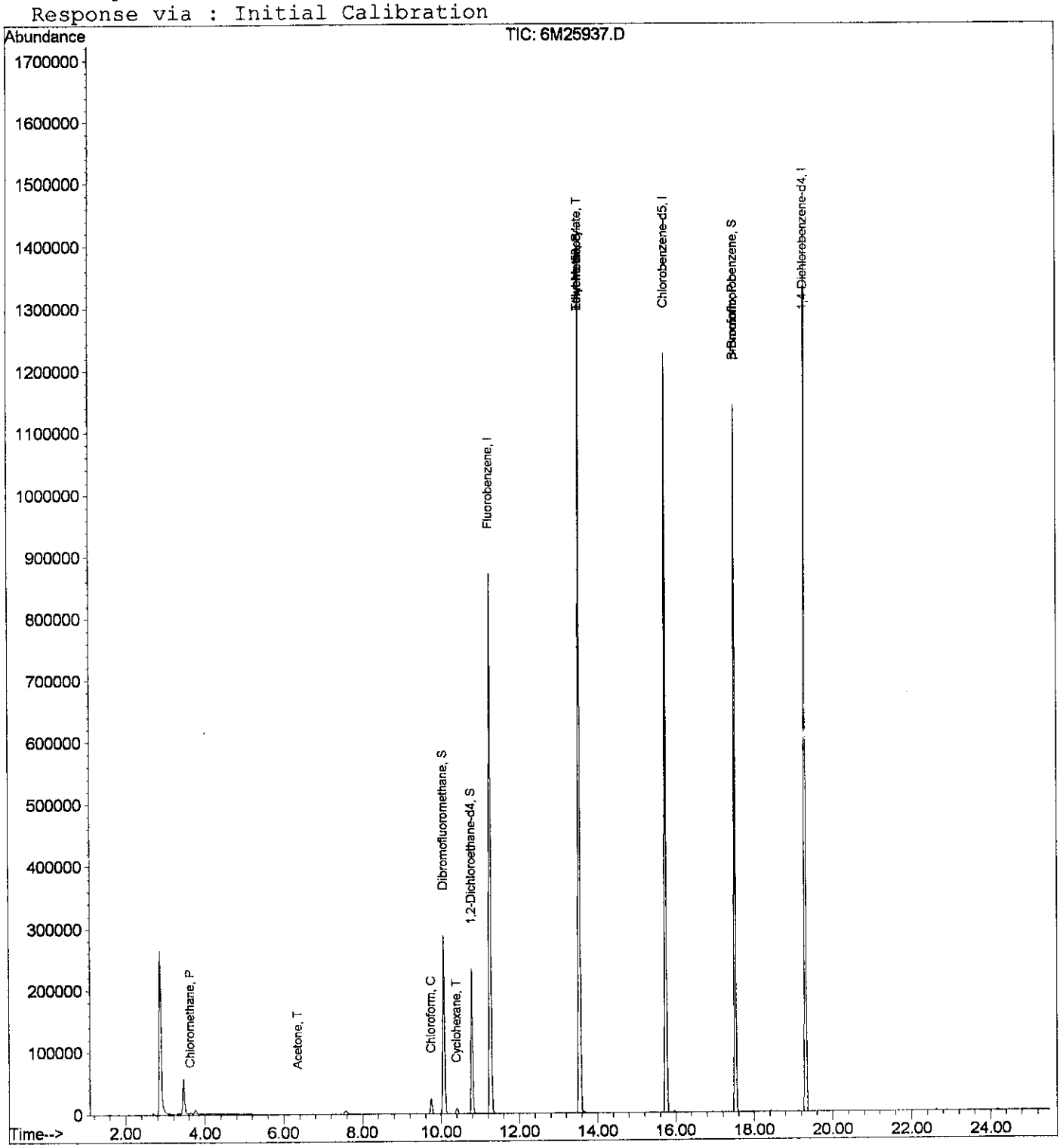
Tgt Ion:118 Resp: 100

Ion	Ratio	Lower	Upper
118	100		
103	0.0	45.7	68.5#



Data File : C:\HPCHEM\1\DATA\052401\6M25937.D Vial: 12
Acq On : 24 May 2001 13:42 Operator: CMS
Sample : L0105526-04 A 826-SPE-VO 00 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:08 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:38:09 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\6M25937.D Vial: 12
Acq On : 24 May 2001 13:42 Operator: CMS
Sample : L0105526-04 A 826-SPE-VO 00 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:08 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:38:09 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1149608	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	998126	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	538165	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	291568	23.07	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 92.28%			
33) 1,2-Dichloroethane-d4	10.79	65	252081	23.93	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.72%			
45) Toluene-d8	13.55	98	1414976	24.44	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.76%			
66) p-Bromofluorobenzene	17.52	95	541868	25.89	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.56%			
Target Compounds						Qvalue
3) Chloromethane	3.65	50	3063	~~0.18~~	ug/L #	80
11) Acetone	6.37	43	1059	~~0.95~~	ug/L #	46
26) Chloroform	9.75	83	30073	1.37	ug/L F	97
30) Cyclohexane	10.40	56	7646	~~0.32~~	ug/L	90
47) Ethyl Methacrylate	13.55	69	2730	~~0.37~~	ug/L #	1
62) Bromoform	17.52	173	1164	~~1.67~~	ug/L #	1

(#) = qualifier out of range (m) = manual integration
6M25937.D 8260WTR.M Thu May 24 14:08:25 2001 Page 1

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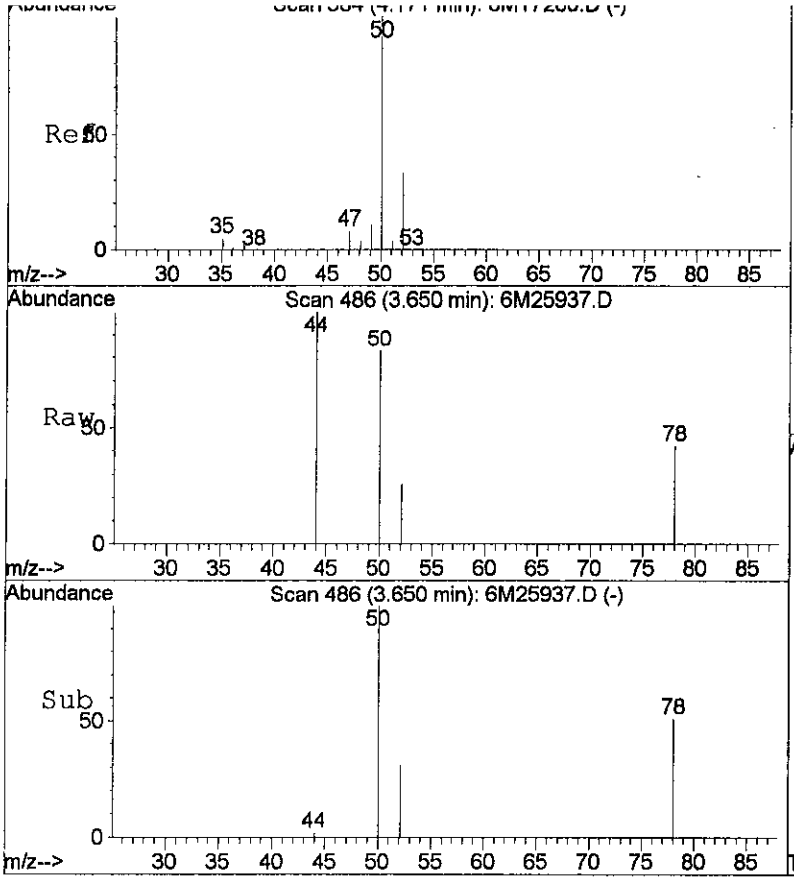
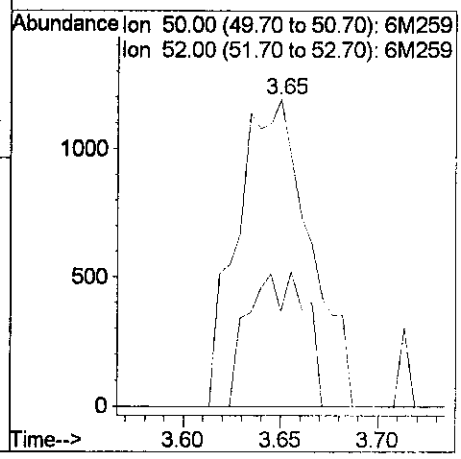
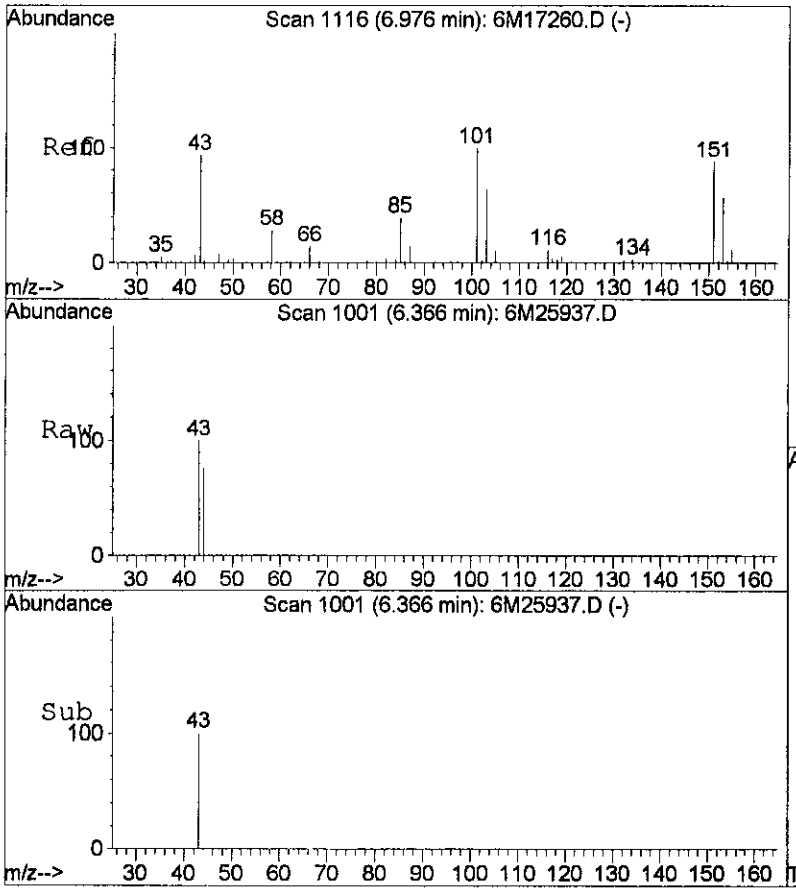


#3
Chloromethane
Concen: 0.18 ug/L
RT: 3.65 min Scan# 486
Delta R.T. 0.01 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

Tgt Ion: 50 Resp: 3063

Ion	Ratio	Lower	Upper
50	100		
52	21.0	25.9	38.9#

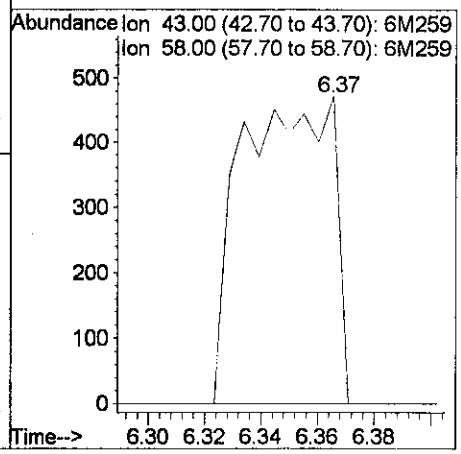


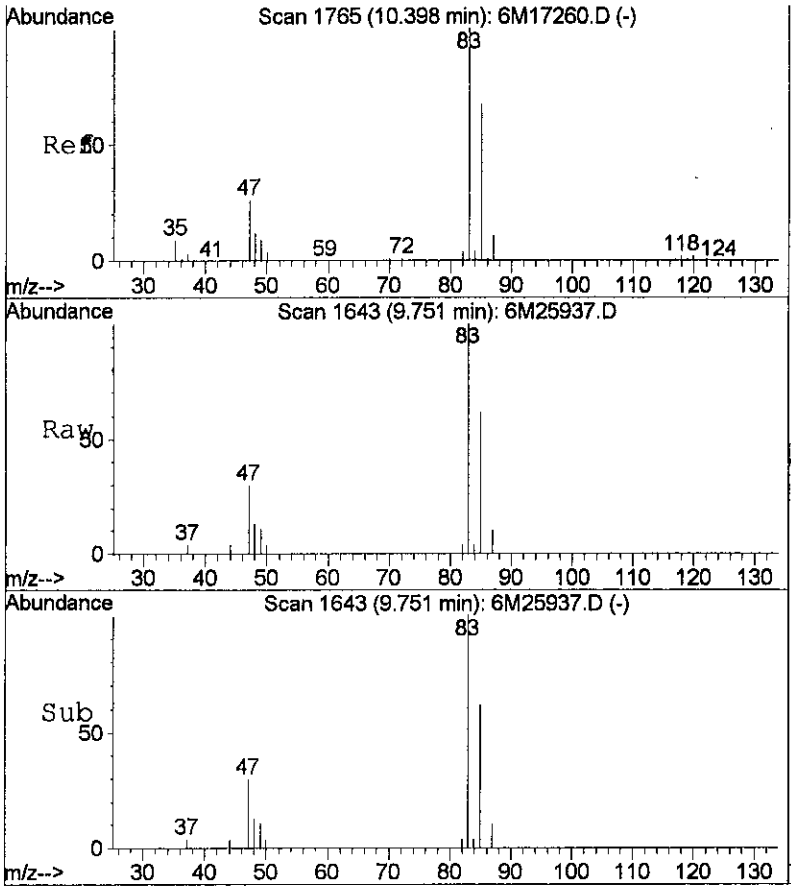


#11
Acetone
Concen: 0.95 ug/L
RT: 6.37 min Scan# 1001
Delta R.T. 0.03 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

Tgt Ion: 43 Resp: 1059

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

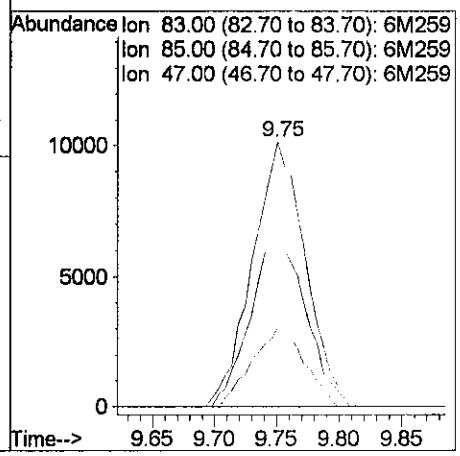


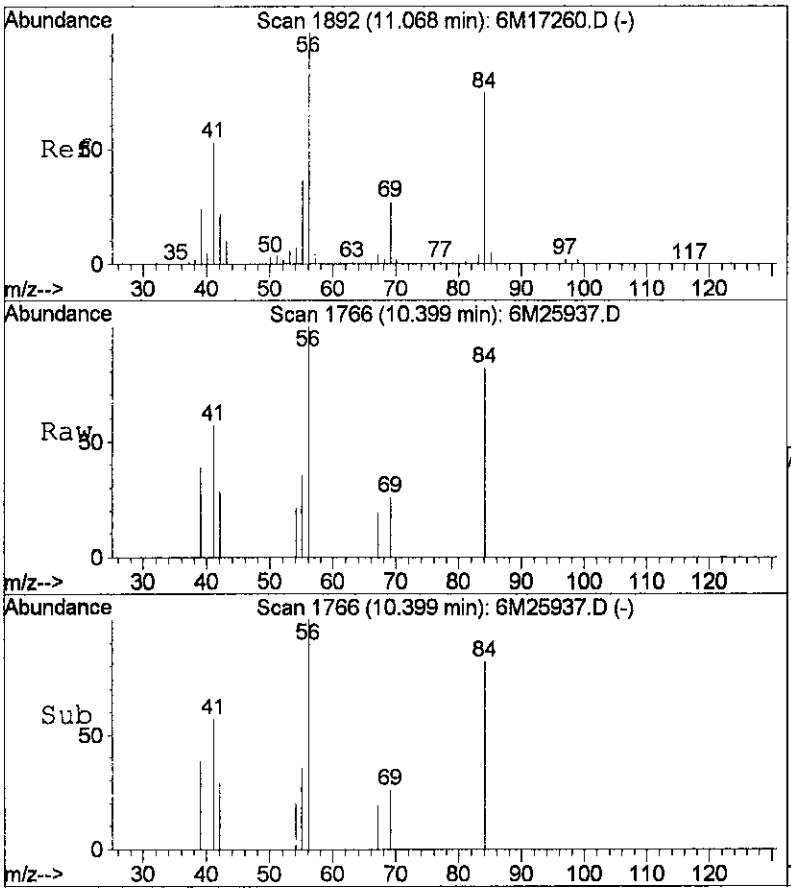


#26
Chloroform
Concen: 1.37 ug/L
RT: 9.75 min Scan# 1643
Delta R.T. -0.00 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

Tgt Ion: 83 Resp: 30073

Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.2	78.2
47	29.5	21.1	31.7

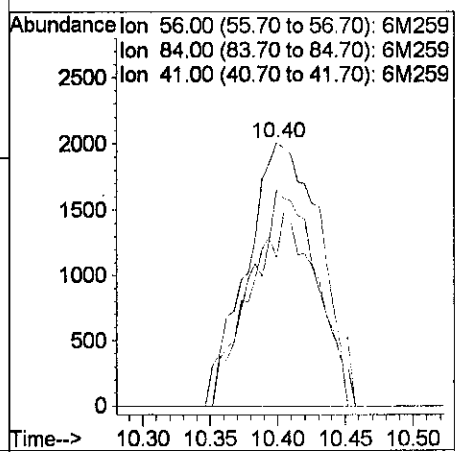


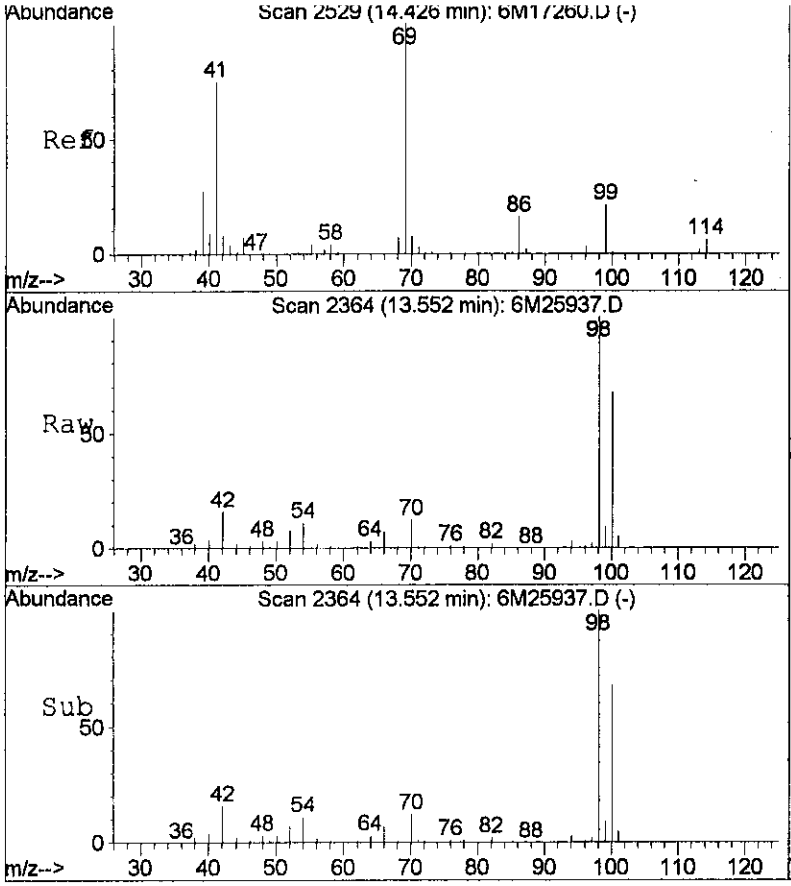


#30
Cyclohexane
Concen: 0.32 ug/L
RT: 10.40 min Scan# 1766
Delta R.T. -0.00 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

Tgt Ion: 56 Resp: 7646

Ion	Ratio	Lower	Upper
56	100		
84	74.6	64.3	96.5
41	67.3	45.2	67.8

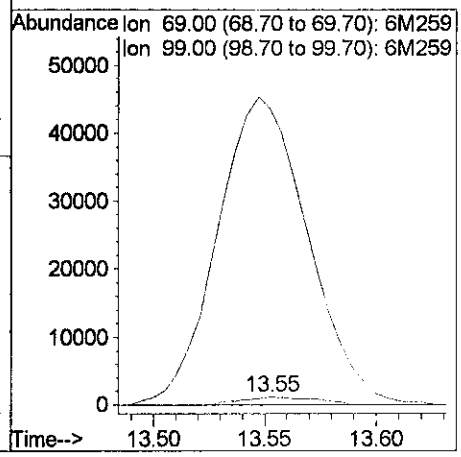


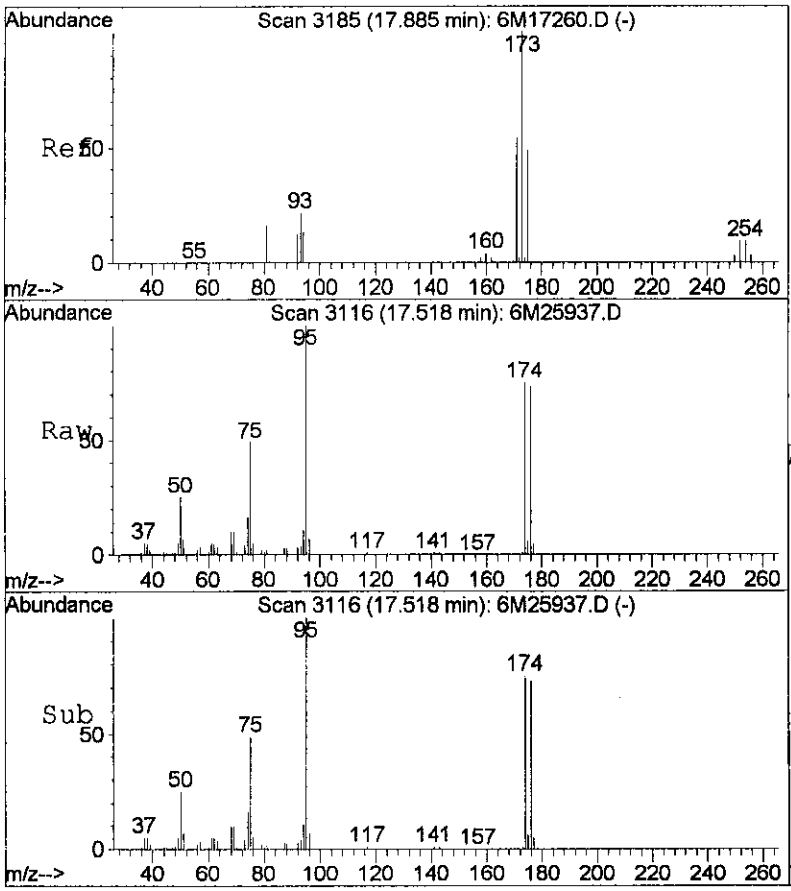


#47
Ethyl Methacrylate
Concen: 0.37 ug/L
RT: 13.55 min Scan# 2364
Delta R.T. -0.25 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

Tgt Ion: 69 Resp: 2730

Ion	Ratio	Lower	Upper
69	100		
99	4692.6	16.6	24.8#

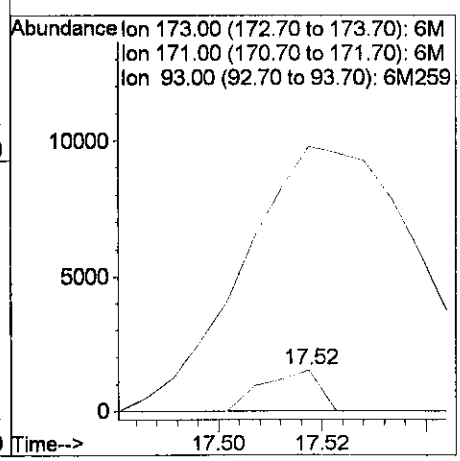




#62
Bromoform
Concen: 1.67 ug/L
RT: 17.52 min Scan# 3116
Delta R.T. 0.31 min
Lab File: 6M25937.D
Acq: 24 May 2001 13:42

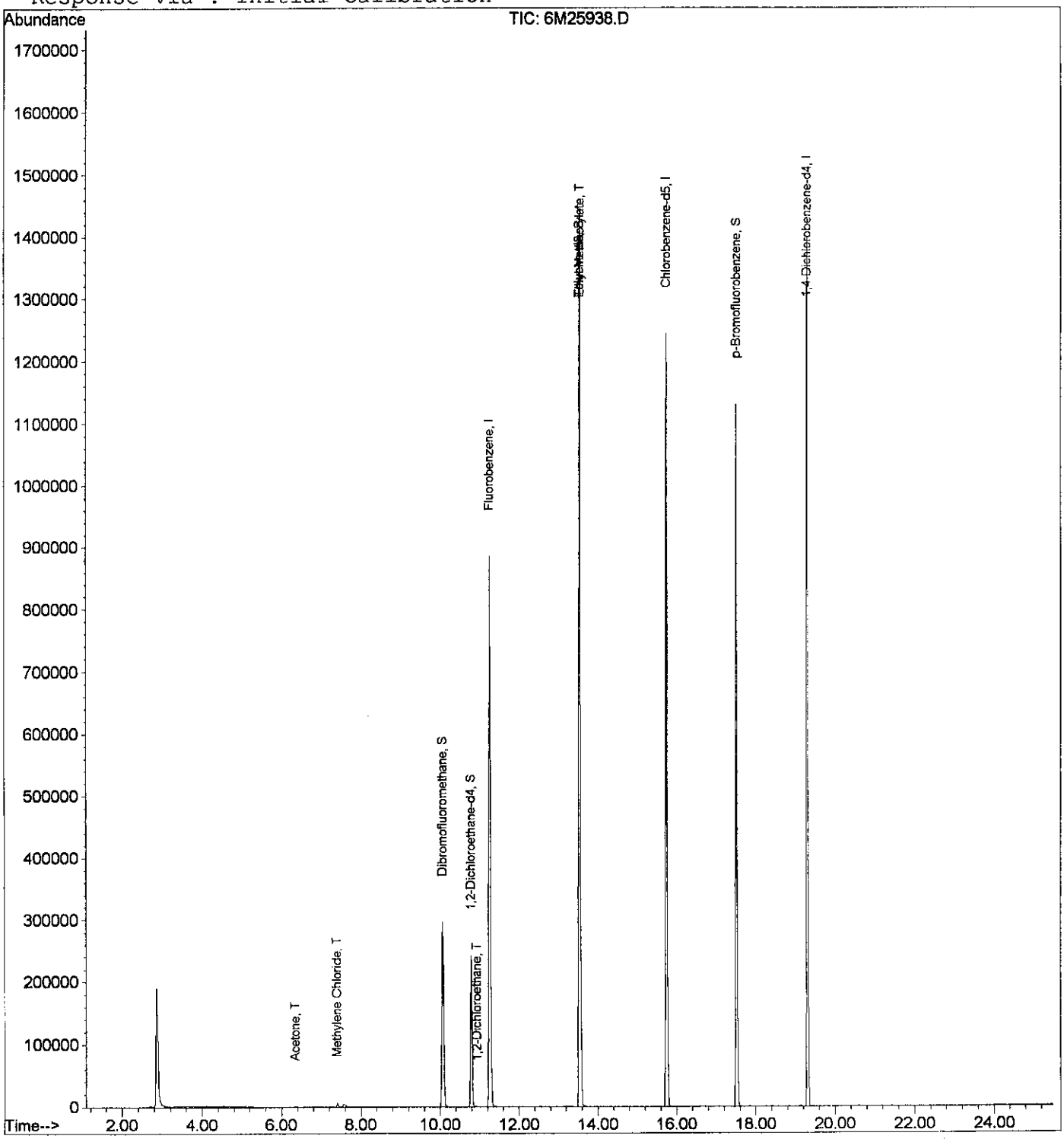
Tgt Ion:173 Resp: 1164

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	1995.7	18.2	27.2#



Data File : C:\HPCHEM\1\DATA\052401\6M25938.D Vial: 13
Acq On : 24 May 2001 14:14 Operator: CMS
Sample : L0105526-05 A 826-SPE-VO 00 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:40 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\6M25938.D Vial: 13
Acq On : 24 May 2001 14:14 Operator: CMS
Sample : L0105526-05 A 826-SPE-VO 00 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:40 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1162697	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	998293	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	533492	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	300779	23.53	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.12%			
33) 1,2-Dichloroethane-d4	10.80	65	259555	24.36	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.44%			
45) Toluene-d8	13.55	98	1417961	24.49	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.96%			
66) p-Bromofluorobenzene	17.52	95	537962	25.92	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.68%			
Target Compounds						Qvalue
11) Acetone	6.36	43	2373	~~2.10 ug/L~~	#	46
15) Methylene Chloride	7.40	84	4439	0.38 ug/L	#F	73
34) 1,2-Dichloroethane	10.94	62	1632	~~0.12 ug~~/L	#	58
47) Ethyl Methacrylate	13.56	69	2971	~~0.40 ug~~/L	#	1

(#) = qualifier out of range (m) = manual integration
6M25938.D 8260WTR.M Thu May 24 14:40:48 2001 Page 1

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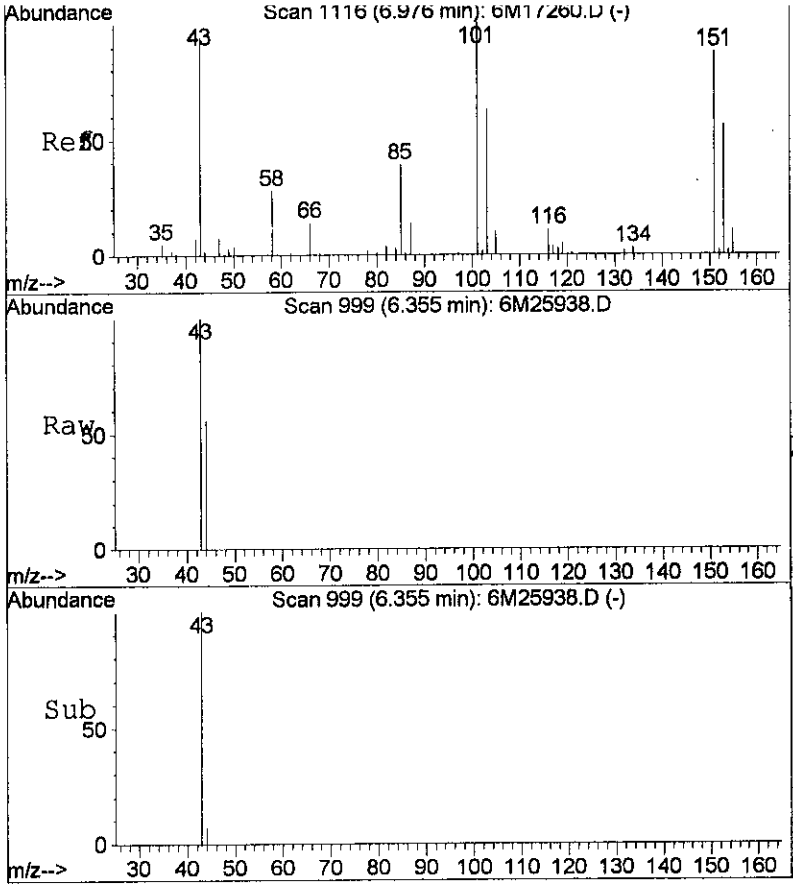
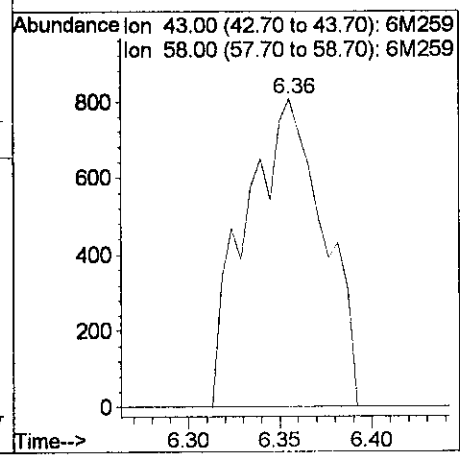
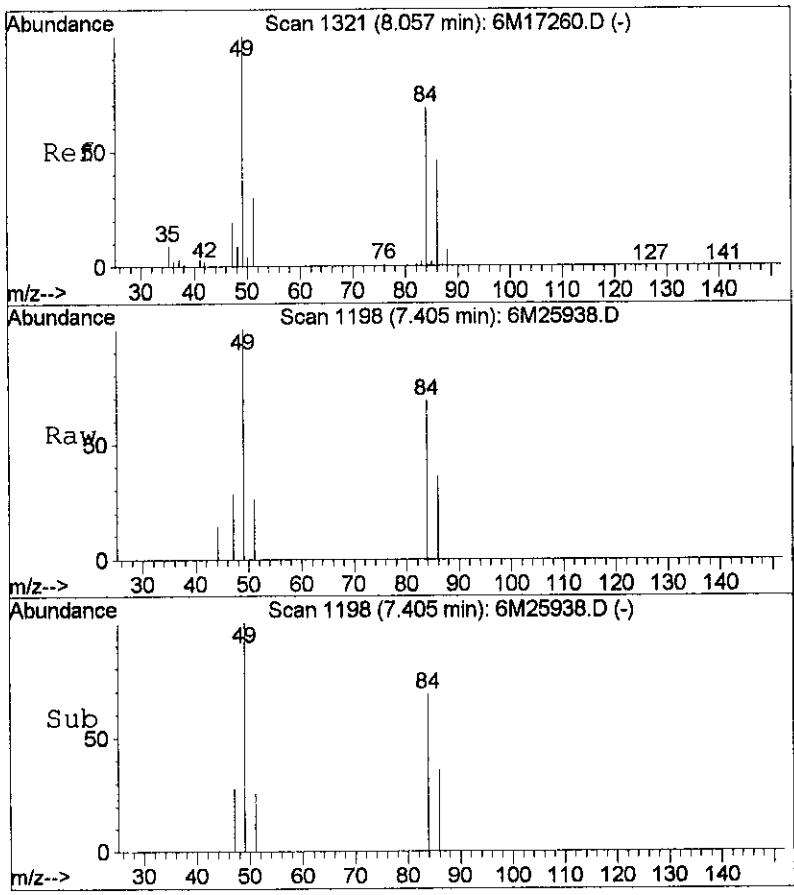


#11
Acetone
Concen: 2.10 ug/L
RT: 6.36 min Scan# 999
Delta R.T. 0.01 min
Lab File: 6M25938.D
Acq: 24 May 2001 14:14

Tgt Ion: 43 Resp: 2373

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.0	34.4#

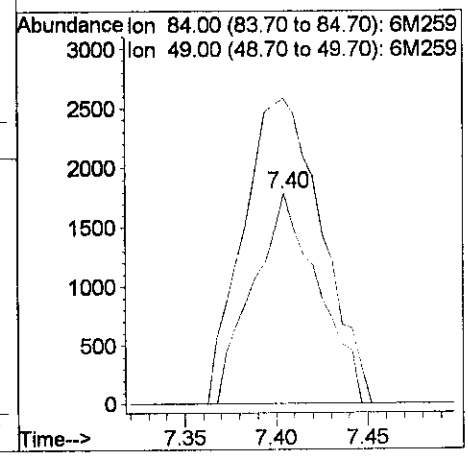


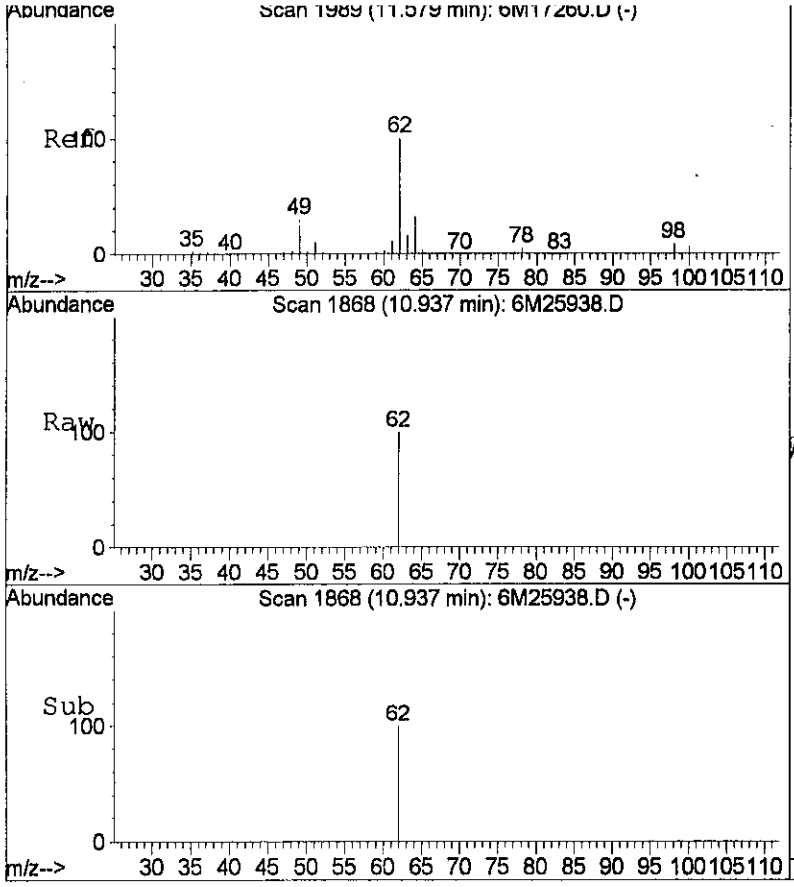


#15
Methylene Chloride
Concen: 0.38 ug/L
RT: 7.40 min Scan# 1198
Delta R.T. -0.00 min
Lab File: 6M25938.D
Acq: 24 May 2001 14:14

Tgt Ion: 84 Resp: 4439

Ion	Ratio	Lower	Upper
84	100		
49	174.3	112.8	169.2#

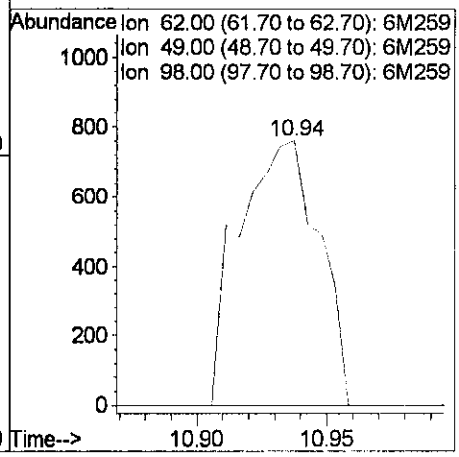


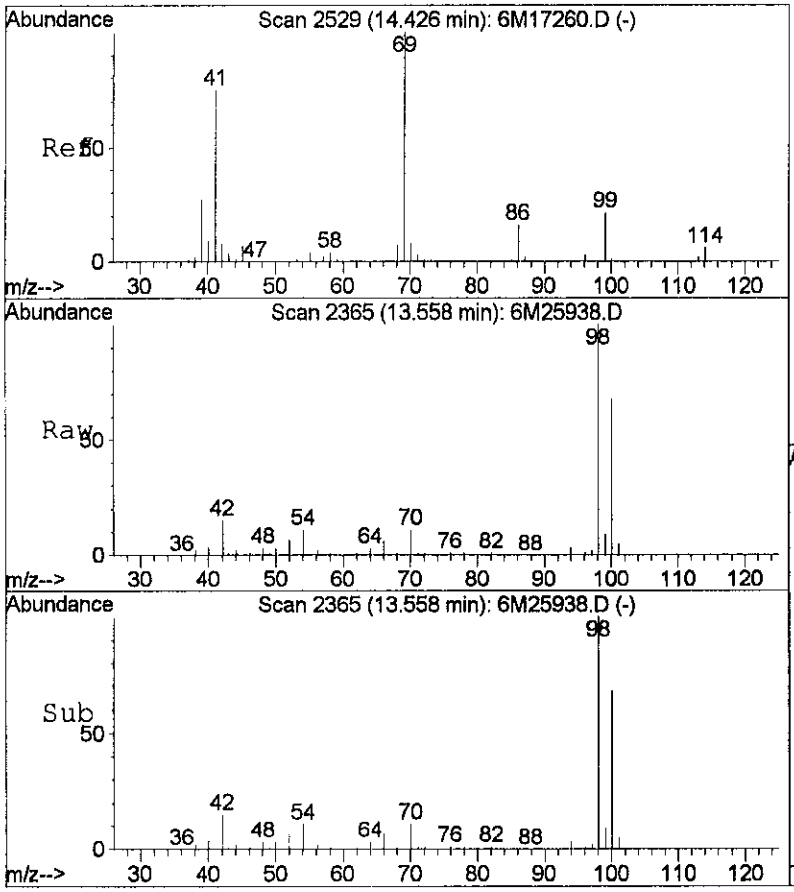


#34
1,2-Dichloroethane
Concen: 0.12 ug/L
RT: 10.94 min Scan# 1868
Delta R.T. 0.01 min
Lab File: 6M25938.D
Acq: 24 May 2001 14:14

Tgt Ion: 62 Resp: 1632

Ion	Ratio	Lower	Upper
62	100		
49	0.0	19.1	28.7#
98	0.0	8.0	12.0#

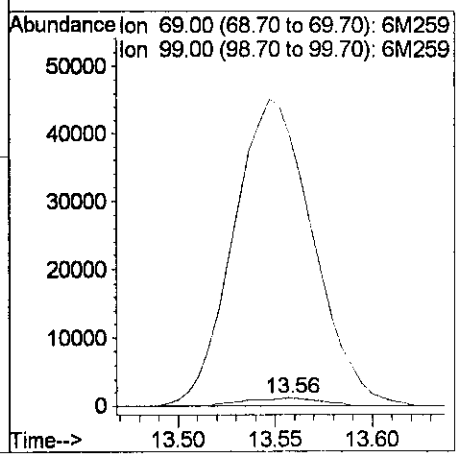




#47
Ethyl Methacrylate
Concen: 0.40 ug/L
RT: 13.56 min Scan# 2365
Delta R.T. -0.25 min
Lab File: 6M25938.D
Acq: 24 May 2001 14:14

Tgt Ion: 69 Resp: 2971

Ion	Ratio	Lower	Upper
69	100		
99	4304.5	16.6	24.8#



2.1.1.3 Standards Data

Calibration Table Report

Method: 8260SOIL.M

Title: Method 8260B Soil Analysis 05/11/2001 - HPMS 9

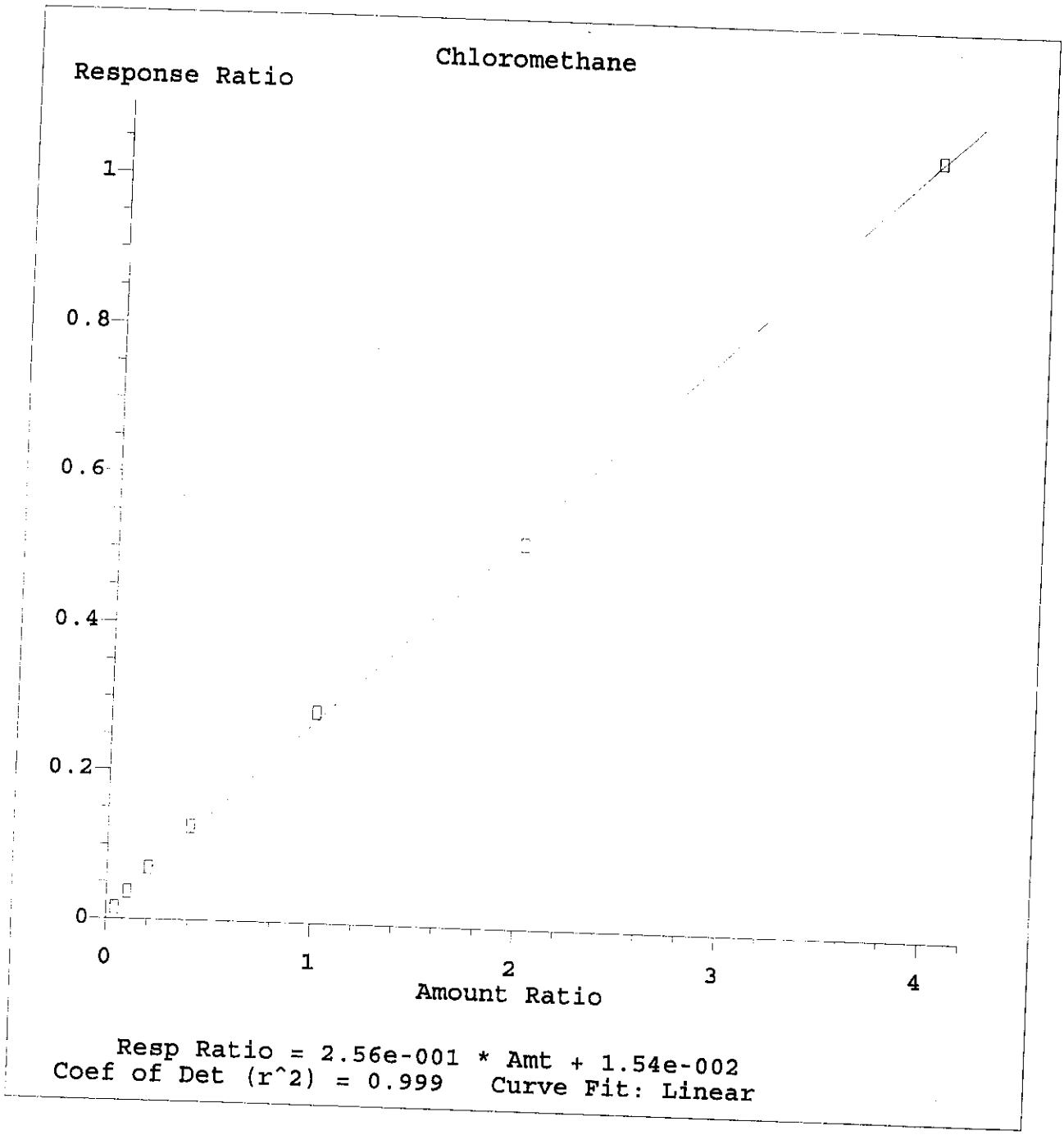
Last Calibration: Fri May 11 16:48:37 2001

Calibration Files

	Compound	1	2	5	10	20	200	50	100	Avg	%RSD	
		9M16556.D	9M16557.D	9M16558.D	9M16559.D	9M16560.D	9M16563.D	9M16561.D	9M16562.D			
I	Fluorobenzene	ISTD										
T	Dichlorodifluoromethane			0.713	0.685	0.621	0.512	0.595	0.555	0.614	12.426	
P	Chloromethane		0.396	0.376	0.350	0.315	0.261	0.283	0.258	0.320	17.336	LR r2=.999
C	Vinyl Chloride		0.333	0.296	0.288	0.249	0.173	0.229	0.217	0.255	21.268	QR r2=1.000
T	Bromomethane			0.174	0.162	0.147	0.120	0.141	0.129	0.145	13.910	
T	Chloroethane			0.157	0.154	0.146	0.122	0.134	0.128	0.140	10.194	
T	Trichlorofluoromethane		0.955	0.830	0.826	0.753	0.623	0.707	0.669	0.766	14.763	
T	Isoprene		0.340	0.353	0.335	0.360	0.403	0.388	0.401	0.368	7.740	
T	Acrolein			0.023	0.022	0.022	0.029	0.026	0.027	0.025	12.744	
T	1,1,2-Trichloro-1,2,2-Trifluoroet			0.376	0.366	0.343	0.303	0.331	0.316	0.339	8.394	
T	Acetone			0.120	0.089	0.073	0.062	0.071	0.064	0.080	27.358	LR r2=1.000
C	1,1-Dichloroethene		0.263	0.237	0.259	0.253	0.272	0.272	0.274	0.261	5.115	
T	Dimethyl Sulfide			0.140	0.178	0.193	0.227	0.214	0.225	0.196	17.023	LR r2=1.000
T	Iodomethane				0.135	0.159	0.189	0.174	0.188	0.169	13.528	
T	Methylene Chloride		0.343	0.295	0.280	0.256	0.252	0.254	0.252	0.276	12.285	
T	Carbon Disulfide	0.812	1.004	0.947	0.973	0.950	0.953	0.945	0.964	0.944	6.007	
T	Acrylonitrile			0.054	0.053	0.055	0.065	0.058	0.062	0.058	8.411	
T	Methyl Tert Butyl Ether			0.419	0.515	0.544	0.645	0.605	0.631	0.560	15.225	LR r2=1.000
T	trans-1,2-Dichloroethene	0.252	0.306	0.295	0.296	0.298	0.311	0.309	0.310	0.297	6.499	
T	n-Hexane			0.369	0.409	0.441	0.471	0.479	0.486	0.442	10.409	
T	Vinyl Acetate		0.172	0.220	0.259	0.296	0.381	0.349	0.364	0.292	26.922	LR r2=.999
P	1,1-Dichloroethane	0.566	0.612	0.575	0.585	0.561	0.553	0.576	0.563	0.574	3.207	
T	2-Butanone			0.065	0.063	0.069	0.085	0.081	0.081	0.074	12.717	
T	2,2-Dichloropropane		0.555	0.534	0.553	0.528	0.549	0.567	0.564	0.550	2.633	
T	cis-1,2-Dichloroethene		0.242	0.247	0.270	0.283	0.310	0.304	0.310	0.281	10.296	
C	Chloroform	0.592	0.670	0.608	0.620	0.585	0.562	0.583	0.570	0.599	5.750	
T	Bromochloromethane		0.118	0.116	0.115	0.113	0.119	0.117	0.118	0.116	1.842	
S	Dibromofluoromethane		0.344	0.333	0.327	0.312	0.279	0.290	0.286	0.310	8.170	
T	1,1,1-Trichloroethane		0.695	0.628	0.646	0.613	0.587	0.627	0.608	0.629	5.462	
T	Cyclohexane			0.392	0.445	0.493	0.530	0.520	0.536	0.486	11.680	
T	1,1-Dichloropropene	0.318	0.355	0.400	0.441	0.442	0.468	0.476	0.476	0.422	14.003	
T	Carbon Tetrachloride	0.498	0.601	0.560	0.568	0.529	0.510	0.539	0.530	0.542	6.179	
S	1,2-Dichloroethane-d4			0.434	0.412	0.388	0.326	0.358	0.338	0.376	11.366	
T	1,2-Dichloroethane	0.450	0.520	0.476	0.476	0.451	0.408	0.444	0.425	0.456	7.581	
T	Benzene	0.947	0.994	1.030	1.114	1.085	1.147	1.136	1.142	1.074	7.038	
T	Trichloroethene	0.232	0.283	0.260	0.276	0.274	0.304	0.295	0.301	0.278	8.625	
C	1,2-Dichloropropane	0.230	0.255	0.239	0.259	0.250	0.272	0.266	0.270	0.255	5.816	
T	Bromodichloromethane	0.386	0.425	0.403	0.415	0.404	0.407	0.411	0.407	0.407	2.771	
T	Dibromomethane	0.149	0.166	0.155	0.155	0.149	0.145	0.146	0.144	0.151	4.874	
T	2-Chloroethyl Vinyl Ether			0.025	0.033	0.050	0.106	0.076	0.091	0.063	51.477	QR r2=1.000
T	4-Methyl-2-Pentanone			0.045	0.049	0.062	0.082	0.071	0.072	0.063	22.707	LR r2=.997
T	cis-1,3-Dichloropropene		0.301	0.299	0.352	0.37	0.441	0.418	0.433	0.3736	15.975	LR r2=1.000
T	Dimethyl Disulfide			0.117	0.149	0.185	0.249	0.225	0.24	0.1942	27.438	LR r2=1.000
I	Chlorobenzene-d5	ISTD										
S	Toluene-d8		1.295	1.466	1.587	1.575	1.516	1.554	1.572	1.5092	6.8513	
C	Toluene	1.213	1.412	1.479	1.697	1.671	1.792	1.792	1.815	1.609	13.573	
T	Ethyl Methacrylate			0.241	0.286	0.31	0.391	0.351	0.367	0.3244	17.229	LR r2=.999
T	trans-1,3-Dichloropropene	0.399	0.468	0.479	0.539	0.547	0.591	0.592	0.594	0.5261	13.541	
T	1,1,2-Trichloroethane	0.247	0.285	0.273	0.288	0.277	0.297	0.298	0.292	0.2819	5.9187	
T	2-Hexanone			0.17	0.165	0.159	0.209	0.19	0.196	0.1815	10.871	
T	1,3-Dichloropropane	0.417	0.446	0.467	0.481	0.477	0.519	0.513	0.514	0.4793	7.5463	
T	Tetrachloroethene	0.314	0.331	0.331	0.351	0.337	0.359	0.367	0.368	0.3448	5.6838	

T	Dibromochloromethane	0.298	0.354	0.329	0.365	0.343	0.399	0.381	0.384	0.3567	9.2361	
T	1,2-Dibromoethane	0.23	0.256	0.238	0.251	0.245	0.285	0.269	0.272	0.2559	7.2049	
T	1-Chlorohexane		0.347	0.379	0.486	0.544	0.635	0.608	0.642	0.5201	23.221	LR r2=1.000
P	Chlorobenzene	1.113	1.176	1.095	1.13	1.074	1.102	1.113	1.105	1.1134	2.7087	
T	1,1,1,2-Tetrachloroethane	0.406	0.402	0.38	0.407	0.383	0.394	0.41	0.4	0.3978	2.7697	
C	Ethylbenzene	0.499	0.589	0.581	0.627	0.61	0.641	0.656	0.645	0.6059	8.3826	
T	m-,p-Xylene	0.567	0.691	0.709	0.802	0.776	0.812	0.812	0.816	0.7481	11.746	
T	o-Xylene			0.527	0.657	0.692	0.767	0.75	0.757	0.6918	13.19	
T	Styrene		0.843	0.934	1.133	1.133	1.288	1.231	1.253	1.1167	15.067	LR r2=1.000
P	Bromoform		0.219	0.2	0.229	0.22	0.267	0.248	0.249	0.233	9.7309	
T	Isopropylbenzene			1.529	1.849	1.944	2.222	2.136	2.188	1.9781	13.338	
I	1,4-Dichlorobenzene-d4	ISTD										
P	1,1,2,2-Tetrachloroethane	0.516	0.655	0.554	0.554	0.549	0.643	0.584	0.586	0.5802	8.271	
S	p-Bromofluorobenzene			1.049	1.033	1.02	1.058	1.017	1.032	1.0348	1.5716	
T	1,2,3-Trichloropropane	0.132	0.201	0.187	0.185	0.178	0.201	0.188	0.183	0.1818	11.962	
T	trans-1,4-Dichloro-2-Butene			0.138	0.156	0.161	0.206	0.181	0.184	0.171	14.151	
T	n-Propylbenzene		3.384	3.681	4.331	4.369	4.917	4.641	4.714	4.2912	13.103	
T	Bromobenzene	0.588	0.748	0.717	0.753	0.759	0.824	0.782	0.783	0.7441	9.468	
T	1,3,5-Trimethylbenzene		2.066	2.203	2.659	2.729	3.175	2.961	3.011	2.6864	15.507	LR r2=.999
T	2-Chlorotoluene	2.091	2.481	2.499	2.9	2.634	3.024	2.917	2.739	2.6607	11.405	
T	4-Chlorotoluene	1.848	2.428	2.571	2.673	2.751	2.885	2.724	2.712	2.5741	12.527	
T	a-Methylstyrene		0.876	0.909	1.194	1.252	1.663	1.446	1.506	1.2636	23.55	LR r2=.998
T	tert-Butylbenzene		2.012	2.56	3.082	2.92	3.182	3.176	3.047	2.8542	15.005	LR r2=1.000
T	1,2,4-Trimethylbenzene		2.515	2.714	2.969	2.954	3.228	3.071	3.069	2.9313	8.2347	
T	sec-Butylbenzene		2.924	3.126	3.588	3.651	4.282	4.013	4.03	3.6591	13.568	
T	p-Isopropyltoluene			2.449	3.03	3.152	3.64	3.409	3.411	3.1819	13.145	
T	1,3-Dichlorobenzene	1.347	1.426	1.404	1.432	1.422	1.448	1.506	1.506	1.4364	3.6417	
T	1,4-Dichlorobenzene	1.486	1.711	1.511	1.497	1.445	1.439	1.531	1.512	1.5166	5.6122	
T	n-Butylbenzene	2.311	2.679	2.741	3.134	3.149	3.279	3.421	3.418	3.0165	13.22	
T	1,2-Dichlorobenzene	1.114	1.287	1.207	1.291	1.277	1.278	1.348	1.33	1.2665	5.8733	
T	1,2-Dibromo-3-Chloropropane		0.112	0.101	0.092	0.102	0.128	0.124	0.122	0.1115	12.337	
T	1,2,4-Trichlorobenzene	0.85	0.963	0.902	0.933	0.95	0.981	1.073	1.057	0.9636	7.7329	
T	Hexachlorobutadiene	0.668	0.776	0.679	0.752	0.722	0.719	0.766	0.753	0.7295	5.445	
T	Naphthalene	1.327	1.48	1.387	1.513	1.592	1.754	1.849	1.821	1.5904	12.481	
T	1,2,3-Trichlorobenzene	0.85	0.963	0.902	0.933	0.95	0.981	1.073	1.057	0.9636	7.7329	

Fri May 11 16:49:20 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:29:27 2001

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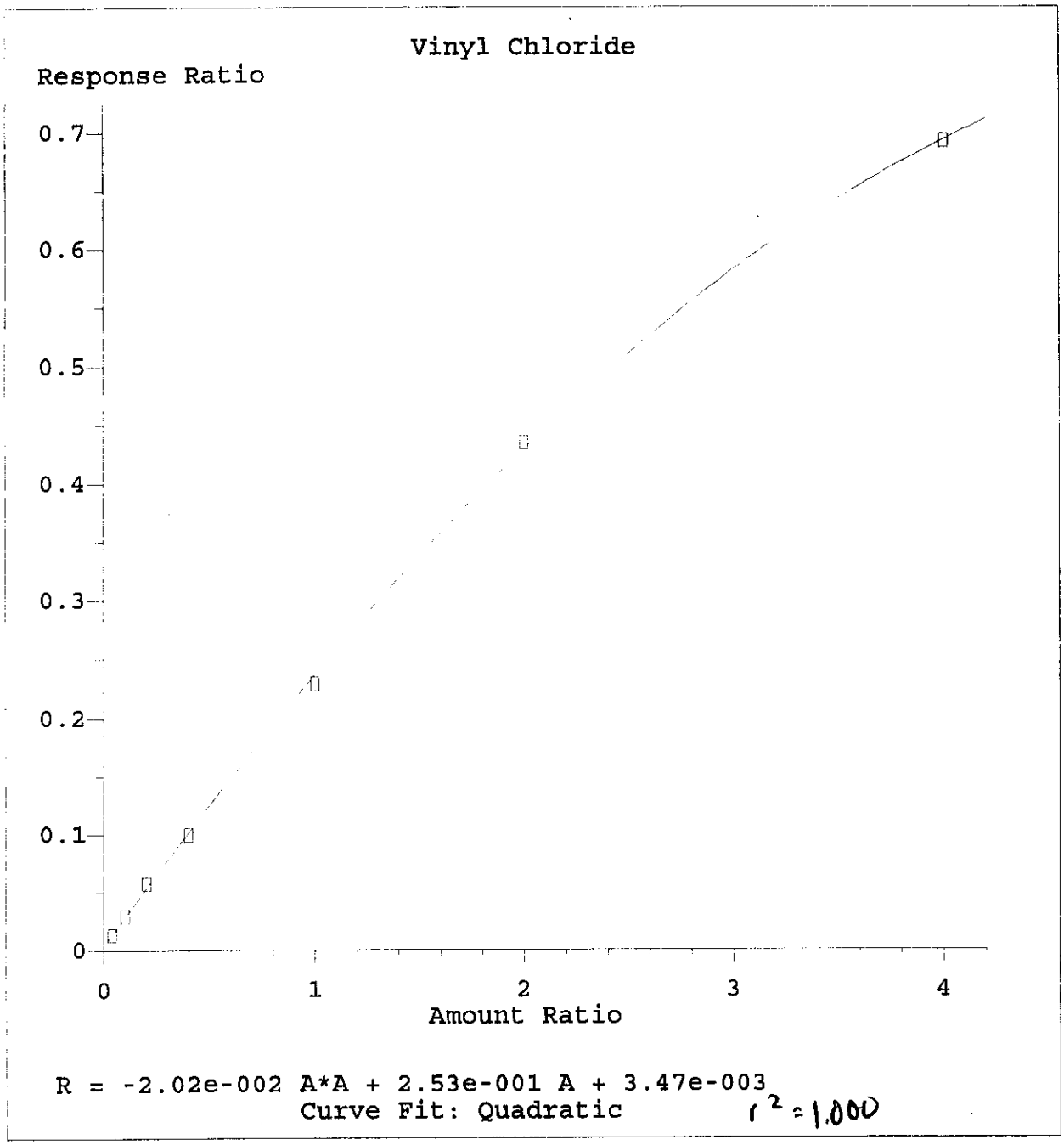

Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:30:10 2001

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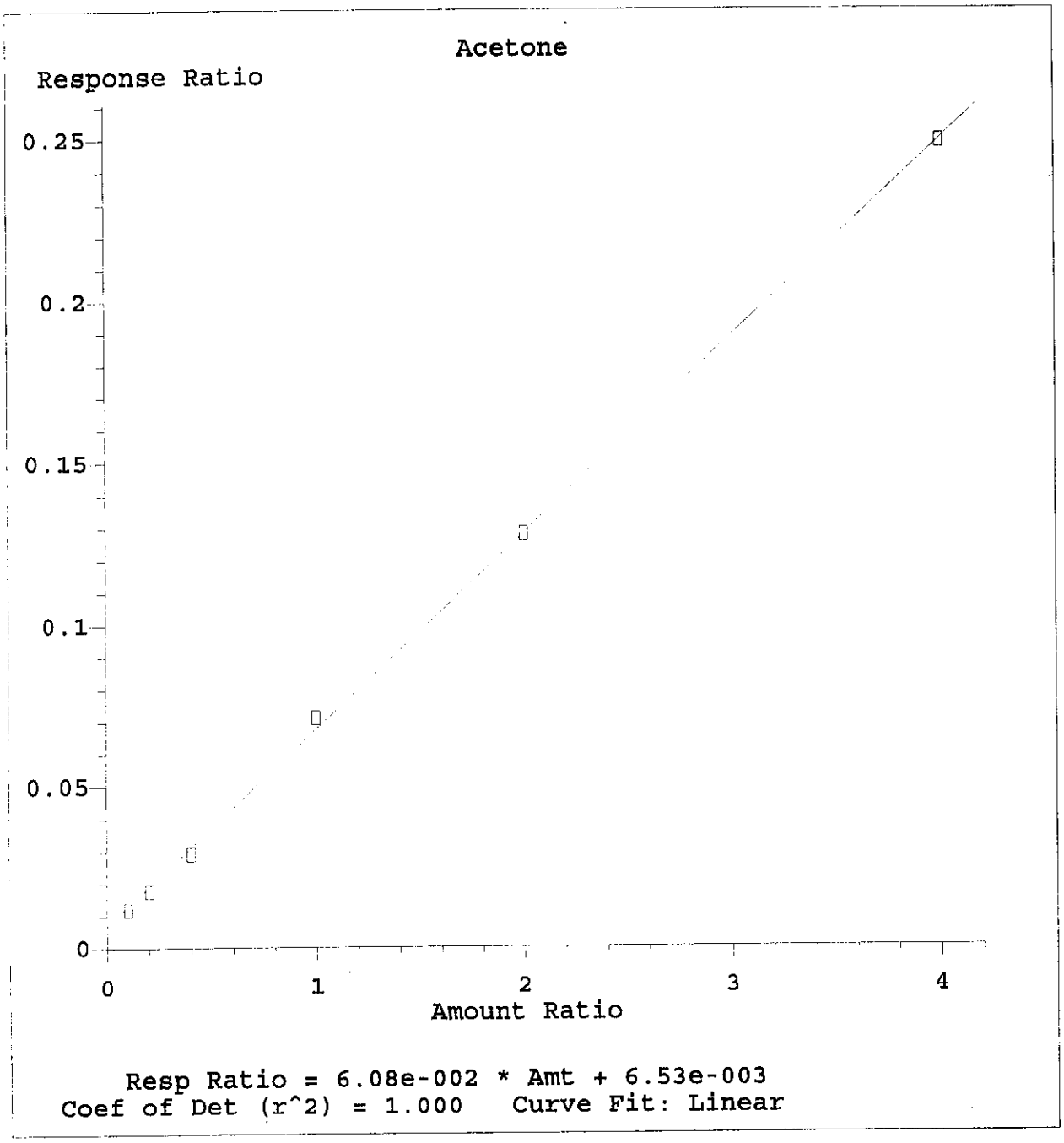

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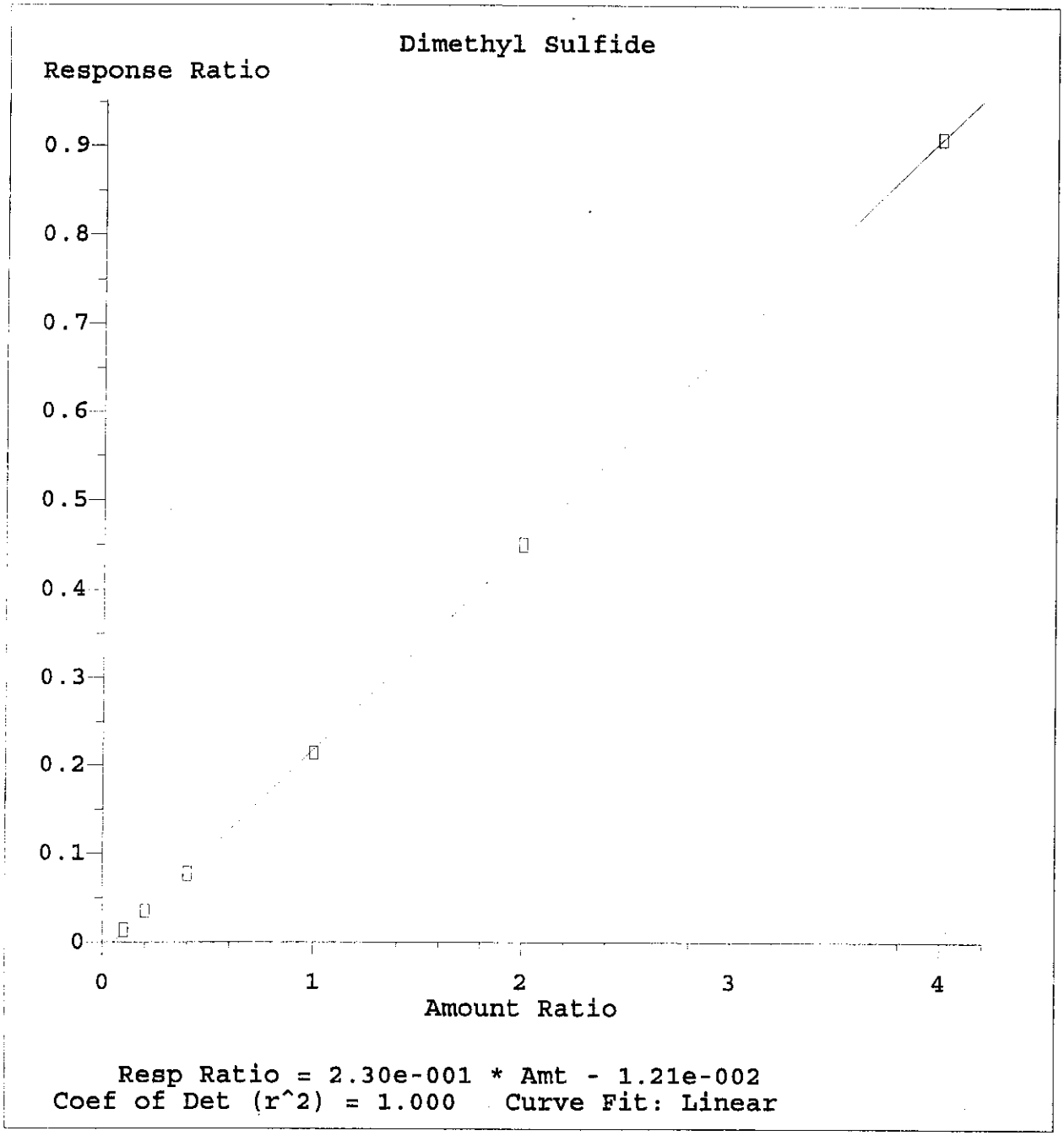
Calibration Table Last Updated: Fri May 11 16:32:12 2001



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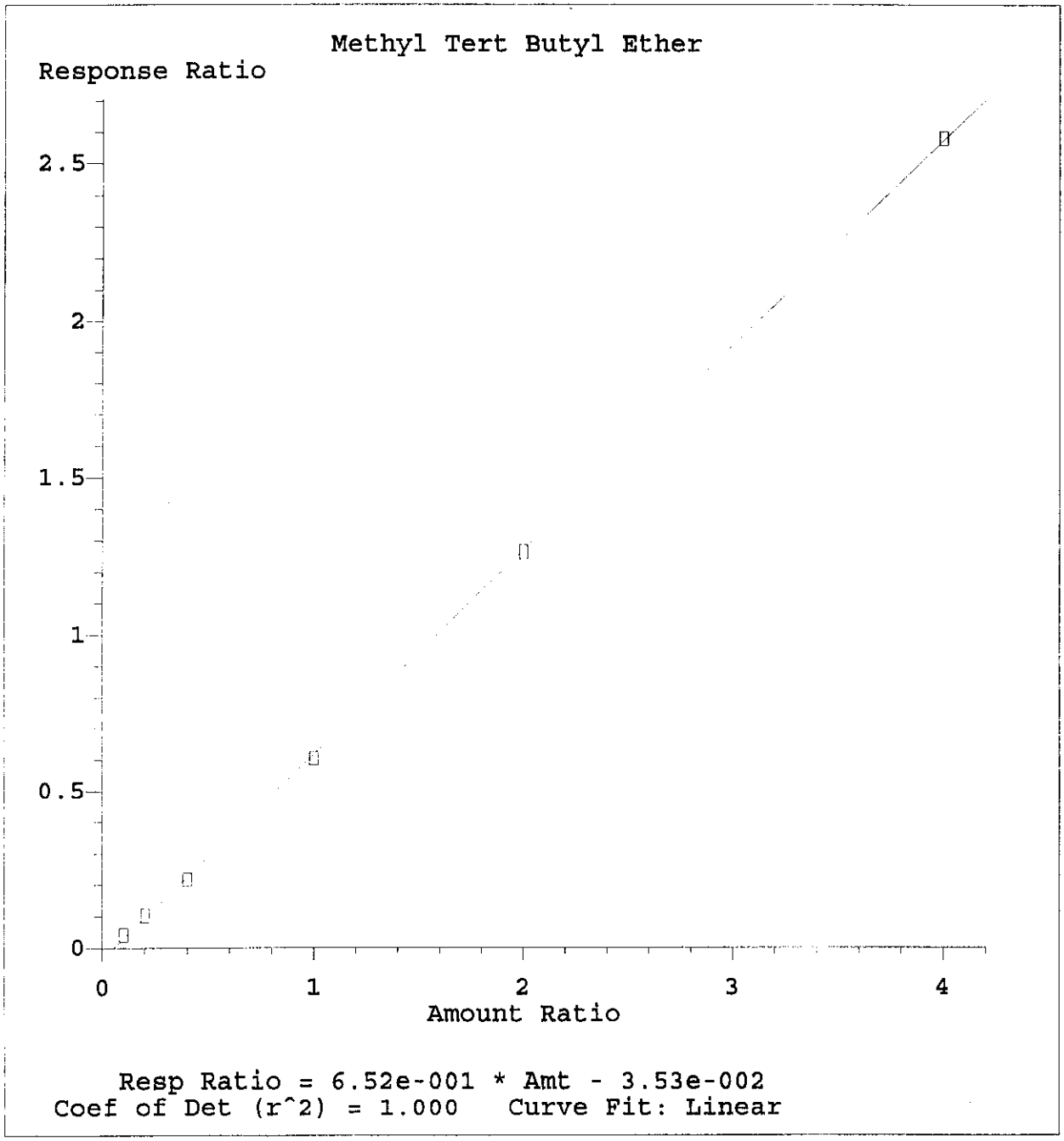
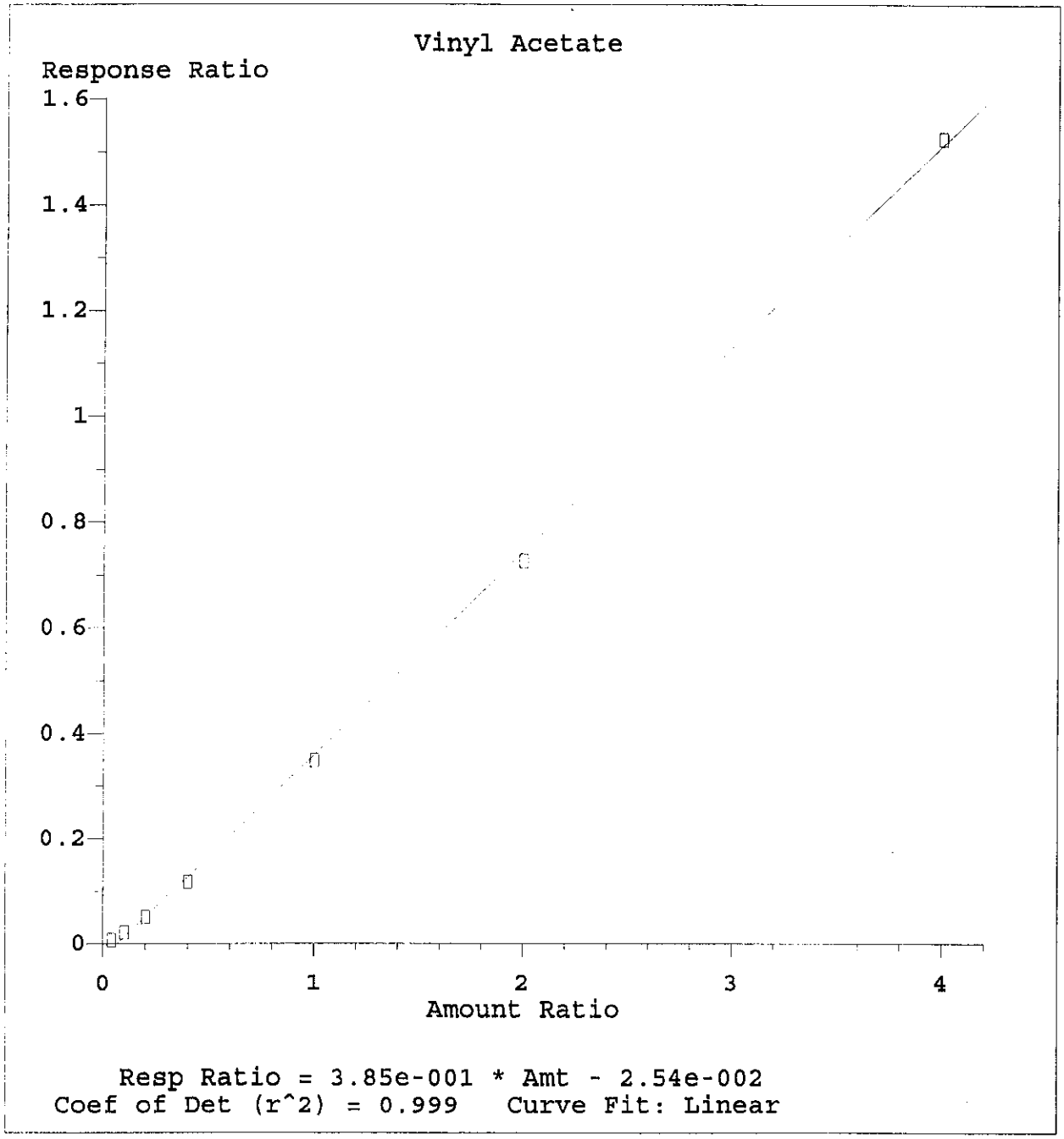
Calibration Table Last Updated: Fri May 11 16:33:58 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:37:23 2001



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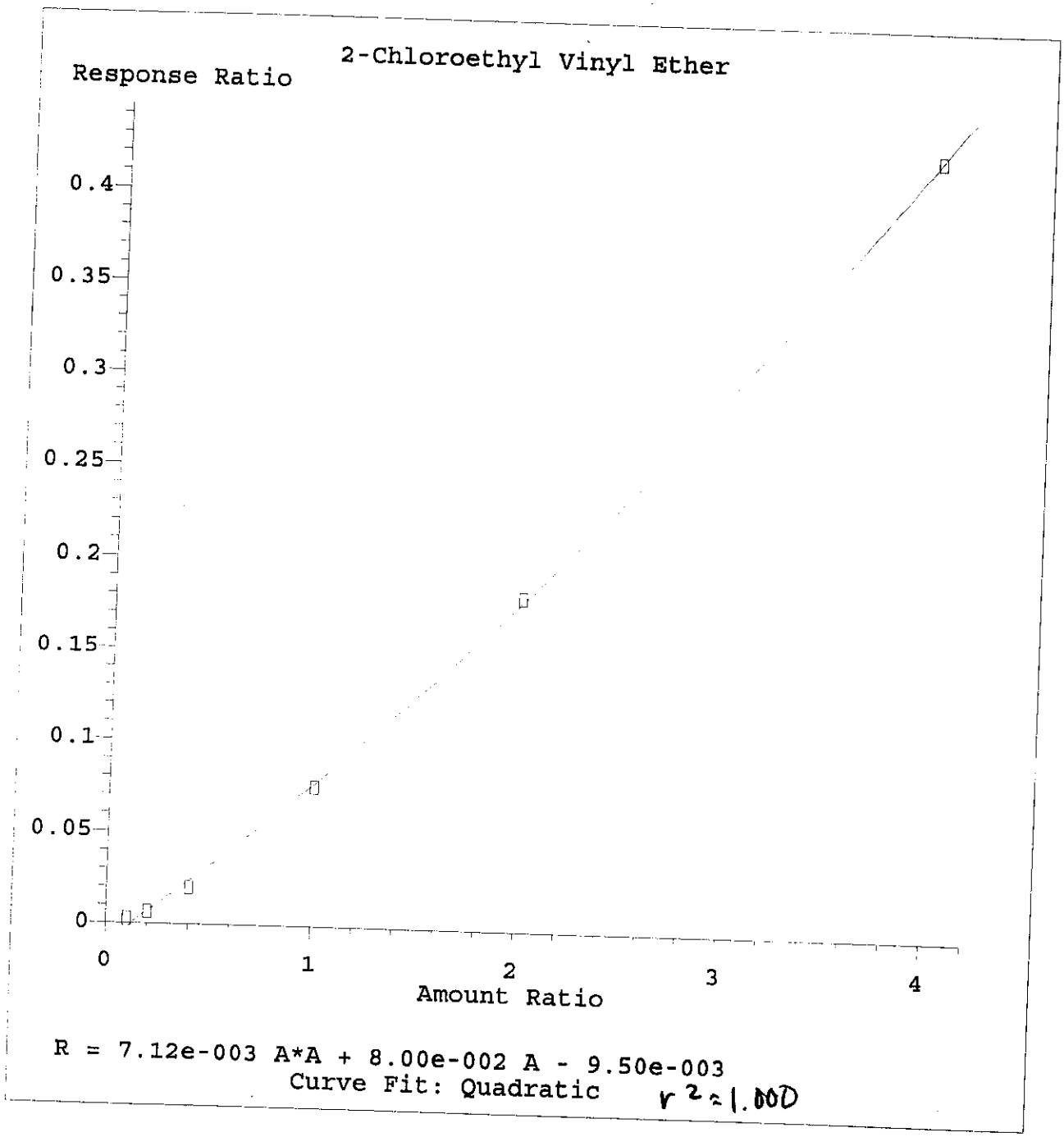
Calibration Table Last Updated: Fri May 11 16:38:27 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:40:03 2001

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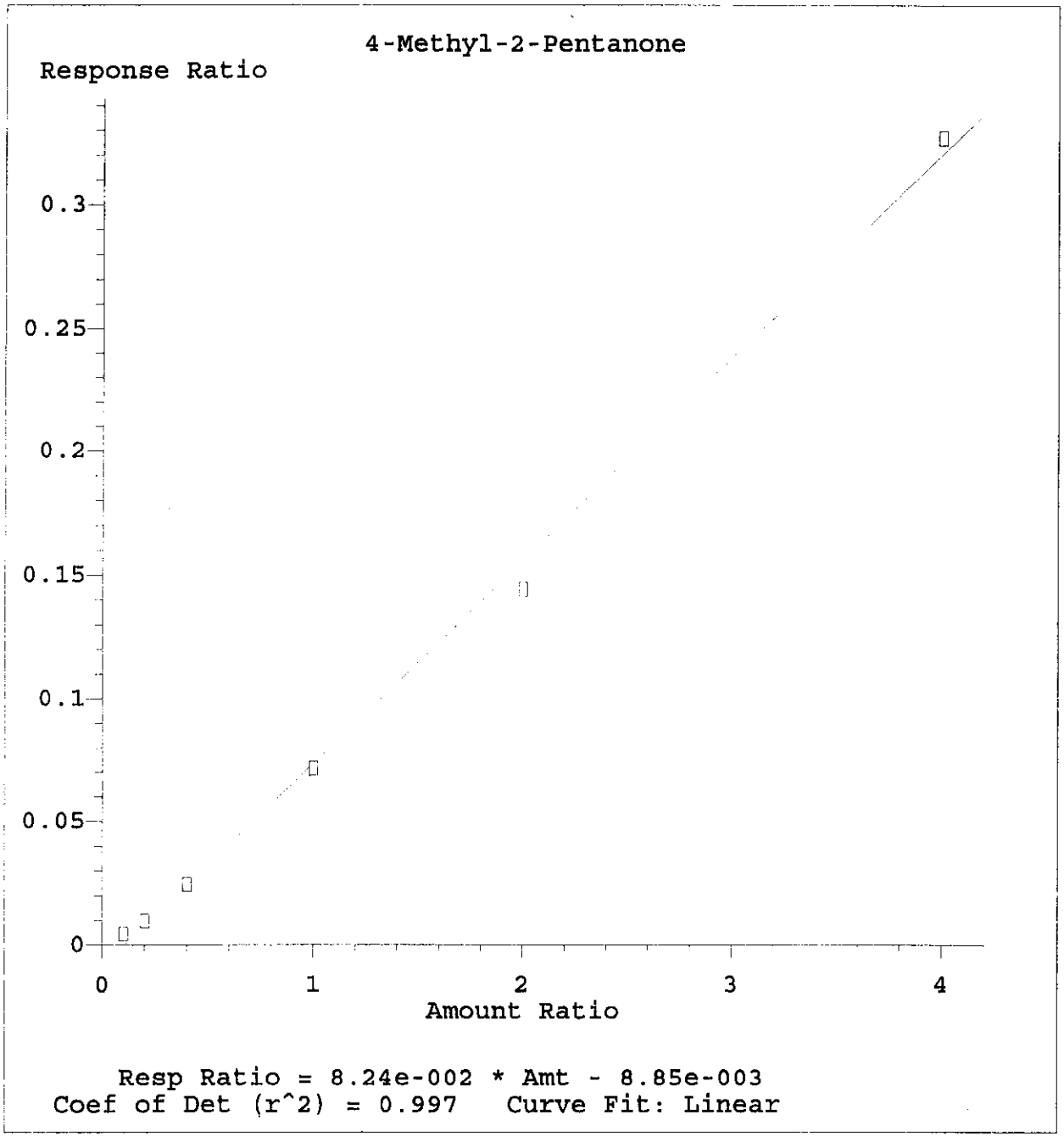

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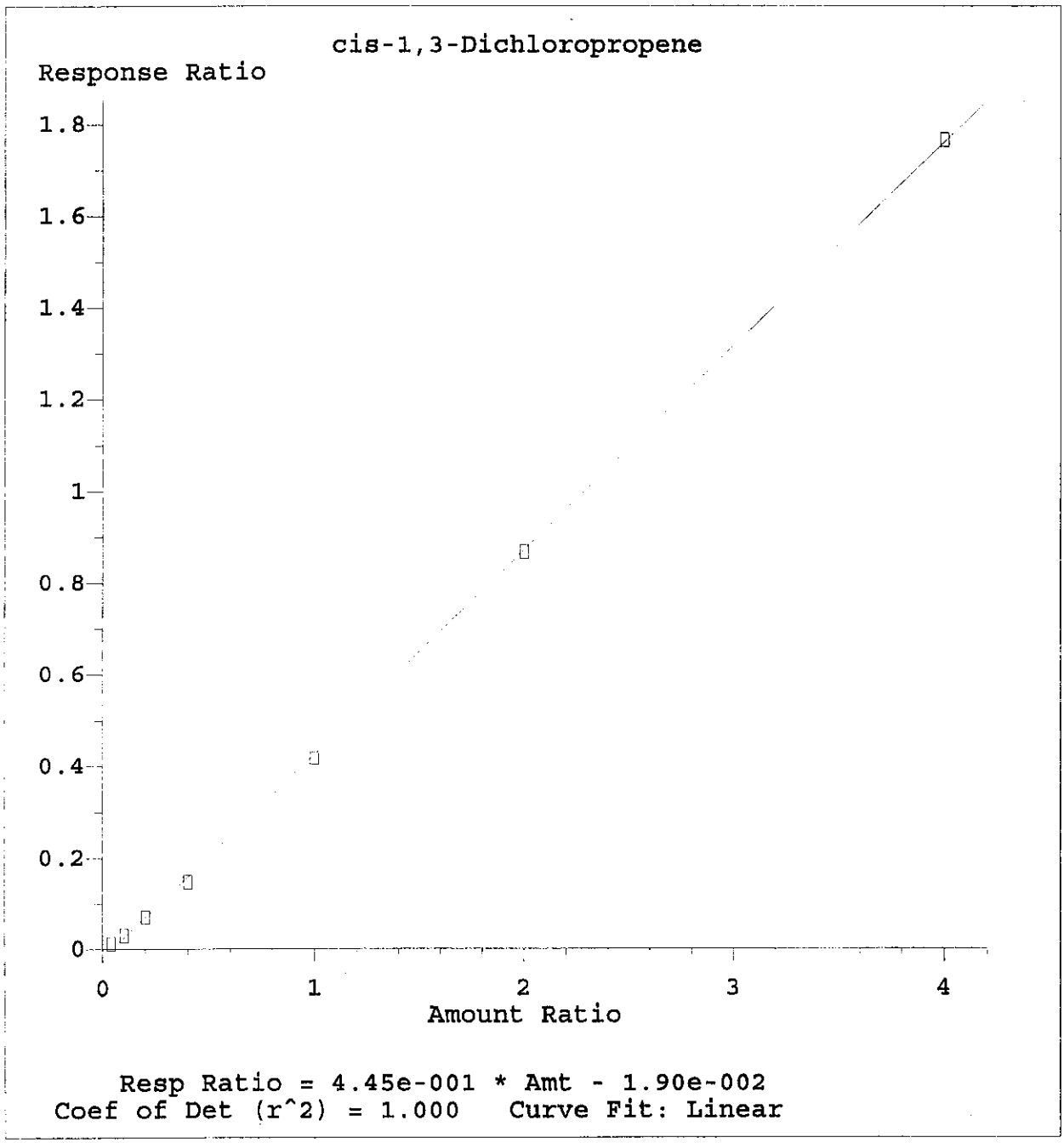
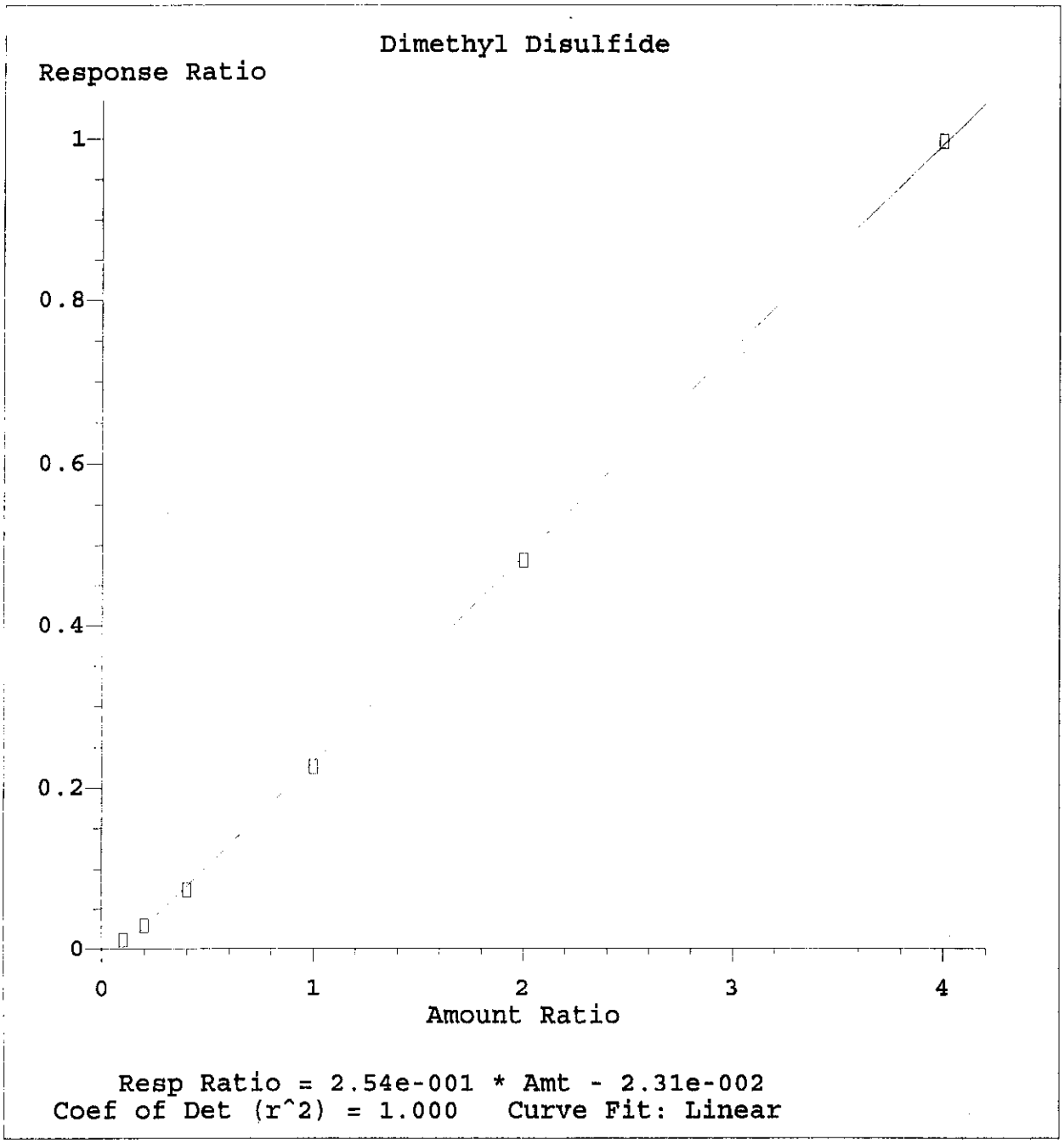
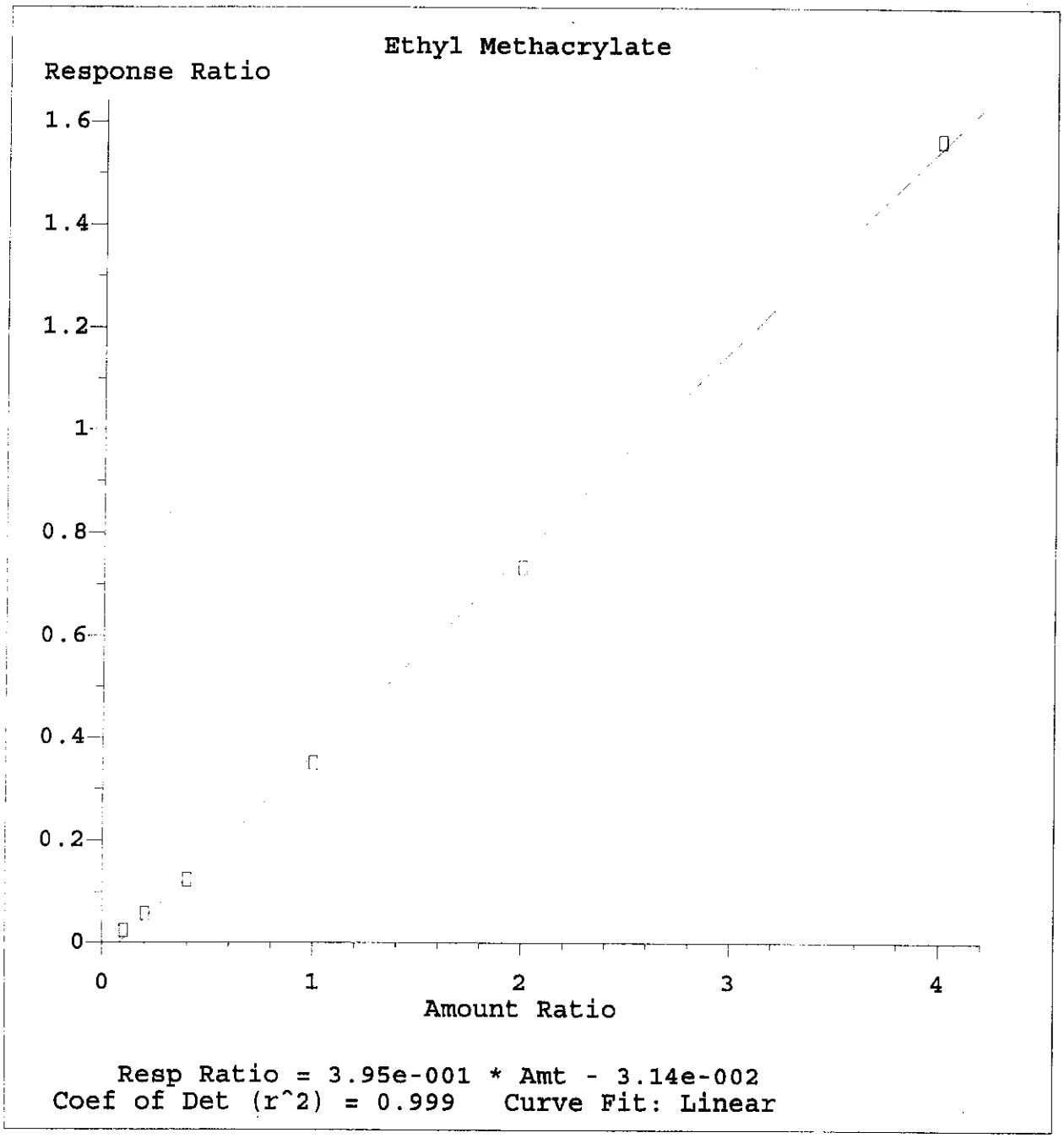
Calibration Table Last Updated: Fri May 11 16:41:12 2001



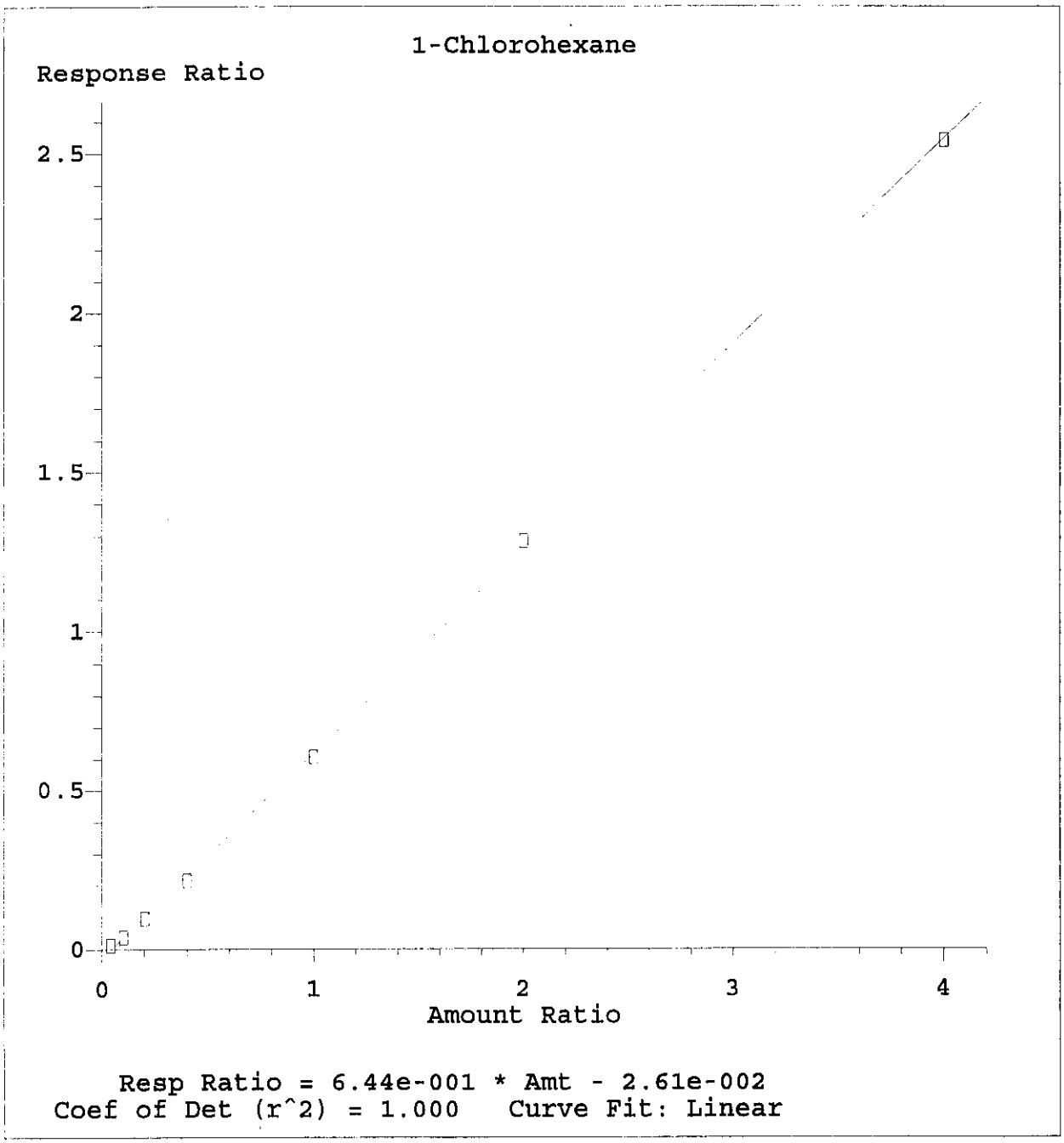
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:41:27 2001



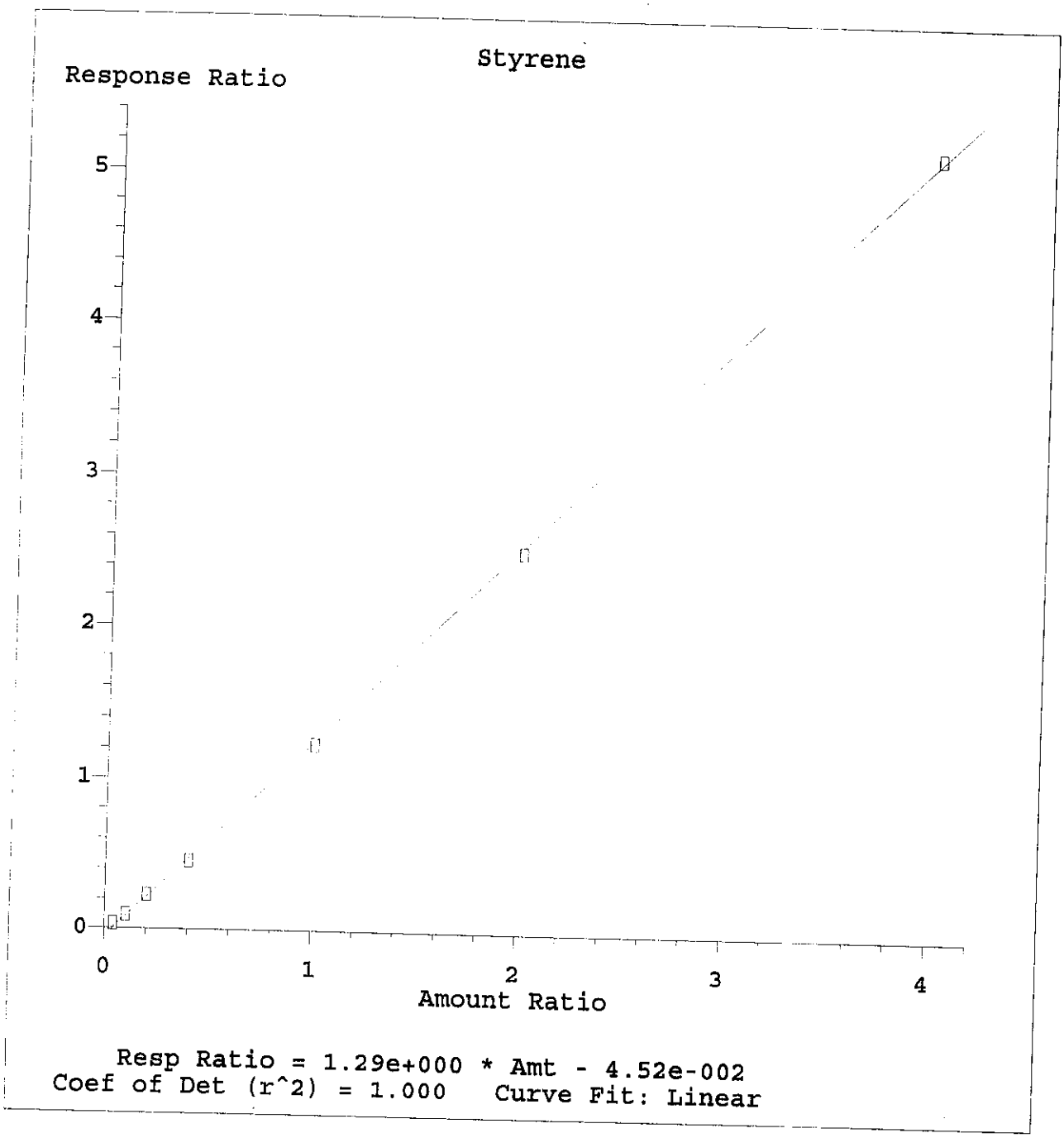
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:42:21 2001



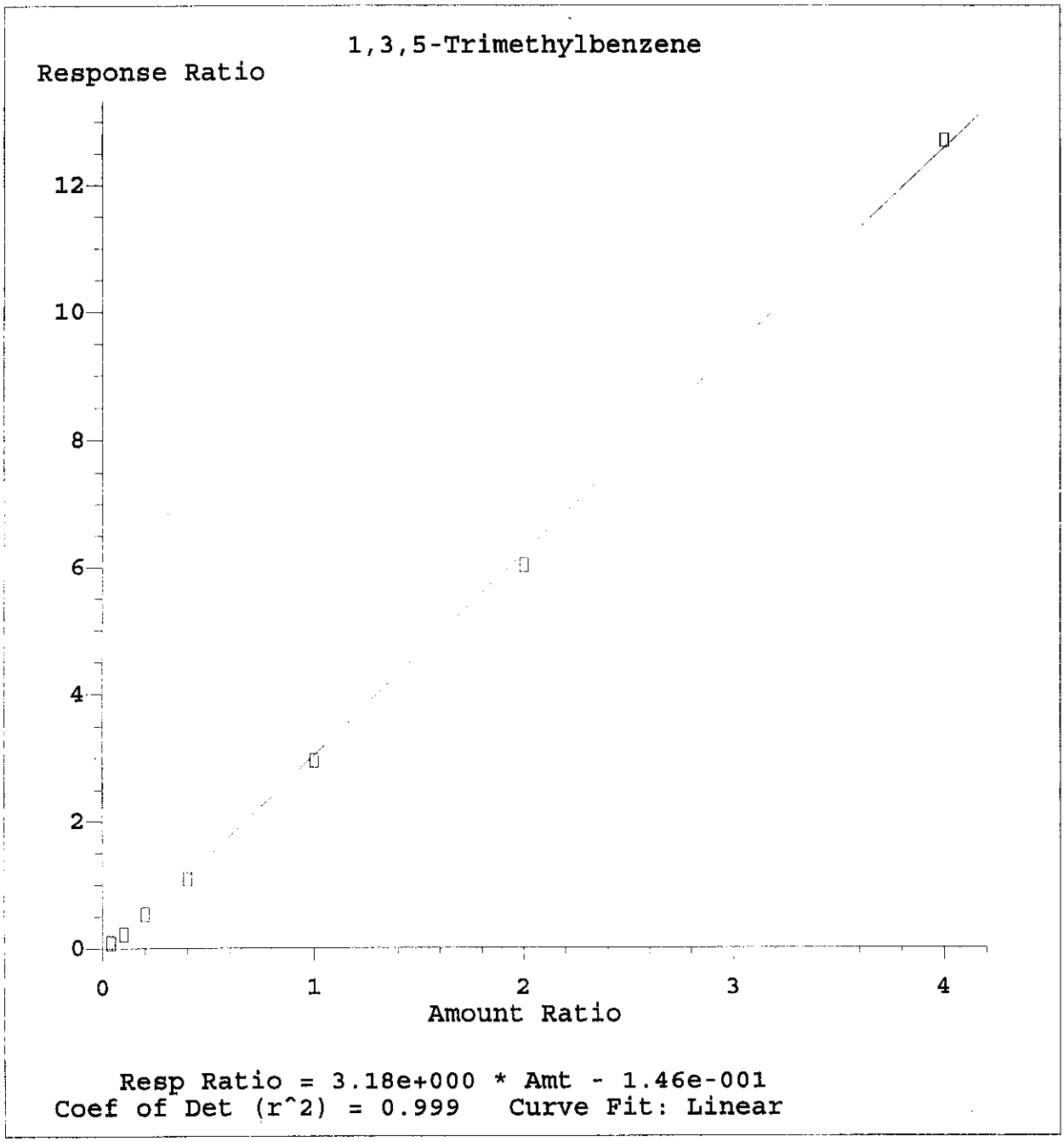
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:42:35 2001



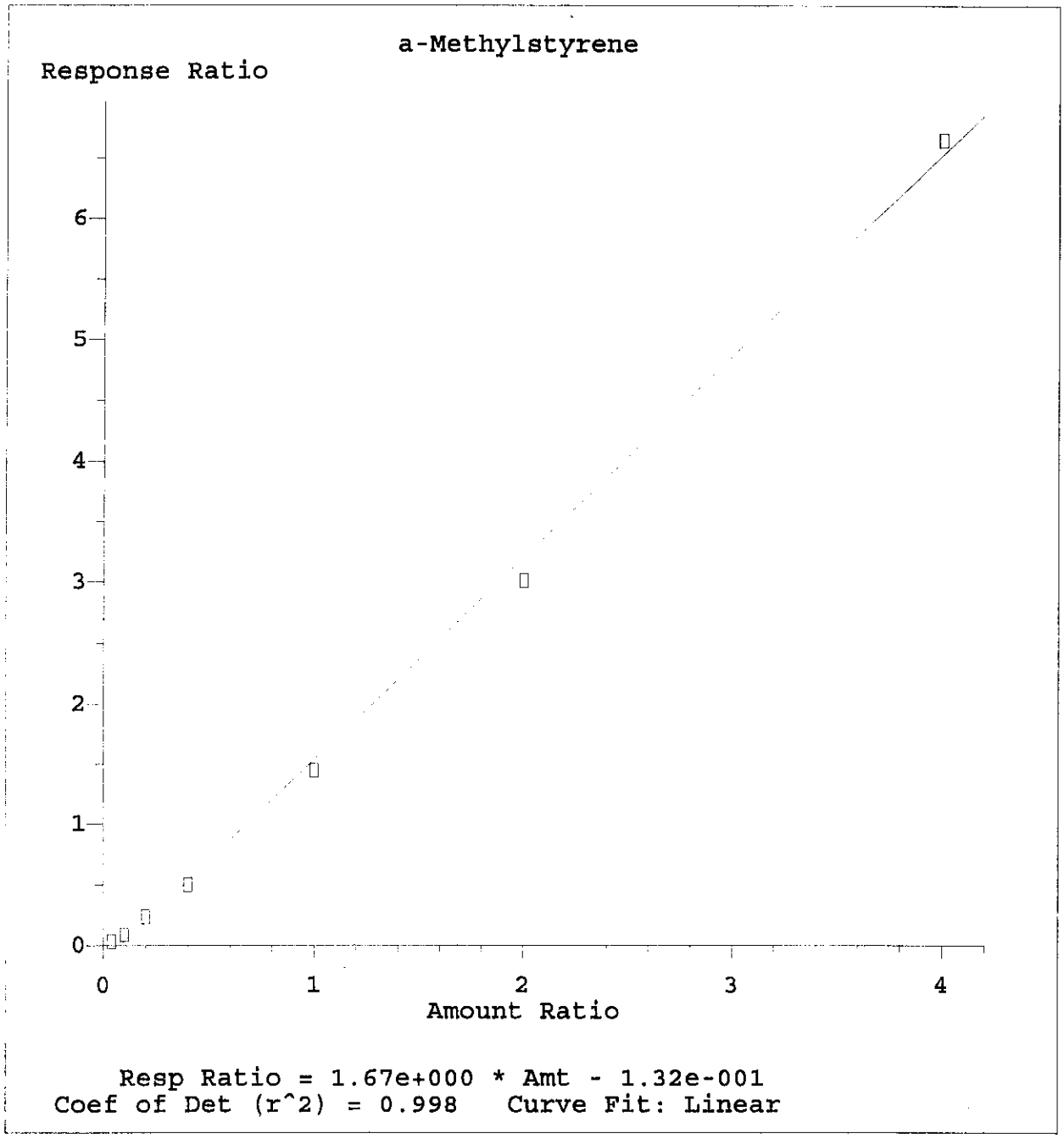
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:43:17 2001



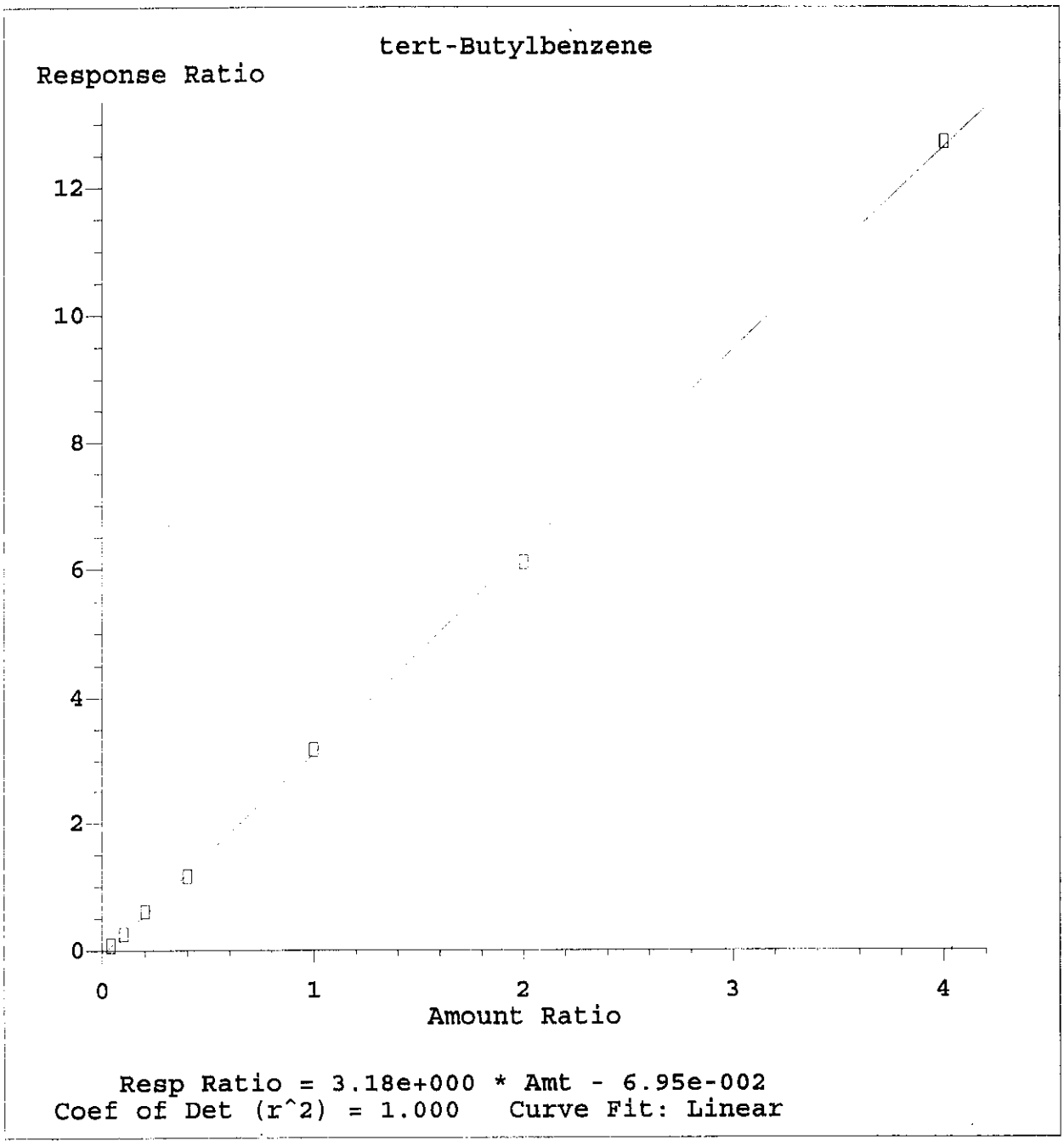
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:44:51 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:46:05 2001



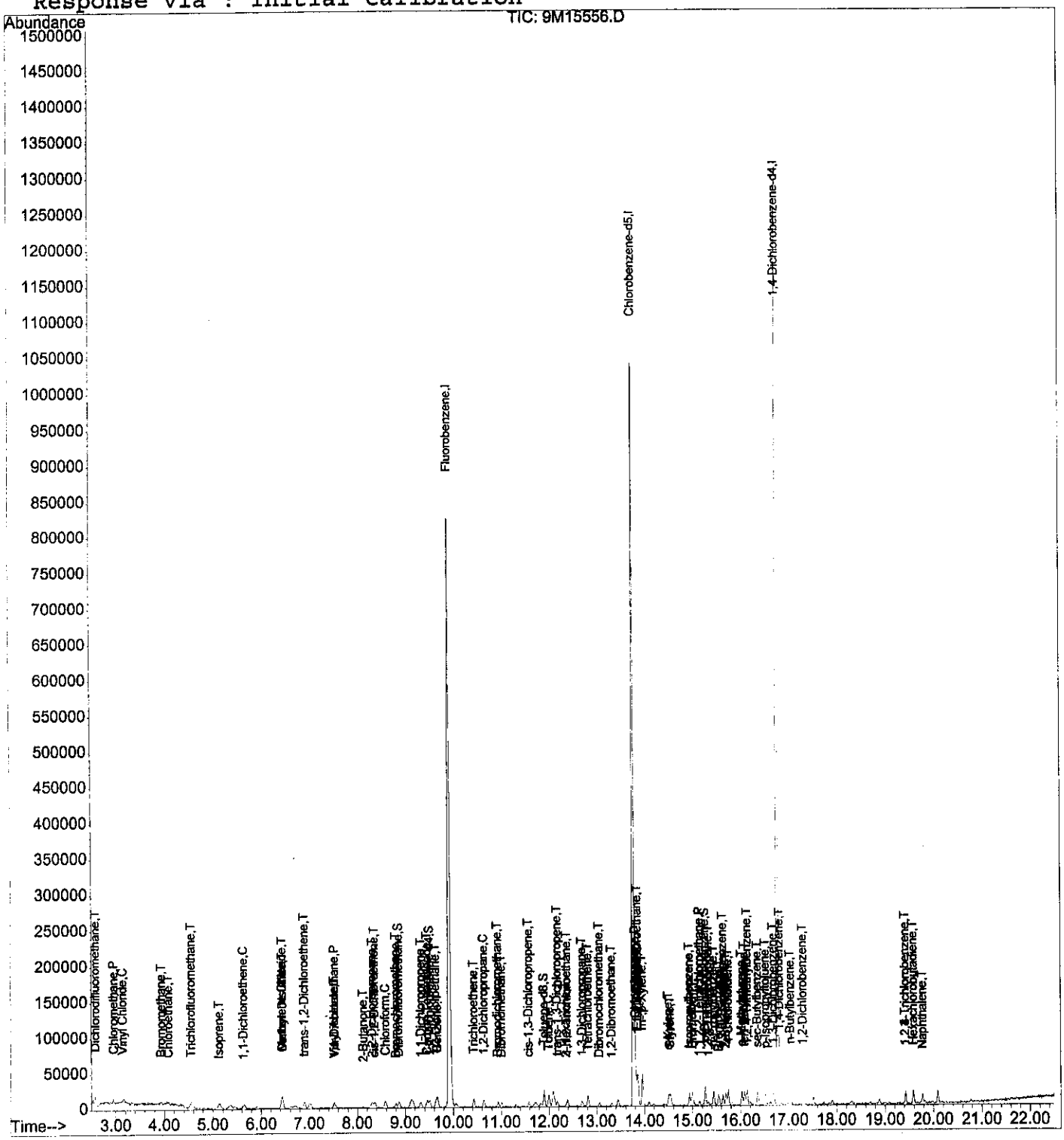
Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:46:44 2001



Method Name: C:\HPCHEM\1\METHODS\8260SOIL.M
Calibration Table Last Updated: Fri May 11 16:48:37 2001

Data File : d:\HPCHEM\1\DATA\051101\9M15556.D Vial: 2
Acq On : 11 May 2001 12:15 Operator: MES
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051101\9M15556.D Vial: 2
Acq On : 11 May 2001 12:15 Operator: MES
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	982988	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.77	117	695231	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	400274	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	7622	1.22	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 2.44%#			
33) 1,2-Dichloroethane-d4	9.51	65	10098	1.32	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 2.64%#			
45) Toluene-d8	11.90	98	20800	0.98	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 1.96%#			
66) p-Bromofluorobenzene	15.27	95	12307	1.52	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 3.04%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	12929	1.25	ug/kg	95
3) Chloromethane	2.96	50	9151	1.67	ug/kg	89
4) Vinyl Chloride	3.15	62	6431	1.48	ug/kg	93
5) Bromomethane	3.94	94	4073	1.47	ug/kg	89
6) Chloroethane	4.09	64	1968	0.77	ug/kg#	51
7) Trichlorofluoromethane	4.56	101	16042	1.19	ug/kg#	35
8) Isoprene	5.13	67	6347	0.90	ug/kg	92
12) 1,1-Dichloroethene	5.64	96	2879	0.51	ug/kg#	36
15) Methylene Chloride	6.43	84	7096	1.33	ug/kg	96
16) Carbon Disulfide	6.45	76	15960	0.75	ug/kg#	93
19) trans-1,2-Dichloroethene	6.90	96	4953	0.82	ug/kg	99
21) Vinyl Acetate	7.53	43	3775	0.67	ug/kg#	82
22) 1,1-Dichloroethane	7.52	63	11125	0.92	ug/kg#	93
23) 2-Butanone	8.12	43	1304	0.75	ug/kg#	77
24) 2,2-Dichloropropane	8.32	77	9420	0.82	ug/kg#	64
25) cis-1,2-Dichloroethene	8.36	96	3687	0.61	ug/kg	85
26) Chloroform	8.59	83	11634	0.95	ug/kg	95
27) Bromochloromethane	8.80	128	2196	0.89	ug/kg	95
31) 1,1-Dichloropropene	9.33	75	6245	0.86	ug/kg#	88
32) Carbon Tetrachloride	9.46	117	9783	0.88	ug/kg#	16
34) 1,2-Dichloroethane	9.63	62	8850	0.96	ug/kg#	90
35) Benzene	9.66	78	18614	0.80	ug/kg	91
36) Trichloroethene	10.43	130	4556	0.76	ug/kg	90
37) 1,2-Dichloropropane	10.64	63	4518	0.83	ug/kg	96
38) Bromodichloromethane	10.93	83	7580	0.92	ug/kg#	96
39) Dibromomethane	11.01	93	2937	0.95	ug/kg	91
42) cis-1,3-Dichloropropene	11.58	75	4751	0.65	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15556.D 8260SL.M Fri May 11 12:37:57 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051101\9M15556.D
Acq On : 11 May 2001 12:15
Sample : WG97218-02 1PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 12:37 2001

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SL.RES

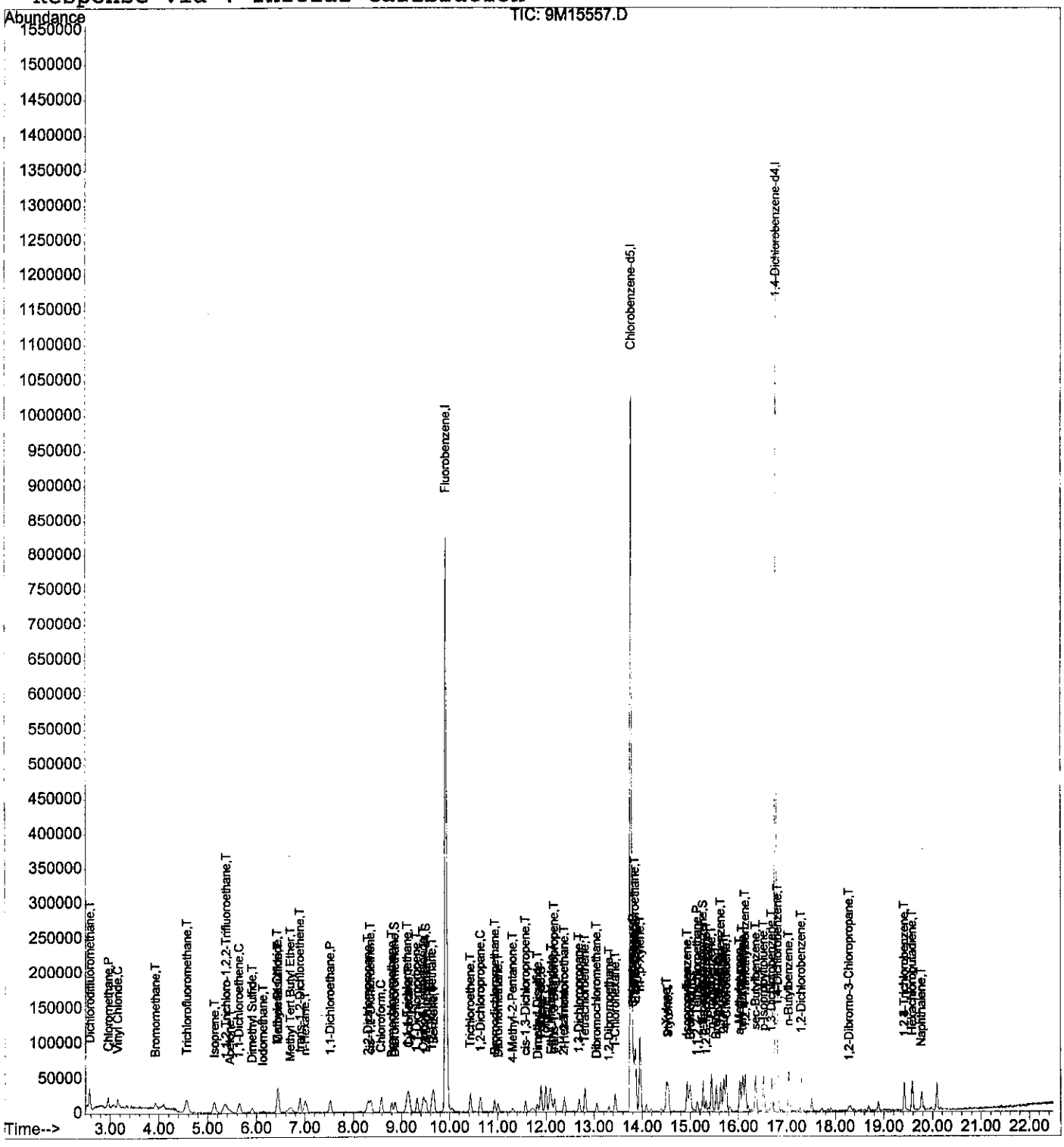
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) Toluene	12.00	91	16862	0.74 ug/kg	98
48) trans-1,3-Dichloropropene	12.18	75	5551	0.75 ug/kg#	86
49) 1,1,2-Trichloroethane	12.38	97	3431	0.89 ug/kg	99
50) 2-Hexanone	12.36	43	3004	1.08 ug/kg	84
51) 1,3-Dichloropropane	12.69	76	5796	0.90 ug/kg	96
52) Tetrachloroethene	12.82	164	4369	0.91 ug/kg	99
53) Dibromochloromethane	13.05	129	4139	0.89 ug/kg	98
54) 1,2-Dibromoethane	13.31	107	3205	0.93 ug/kg	89
56) Chlorobenzene	13.82	112	15476	1.01 ug/kg	99
57) 1,1,1,2-Tetrachloroethane	13.85	131	5644	1.07 ug/kg	95
58) Ethylbenzene	13.86	106	6940	0.83 ug/kg	97
59) m-,p-Xylene	13.95	106	15769	1.53 ug/kg	98
60) o-Xylene	14.50	106	6078	0.65 ug/kg	88
61) Styrene	14.54	104	9726	0.64 ug/kg#	73
62) Bromoform	15.01	173	2274	0.73 ug/kg	88
63) Isopropylbenzene	14.94	105	14972	0.57 ug/kg	95
65) 1,1,2,2-Tetrachloroethane	15.16	83	4130	0.91 ug/kg#	83
67) 1,2,3-Trichloropropane	15.33	110	1056	0.74 ug/kg#	25
69) n-Propylbenzene	15.44	91	20135	0.61 ug/kg	93
70) Bromobenzene	15.55	156	4705	0.78 ug/kg	76
71) 1,3,5-Trimethylbenzene	15.64	105	12285	0.60 ug/kg	97
72) 2-Chlorotoluene	15.70	91	16742	0.80 ug/kg	93
73) 4-Chlorotoluene	15.75	91	14796	0.71 ug/kg	96
74) a-Methylstyrene	16.03	118	4900	0.55 ug/kg	95
75) tert-Butylbenzene	16.08	119	12005	0.55 ug/kg#	77
76) 1,2,4-Trimethylbenzene	16.14	105	15068	0.71 ug/kg#	84
77) sec-Butylbenzene	16.35	105	17386	0.60 ug/kg#	87
78) p-Isopropyltoluene	16.52	119	13376	0.55 ug/kg	95
79) 1,3-Dichlorobenzene	16.68	146	10784	0.95 ug/kg	94
80) 1,4-Dichlorobenzene	16.82	146	11900	0.98 ug/kg	99
81) n-Butylbenzene	17.03	91	18500	0.80 ug/kg	96
82) 1,2-Dichlorobenzene	17.30	146	8917	0.90 ug/kg	87
84) 1,2,4-Trichlorobenzene	19.42	180	6802	0.95 ug/kg	95
85) Hexachlorobutadiene	19.58	225	5346	0.92 ug/kg#	88
86) Naphthalene	19.78	128	10620	0.92 ug/kg	97
87) 1,2,3-Trichlorobenzene	19.42	180	6802	0.95 ug/kg	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051101\9M15557.D Vial: 2
Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\051101\9M15557.D Vial: 2
Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	977428	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	692708	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	408906	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	13452	2.17	ug/kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 4.34%#			
33) 1,2-Dichloroethane-d4	9.51	65	18408	2.43	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 4.86%#			
45) Toluene-d8	11.90	98	35884	1.70	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 3.40%#			
66) p-Bromofluorobenzene	15.27	95	18147	2.20	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 4.40%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	32166	3.12	ug/kg	97
3) Chloromethane	2.96	50	15465	2.84	ug/kg#	88
4) Vinyl Chloride	3.15	62	13012	3.02	ug/kg	94
5) Bromomethane	3.93	94	8436	3.05	ug/kg	97
7) Trichlorofluoromethane	4.58	101	37321	2.77	ug/kg	99
8) Isoprene	5.15	67	13284	1.90	ug/kg#	53
10) 1,1,2-Trichloro-1,2,2-Trif	5.38	101	16596m	2.37	ug/kg	
11) Acetone	5.46	43	7584	4.11	ug/kg	98
12) 1,1-Dichloroethene	5.64	96	10290	1.84	ug/kg	97
13) Dimethyl Sulfide	5.91	62	4648	0.90	ug/kg	92
14) Iodomethane	6.13	142	2755	0.79	ug/kg#	39
15) Methylene Chloride	6.43	84	13423	2.53	ug/kg	99
16) Carbon Disulfide	6.45	76	39269	1.85	ug/kg	96
18) Methyl Tert Butyl Ether	6.70	73	16351	1.41	ug/kg#	66
19) trans-1,2-Dichloroethene	6.90	96	11945	1.98	ug/kg	99
20) n-Hexane	7.01	57	13047	1.39	ug/kg	100
22) 1,1-Dichloroethane	7.52	63	23943	1.99	ug/kg	99
24) 2,2-Dichloropropane	8.31	77	21711	1.90	ug/kg#	78
25) cis-1,2-Dichloroethene	8.36	96	9447	1.57	ug/kg	94
26) Chloroform	8.58	83	26213	2.15	ug/kg	97
27) Bromochloromethane	8.80	128	4598	1.88	ug/kg	94
29) 1,1,1-Trichloroethane	9.12	97	27172	2.11	ug/kg	99
30) Cyclohexane	9.16	56	13209	1.36	ug/kg#	71
31) 1,1-Dichloropropene	9.31	75	13898	1.93	ug/kg	97
32) Carbon Tetrachloride	9.45	117	23516	2.12	ug/kg	98
34) 1,2-Dichloroethane	9.63	62	20322	2.23	ug/kg#	97
35) Benzene	9.67	78	38875	1.69	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15557.D 8260SL.M Fri May 11 14:56:00 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051101\9M15557.D Vial: 2
Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	Trichloroethene	10.43	130	11077	1.86	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	9974m	1.84	ug/kg	
38)	Bromodichloromethane	10.94	83	16632	2.03	ug/kg	99
39)	Dibromomethane	11.01	93	6496	2.11	ug/kg#	76
41)	4-Methyl-2-Pentanone	11.31	58	1575	1.01	ug/kg#	49
42)	cis-1,3-Dichloropropene	11.58	75	11773	1.63	ug/kg	99
43)	Dimethyl Disulfide	11.84	79	4639	1.06	ug/kg	88
46)	Toluene	11.99	91	39122	1.72	ug/kg	93
47)	Ethyl Methacrylate	12.13	69	6069	1.28	ug/kg#	91
48)	trans-1,3-Dichloropropene	12.18	75	12964	1.76	ug/kg	98
49)	1,1,2-Trichloroethane	12.39	97	7892	2.06	ug/kg	95
50)	2-Hexanone	12.37	43	5445	1.96	ug/kg	91
51)	1,3-Dichloropropane	12.69	76	12350	1.92	ug/kg	93
52)	Tetrachloroethene	12.81	164	9163	1.92	ug/kg	100
53)	Dibromochloromethane	13.05	129	9799	2.12	ug/kg	99
54)	1,2-Dibromoethane	13.32	107	7086	2.06	ug/kg	91
55)	1-Chlorohexane	13.44	91	9623	1.35	ug/kg	84
56)	Chlorobenzene	13.82	112	32598	2.14	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.85	131	11133	2.12	ug/kg	94
58)	Ethylbenzene	13.87	106	16309	1.96	ug/kg	96
59)	m-,p-Xylene	13.96	106	38276	3.72	ug/kg	98
60)	o-Xylene	14.51	106	14780	1.60	ug/kg	98
61)	Styrene	14.54	104	23370	1.54	ug/kg#	71
62)	Bromoform	15.00	173	6058	1.95	ug/kg	88
63)	Isopropylbenzene	14.94	105	38178	1.45	ug/kg	97
65)	1,1,2,2-Tetrachloroethane	15.14	83	10719	2.30	ug/kg#	83
67)	1,2,3-Trichloropropane	15.33	110	3293	2.25	ug/kg	89
69)	n-Propylbenzene	15.44	91	55348	1.64	ug/kg	97
70)	Bromobenzene	15.55	156	12237	1.98	ug/kg	91
71)	1,3,5-Trimethylbenzene	15.63	105	33794	1.62	ug/kg	98
72)	2-Chlorotoluene	15.70	91	40575	1.90	ug/kg	95
73)	4-Chlorotoluene	15.75	91	39708	1.86	ug/kg	97
74)	a-Methylstyrene	16.03	118	14329	1.58	ug/kg	94
75)	tert-Butylbenzene	16.08	119	32912	1.47	ug/kg#	91
76)	1,2,4-Trimethylbenzene	16.14	105	41128	1.88	ug/kg	86
77)	sec-Butylbenzene	16.36	105	47826	1.62	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	36653	1.48	ug/kg	100
79)	1,3-Dichlorobenzene	16.69	146	23321	2.00	ug/kg	95
80)	1,4-Dichlorobenzene	16.82	146	27992	2.26	ug/kg	96
81)	n-Butylbenzene	17.04	91	43822	1.86	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	21054	2.07	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051101\9M15557.D Vial: 2
Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:45 2001 Quant Results File: 8260SL.RES

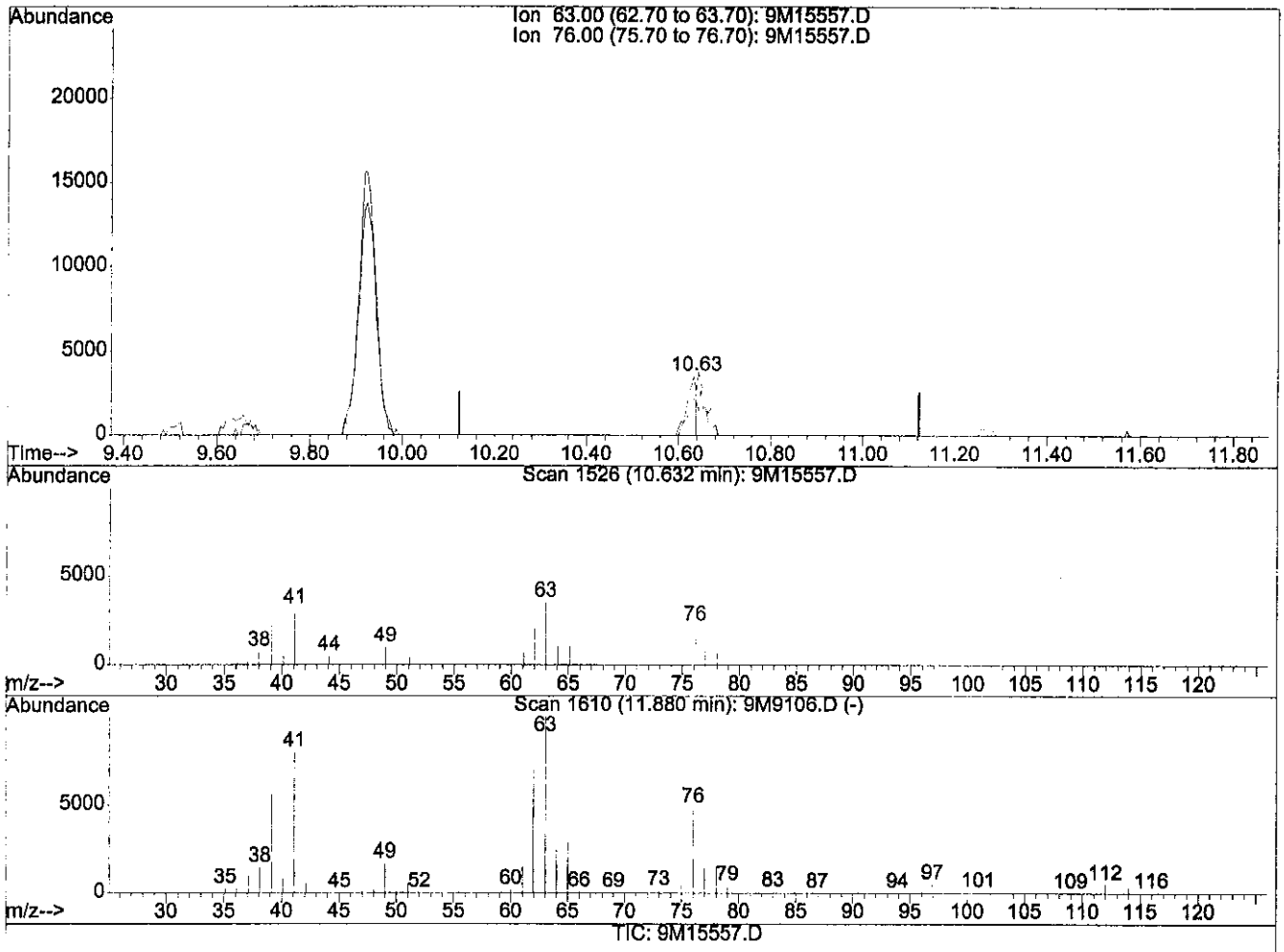
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	1,2-Dibromo-3-Chloropropan	18.29	157	1832	2.11	ug/kg	94
84)	1,2,4-Trichlorobenzene	19.42	180	15757	2.16	ug/kg	99
85)	Hexachlorobutadiene	19.58	225	12691	2.13	ug/kg	97
86)	Naphthalene	19.78	128	24210	2.06	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.42	180	15757	2.16	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15557.D 8260SL.M Fri May 11 14:56:02 2001 HPMS_9 Page 3

Data File : D:\HPCHEM\1\DATA\051101\9M15557.D Vial: 2
Acq On : 11 May 2001 12:46 Operator: MES
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:43 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(37) 1,2-Dichloropropane (C)

10.63min 0.90ug/kg

response 4895

Ion	Exp%	Act%
63.00	100	100
76.00	57.60	71.52#
0.00	0.00	0.00
0.00	0.00	0.00

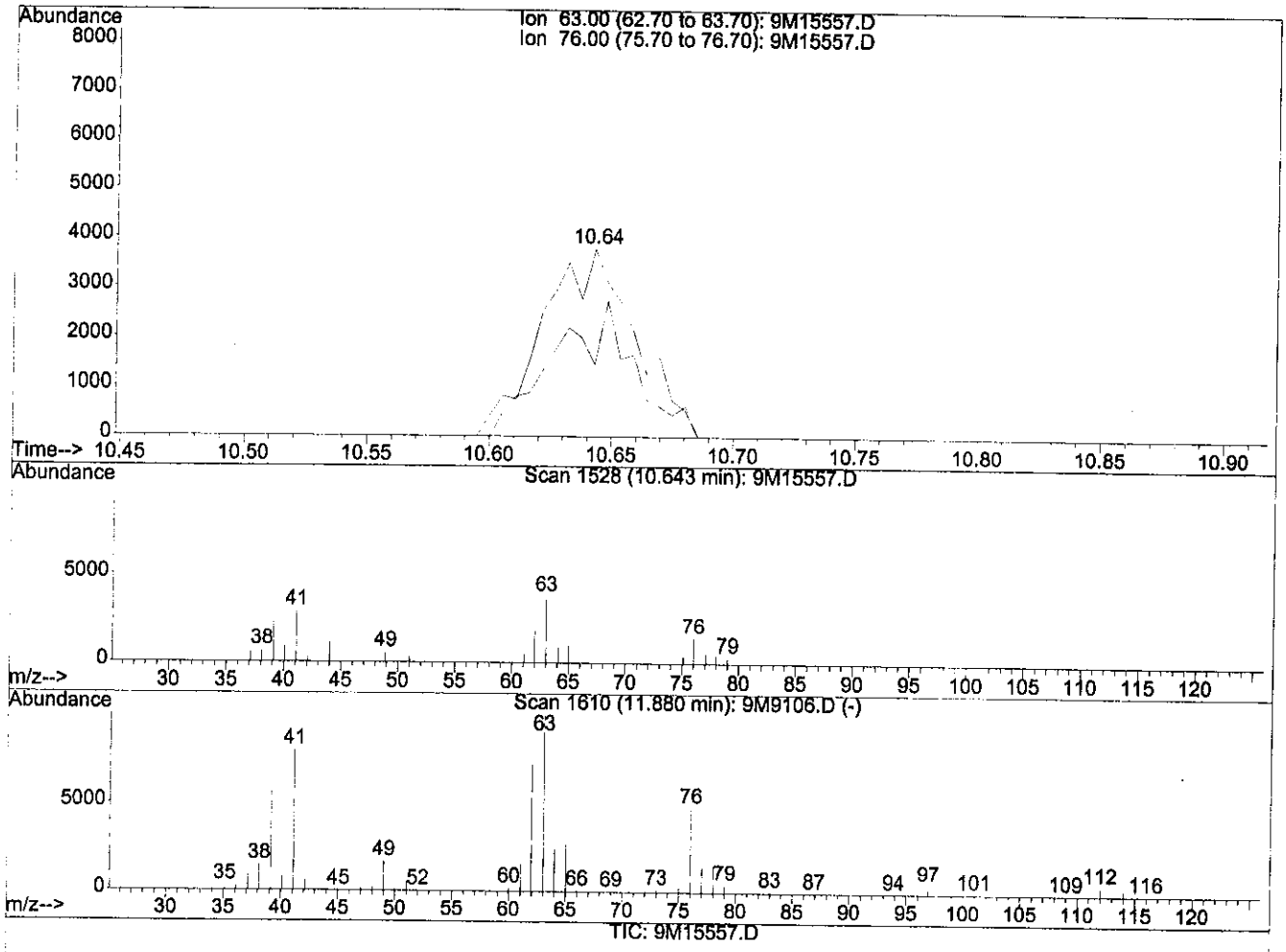
9M15557.D 8260SL.M Fri May 11 14:44:11 2001 HPMS_9

Data File : D:\HPCHEM\1\DATA\051101\9M15557.D
Acq On : 11 May 2001 12:46
Sample : WG97218-03 2PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001

Vial: 2
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(37) 1,2-Dichloropropane (C)

10.64min 1.84ug/kg m

response 9974

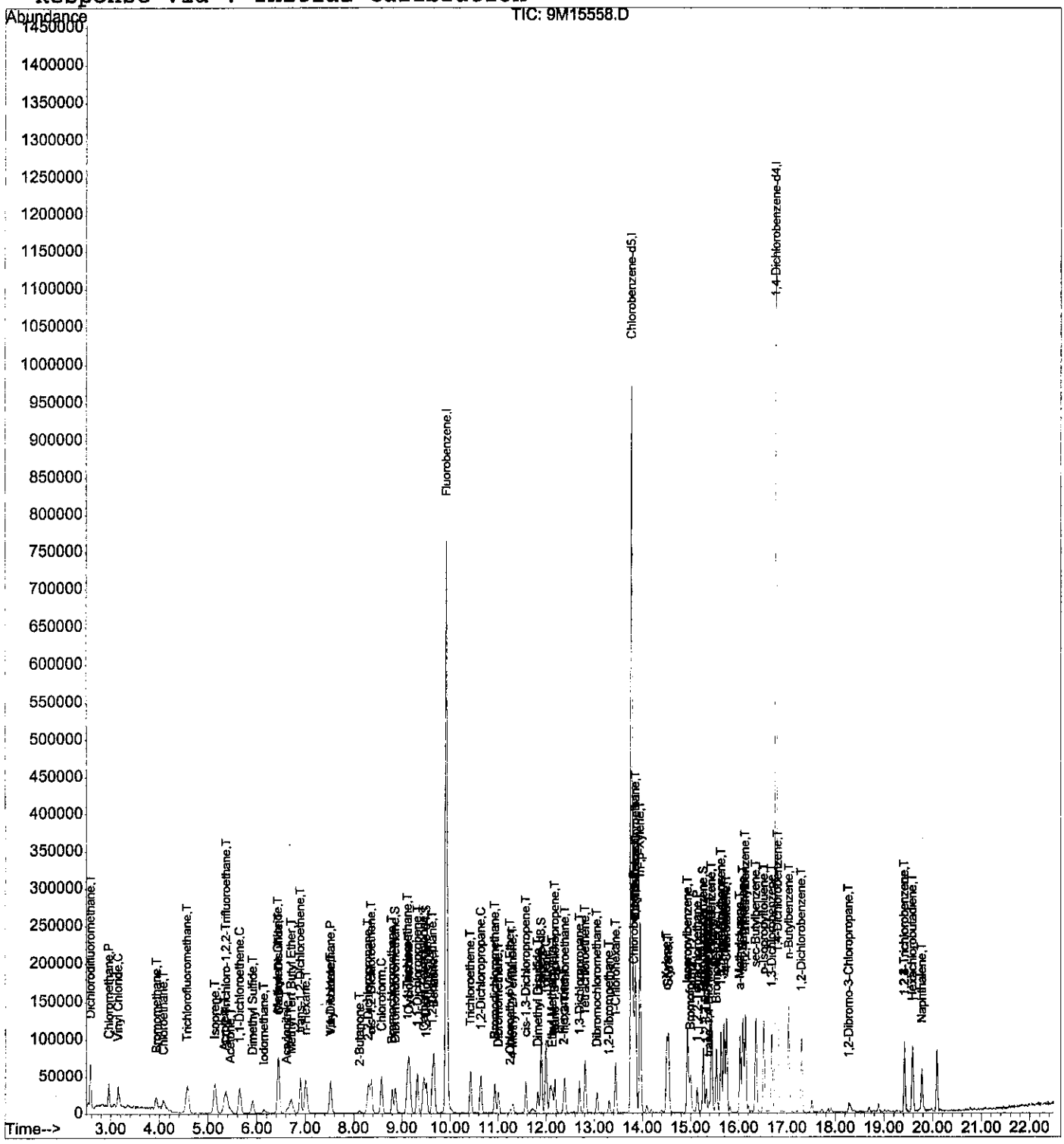
Ion	Exp%	Act%
63.00	100	100
76.00	57.60	35.10#
0.00	0.00	0.00
0.00	0.00	0.00

MCL 5.11.01

CMS 5/14/01

Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	921984	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	647074	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	386056	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	30656	5.24	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 10.48%#			
33) 1,2-Dichloroethane-d4	9.51	65	40026	5.60	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 11.20%#			
45) Toluene-d8	11.90	98	94848	4.81	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 9.62%#			
66) p-Bromofluorobenzene	15.27	95	40500	5.19	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 10.38%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	65764	6.77	ug/kg	98
3) Chloromethane	2.96	50	34679	6.74	ug/kg	93
4) Vinyl Chloride	3.15	62	27256	6.70	ug/kg	95
5) Bromomethane	3.95	94	16065	6.16	ug/kg	93
6) Chloroethane	4.08	64	14502	6.02	ug/kg#	83
7) Trichlorofluoromethane	4.57	101	76552	6.03	ug/kg	99
8) Isoprene	5.13	67	32563	4.93	ug/kg	97
9) Acrolein	5.33	56	4214	16.27	ug/kg	84
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	34694m	5.25	ug/kg	
11) Acetone	5.45	43	11089	6.37	ug/kg	94
12) 1,1-Dichloroethene	5.65	96	21825	4.13	ug/kg	88
13) Dimethyl Sulfide	5.91	62	12948	2.66	ug/kg	87
14) Iodomethane	6.15	142	8919m	2.71	ug/kg	
15) Methylene Chloride	6.43	84	27194	5.43	ug/kg	96
16) Carbon Disulfide	6.46	76	87340	4.35	ug/kg	98
17) Acrylonitrile	6.62	53	4934	3.85	ug/kg	97
18) Methyl Tert Butyl Ether	6.71	73	38664m	3.55	ug/kg	
19) trans-1,2-Dichloroethene	6.90	96	27227	4.78	ug/kg	99
20) n-Hexane	7.01	57	33987	3.83	ug/kg#	74
21) Vinyl Acetate	7.52	43	20272	3.84	ug/kg#	86
22) 1,1-Dichloroethane	7.52	63	53009	4.67	ug/kg	98
23) 2-Butanone	8.12	43	5992	3.68	ug/kg#	68
24) 2,2-Dichloropropane	8.30	77	49224m	4.57	ug/kg	
25) cis-1,2-Dichloroethene	8.37	96	22812	4.03	ug/kg	92
26) Chloroform	8.58	83	56073	4.88	ug/kg	99
27) Bromochloromethane	8.80	128	10675	4.63	ug/kg	96
29) 1,1,1-Trichloroethane	9.11	97	57910	4.76	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:15 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	36172	3.95	ug/kg	95
31)	1,1-Dichloropropene	9.32	75	36899	5.43	ug/kg	98
32)	Carbon Tetrachloride	9.46	117	51626	4.94	ug/kg	100
34)	1,2-Dichloroethane	9.63	62	43901	5.10	ug/kg#	98
35)	Benzene	9.66	78	94972	4.38	ug/kg	100
36)	Trichloroethene	10.43	130	23952	4.26	ug/kg	96
37)	1,2-Dichloropropane	10.65	63	22038	4.31	ug/kg	92
38)	Bromodichloromethane	10.93	83	37201	4.81	ug/kg	97
39)	Dibromomethane	11.01	93	14310	4.93	ug/kg	92
40)	2-Chloroethyl Vinyl Ether	11.25	63	2300	1.66	ug/kg#	79
41)	4-Methyl-2-Pentanone	11.31	58	4135	2.81	ug/kg#	72
42)	cis-1,3-Dichloropropene	11.58	75	27584	4.05	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	10818	2.62	ug/kg	98
46)	Toluene	12.00	91	95734	4.50	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	15606	3.51	ug/kg	96
48)	trans-1,3-Dichloropropene	12.18	75	30978	4.51	ug/kg	98
49)	1,1,2-Trichloroethane	12.40	97	17681	4.94	ug/kg	97
50)	2-Hexanone	12.36	43	11017	4.24	ug/kg	92
51)	1,3-Dichloropropane	12.70	76	30194	5.03	ug/kg	98
52)	Tetrachloroethene	12.82	164	21403	4.79	ug/kg	99
53)	Dibromochloromethane	13.06	129	21316	4.94	ug/kg	95
54)	1,2-Dibromoethane	13.31	107	15432	4.81	ug/kg	100
55)	1-Chlorohexane	13.45	91	24504	3.68	ug/kg	90
56)	Chlorobenzene	13.82	112	70828	4.99	ug/kg	97
57)	1,1,1,2-Tetrachloroethane	13.85	131	24612	5.01	ug/kg	99
58)	Ethylbenzene	13.86	106	37581	4.83	ug/kg	94
59)	m-,p-Xylene	13.95	106	91754	9.56	ug/kg	98
60)	o-Xylene	14.50	106	34117	3.95	ug/kg	97
61)	Styrene	14.54	104	60447	4.27	ug/kg#	73
62)	Bromoform	15.01	173	12950	4.47	ug/kg	93
63)	Isopropylbenzene	14.94	105	98944	4.03	ug/kg	97
65)	1,1,2,2-Tetrachloroethane	15.14	83	21400	4.87	ug/kg	96
67)	1,2,3-Trichloropropane	15.33	110	7225	5.22	ug/kg	88
68)	trans-1,4-Dichloro-2-Buten	15.38	53	5330	3.84	ug/kg#	82
69)	n-Propylbenzene	15.44	91	142110	4.47	ug/kg	99
70)	Bromobenzene	15.54	156	27667	4.74	ug/kg	97
71)	1,3,5-Trimethylbenzene	15.64	105	85043	4.32	ug/kg	98
72)	2-Chlorotoluene	15.69	91	96489	4.78	ug/kg	98
73)	4-Chlorotoluene	15.75	91	99260	4.92	ug/kg	99
74)	a-Methylstyrene	16.03	118	35109	4.09	ug/kg	98
75)	tert-Butylbenzene	16.09	119	98814	4.68	ug/kg#	83

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:16 2001 HPMS_9 Page 2

Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: 8260SL.RES

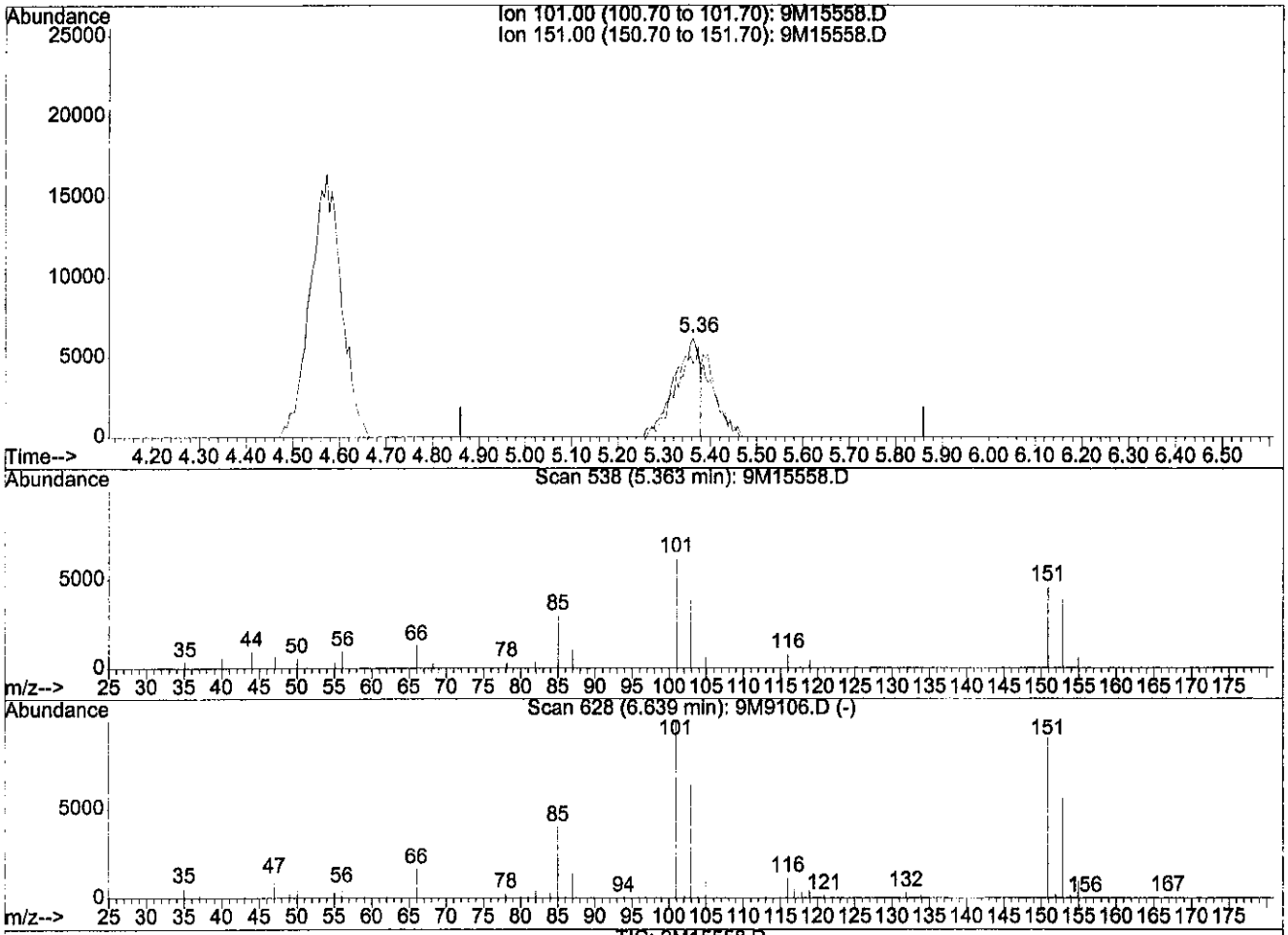
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	104757	5.09	ug/kg#	84
77)	sec-Butylbenzene	16.36	105	120699	4.34	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	94550	4.05	ug/kg	99
79)	1,3-Dichlorobenzene	16.68	146	54205	4.93	ug/kg	97
80)	1,4-Dichlorobenzene	16.82	146	58344	5.00	ug/kg	99
81)	n-Butylbenzene	17.04	91	105799	4.77	ug/kg	99
82)	1,2-Dichlorobenzene	17.30	146	46597	4.85	ug/kg	97
83)	1,2-Dibromo-3-Chloropropan	18.28	157	3882	4.74	ug/kg	93
84)	1,2,4-Trichlorobenzene	19.43	180	34829	5.06	ug/kg	99
85)	Hexachlorobutadiene	19.58	225	26227	4.66	ug/kg	97
86)	Naphthalene	19.78	128	53564	4.82	ug/kg	96
87)	1,2,3-Trichlorobenzene	19.43	180	34829	5.06	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15558.D 8260SL.M Fri May 11 14:56:17 2001 HPMS_9 Page 3

Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 13:41 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 3.51ug/kg

response 23207

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	64.45#
0.00	0.00	0.00
0.00	0.00	0.00

9M15558.D 8260SL.M Fri May 11 14:46:21 2001 HPMS_9

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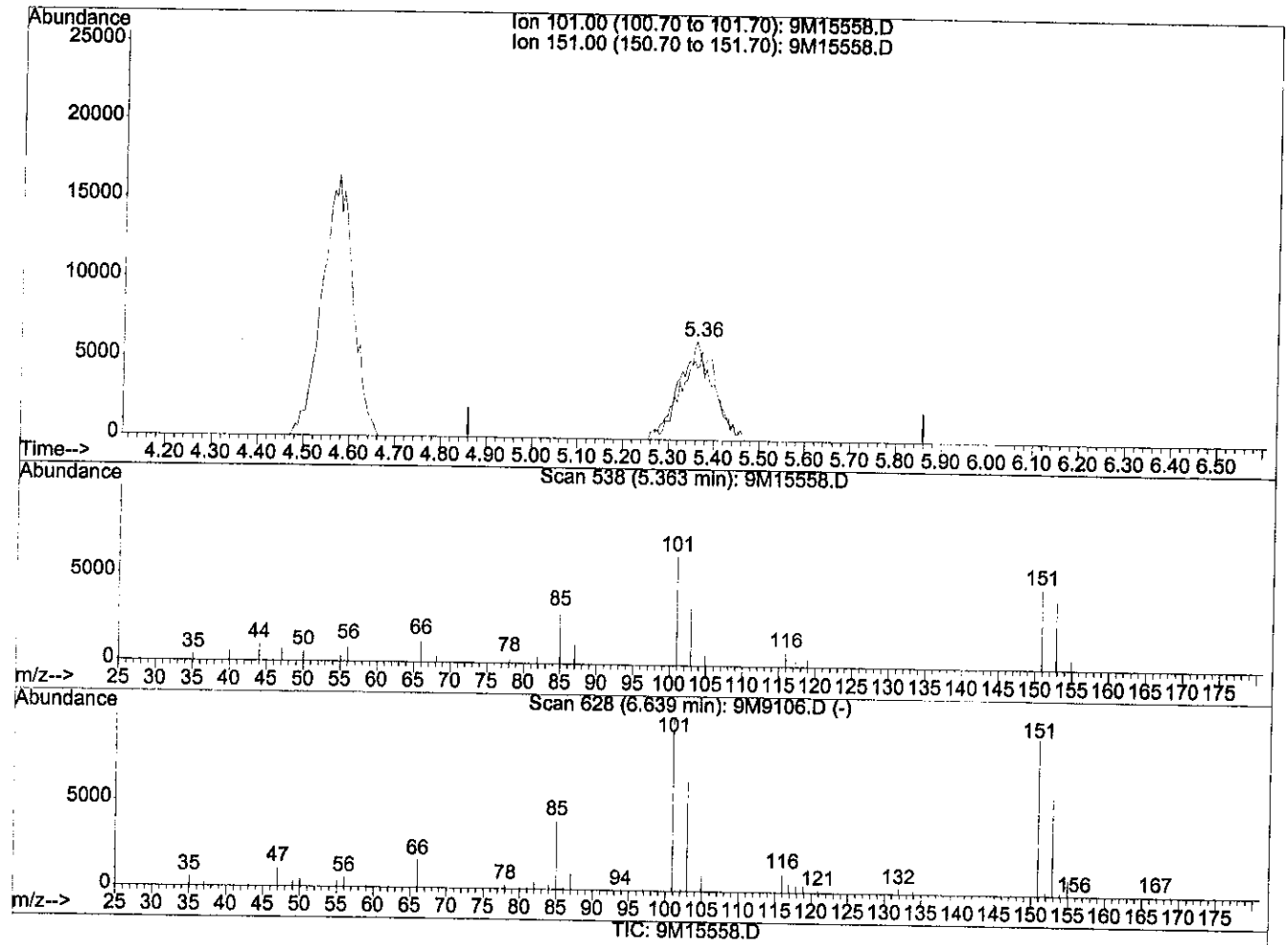
Data File : D:\HPCHEM\1\DATA\051101\9M15558.D
Acq On : 11 May 2001 13:18
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001

Vial: 3
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 5.25ug/kg m

response 34694

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	43.11
0.00	0.00	0.00
0.00	0.00	0.00

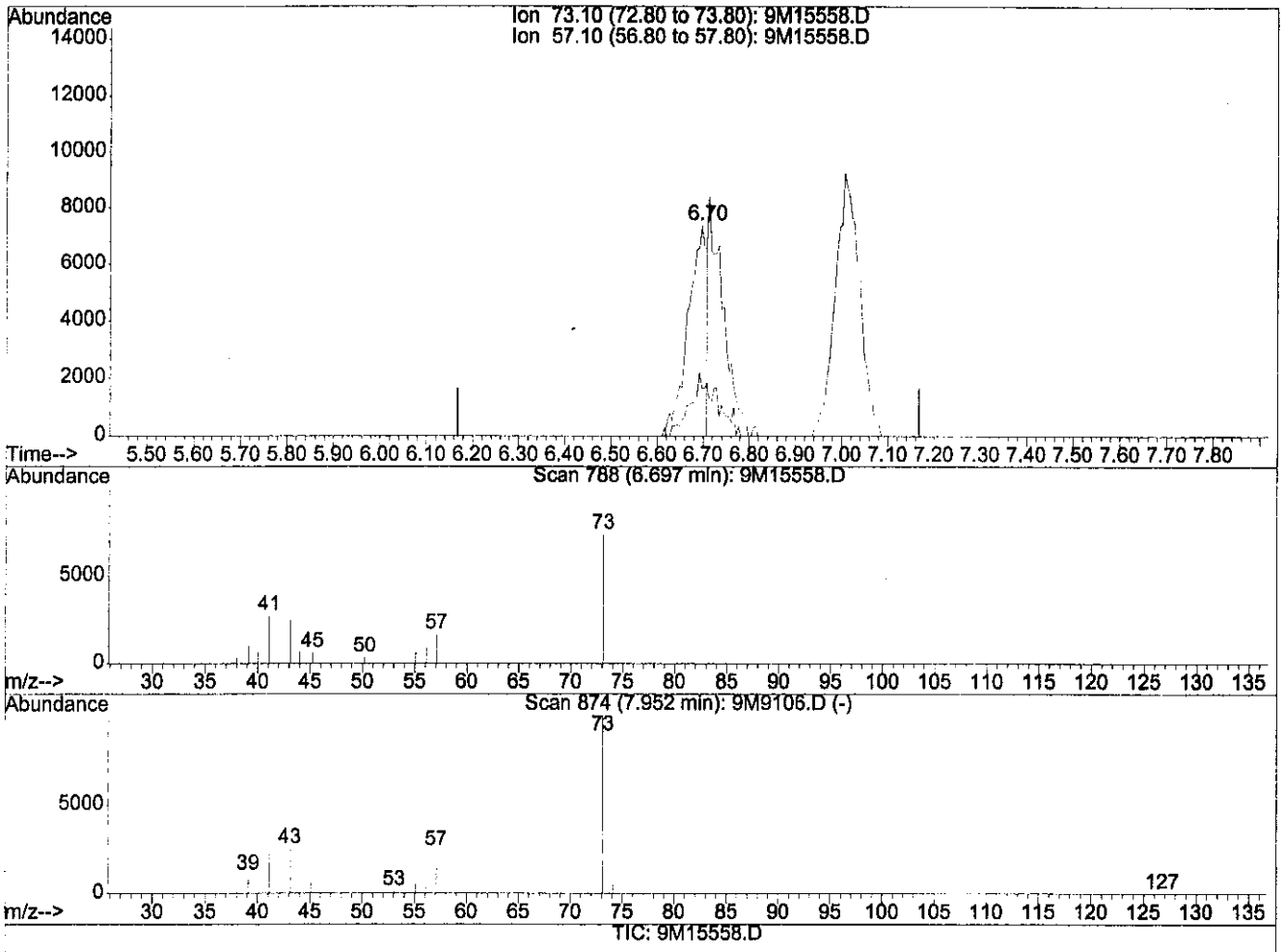
MCJ 5.11.01

5/14/01

9M15558.D 8260SL.M Fri May 11 14:46:26 2001 HPMS_9

Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



TIC: 9M15558.D

(18) Methyl Tert Butyl Ether (T)

6.70min 1.87ug/kg

response 20428

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	28.64#
0.00	0.00	0.00
0.00	0.00	0.00

9M15558.D 8260SL.M Fri May 11 14:46:55 2001 HPMS_9

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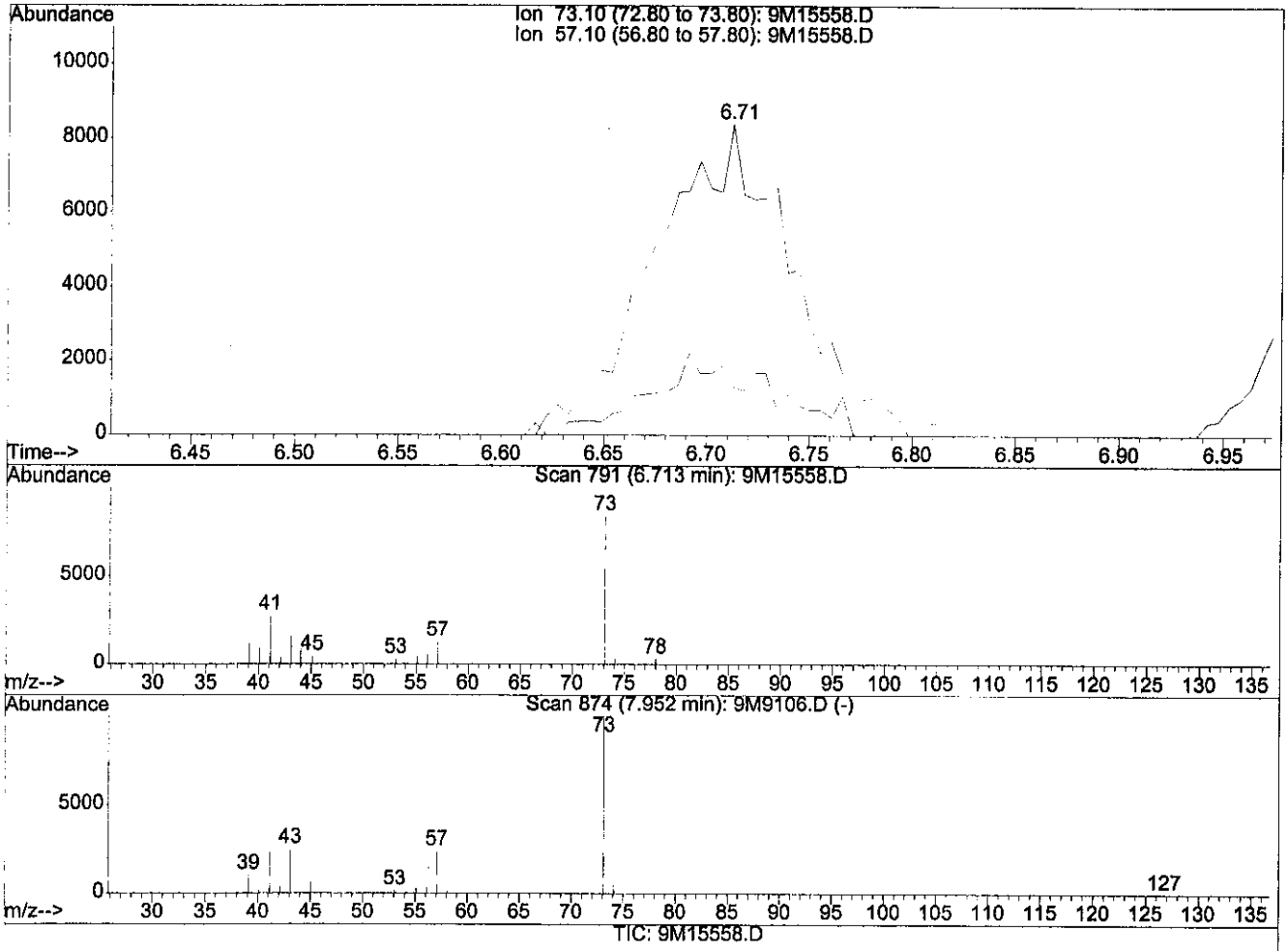
Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(18) Methyl Tert Butyl Ether (T)

6.71min 3.55ug/kg m

response 38664

Ion	Exp%	Act%
73.10	100	100
57.10	21.30	15.13#
0.00	0.00	0.00
0.00	0.00	0.00

MEB 5.11.01

5/11/01

9M15558.D 8260SL.M Fri May 11 14:47:00 2001 HPMS_9

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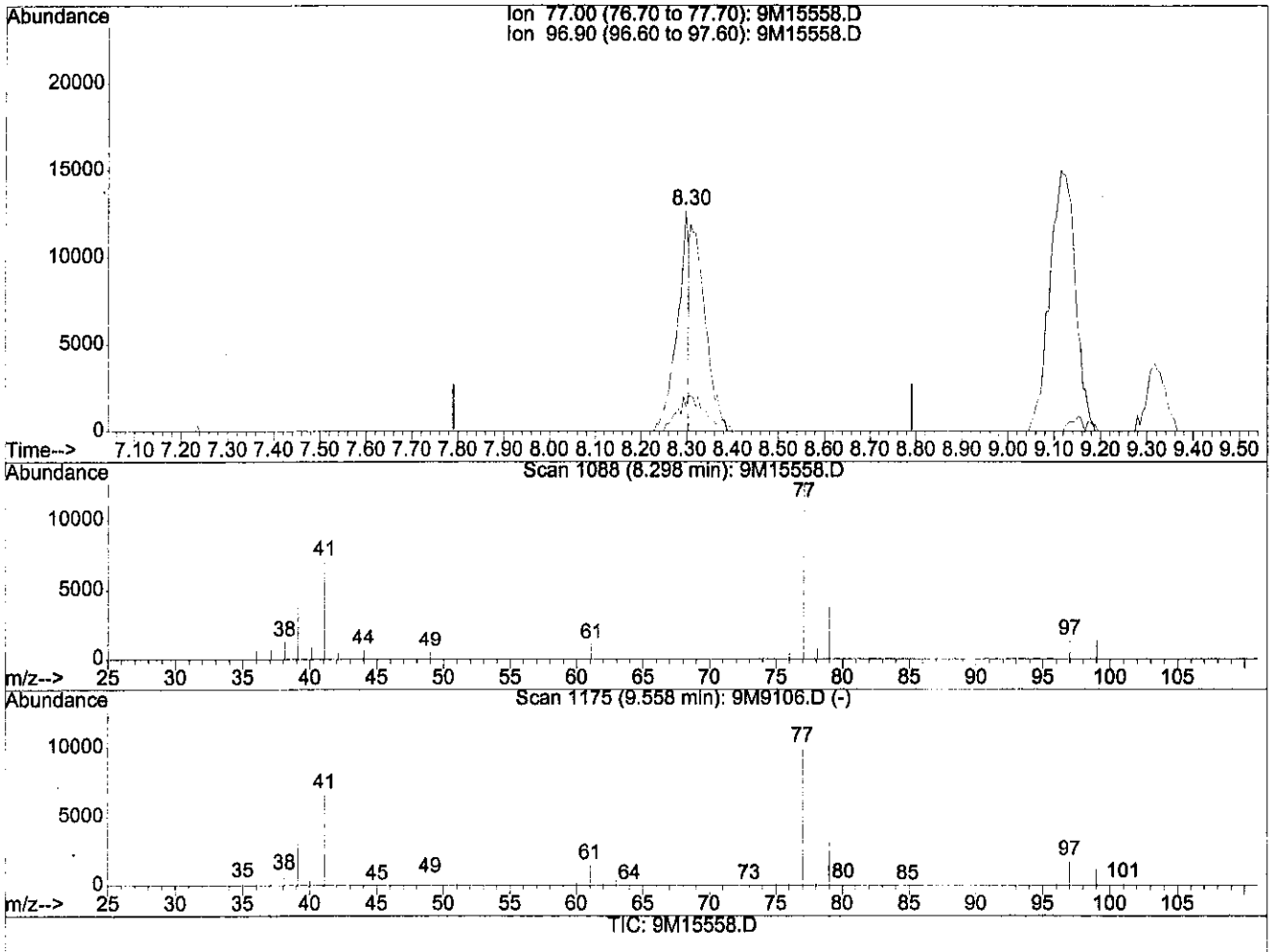
Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:46 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



TIC: 9M15558.D

(24) 2,2-Dichloropropane (T)

8.30min 2.02ug/kg

response 21812

Ion	Exp%	Act%
77.00	100	100
96.90	19.70	37.25#
0.00	0.00	0.00
0.00	0.00	0.00

9M15558.D 8260SL.M Fri May 11 14:47:10 2001 HPMS_9

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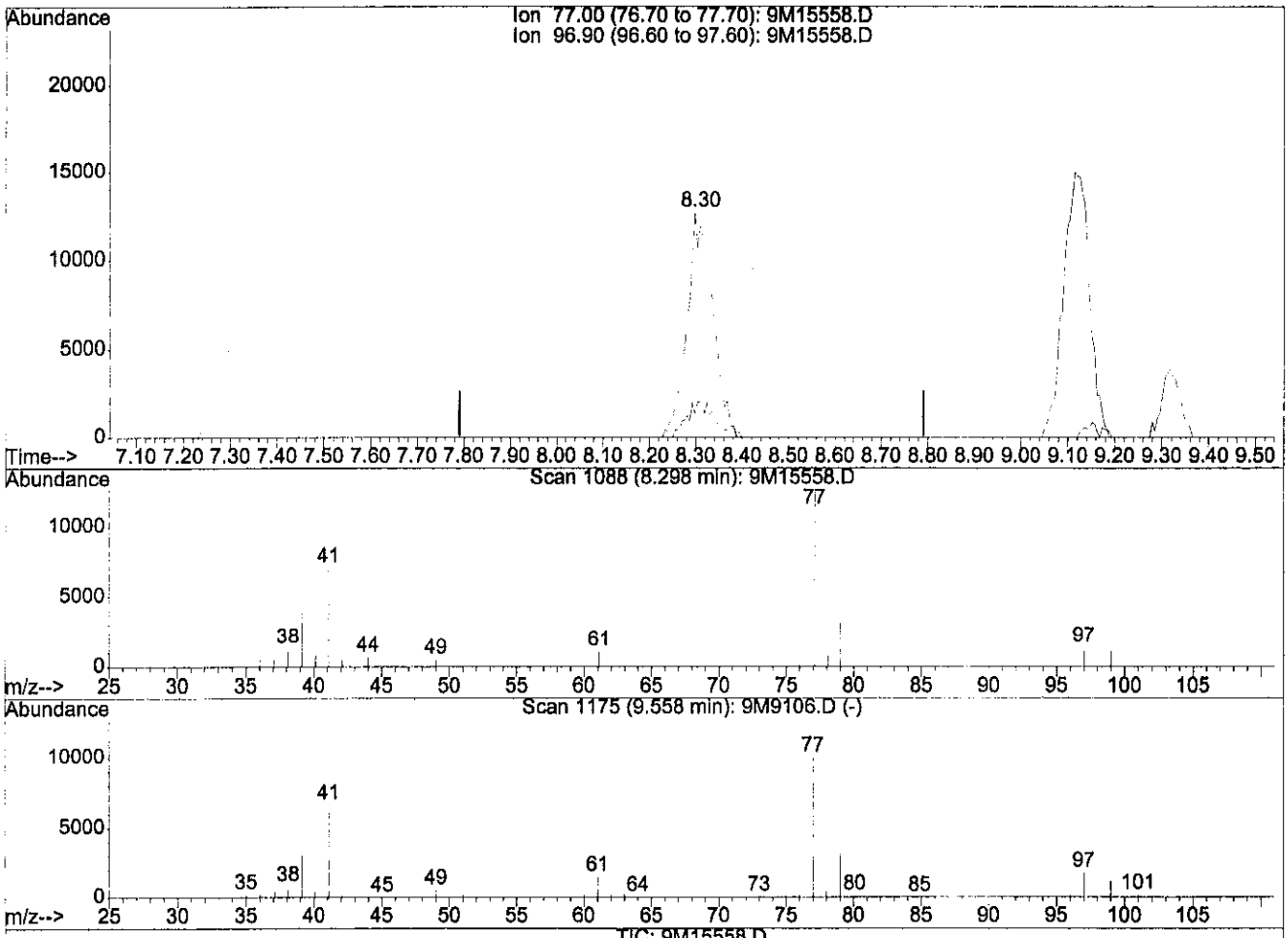
Data File : D:\HPCHEM\1\DATA\051101\9M15558.D Vial: 3
Acq On : 11 May 2001 13:18 Operator: MES
Sample : WG97218-04 5PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:47 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Multiple Level Calibration



(24) 2,2-Dichloropropane (T)

8.30min 4.57ug/kg m

response 49224

Ion	Exp%	Act%
77.00	100	100
96.90	19.70	16.51
0.00	0.00	0.00
0.00	0.00	0.00

5.11.01

5/11/01

9M15558.D 8260SL.M Fri May 11 14:47:14 2001 HPMS_9

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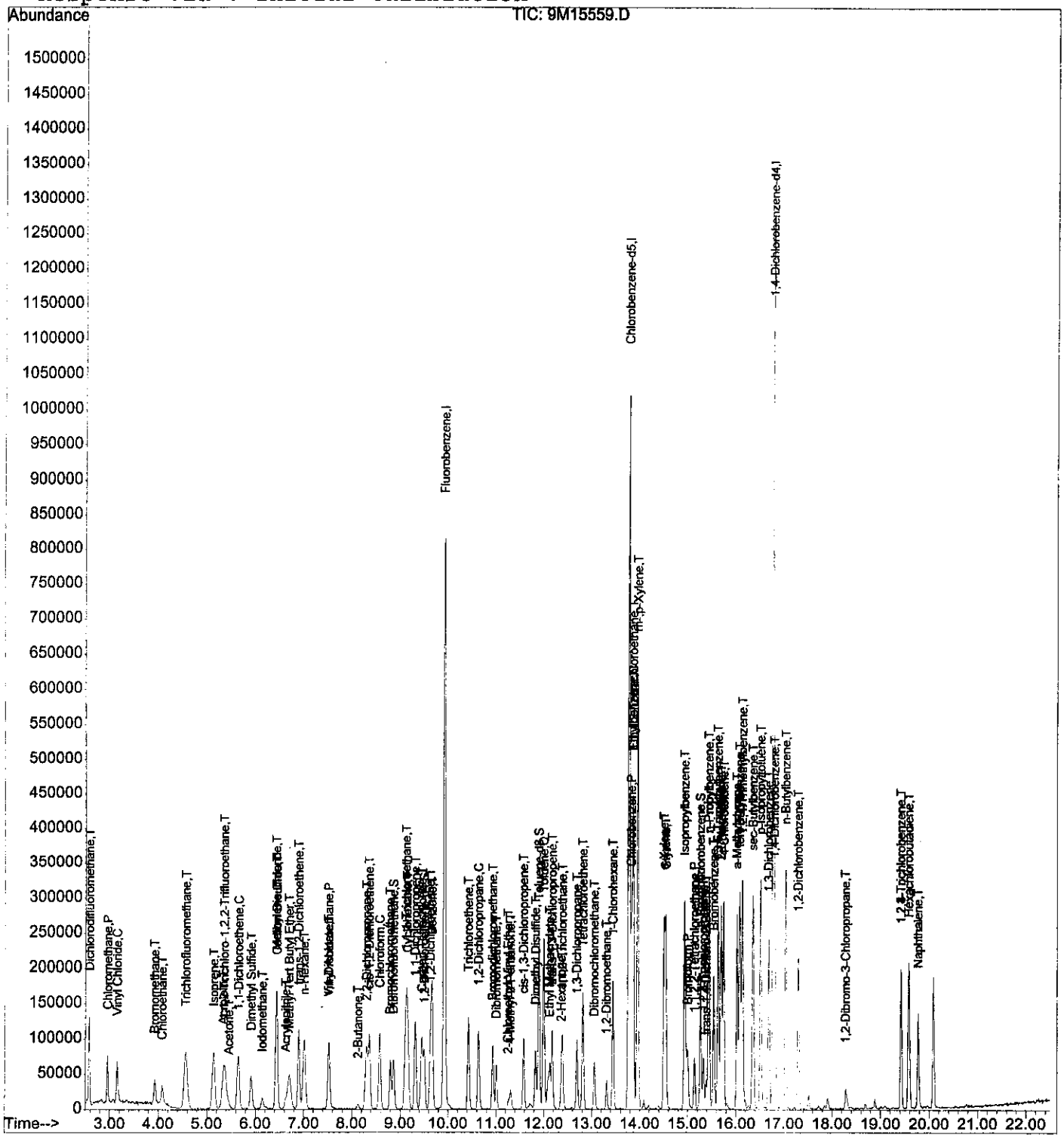
Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\051101\9M15559.D
Acq On : 11 May 2001 13:50
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917
Misc : SOLID,1
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001

Vial: 4
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	992752	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	686710	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	418741	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	64863	10.29	ug/kg	0.01
Spiked Amount 50.000			Recovery = 20.58%			
33) 1,2-Dichloroethane-d4	9.51	65	81873	10.63	ug/kg	0.03
Spiked Amount 50.000			Recovery = 21.26%			
45) Toluene-d8	11.90	98	217969	10.43	ug/kg	0.02
Spiked Amount 50.000			Recovery = 20.86%			
66) p-Bromofluorobenzene	15.27	95	86489	10.22	ug/kg	0.00
Spiked Amount 50.000			Recovery = 20.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	136000	13.00	ug/kg	99
3) Chloromethane	2.96	50	69409	12.53	ug/kg	98
4) Vinyl Chloride	3.16	62	57105	13.03	ug/kg	97
5) Bromomethane	3.93	94	32095	11.44	ug/kg	96
6) Chloroethane	4.08	64	30578	11.78	ug/kg	92
7) Trichlorofluoromethane	4.57	101	164063	12.00	ug/kg	99
8) Isoprene	5.14	67	66492	9.35	ug/kg	98
9) Acrolein	5.33	56	8685	31.15	ug/kg	96
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	72714m	10.22	ug/kg	
11) Acetone	5.46	43	17610	9.40	ug/kg	96
12) 1,1-Dichloroethene	5.66	96	51332	9.02	ug/kg	97
13) Dimethyl Sulfide	5.92	62	35268	6.73	ug/kg	89
14) Iodomethane	6.14	142	26716	7.54	ug/kg	95
15) Methylene Chloride	6.43	84	55549	10.29	ug/kg	99
16) Carbon Disulfide	6.45	76	193226	8.95	ug/kg	99
17) Acrylonitrile	6.63	53	10472	7.59	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	102279	8.71	ug/kg#	89
19) trans-1,2-Dichloroethene	6.90	96	58672	9.57	ug/kg	96
20) n-Hexane	7.02	57	81254	8.49	ug/kg#	80
21) Vinyl Acetate	7.52	43	51435	9.04	ug/kg#	88
22) 1,1-Dichloroethane	7.53	63	116207	9.52	ug/kg	99
23) 2-Butanone	8.13	43	12468m	7.11	ug/kg	
24) 2,2-Dichloropropane	8.31	77	109752	9.45	ug/kg	97
25) cis-1,2-Dichloroethene	8.36	96	53567	8.78	ug/kg	93
26) Chloroform	8.58	83	123043	9.95	ug/kg	100
27) Bromochloromethane	8.80	128	22839	9.20	ug/kg	94
29) 1,1,1-Trichloroethane	9.12	97	128213	9.80	ug/kg	100

(#) = qualifier out of range (m) = manual integration

Acq On : 11 May 2001 13:50 Vial: 4
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Operator: MES
Misc : SOLID,1 Inst : HPMS9
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) Cyclohexane	9.16	56	88398	8.96 ug/kg	98
31) 1,1-Dichloropropene	9.32	75	87475	11.95 ug/kg	99
32) Carbon Tetrachloride	9.46	117	112770	10.03 ug/kg	99
34) 1,2-Dichloroethane	9.63	62	94586	10.20 ug/kg	97
35) Benzene	9.67	78	221275	9.47 ug/kg	99
36) Trichloroethene	10.43	130	54805	9.04 ug/kg	98
37) 1,2-Dichloropropane	10.64	63	51367	9.33 ug/kg	96
38) Bromodichloromethane	10.94	83	82313	9.88 ug/kg	99
39) Dibromomethane	11.01	93	30700	9.82 ug/kg	95
40) 2-Chloroethyl Vinyl Ether	11.26	63	6509	4.35 ug/kg	92
41) 4-Methyl-2-Pentanone	11.31	58	9686	6.12 ug/kg#	93
42) cis-1,3-Dichloropropene	11.58	75	69906	9.54 ug/kg	98
43) Dimethyl Disulfide	11.83	79	29511	6.64 ug/kg	93
46) Toluene	12.00	91	233096	10.32 ug/kg	100
47) Ethyl Methacrylate	12.13	69	39242	8.32 ug/kg	99
48) trans-1,3-Dichloropropene	12.18	75	74038	10.15 ug/kg	96
49) 1,1,2-Trichloroethane	12.39	97	39535	10.40 ug/kg	98
50) 2-Hexanone	12.36	43	22620	8.21 ug/kg	88
51) 1,3-Dichloropropane	12.70	76	66108	10.38 ug/kg	100
52) Tetrachloroethene	12.81	164	48244	10.18 ug/kg	99
53) Dibromochloromethane	13.06	129	50197	10.97 ug/kg	97
54) 1,2-Dibromoethane	13.32	107	34526	10.13 ug/kg	98
55) 1-Chlorohexane	13.45	91	66683	9.43 ug/kg	89
56) Chlorobenzene	13.82	112	155166	10.29 ug/kg	99
57) 1,1,1,2-Tetrachloroethane	13.86	131	55961	10.73 ug/kg	99
58) Ethylbenzene	13.86	106	86122	10.43 ug/kg	99
59) m-,p-Xylene	13.96	106	220197	21.61 ug/kg	97
60) o-Xylene	14.51	106	90230	9.84 ug/kg	97
61) Styrene	14.54	104	155582	10.36 ug/kg#	73
62) Bromoform	15.01	173	31455	10.24 ug/kg	100
63) Isopropylbenzene	14.94	105	253931	9.75 ug/kg	99
65) 1,1,2,2-Tetrachloroethane	15.15	83	46369	9.73 ug/kg	98
67) 1,2,3-Trichloropropane	15.33	110	15496	10.32 ug/kg	90
68) trans-1,4-Dichloro-2-Buten	15.39	53	13059	8.68 ug/kg	98
69) n-Propylbenzene	15.45	91	362728	10.53 ug/kg	100
70) Bromobenzene	15.54	156	63076	9.97 ug/kg	98
71) 1,3,5-Trimethylbenzene	15.63	105	222689	10.42 ug/kg	98
72) 2-Chlorotoluene	15.70	91	242848	11.09 ug/kg	96
73) 4-Chlorotoluene	15.75	91	223899	10.23 ug/kg	95
74) a-Methylstyrene	16.03	118	100034	10.75 ug/kg	98
75) tert-Butylbenzene	16.09	119	258143	11.28 ug/kg#	79

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: 8260SL.RES

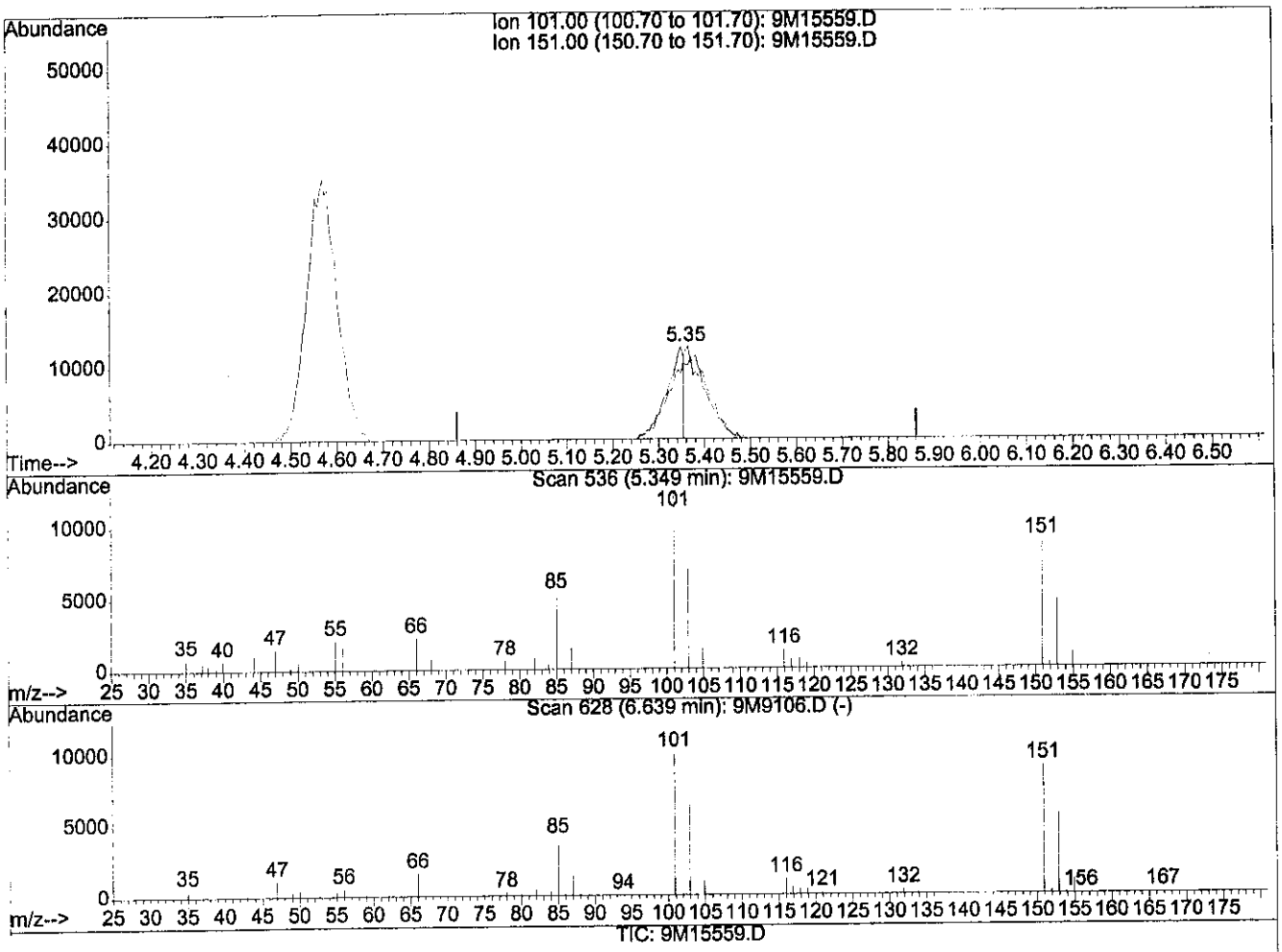
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	248627	11.13	ug/kg	87
77)	sec-Butylbenzene	16.36	105	300508	9.97	ug/kg	98
78)	p-Isopropyltoluene	16.52	119	253753	10.03	ug/kg	100
79)	1,3-Dichlorobenzene	16.69	146	119936	10.06	ug/kg	99
80)	1,4-Dichlorobenzene	16.81	146	125350	9.90	ug/kg	93
81)	n-Butylbenzene	17.04	91	262501	10.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	108131	10.38	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.29	157	7725	8.69	ug/kg	79
84)	1,2,4-Trichlorobenzene	19.43	180	78112	10.46	ug/kg	100
85)	Hexachlorobutadiene	19.59	225	62979	10.32	ug/kg	99
86)	Naphthalene	19.78	128	126710	10.50	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.43	180	78112	10.46	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15559.D 8260SL.M Fri May 11 14:56:33 2001 HPMS_9 Page 3

Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:12 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.35min 4.48ug/kg

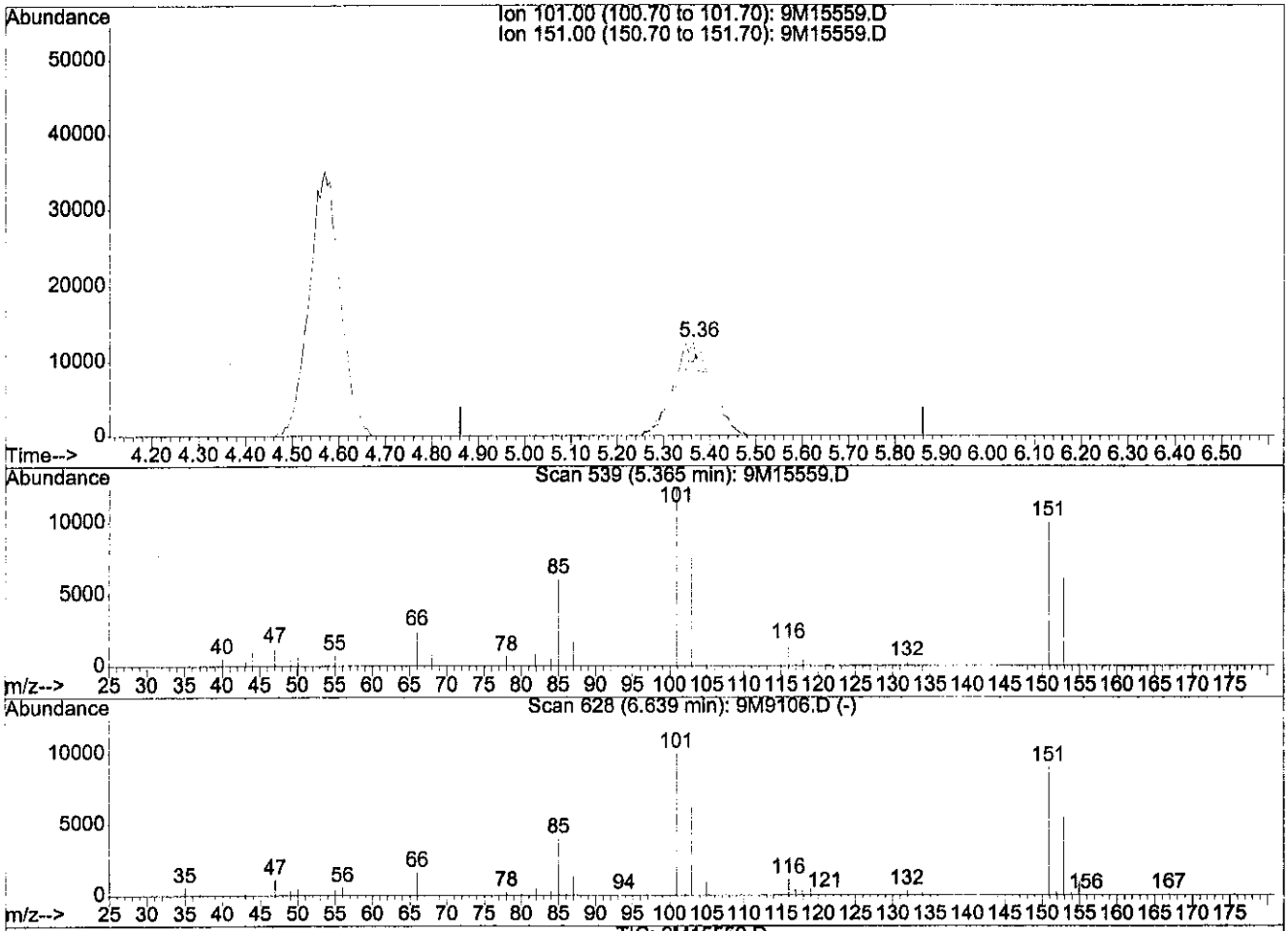
response 31878

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	195.33#
0.00	0.00	0.00
0.00	0.00	0.00

9M15559.D 8260SL.M Fri May 11 14:48:49 2001 HPMS_9

Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:48 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



TIC: 9M15559.D

(10) 1,1,2-Trichloro-1,2,2-Trifluoroethane (T)

5.36min 10.22ug/kg m

response 72714

Ion	Exp%	Act%
101.00	100	100
151.00	44.30	85.63#
0.00	0.00	0.00
0.00	0.00	0.00

5.11.01

9M15559.D 8260SL.M Fri May 11 14:48:53 2001 HPMS_9

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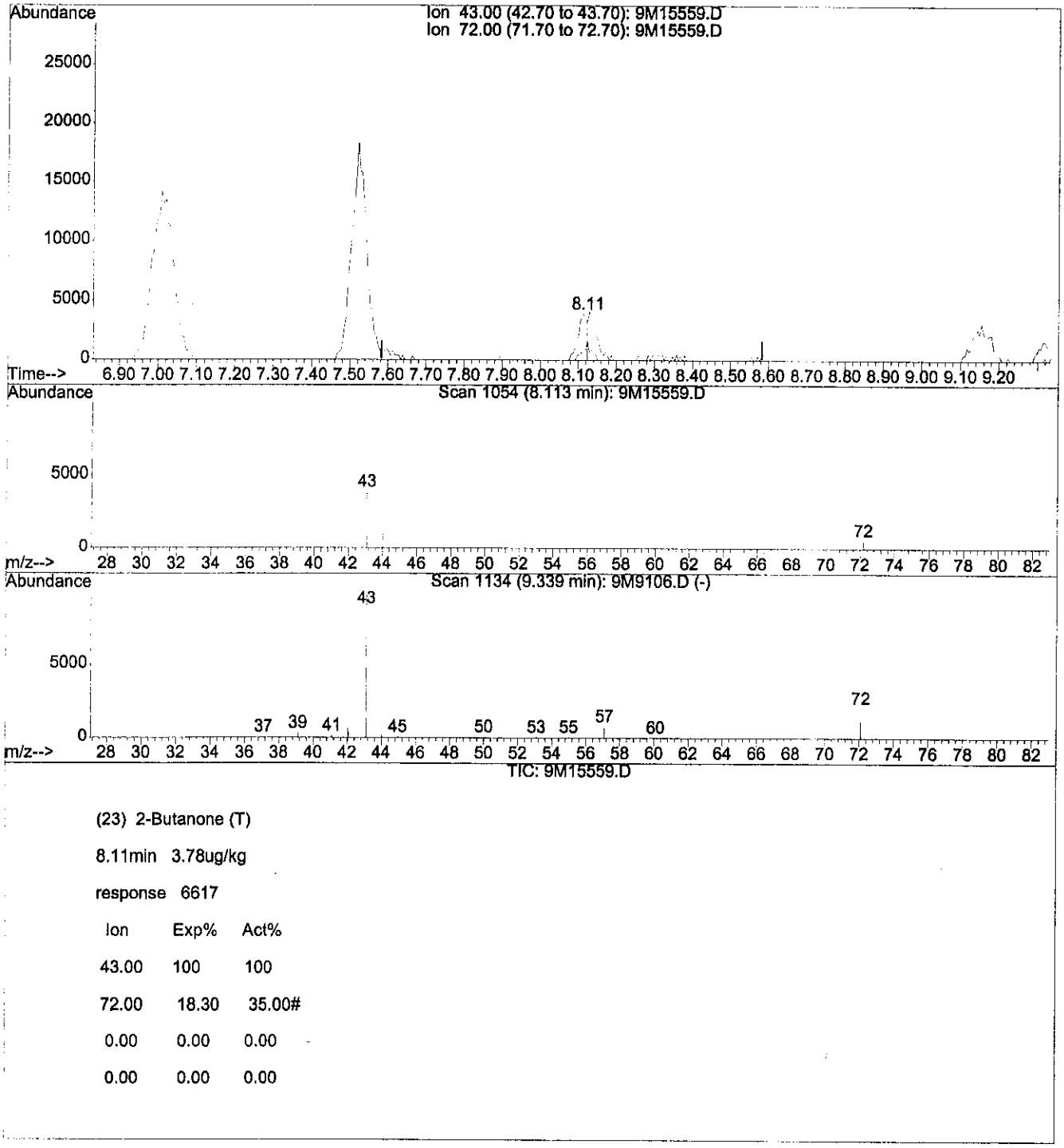
Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:48 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(23) 2-Butanone (T)

8.11min 3.78ug/kg

response 6617

Ion	Exp%	Act%
43.00	100	100
72.00	18.30	35.00#
0.00	0.00	0.00
0.00	0.00	0.00

9M15559.D 8260SL.M Fri May 11 14:49:09 2001 HPMS_9

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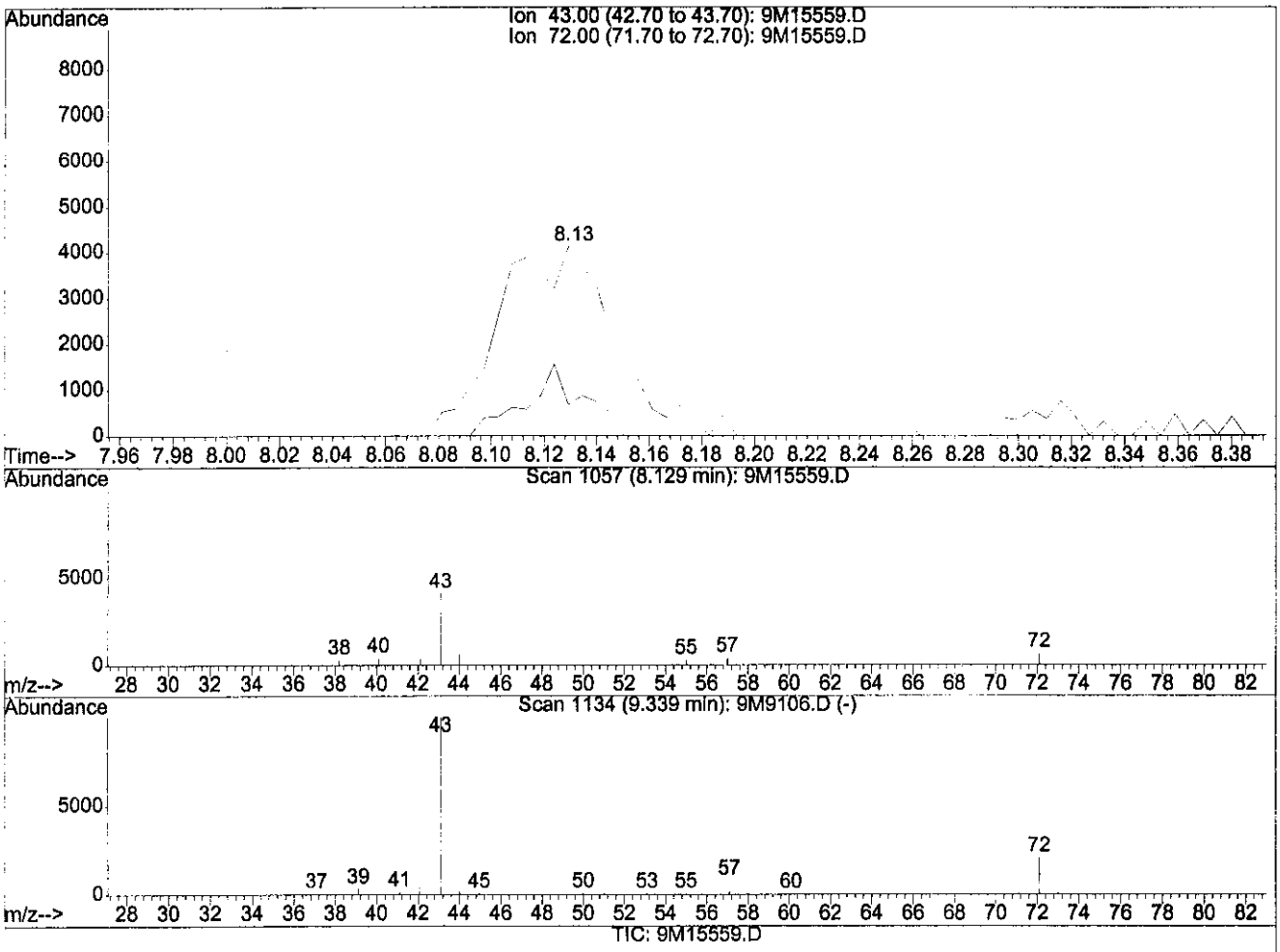
Data File : D:\HPCHEM\1\DATA\051101\9M15559.D Vial: 4
Acq On : 11 May 2001 13:50 Operator: MES
Sample : WG97218-05 10PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:49 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Single Level Calibration



(23) 2-Butanone (T)

8.13min 7.11ug/kg m

response 12468

Ion	Exp%	Act%
43.00	100	100
72.00	18.30	18.58
0.00	0.00	0.00
0.00	0.00	0.00

5.11.01

5/11/01

9M15559.D 8260SL.M Fri May 11 14:49:14 2001 HPMS_9

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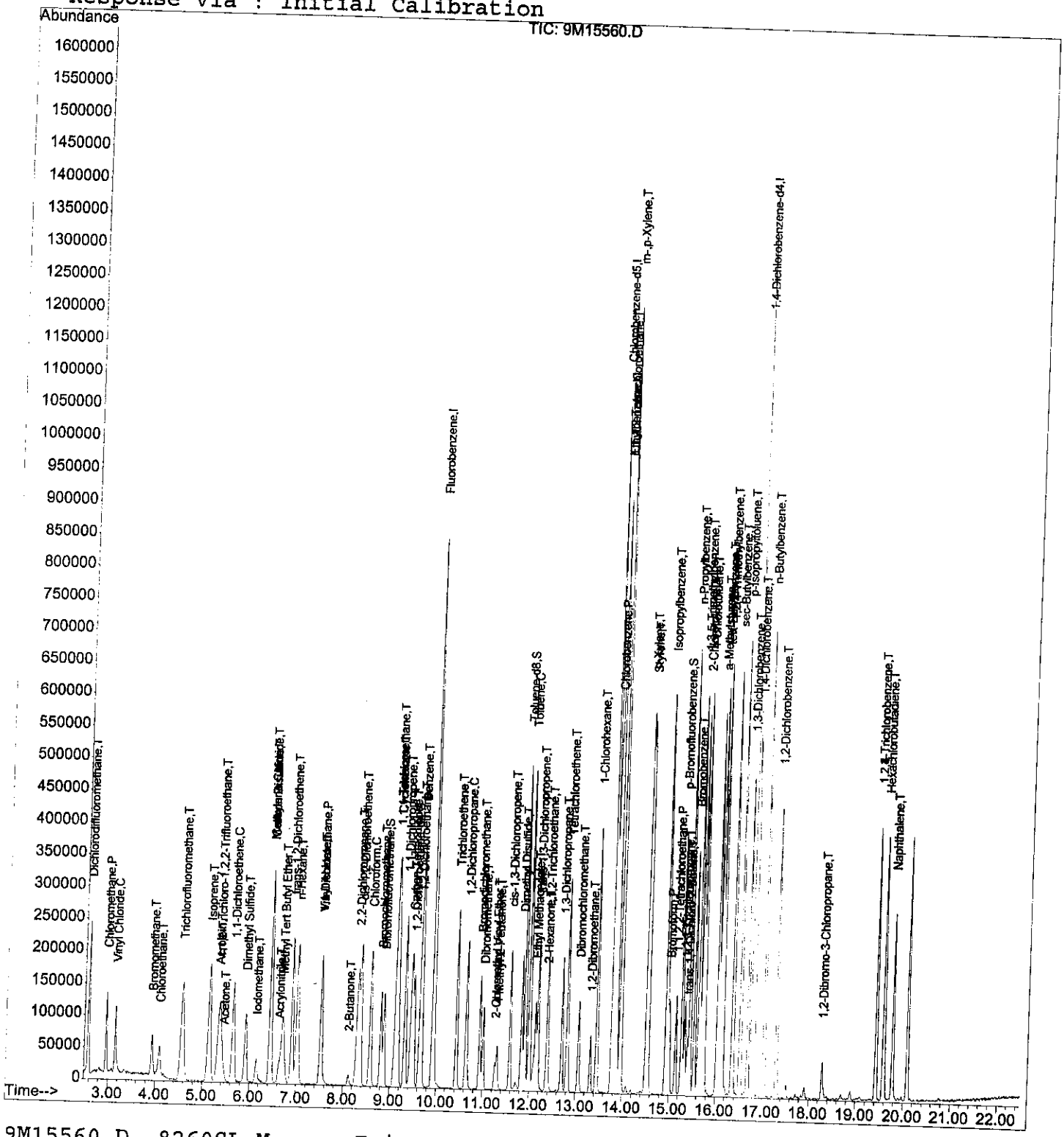
Data File : d:\HPCHEM\1\DATA\051101\9M15560.D
Acq On : 11 May 2001 14:22 Vial: 5
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Operator: MES
Misc : SOLID,1 Inst : HPMS9
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: May 11 14:44 2001
Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



9M15560.D 8260SL.M Fri May 11 14:44:59 2001 HPMS_9 Page 4

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Data File : d:\HPCHEM\1\DATA\051101\9M15560.D Vial: 5
Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1049945	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.77	117	739902	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	445687	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	131149	19.68	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 39.36%#			
33) 1,2-Dichloroethane-d4	9.51	65	162794	19.99	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 39.98%#			
45) Toluene-d8	11.90	98	466249	20.70	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 41.40%#			
66) p-Bromofluorobenzene	15.27	95	181785	20.19	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 40.38%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	260912	23.57	ug/kg	98
3) Chloromethane	2.96	50	132453	22.61	ug/kg	98
4) Vinyl Chloride	3.16	62	104392	22.52	ug/kg	99
5) Bromomethane	3.93	94	61586	20.75	ug/kg	97
6) Chloroethane	4.08	64	61264	22.32	ug/kg	97
7) Trichlorofluoromethane	4.57	101	316251	21.88	ug/kg	98
8) Isoprene	5.14	67	151104	20.08	ug/kg	97
9) Acrolein	5.34	56	18354	62.24	ug/kg	97
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	144024	19.14	ug/kg	99
11) Acetone	5.46	43	30755	15.52	ug/kg	92
12) 1,1-Dichloroethene	5.65	96	106416	17.67	ug/kg	97
13) Dimethyl Sulfide	5.91	62	81085	14.62	ug/kg	92
14) Iodomethane	6.15	142	66645	17.79	ug/kg	100
15) Methylene Chloride	6.43	84	107569	18.85	ug/kg	99
16) Carbon Disulfide	6.45	76	399188	17.48	ug/kg	99
17) Acrylonitrile	6.62	53	23255	15.94	ug/kg	98
18) Methyl Tert Butyl Ether	6.71	73	228266	18.39	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	125126	19.31	ug/kg	98
20) n-Hexane	7.01	57	185063	18.29	ug/kg#	76
21) Vinyl Acetate	7.52	43	124457	20.68	ug/kg	97
22) 1,1-Dichloroethane	7.52	63	235731	18.25	ug/kg	99
23) 2-Butanone	8.12	43	28979	15.64	ug/kg#	80
24) 2,2-Dichloropropane	8.32	77	221803	18.07	ug/kg	98
25) cis-1,2-Dichloroethene	8.37	96	118806	18.42	ug/kg	95
26) Chloroform	8.58	83	245512	18.77	ug/kg	100
27) Bromochloromethane	8.80	128	47255	17.99	ug/kg	93
29) 1,1,1-Trichloroethane	9.12	97	257559	18.60	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15560.D 8260SL.M Fri May 11 14:44:53 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051101\9M15560.D Vial: 5
Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	207242	19.87	ug/kg	99
31)	1,1-Dichloropropene	9.32	75	185632	23.99	ug/kg	100
32)	Carbon Tetrachloride	9.46	117	222224	18.68	ug/kg	99
34)	1,2-Dichloroethane	9.63	62	189522	19.33	ug/kg	99
35)	Benzene	9.67	78	455725	18.44	ug/kg	99
36)	Trichloroethene	10.43	130	114961	17.93	ug/kg	99
37)	1,2-Dichloropropane	10.64	63	105154	18.07	ug/kg	96
38)	Bromodichloromethane	10.93	83	169767	19.26	ug/kg	99
39)	Dibromomethane	11.01	93	62520	18.91	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	20943	13.24	ug/kg	93
41)	4-Methyl-2-Pentanone	11.32	58	25859	15.44	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	155472	20.05	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	77538	16.49	ug/kg	94
46)	Toluene	12.00	91	494683	20.33	ug/kg	100
47)	Ethyl Methacrylate	12.13	69	91822	18.07	ug/kg#	90
48)	trans-1,3-Dichloropropene	12.18	75	161890	20.61	ug/kg	98
49)	1,1,2-Trichloroethane	12.38	97	81845	19.98	ug/kg	97
50)	2-Hexanone	12.36	43	47063	15.86	ug/kg#	87
51)	1,3-Dichloropropane	12.69	76	141238	20.57	ug/kg	98
52)	Tetrachloroethene	12.81	164	99688	19.53	ug/kg	100
53)	Dibromochloromethane	13.06	129	101654	20.61	ug/kg	98
54)	1,2-Dibromoethane	13.31	107	72549	19.76	ug/kg	99
55)	1-Chlorohexane	13.44	91	160950	21.12	ug/kg	96
56)	Chlorobenzene	13.82	112	317874	19.57	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	113480	20.19	ug/kg	96
58)	Ethylbenzene	13.86	106	180414	20.28	ug/kg	99
59)	m-,p-Xylene	13.95	106	459439	41.85	ug/kg	99
60)	o-Xylene	14.51	106	204830	20.72	ug/kg	99
61)	Styrene	14.54	104	335337	20.72	ug/kg#	74
62)	Bromoform	15.00	173	65026	19.64	ug/kg	100
63)	Isopropylbenzene	14.94	105	575384	20.51	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.15	83	97872	19.30	ug/kg	98
67)	1,2,3-Trichloropropane	15.33	110	31710	19.84	ug/kg	87
68)	trans-1,4-Dichloro-2-Buten	15.38	53	28690	17.91	ug/kg	98
69)	n-Propylbenzene	15.44	91	778921	21.24	ug/kg	100
70)	Bromobenzene	15.54	156	135281	20.09	ug/kg	96
71)	1,3,5-Trimethylbenzene	15.63	105	486527	21.38	ug/kg	98
72)	2-Chlorotoluene	15.70	91	469564	20.15	ug/kg	100
73)	4-Chlorotoluene	15.74	91	490441	21.06	ug/kg	99
74)	a-Methylstyrene	16.03	118	223170	22.54	ug/kg	97
75)	tert-Butylbenzene	16.08	119	520482	21.36	ug/kg#	77

(#) = qualifier out of range (m) = manual integration
9M15560.D 8260SL.M Fri May 11 14:44:54 2001 HPMS_9 Page 2

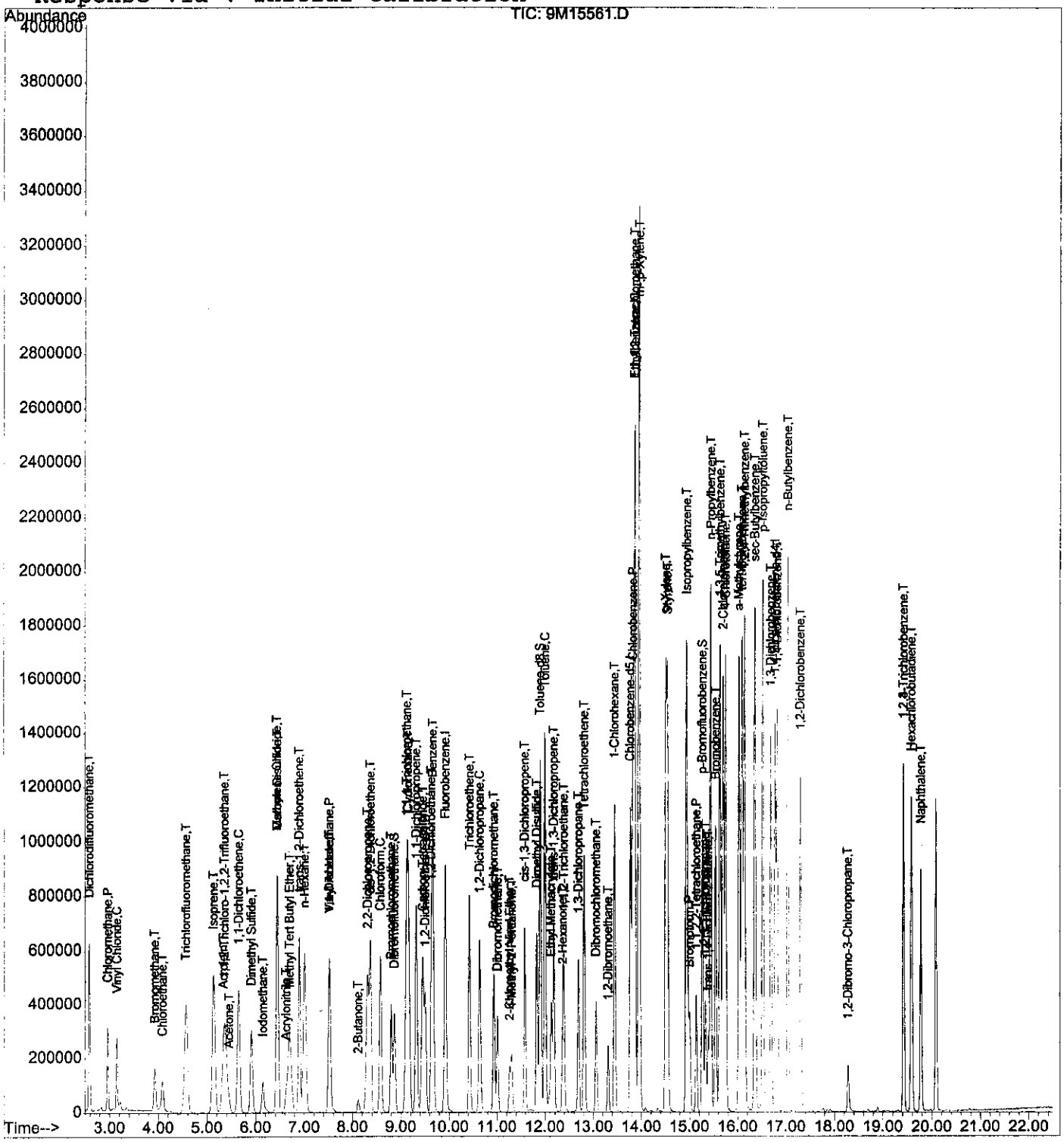
Data File : d:\HPCHEM\1\DATA\051101\9M15560.D Vial: 5
Acq On : 11 May 2001 14:22 Operator: MES
Sample : WG97218-06 20PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 14:44 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	526698	22.15	ug/kg	85
77)	sec-Butylbenzene	16.35	105	650951	20.29	ug/kg	98
78)	p-Isopropyltoluene	16.52	119	561971	20.87	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	253589	19.99	ug/kg	99
80)	1,4-Dichlorobenzene	16.81	146	257586	19.12	ug/kg	99
81)	n-Butylbenzene	17.04	91	561359	21.91	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	227652	20.53	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.28	157	18107	19.14	ug/kg	99
84)	1,2,4-Trichlorobenzene	19.42	180	169376	21.32	ug/kg	100
85)	Hexachlorobutadiene	19.58	225	128774	19.83	ug/kg	99
86)	Naphthalene	19.78	128	283805	22.10	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.42	180	169376	21.32	ug/kg	100

Data File : d:\HPCHEM\1\DATA\051101\9M15561.D Vial: 6
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051101\9M15561.D Vial: 6
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1144542	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	788685	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	476161	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	332402	45.75	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.50%			
33) 1,2-Dichloroethane-d4	9.51	65	409283	46.10	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.20%			
45) Toluene-d8	11.90	98	1225681	51.04	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 102.08%			
66) p-Bromofluorobenzene	15.27	95	484257	50.34	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 100.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	681538	56.49	ug/kg	99
3) Chloromethane	2.96	50	324250	50.79	ug/kg	97
4) Vinyl Chloride	3.15	62	262167	51.88	ug/kg	98
5) Bromomethane	3.93	94	161046	49.78	ug/kg	98
6) Chloroethane	4.08	64	153580	51.32	ug/kg	96
7) Trichlorofluoromethane	4.56	101	809230	51.35	ug/kg	99
8) Isoprene	5.14	67	443942	54.13	ug/kg	99
9) Acrolein	5.33	56	60187	187.23	ug/kg	98
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	378922	46.19	ug/kg#	39
11) Acetone	5.45	43	81492	37.73	ug/kg	91
12) 1,1-Dichloroethene	5.65	96	311853	47.51	ug/kg	99
13) Dimethyl Sulfide	5.91	62	245050	40.53	ug/kg	97
14) Iodomethane	6.14	142	199600	48.88	ug/kg	99
15) Methylene Chloride	6.43	84	291215	46.81	ug/kg	98
16) Carbon Disulfide	6.45	76	1081158	43.43	ug/kg	100
17) Acrylonitrile	6.62	53	66273	41.66	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	692162	51.15	ug/kg	100
19) trans-1,2-Dichloroethene	6.90	96	353975	50.10	ug/kg	98
20) n-Hexane	7.01	57	547735	49.66	ug/kg#	77
21) Vinyl Acetate	7.52	43	399173	60.85	ug/kg	97
22) 1,1-Dichloroethane	7.52	63	659033	46.81	ug/kg	99
23) 2-Butanone	8.11	43	92811	45.94	ug/kg	94
24) 2,2-Dichloropropane	8.31	77	648410	48.45	ug/kg	100
25) cis-1,2-Dichloroethene	8.37	96	348176	49.51	ug/kg	98
26) Chloroform	8.58	83	667215	46.80	ug/kg	99
27) Bromochloromethane	8.80	128	134117	46.84	ug/kg	97
29) 1,1,1-Trichloroethane	9.12	97	717464	47.54	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15561.D 8260SL.M Fri May 11 15:17:49 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051101\9M15561.D Vial: 6
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	594793	52.31	ug/kg	99
31)	1,1-Dichloropropene	9.32	75	544831	64.58	ug/kg	98
32)	Carbon Tetrachloride	9.46	117	617003	47.58	ug/kg	98
34)	1,2-Dichloroethane	9.63	62	508669	47.59	ug/kg	98
35)	Benzene	9.67	78	1300306	48.26	ug/kg	100
36)	Trichloroethene	10.43	130	337737	48.33	ug/kg	99
37)	1,2-Dichloropropane	10.64	63	304019	47.91	ug/kg	99
38)	Bromodichloromethane	10.93	83	470335	48.95	ug/kg	99
39)	Dibromomethane	11.01	93	166921	46.31	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	86578	50.20	ug/kg	95
41)	4-Methyl-2-Pentanone	11.30	58	81683	44.74	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	478093	56.57	ug/kg	99
43)	Dimethyl Disulfide	11.83	79	257824	50.30	ug/kg	99
46)	Toluene	12.00	91	1413288	54.50	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	276502	51.05	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	467056	55.77	ug/kg	100
49)	1,1,2-Trichloroethane	12.39	97	234704	53.76	ug/kg	100
50)	2-Hexanone	12.36	43	149707	47.32	ug/kg	95
51)	1,3-Dichloropropane	12.69	76	404405	55.26	ug/kg	97
52)	Tetrachloroethene	12.81	164	289720	53.25	ug/kg	97
53)	Dibromochloromethane	13.05	129	300170	57.09	ug/kg	99
54)	1,2-Dibromoethane	13.31	107	211991	54.17	ug/kg	99
55)	1-Chlorohexane	13.44	91	479323	59.01	ug/kg	99
56)	Chlorobenzene	13.82	112	877576	50.70	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.86	131	323173	53.93	ug/kg	98
58)	Ethylbenzene	13.86	106	517384	54.55	ug/kg	96
59)	m-,p-Xylene	13.96	106	1281014	109.48	ug/kg	99
60)	o-Xylene	14.51	106	591658	56.15	ug/kg	97
61)	Styrene	14.54	104	971144	56.29	ug/kg#	74
62)	Bromoform	15.00	173	195407	55.37	ug/kg	99
63)	Isopropylbenzene	14.93	105	1684787	56.35	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	278212	51.36	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	89373	52.34	ug/kg	90
68)	trans-1,4-Dichloro-2-Buten	15.39	53	86053	50.29	ug/kg	93
69)	n-Propylbenzene	15.44	91	2210055	56.41	ug/kg	99
70)	Bromobenzene	15.54	156	372130	51.72	ug/kg	98
71)	1,3,5-Trimethylbenzene	15.63	105	1409823	58.00	ug/kg	100
72)	2-Chlorotoluene	15.70	91	1388980	55.78	ug/kg	97
73)	4-Chlorotoluene	15.74	91	1296932	52.13	ug/kg	96
74)	a-Methylstyrene	16.03	118	688349	65.08	ug/kg	96
75)	tert-Butylbenzene	16.09	119	1512437	58.09	ug/kg#	75

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051101\9M15561.D Vial: 6
Acq On : 11 May 2001 14:55 Operator: MES
Sample : WG97218-07 50PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:17 2001 Quant Results File: 8260SL.RES

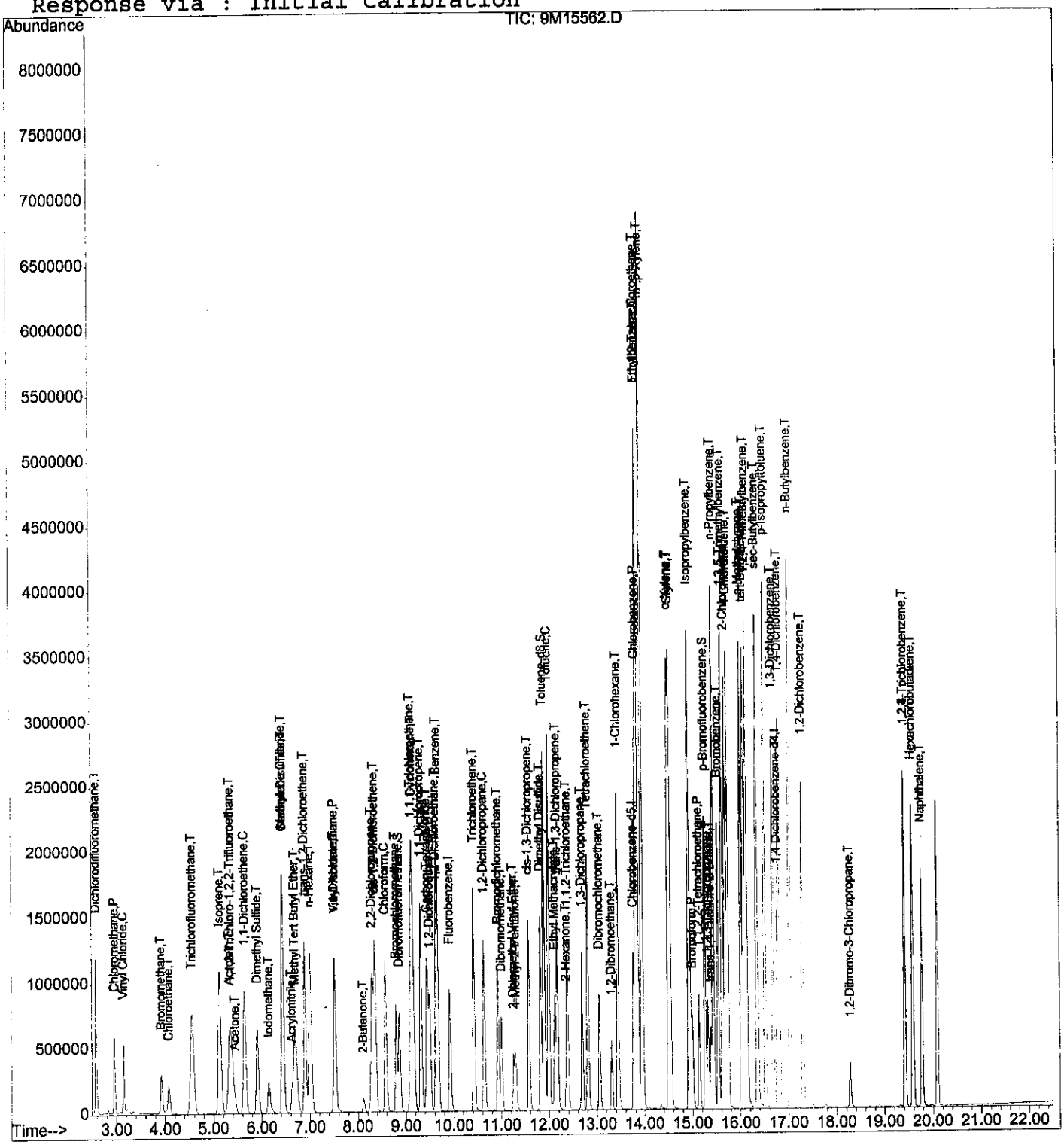
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	1462245	57.55	ug/kg	88
77)	sec-Butylbenzene	16.35	105	1910614	55.73	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	1623149	56.41	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	717180	52.92	ug/kg	98
80)	1,4-Dichlorobenzene	16.82	146	728938	50.63	ug/kg	98
81)	n-Butylbenzene	17.04	91	1628950	59.50	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	641642	54.17	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.28	157	59064	58.44	ug/kg	90
84)	1,2,4-Trichlorobenzene	19.42	180	510858	60.18	ug/kg	100
85)	Hexachlorobutadiene	19.58	225	364927	52.60	ug/kg	98
86)	Naphthalene	19.78	128	880460	64.19	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.42	180	510858	60.18	ug/kg	100

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051101\9M15562.D Vial: 7
Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



9M15562.D 8260SL.M Fri May 11 15:49:51 2001 HPMS_9 Page 4

Data File : d:\HPCHEM\1\DATA\051101\9M15562.D Vial: 7
Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1210526	50.00	ug/kg	0.00
44) Chlorobenzene-d5	13.77	117	832623	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.78	152	496344	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	693424	90.24	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 180.48%#			
33) 1,2-Dichloroethane-d4	9.51	65	819147	87.24	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 174.48%#			
45) Toluene-d8	11.90	98	2617453	103.25	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 206.50%#			
66) p-Bromofluorobenzene	15.27	95	1024218	102.14	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 204.28%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	1344342	105.35	ug/kg	98
3) Chloromethane	2.96	50	624595	92.49	ug/kg	96
4) Vinyl Chloride	3.15	62	525899	98.39	ug/kg	98
5) Bromomethane	3.92	94	312944	91.45	ug/kg	96
6) Chloroethane	4.08	64	310884	98.23	ug/kg	98
7) Trichlorofluoromethane	4.56	101	1620609	97.24	ug/kg	99
8) Isoprene	5.14	67	969888	111.81	ug/kg	99
9) Acrolein	5.33	56	131776	387.58	ug/kg	100
10) 1,1,2-Trichloro-1,2,2-Trif	5.35	101	764204	88.08	ug/kg#	38
11) Acetone	5.45	43	154968	67.85	ug/kg#	90
12) 1,1-Dichloroethene	5.65	96	662605	95.44	ug/kg	97
13) Dimethyl Sulfide	5.91	62	544812	85.20	ug/kg	99
14) Iodomethane	6.14	142	455981	105.57	ug/kg	97
15) Methylene Chloride	6.43	84	610497	92.78	ug/kg	95
16) Carbon Disulfide	6.45	76	2332876	88.59	ug/kg	100
17) Acrylonitrile	6.62	53	150891	89.68	ug/kg	99
18) Methyl Tert Butyl Ether	6.69	73	1528535	106.81	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	749888	100.36	ug/kg	99
20) n-Hexane	7.01	57	1177027	100.91	ug/kg#	76
21) Vinyl Acetate	7.52	43	880287	126.87	ug/kg	98
22) 1,1-Dichloroethane	7.52	63	1363847	91.58	ug/kg	99
23) 2-Butanone	8.12	43	195990	91.72	ug/kg#	91
24) 2,2-Dichloropropane	8.31	77	1366642	96.55	ug/kg	100
25) cis-1,2-Dichloroethene	8.37	96	750035	100.84	ug/kg	97
26) Chloroform	8.58	83	1380987	91.58	ug/kg	100
27) Bromochloromethane	8.80	128	284936	94.08	ug/kg	98
29) 1,1,1-Trichloroethane	9.12	97	1473038	92.29	ug/kg	96

(#) = qualifier out of range (m) = manual integration
9M15562.D 8260SL.M Fri May 11 15:49:45 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051101\9M15562.D Vial: 7
Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	1298123	107.95	ug/kg	98
31)	1,1-Dichloropropene	9.32	75	1152128	129.13	ug/kg	98
32)	Carbon Tetrachloride	9.45	117	1282510	93.52	ug/kg	99
34)	1,2-Dichloroethane	9.63	62	1028146	90.94	ug/kg	99
35)	Benzene	9.67	78	2763838	96.99	ug/kg	99
36)	Trichloroethene	10.43	130	729337	98.68	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	652499	97.23	ug/kg	96
38)	Bromodichloromethane	10.93	83	984917	96.91	ug/kg	100
39)	Dibromomethane	11.01	93	348900	91.52	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	219785	120.50	ug/kg	98
41)	4-Methyl-2-Pentanone	11.31	58	174678	90.45	ug/kg	99
42)	cis-1,3-Dichloropropene	11.58	75	1049079	117.37	ug/kg	99
43)	Dimethyl Disulfide	11.83	79	581486	107.25	ug/kg	95
46)	Toluene	12.00	91	3022554	110.40	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	611838	106.99	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	989353	111.91	ug/kg	100
49)	1,1,2-Trichloroethane	12.39	97	485598	105.36	ug/kg	100
50)	2-Hexanone	12.36	43	326617	97.79	ug/kg	97
51)	1,3-Dichloropropane	12.69	76	856499	110.87	ug/kg	95
52)	Tetrachloroethene	12.82	164	613039	106.73	ug/kg	96
53)	Dibromochloromethane	13.06	129	639965	115.30	ug/kg	100
54)	1,2-Dibromoethane	13.31	107	453261	109.72	ug/kg	100
55)	1-Chlorohexane	13.45	91	1069477	124.72	ug/kg	96
56)	Chlorobenzene	13.82	112	1839412	100.65	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	665609	105.21	ug/kg	98
58)	Ethylbenzene	13.86	106	1073482	107.21	ug/kg	100
59)	m-,p-Xylene	13.96	106	2716397	219.91	ug/kg	100
60)	o-Xylene	14.51	106	1259978	113.27	ug/kg	97
61)	Styrene	14.54	104	2087110	114.60	ug/kg#	75
62)	Bromoform	15.00	173	414910	111.37	ug/kg	99
63)	Isopropylbenzene	14.93	105	3644009	115.45	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	582014	103.07	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	181729	102.09	ug/kg	92
68)	trans-1,4-Dichloro-2-Buten	15.38	53	183018	102.61	ug/kg#	82
69)	n-Propylbenzene	15.44	91	4679879	114.58	ug/kg	100
70)	Bromobenzene	15.54	156	777108	103.62	ug/kg	97
71)	1,3,5-Trimethylbenzene	15.63	105	2989408	117.98	ug/kg	98
72)	2-Chlorotoluene	15.70	91	2719064	104.75	ug/kg	99
73)	4-Chlorotoluene	15.75	91	2692436	103.82	ug/kg	97
74)	a-Methylstyrene	16.02	118	1494526	135.56	ug/kg	96
75)	tert-Butylbenzene	16.09	119	3025209	111.48	ug/kg#	76

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051101\9M15562.D Vial: 7
Acq On : 11 May 2001 15:27 Operator: MES
Sample : WG97218-08 100PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 15:49 2001 Quant Results File: 8260SL.RES

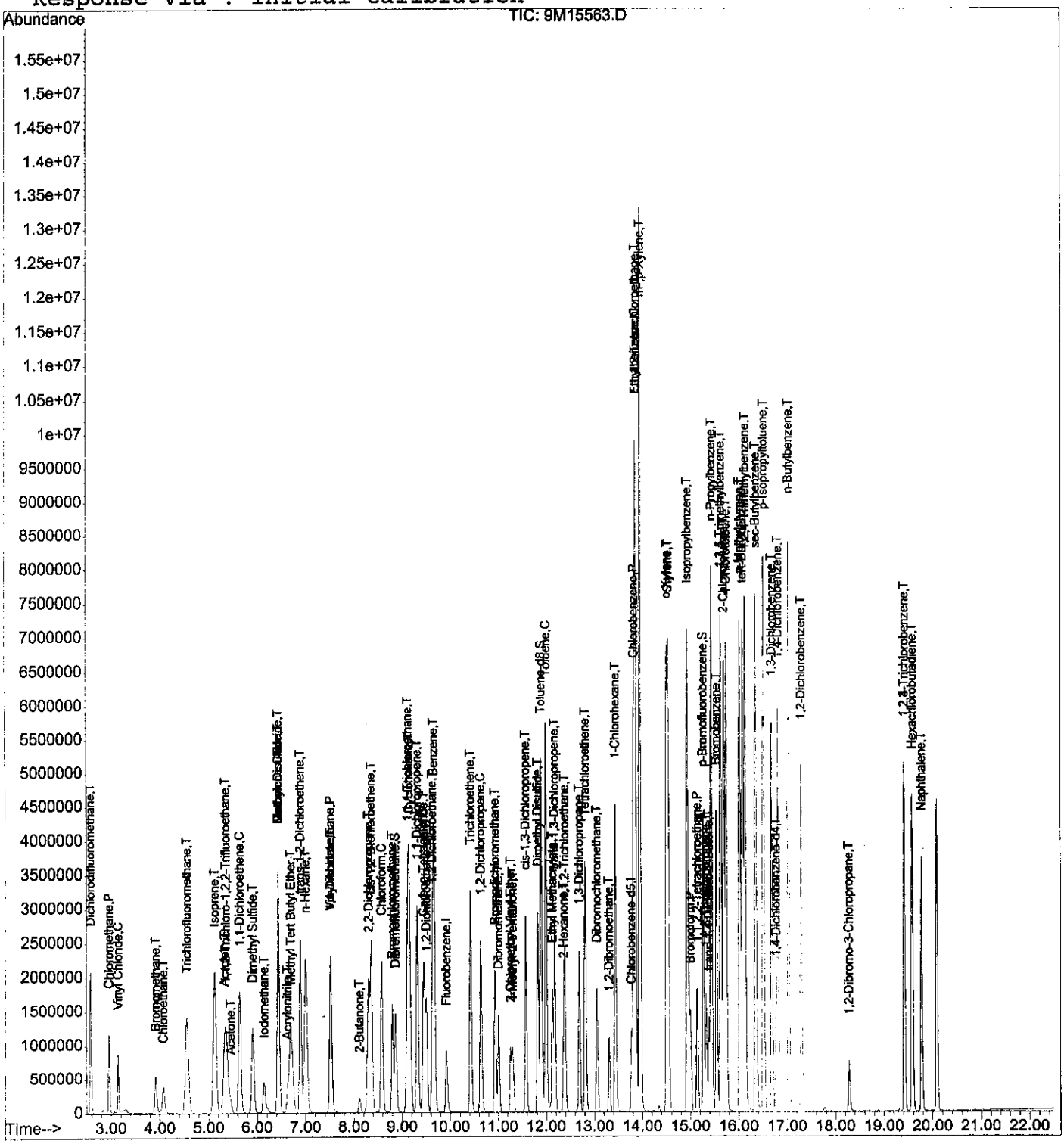
Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	3046938	115.05	ug/kg	89
77)	sec-Butylbenzene	16.35	105	4000110	111.94	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	3386247	112.90	ug/kg	100
79)	1,3-Dichlorobenzene	16.68	146	1494770	105.81	ug/kg	97
80)	1,4-Dichlorobenzene	16.82	146	1501350	100.04	ug/kg	97
81)	n-Butylbenzene	17.04	91	3393311	118.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	1320336	106.94	ug/kg	99
83)	1,2-Dibromo-3-Chloropropan	18.29	157	120851	114.71	ug/kg	88
84)	1,2,4-Trichlorobenzene	19.42	180	1049301	118.58	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	747380	103.35	ug/kg	97
86)	Naphthalene	19.77	128	1807661	126.42	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.42	180	1049301	118.58	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051101\9M15563.D Vial: 8
Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051101\9M15563.D Vial: 8
Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1192784	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	831485	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.77	152	519377	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	1330951	175.79	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 351.58%#			
33) 1,2-Dichloroethane-d4	9.51	65	1553641	167.93	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 335.86%#			
45) Toluene-d8	11.90	98	5040476	199.11	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 398.22%#			
66) p-Bromofluorobenzene	15.27	95	2055346	195.88	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 391.76%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	2444230	194.40	ug/kg	98
3) Chloromethane	2.96	50	1244614	187.05	ug/kg	97
4) Vinyl Chloride	3.14	62	825606	156.76	ug/kg	99
5) Bromomethane	3.92	94	570772	169.28	ug/kg	96
6) Chloroethane	4.07	64	581921	186.60	ug/kg	98
7) Trichlorofluoromethane	4.56	101	2972143	180.99	ug/kg	100
8) Isoprene	5.12	67	1924070	225.10	ug/kg	97
9) Acrolein	5.33	56	280766	838.07	ug/kg	100
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	1445572	169.08	ug/kg#	37
11) Acetone	5.46	43	296986	131.96	ug/kg#	89
12) 1,1-Dichloroethene	5.64	96	1298234	189.78	ug/kg	95
13) Dimethyl Sulfide	5.91	62	1084267	172.09	ug/kg	98
14) Iodomethane	6.15	142	901029	211.71	ug/kg	93
15) Methylene Chloride	6.43	84	1202876	185.53	ug/kg	92
16) Carbon Disulfide	6.44	76	4546529	175.23	ug/kg	100
17) Acrylonitrile	6.62	53	308728	186.23	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	3075602	218.10	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	1482018	201.29	ug/kg	97
20) n-Hexane	7.00	57	2248642	195.64	ug/kg#	75
21) Vinyl Acetate	7.52	43	1820103	266.23	ug/kg	99
22) 1,1-Dichloroethane	7.52	63	2640320	179.93	ug/kg	99
23) 2-Butanone	8.11	43	403398	191.60	ug/kg#	91
24) 2,2-Dichloropropane	8.31	77	2617540	187.68	ug/kg	98
25) cis-1,2-Dichloroethene	8.37	96	1479128	201.83	ug/kg	95
26) Chloroform	8.58	83	2682967	180.58	ug/kg	99
27) Bromochloromethane	8.80	128	567551	190.19	ug/kg	96
29) 1,1,1-Trichloroethane	9.12	97	2800007	178.04	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\051101\9M15563.D Vial: 8
Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	2531055	213.61	ug/kg	98
31)	1,1-Dichloropropene	9.32	75	2230945	253.76	ug/kg	96
32)	Carbon Tetrachloride	9.45	117	2433703	180.10	ug/kg	98
34)	1,2-Dichloroethane	9.63	62	1946018	174.69	ug/kg	98
35)	Benzene	9.67	78	5474487	194.98	ug/kg	99
36)	Trichloroethene	10.43	130	1450234	199.14	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	1298106	196.31	ug/kg	93
38)	Bromodichloromethane	10.93	83	1939628	193.69	ug/kg	99
39)	Dibromomethane	11.01	93	690889	183.93	ug/kg	97
40)	2-Chloroethyl Vinyl Ether	11.26	63	505860	281.46	ug/kg	99
41)	4-Methyl-2-Pentanone	11.30	58	389849	204.87	ug/kg	100
42)	cis-1,3-Dichloropropene	11.58	75	2105783	239.10	ug/kg	98
43)	Dimethyl Disulfide	11.83	79	1189876	222.73	ug/kg	93
46)	Toluene	12.00	91	5960968	218.03	ug/kg	99
47)	Ethyl Methacrylate	12.13	69	1301028	227.82	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	1965271	222.60	ug/kg	98
49)	1,1,2-Trichloroethane	12.39	97	987524	214.55	ug/kg	99
50)	2-Hexanone	12.36	43	694622	208.25	ug/kg	98
51)	1,3-Dichloropropane	12.69	76	1727632	223.94	ug/kg	93
52)	Tetrachloroethene	12.81	164	1193597	208.10	ug/kg	94
53)	Dibromochloromethane	13.05	129	1326428	239.31	ug/kg	100
54)	1,2-Dibromoethane	13.31	107	948875	230.00	ug/kg	99
55)	1-Chlorohexane	13.44	91	2113385	246.79	ug/kg	91
56)	Chlorobenzene	13.82	112	3663923	200.76	ug/kg	100
57)	1,1,1,2-Tetrachloroethane	13.86	131	1309270	207.24	ug/kg	98
58)	Ethylbenzene	13.86	106	2132774	213.29	ug/kg	96
59)	m-,p-Xylene	13.96	106	5403618	438.05	ug/kg	99
60)	o-Xylene	14.51	106	2552485	229.78	ug/kg	96
61)	Styrene	14.54	104	4285378	235.63	ug/kg#	76
62)	Bromoform	15.00	173	886559	238.29	ug/kg	100
63)	Isopropylbenzene	14.94	105	7389900	234.45	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.15	83	1248503	211.29	ug/kg	99
67)	1,2,3-Trichloropropane	15.33	110	389351	209.03	ug/kg	88
68)	trans-1,4-Dichloro-2-Buten	15.39	53	400504	214.58	ug/kg#	81
69)	n-Propylbenzene	15.44	91	9548827	223.43	ug/kg	100
70)	Bromobenzene	15.54	156	1599235	203.79	ug/kg	95
71)	1,3,5-Trimethylbenzene	15.63	105	6166229	232.57	ug/kg	98
72)	2-Chlorotoluene	15.70	91	5872745	216.22	ug/kg	97
73)	4-Chlorotoluene	15.74	91	5602709	206.45	ug/kg	96
74)	a-Methylstyrene	16.03	118	3228297	279.83	ug/kg	94
75)	tert-Butylbenzene	16.09	119	6178506	217.58	ug/kg#	73

(#) = qualifier out of range (m) = manual integration
9M15563.D 8260SL.M Fri May 11 16:21:46 2001 HPMS_9 Page 2

Data File : d:\HPCHEM\1\DATA\051101\9M15563.D Vial: 8
Acq On : 11 May 2001 15:59 Operator: MES
Sample : WG97218-09 200PPB SOIL STD M8260 SV7917 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 16:21 2001 Quant Results File: 8260SL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/03/2001 - HPMS 9
Last Update : Fri May 04 14:39:10 2001
Response via : Initial Calibration
DataAcq Meth : 8260SL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	6268011	226.17	ug/kg	88
77)	sec-Butylbenzene	16.36	105	8314355	222.35	ug/kg	100
78)	p-Isopropyltoluene	16.52	119	7069655	225.25	ug/kg	99
79)	1,3-Dichlorobenzene	16.69	146	3108471	210.28	ug/kg	96
80)	1,4-Dichlorobenzene	16.82	146	3125737	199.05	ug/kg	95
81)	n-Butylbenzene	17.04	91	7015055	234.90	ug/kg	98
82)	1,2-Dichlorobenzene	17.30	146	2773973	214.72	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.28	157	271032	245.86	ug/kg	86
84)	1,2,4-Trichlorobenzene	19.43	180	2166873	234.02	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	1529889	202.17	ug/kg	97
86)	Naphthalene	19.78	128	3937887	263.19	ug/kg	98
87)	1,2,3-Trichlorobenzene	19.43	180	2166873	234.02	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	20.000	15.815	20.9	84	-0.02
3	P	Chloromethane	20.000	17.795	11.0	91	-0.03
4	C	Vinyl Chloride	20.000	16.961	15.2	94	0.00
5	T	Bromomethane	20.000	20.784	-3.9	110	0.00
6	T	Chloroethane	20.000	18.683	6.6	96	0.00
7	T	Trichlorofluoromethane	20.000	17.549	12.3	96	0.00
8	T	Isoprene	20.000	0.138	99.3#	1	0.00
9	T	Acrolein	40.000	0.000	100.0#	0	-5.31#
10	T	1,1,2-Trichloro-1,2,2-Trifl	20.000	0.014	99.9#	0	0.04
11	T	Acetone	20.000	17.945	10.3	104	0.01
12	C	1,1-Dichloroethene	20.000	22.225	-11.1	123	0.00
13	T	Dimethyl Sulfide	20.000	0.000	100.0#	0	-5.90#
14	T	Iodomethane	20.000	31.593	-58.0#	180	0.00
15	T	Methylene Chloride	20.000	21.328	-6.6	123	0.00
16	T	Carbon Disulfide	20.000	18.072	9.6	96	0.00
17	T	Acrylonitrile	20.000	0.091	99.5#	1	0.00
18	T	Methyl Tert Butyl Ether	20.000	23.661	-18.3	135	0.03
19	T	trans-1,2-Dichloroethene	20.000	22.486	-12.4	120	0.01
20	T	n-Hexane	20.000	23.526	-17.6	126	0.00
21	T	Vinyl Acetate	20.000	20.217	-1.1	118	0.02
22	P	1,1-Dichloroethane	20.000	20.717	-3.6	113	0.00
23	T	2-Butanone	20.000	22.153	-10.8	127	0.04
24	T	2,2-Dichloropropane	20.000	20.258	-1.3	113	0.01
25	T	cis-1,2-Dichloroethene	20.000	21.992	-10.0	117	0.00
26	C	Chloroform	20.000	20.509	-2.5	112	0.02
27	T	Bromochloromethane	20.000	22.089	-10.4	122	0.01
28	S	Dibromofluoromethane	20.000	45.417	-127.1#	242	0.01
29	T	1,1,1-Trichloroethane	20.000	20.083	-0.4	110	0.00
30	T	Cyclohexane	20.000	0.057	99.7#	0	0.00
31	T	1,1-Dichloropropene	20.000	20.054	-0.3	102	0.00
32	T	Carbon Tetrachloride	20.000	19.842	0.8	109	0.00
33	S	1,2-Dichloroethane-d4	20.000	45.616	-128.1#	237	0.02
34	T	1,2-Dichloroethane	20.000	19.545	2.3	106	0.01
35	T	Benzene	20.000	21.124	-5.6	112	0.01
36	T	Trichloroethene	20.000	21.687	-8.4	118	0.01
37	C	1,2-Dichloropropane	20.000	20.220	-1.1	110	0.01
38	T	Bromodichloromethane	20.000	20.505	-2.5	111	0.01
39	T	Dibromomethane	20.000	20.252	-1.3	110	0.01
40	T	2-Chloroethyl Vinyl Ether	20.000	19.136	4.3	119	0.00
41	T	4-Methyl-2-Pentanone	20.000	20.314	-1.6	107	0.01

(#) = Out of Range
9M15567.D 8260SOIL.M Fri May 11 18:49:36 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	20.000	20.549	-2.7	118	0.01
43	T	Dimethyl Disulfide	20.000	0.000	-100.0#	0	-11.81#
44	I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
45	S	Toluene-d8	20.000	48.613	-143.1#	252	0.00
46	C	Toluene	20.000	22.233	-11.2	116	0.00
47	T	Ethyl Methacrylate	20.000	0.000	-100.0#	0	-12.12#
48	T	trans-1,3-Dichloropropene	20.000	20.499	-2.5	107	0.00
49	T	1,1,2-Trichloroethane	20.000	20.494	-2.5	113	0.00
50	T	2-Hexanone	20.000	18.215	8.9	112	0.01
51	T	1,3-Dichloropropane	20.000	20.324	-1.6	110	0.00
52	T	Tetrachloroethene	20.000	21.064	-5.3	116	0.00
53	T	Dibromochloromethane	20.000	19.757	1.2	111	0.00
54	T	1,2-Dibromoethane	20.000	20.942	-4.7	118	0.00
55	T	1-Chlorohexane	20.000	21.654	-8.3	125	0.00
56	P	Chlorobenzene	20.000	19.850	0.7	111	0.00
57	T	1,1,1,2-Tetrachloroethane	20.000	19.408	3.0	109	0.00
58	C	Ethylbenzene	20.000	20.689	-3.4	111	0.00
59	T	m-,p-Xylene	40.000	43.307	-8.3	113	0.00
60	T	o-Xylene	20.000	21.314	-6.6	115	0.00
61	T	Styrene	20.000	20.181	-0.9	114	0.00
62	P	Bromoform	20.000	18.918	5.4	108	0.01
63	T	Isopropylbenzene	20.000	19.658	1.7	108	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
65	P	1,1,2,2-Tetrachloroethane	20.000	20.034	-0.2	112	0.00
66	S	p-Bromofluorobenzene	20.000	50.673	-153.4#	273	0.00
67	T	1,2,3-Trichloropropane	20.000	20.460	-2.3	111	0.00
68	T	trans-1,4-Dichloro-2-Butene	20.000	0.141	-99.3#	1	-0.01
69	T	n-Propylbenzene	20.000	21.547	-7.7	112	0.00
70	T	Bromobenzene	20.000	20.876	-4.4	109	0.00
71	T	1,3,5-Trimethylbenzene	20.000	20.878	-4.4	115	0.00
72	T	2-Chlorotoluene	20.000	21.484	-7.4	115	0.00
73	T	4-Chlorotoluene	20.000	21.115	-5.6	105	0.00
74	T	a-Methylstyrene	20.000	4.022	-79.9#	0	-0.01
75	T	tert-Butylbenzene	20.000	19.352	3.2	105	0.00
76	T	1,2,4-Trimethylbenzene	20.000	20.876	-4.4	110	0.00
77	T	sec-Butylbenzene	20.000	20.878	-4.4	111	0.00
78	T	p-Isopropyltoluene	20.000	19.690	1.5	105	0.00
79	T	1,3-Dichlorobenzene	20.000	20.808	-4.0	111	0.00
80	T	1,4-Dichlorobenzene	20.000	20.202	-1.0	112	0.00

(#) = Out of Range
9M15567.D 8260SOIL.M Fri May 11 18:49:37 2001 HPMS_9 Page 2

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Data File : D:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

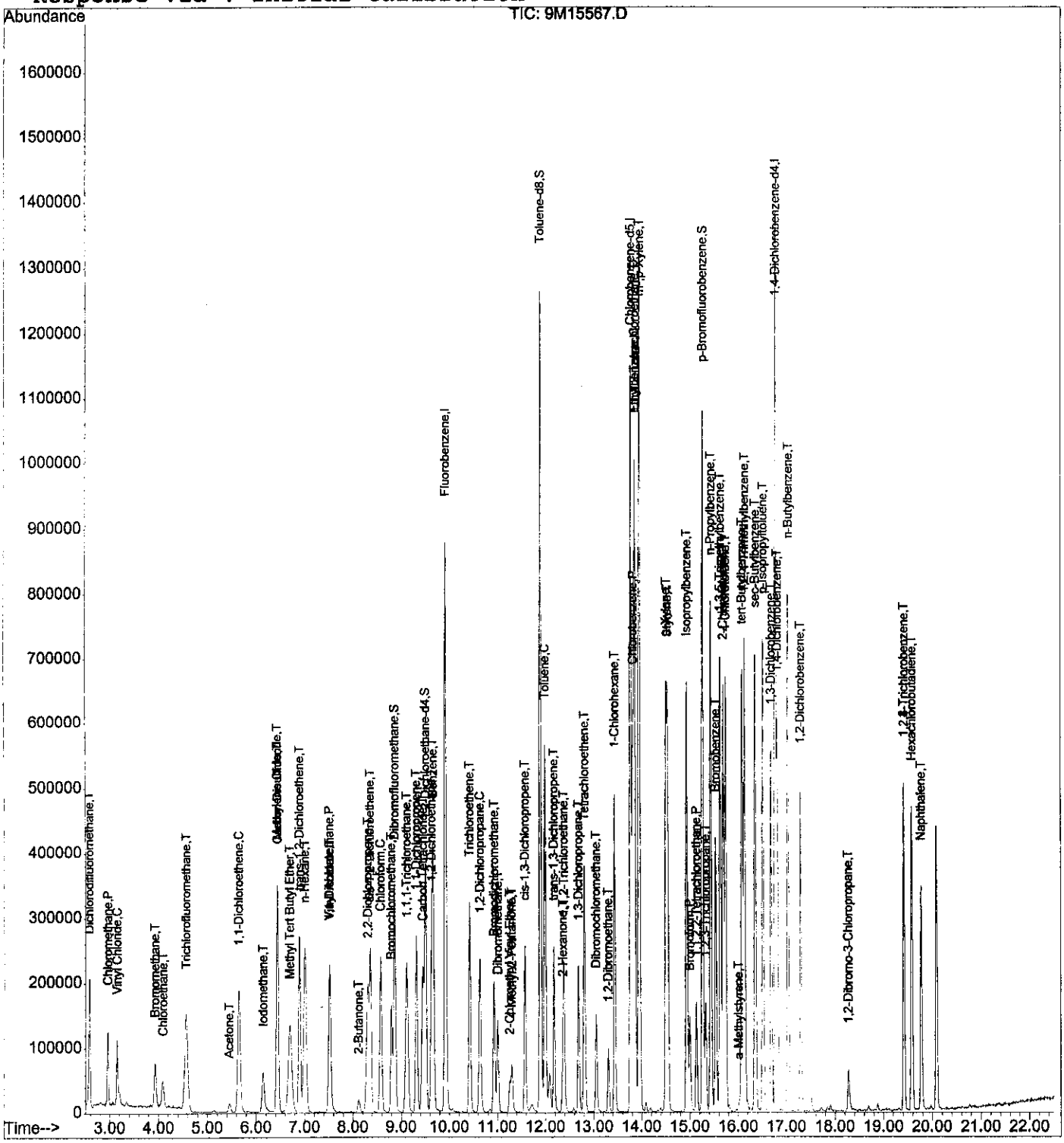
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	20.000	22.266	-11.3	113	0.00
82	T	1,2-Dichlorobenzene	20.000	20.963	-4.8	110	0.00
83	T	1,2-Dibromo-3-Chloropropane	20.000	19.951	0.2	116	0.00
84	T	1,2,4-Trichlorobenzene	20.000	21.479	-7.4	116	0.00
85	T	Hexachlorobutadiene	20.000	21.510	-7.6	115	0.00
86	T	Naphthalene	20.000	22.571	-12.9	120	0.00
87	T	1,2,3-Trichlorobenzene	20.000	21.479	-7.4	116	0.00

Data File : d:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	1124352	50.00	ug/kg	0.00
44) Chlorobenzene-d5	13.77	117	799307	50.00	ug/kg	0.00
64) 1,4-Dichlorobenzene-d4	16.77	152	472793	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.86	111	316793	45.42	ug/kg	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 90.84%			
33) 1,2-Dichloroethane-d4	9.51	65	385632	45.62	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.24%			
45) Toluene-d8	11.89	98	1172890	48.61	ug/kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery = 97.22%			
66) p-Bromofluorobenzene	15.27	95	495823	50.67	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 101.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.57	85	218272	15.82	ug/kg	99
3) Chloromethane	2.96	50	119886	17.79	ug/kg	98
4) Vinyl Chloride	3.15	62	97852	16.96	ug/kg	98
5) Bromomethane	3.94	94	67934	20.78	ug/kg	96
6) Chloroethane	4.09	64	58938	18.68	ug/kg#	75
7) Trichlorofluoromethane	4.57	101	302365	17.55	ug/kg	99
11) Acetone	5.45	43	31871	17.94	ug/kg	98
12) 1,1-Dichloroethene	5.64	96	130662	22.23	ug/kg	96
14) Iodomethane	6.14	142	120038	31.59	ug/kg	98
15) Methylene Chloride	6.43	84	132433	21.33	ug/kg	96
16) Carbon Disulfide	6.45	76	383446	18.07	ug/kg	99
18) Methyl Tert Butyl Ether	6.70	73	307238	23.66	ug/kg#	76
19) trans-1,2-Dichloroethene	6.90	96	150164	22.49	ug/kg	99
20) n-Hexane	7.01	57	234060	23.53	ug/kg	100
21) Vinyl Acetate	7.52	43	146413	20.22	ug/kg	100
22) 1,1-Dichloroethane	7.52	63	267426	20.72	ug/kg	100
23) 2-Butanone	8.12	43	36812	22.15	ug/kg	100
24) 2,2-Dichloropropane	8.31	77	250529	20.26	ug/kg	98
25) cis-1,2-Dichloroethene	8.36	96	138876	21.99	ug/kg	96
26) Chloroform	8.58	83	276164	20.51	ug/kg	100
27) Bromochloromethane	8.80	128	57816	22.09	ug/kg	97
29) 1,1,1-Trichloroethane	9.11	97	284145	20.08	ug/kg	97
31) 1,1-Dichloropropene	9.31	75	190268	20.05	ug/kg	99
32) Carbon Tetrachloride	9.45	117	241784	19.84	ug/kg	99
34) 1,2-Dichloroethane	9.63	62	200561	19.54	ug/kg	99
35) Benzene	9.66	78	510397	21.12	ug/kg	99
36) Trichloroethene	10.42	130	135626	21.69	ug/kg	99

(#) = qualifier out of range (m) = manual integration
9M15567.D 8260SOIL.M Fri May 11 18:48:45 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	1,2-Dichloropropane	10.64	63	115958	20.22	ug/kg	94
38)	Bromodichloromethane	10.93	83	187756	20.51	ug/kg	99
39)	Dibromomethane	11.00	93	68824	20.25	ug/kg	98
40)	2-Chloroethyl Vinyl Ether	11.26	63	24934	19.14	ug/kg	96
41)	4-Methyl-2-Pentanone	11.30	58	27688	20.31	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	184179	20.55	ug/kg	99
46)	Toluene	11.99	91	571885	22.23	ug/kg	100
48)	trans-1,3-Dichloropropene	12.18	75	172413	20.50	ug/kg	99
49)	1,1,2-Trichloroethane	12.38	97	92361	20.49	ug/kg	100
50)	2-Hexanone	12.36	43	52840	18.22	ug/kg#	85
51)	1,3-Dichloropropane	12.69	76	155722	20.32	ug/kg	93
52)	Tetrachloroethene	12.81	164	116093	21.06	ug/kg	98
53)	Dibromochloromethane	13.05	129	112651	19.76	ug/kg	99
54)	1,2-Dibromoethane	13.31	107	85684	20.94	ug/kg	99
55)	1-Chlorohexane	13.44	91	201992	21.65	ug/kg	93
56)	Chlorobenzene	13.82	112	353290	19.85	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.85	131	123410	19.41	ug/kg	99
58)	Ethylbenzene	13.86	106	200383	20.69	ug/kg	96
59)	m-,p-Xylene	13.95	106	517905	43.31	ug/kg	99
60)	o-Xylene	14.50	106	235698	21.31	ug/kg	99
61)	Styrene	14.54	104	381312	20.18	ug/kg	95
62)	Bromoform	15.00	173	70464	18.92	ug/kg	99
63)	Isopropylbenzene	14.93	105	621625	19.66	ug/kg	100
65)	1,1,2,2-Tetrachloroethane	15.14	83	109915	20.03	ug/kg	98
67)	1,2,3-Trichloropropane	15.33	110	35177	20.46	ug/kg#	93
69)	n-Propylbenzene	15.44	91	874319	21.55	ug/kg	100
70)	Bromobenzene	15.54	156	146878	20.88	ug/kg	95
71)	1,3,5-Trimethylbenzene	15.63	105	559222	20.88	ug/kg	99
72)	2-Chlorotoluene	15.69	91	540524	21.48	ug/kg	98
73)	4-Chlorotoluene	15.75	91	513955	21.12	ug/kg	99
74)	a-Methylstyrene	16.01	118	751	4.02	ug/kg#	46
75)	tert-Butylbenzene	16.08	119	548881	19.35	ug/kg#	75
76)	1,2,4-Trimethylbenzene	16.14	105	578655	20.88	ug/kg	98
77)	sec-Butylbenzene	16.35	105	722399	20.88	ug/kg	99
78)	p-Isopropyltoluene	16.51	119	592424	19.69	ug/kg	99
79)	1,3-Dichlorobenzene	16.68	146	282622	20.81	ug/kg	97
80)	1,4-Dichlorobenzene	16.81	146	289704	20.20	ug/kg	97
81)	n-Butylbenzene	17.04	91	635115	22.27	ug/kg	100
82)	1,2-Dichlorobenzene	17.30	146	251052	20.96	ug/kg	100
83)	1,2-Dibromo-3-Chloropropan	18.28	157	21035	19.95	ug/kg	97
84)	1,2,4-Trichlorobenzene	19.42	180	195714	21.48	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15567.D 8260SOIL.M Fri May 11 18:48:46 2001 HPMS_9 Page 2

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Data File : d:\HPCHEM\1\DATA\051101\9M15567.D Vial: 12
Acq On : 11 May 2001 18:26 Operator: MES
Sample : WG97218-10 20PPB ALT SOURCE SV7911 Inst : HPMS9
Misc : SOLID,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 18:48 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85)	Hexachlorobutadiene	19.58	225	148381	21.51	ug/kg	99
86)	Naphthalene	19.77	128	339441	22.57	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.42	180	195714	21.48	ug/kg	100

(#) = qualifier out of range (m) = manual integration
9M15567.D 8260SOIL.M Fri May 11 18:48:47 2001 HPMS_9 Page 3

Calibration Table Report

Method: 8260WTR.M

Title: Method 8260B_WATER - ICAL 05/21/01 - HPMS6

Last Calibration: Thu May 24 13:45:00 2001

Calibration Files

	Compound	0.25 6M25831.D	0.5 6M25832.D	1 6M25833.D	2 6M25834.D	5 6M25835.D	200 6M25839.D	20 6M25836.D	50 6M25837.D	100 6M25838.D	Avg	%RSD	
I	Fluorobenzene	ISTD											
T	Dichlorodifluoromethane		0.539	0.512	0.435	0.456	0.378	0.430	0.419	0.383	0.444	12.835	
P	Chloromethane	0.388	0.458	0.442	0.368	0.366	0.341	0.351	0.340	0.337	0.378	11.707	
C	Vinyl Chloride		0.388	0.375	0.310	0.324	0.198	0.299	0.254	0.210	0.295	23.796	QR=0.998
T	Bromomethane		0.198	0.170	0.149	0.142	0.137	0.146	0.147	0.139	0.154	13.414	
T	Chloroethane	0.178	0.231	0.208	0.178	0.181	0.150	0.171	0.166	0.153	0.180	14.313	
T	Trichlorofluoromethane	0.353	0.583	0.561	0.489	0.507	0.522	0.507	0.502	0.490	0.502	12.811	
T	Isoprene	0.293	0.433	0.416	0.407	0.402	0.484	0.433	0.447	0.479	0.422	13.282	
T	Acrolein					0.004	0.008	0.005	0.006	0.007	0.006	25.960	LR=0.995
T	1,1,2-Trichloro-1,2,2-Trifluoroethan		0.317	0.306	0.262	0.277	0.296	0.281	0.279	0.276	0.287	6.345	
T	Acetone					0.024	0.026	0.023	0.023	0.025	0.024	5.446	
C	1,1-Dichloroethene		0.246	0.226	0.225	0.208	0.244	0.220	0.225	0.241	0.229	5.725	
T	Dimethyl Sulfide	0.173	0.227	0.217	0.218	0.219	0.276	0.238	0.252	0.279	0.233	13.825	
T	Iodomethane				0.129	0.149	0.219	0.177	0.193	0.214	0.180	19.966	LR=0.999
T	Methylene Chloride	0.266	0.327	0.264	0.248	0.223	0.220	0.225	0.228	0.233	0.248	13.752	
T	Carbon Disulfide	0.966	1.111	0.982	0.941	0.855	0.944	0.904	0.950	1.009	0.963	7.400	
T	Acrylonitrile				0.024	0.029	0.040	0.031	0.037	0.040	0.034	19.392	LR=1.000
T	Methyl Tert Butyl Ether		0.333	0.311	0.303	0.310	0.369	0.335	0.342	0.365	0.333	7.431	
T	trans-1,2-Dichloroethene	0.187	0.312	0.263	0.269	0.253	0.288	0.267	0.275	0.294	0.268	13.102	
T	n-Hexane	0.321	0.489	0.453	0.480	0.475	0.496	0.503	0.501	0.515	0.470	12.493	
T	Vinyl Acetate			0.161	0.172	0.185	0.242	0.209	0.232	0.249	0.207	17.002	LR=1.000
P	1,1-Dichloroethane	0.409	0.579	0.506	0.513	0.487	0.529	0.504	0.513	0.542	0.509	9.026	
T	2-Butanone					0.028	0.036	0.030	0.034	0.036	0.033	10.757	
T	2,2-Dichloropropane		0.435	0.394	0.404	0.401	0.497	0.441	0.466	0.509	0.443	9.935	
T	cis-1,2-Dichloroethene	0.197	0.282	0.255	0.254	0.250	0.283	0.269	0.272	0.288	0.261	10.634	
C	Chloroform	0.431	0.562	0.485	0.487	0.455	0.465	0.463	0.465	0.483	0.477	7.608	
T	Bromochloromethane		0.102	0.101	0.099	0.096	0.112	0.099	0.100	0.109	0.102	5.230	
S	Dibromofluoromethane			0.296	0.274	0.260	0.280	0.265	0.264	0.286	0.275	4.749	
T	1,1,1-Trichloroethane		0.539	0.464	0.473	0.461	0.476	0.480	0.491	0.508	0.487	5.315	
T	Cyclohexane	0.356	0.536	0.498	0.520	0.522	0.569	0.560	0.561	0.583	0.523	13.025	
T	1,1-Dichloropropene		0.447	0.403	0.417	0.419	0.420	0.435	0.438	0.449	0.429	3.837	
T	Carbon Tetrachloride		0.417	0.374	0.399	0.407	0.462	0.446	0.468	0.487	0.433	9.070	
S	1,2-Dichloroethane-d4			0.253	0.234	0.222	0.222	0.223	0.218	0.232	0.229	5.252	
T	1,2-Dichloroethane	0.257	0.323	0.298	0.293	0.283	0.280	0.287	0.285	0.293	0.289	6.079	
T	Benzene	0.877	1.249	1.124	1.148	1.118	1.019	1.144	1.136	1.132	1.105	9.380	
T	Trichloroethene	0.254	0.403	0.367	0.361	0.354	0.337	0.357	0.357	0.362	0.350	11.403	
C	1,2-Dichloropropane	0.232	0.294	0.257	0.264	0.260	0.260	0.261	0.264	0.271	0.263	6.118	
T	Bromodichloromethane	0.225	0.319	0.292	0.294	0.293	0.311	0.307	0.313	0.323	0.297	9.935	
T	Dibromomethane	0.059	0.102	0.088	0.096	0.094	0.097	0.094	0.094	0.098	0.091	13.923	
T	2-Chloroethyl Vinyl Ether				0.051	0.059	0.079	0.071	0.074	0.079	0.069	16.410	LR=1.000
T	4-Methyl-2-Pentanone					0.035	0.039	0.037	0.039	0.040	0.038	5.574	
T	cis-1,3-Dichloropropene	0.221	0.311	0.281	0.302	0.316	0.35	0.341	0.353	0.364	0.31556	14.1206	
T	Dimethyl Disulfide				0.072	0.107	0.194	0.158	0.178	0.194	0.15036	33.4828	LR=1.000
I	Chlorobenzene-d5	ISTD											
S	Toluene-d8			1.507	1.464	1.412	1.384	1.465	1.433	1.484	1.44985	2.94091	
C	Toluene	1.15	1.654	1.599	1.646	1.632	1.394	1.656	1.63	1.603	1.55146	11.025	
T	Ethyl Methacrylate				0.147	0.171	0.203	0.193	0.2	0.21	0.18731	12.7771	
T	trans-1,3-Dichloropropene		0.256	0.261	0.272	0.288	0.339	0.323	0.338	0.351	0.3035	12.6859	
T	1,1,2-Trichloroethane	0.144	0.162	0.158	0.16	0.158	0.159	0.159	0.161	0.165	0.15837	3.72519	
T	2-Hexanone					0.065	0.08	0.075	0.08	0.081	0.07599	8.91606	
T	1,3-Dichloropropane	0.266	0.302	0.269	0.281	0.283	0.297	0.291	0.295	0.305	0.28771	4.83289	
T	Tetrachloroethene	0.22	0.382	0.357	0.353	0.345	0.317	0.349	0.347	0.348	0.33541	13.8103	
T	Dibromochloromethane		0.197	0.189	0.199	0.212	0.257	0.237	0.251	0.265	0.22598	13.2817	

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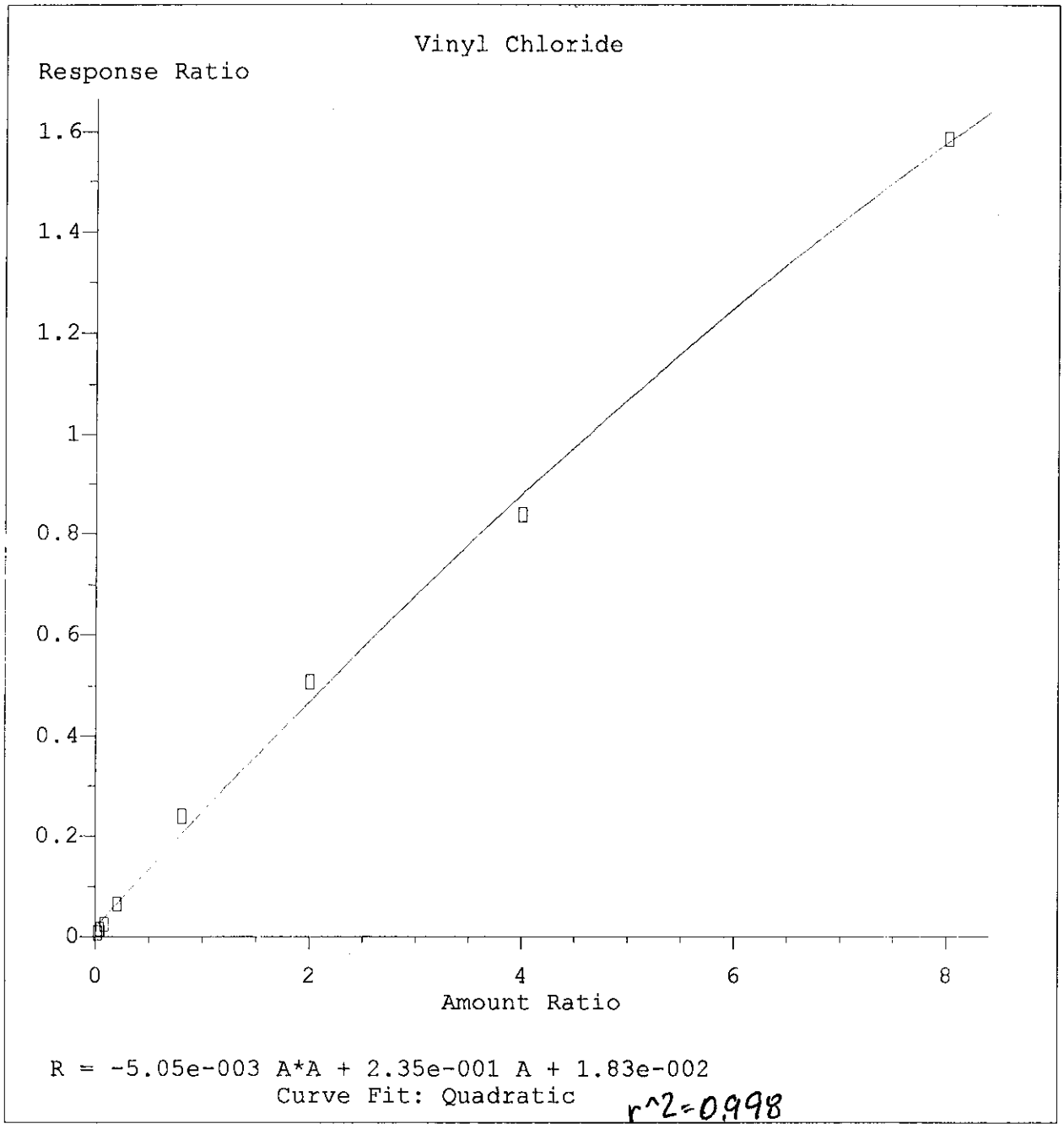
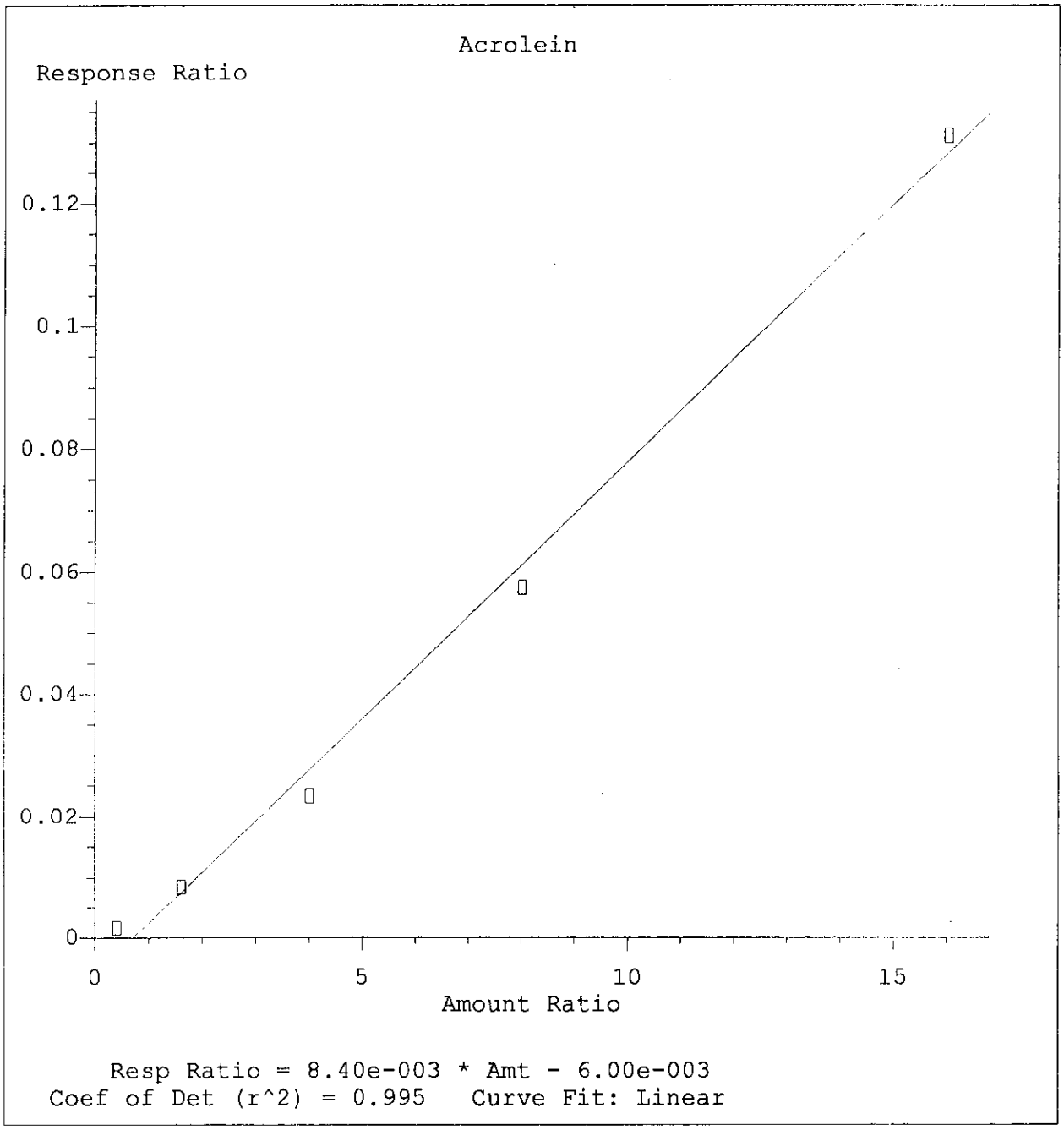
T	1,2-Dibromoethane	0.127	0.162	0.154	0.155	0.158	0.175	0.167	0.173	0.178	0.16106	9.53607	
T	1-Chlorohexane		0.467	0.463	0.498	0.523	0.54	0.563	0.559	0.568	0.52266	8.12914	
P	Chlorobenzene	1.134	1.388	1.228	1.214	1.167	0.957	1.138	1.116	1.094	1.15941	10.0375	
T	1,1,1,2-Tetrachloroethane	0.251	0.344	0.317	0.329	0.332	0.289	0.348	0.348	0.338	0.32203	10.0849	
C	Ethylbenzene	0.504	0.802	0.708	0.729	0.702	0.58	0.694	0.68	0.668	0.67408	12.8187	
T	m-,p-Xylene	0.649	0.975	0.888	0.918	0.892	0.631	0.869	0.845	0.795	0.82901	14.2289	
T	o-Xylene	0.555	0.817	0.734	0.784	0.796	0.703	0.805	0.798	0.788	0.7532	10.9983	
T	Styrene	0.851	1.286	1.207	1.296	1.295	1.077	1.307	1.29	1.249	1.20658	12.5624	
P	Bromoform			0.073	0.084	0.094	0.13	0.111	0.123	0.132	0.10665	21.7659	LR=1.000
T	Isopropylbenzene		2.192	2.054	2.224	2.238	1.693	2.238	2.178	2.083	2.11228	8.6732	
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane		0.323	0.283	0.294	0.292	0.319	0.301	0.304	0.319	0.30437	4.81133	
S	p-Bromofluorobenzene			1.027	0.959	0.934	0.945	0.98	0.962	1	0.97244	3.33078	
T	1,2,3-Trichloropropane		0.09	0.092	0.1	0.099	0.105	0.099	0.102	0.105	0.09898	5.61839	
T	trans-1,4-Dichloro-2-Butene				0.058	0.07	0.111	0.089	0.096	0.106	0.08822	23.5686	LR=0.999
T	n-Propylbenzene		4.483	4.231	4.54	4.583	3.346	4.635	4.464	4.221	4.31284	9.71757	
T	Bromobenzene	0.708	0.926	0.834	0.827	0.836	0.739	0.837	0.82	0.813	0.8156	7.62201	
T	1,3,5-Trimethylbenzene	2.241	3.487	3.188	3.445	3.432	2.734	3.482	3.385	3.278	3.18578	13.371	
T	2-Chlorotoluene	2.098	3.074	2.856	2.912	2.803	2.298	2.805	2.699	2.636	2.68666	11.4448	
T	4-Chlorotoluene	2.202	3.088	2.722	2.871	2.874	2.173	2.838	2.778	2.639	2.6873	11.4952	
T	a-Methylstyrene	1.061	1.427	1.394	1.532	1.603	1.533	1.707	1.68	1.694	1.51451	13.4672	
T	tert-Butylbenzene		3.36	3.082	3.223	3.218	2.562	3.211	3.145	3.04	3.10517	7.73584	
T	1,2,4-Trimethylbenzene	3.025	4.105	3.569	3.693	3.601	2.693	3.565	3.436	3.28	3.44075	11.8103	
T	sec-Butylbenzene		4.391	4.06	4.327	4.342	3.274	4.384	4.246	4.041	4.13298	9.03021	
T	p-Isopropyltoluene		3.907	3.662	3.908	3.941	2.972	3.993	3.886	3.698	3.7457	8.90336	
T	1,3-Dichlorobenzene	1.574	2.029	1.769	1.846	1.791	1.503	1.79	1.745	1.708	1.75048	8.67296	
T	1,4-Dichlorobenzene	1.696	2.237	1.898	1.862	1.812	1.453	1.755	1.709	1.663	1.78719	11.9199	
T	n-Butylbenzene		3.466	3.147	3.282	3.269	2.574	3.276	3.189	3.076	3.15973	8.3335	
T	1,2-Dichlorobenzene	1.3	1.682	1.489	1.454	1.415	1.236	1.417	1.393	1.371	1.41749	8.85562	
T	1,2-Dibromo-3-Chloropropane				0.04	0.046	0.062	0.054	0.058	0.062	0.0534	16.9395	LR=1.000
T	1,2,4-Trichlorobenzene	0.711	0.934	0.82	0.819	0.835	0.762	0.865	0.861	0.849	0.82827	7.67349	
T	Hexachlorobutadiene	0.322	0.541	0.459	0.451	0.439	0.406	0.446	0.443	0.442	0.43876	12.8913	
T	Naphthalene	0.761	0.914	0.825	0.883	0.953	0.998	1.059	1.058	1.077	0.9475	11.7216	
T	1,2,3-Trichlorobenzene	0.548	0.73	0.627	0.609	0.62	0.573	0.646	0.634	0.628	0.62394	8.12253	

Thu May 24 14:51:59 2001



Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001



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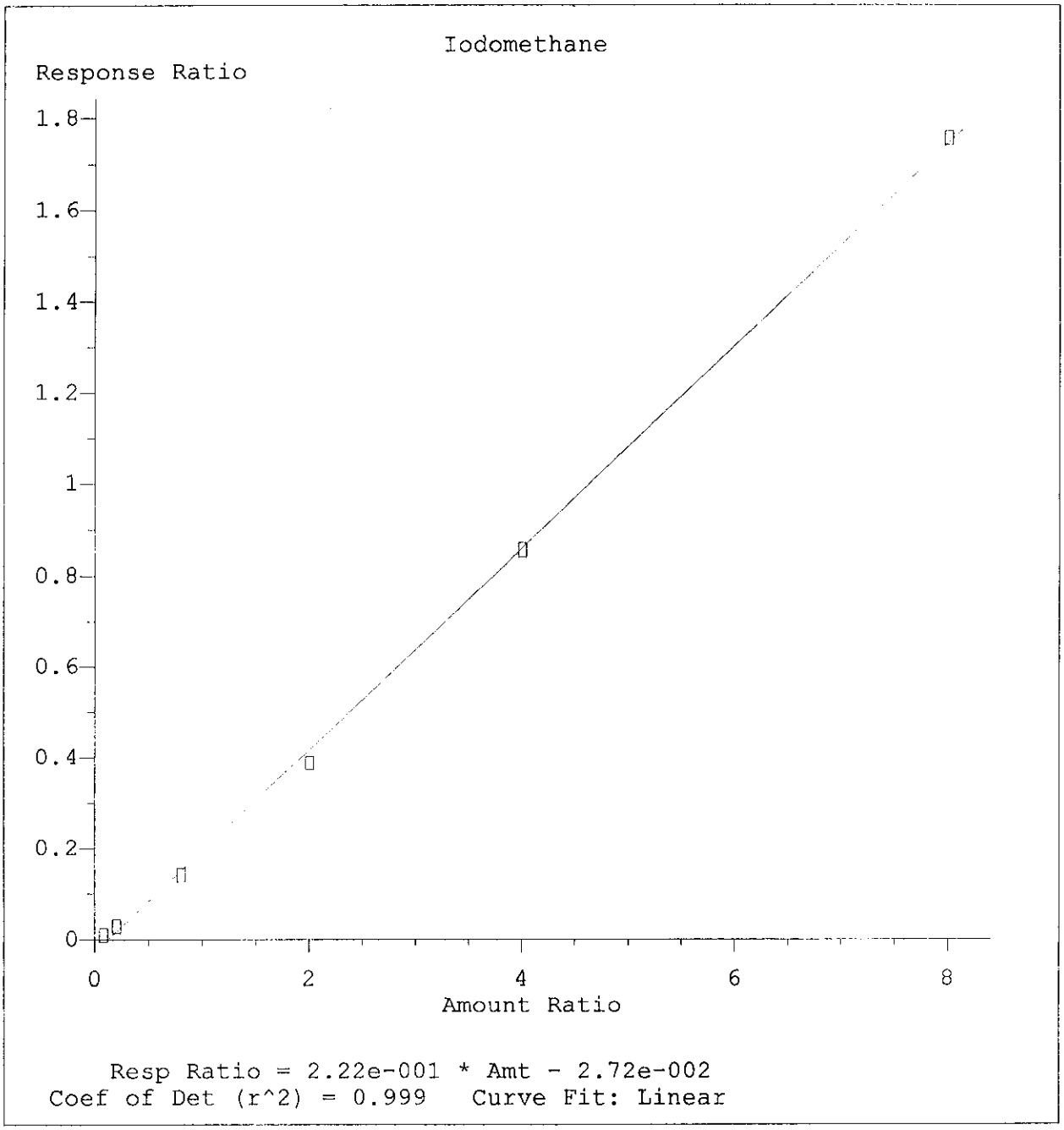

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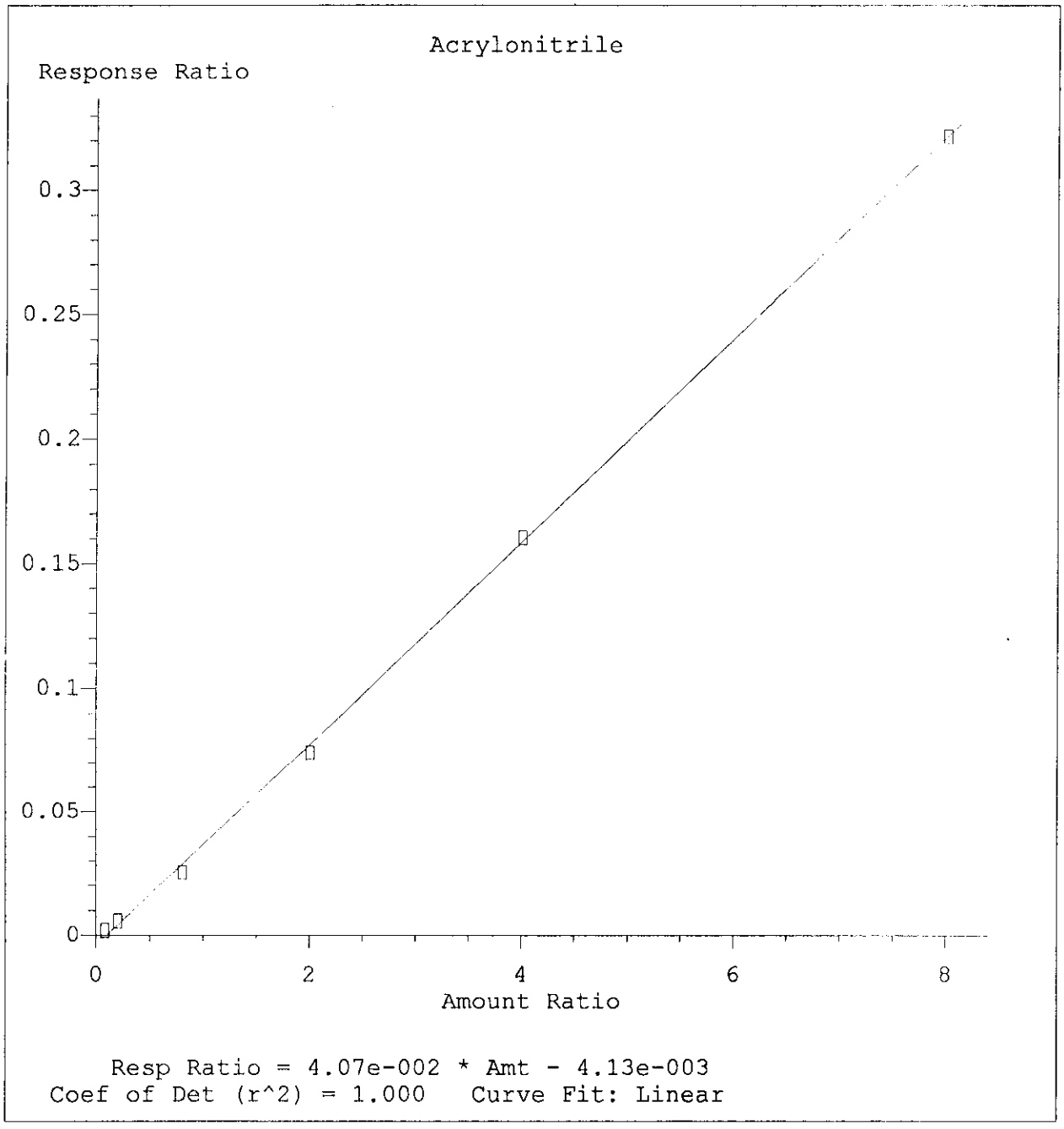

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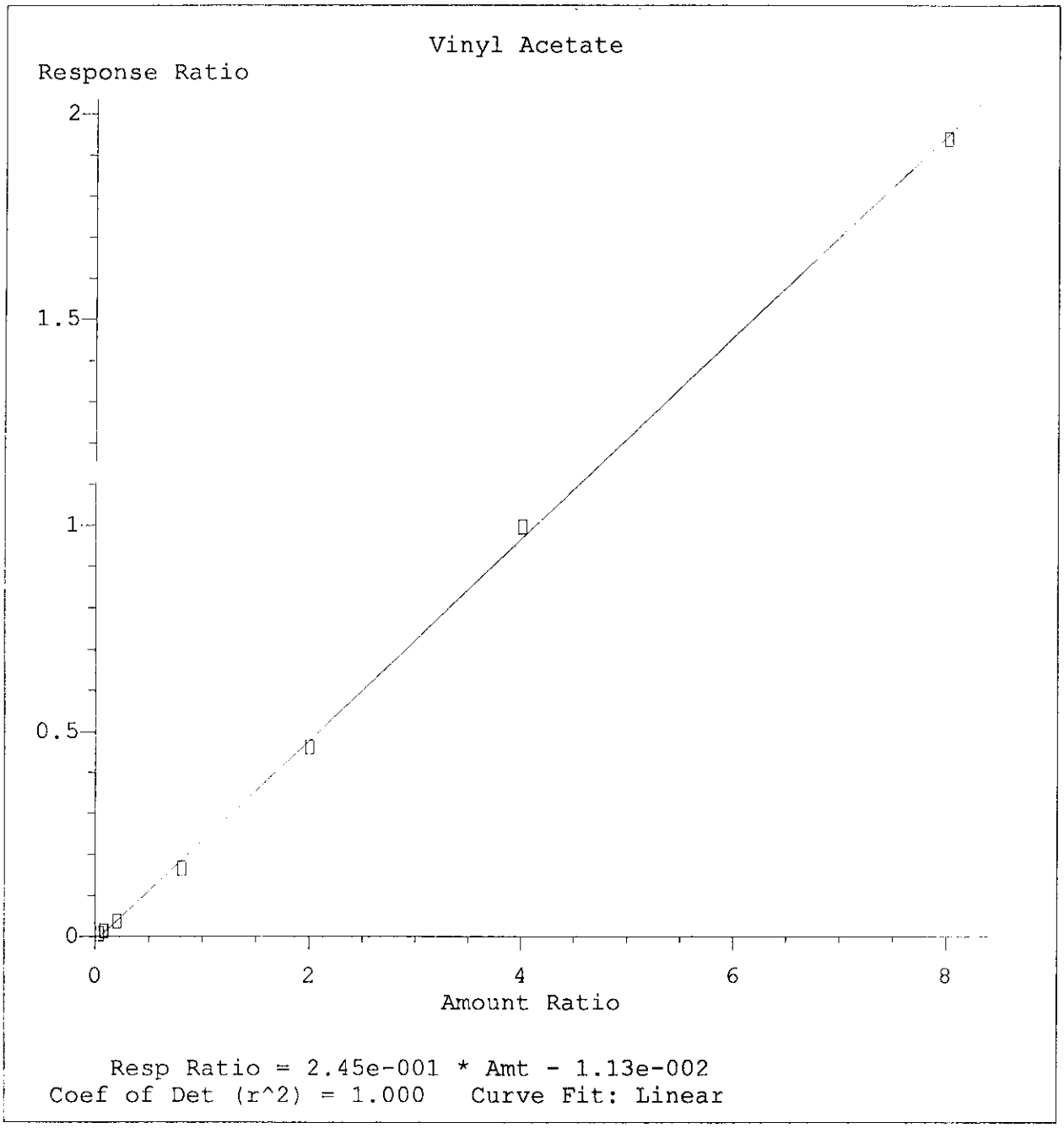
Calibration Table Last Updated: Thu May 24 13:45:00 2001



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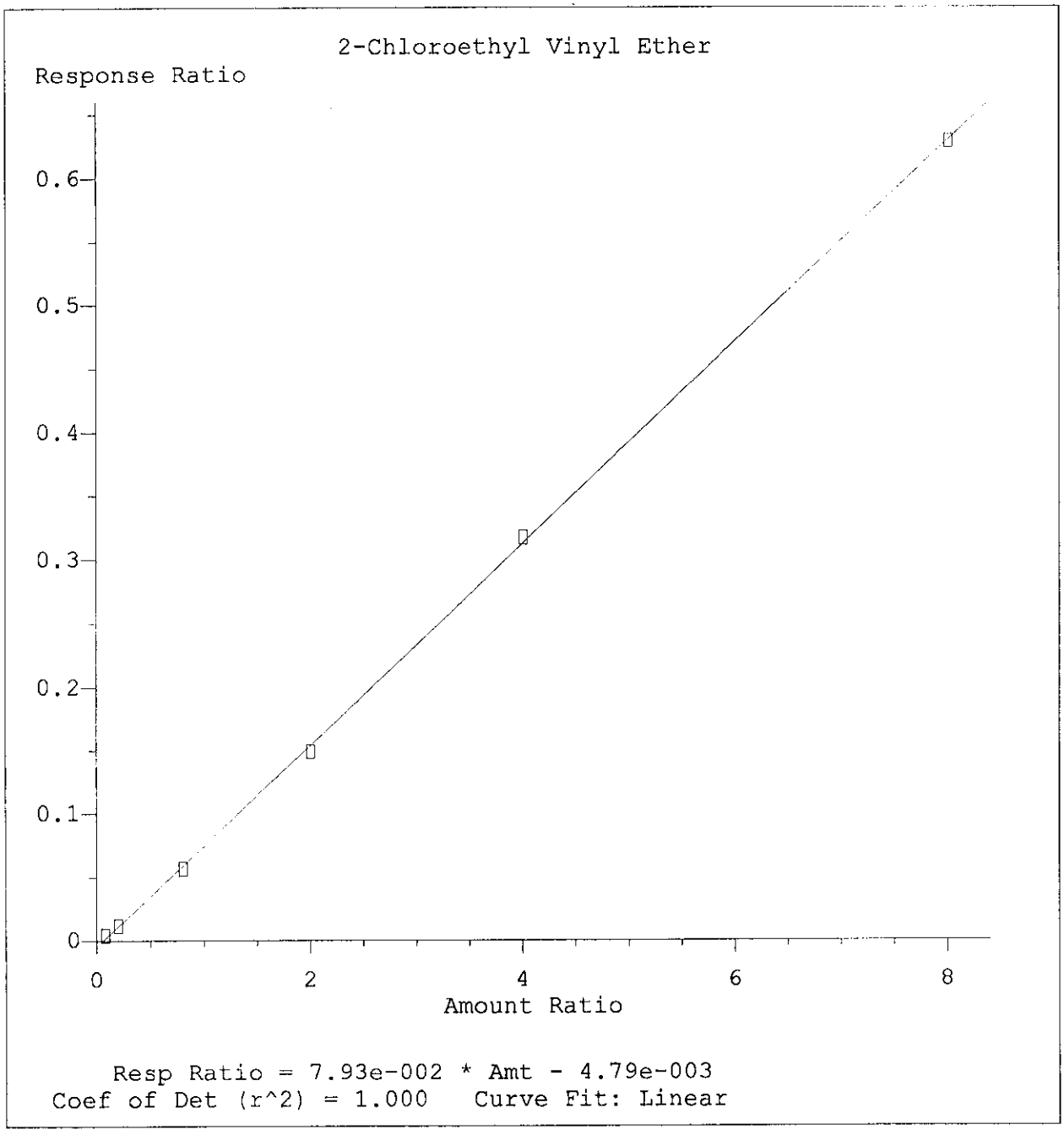
Calibration Table Last Updated: Thu May 24 13:45:00 2001



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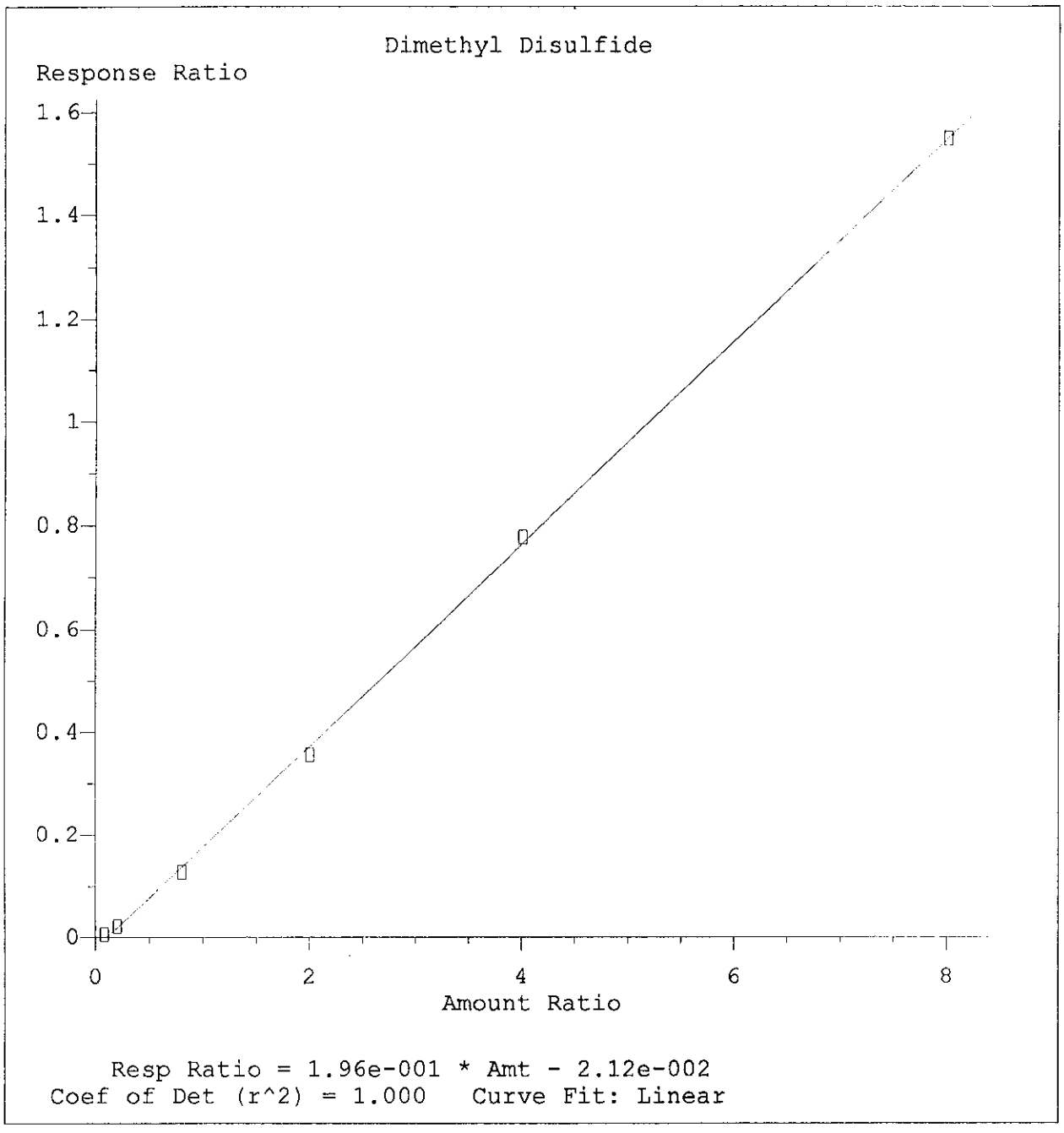
Calibration Table Last Updated: Thu May 24 13:45:00 2001



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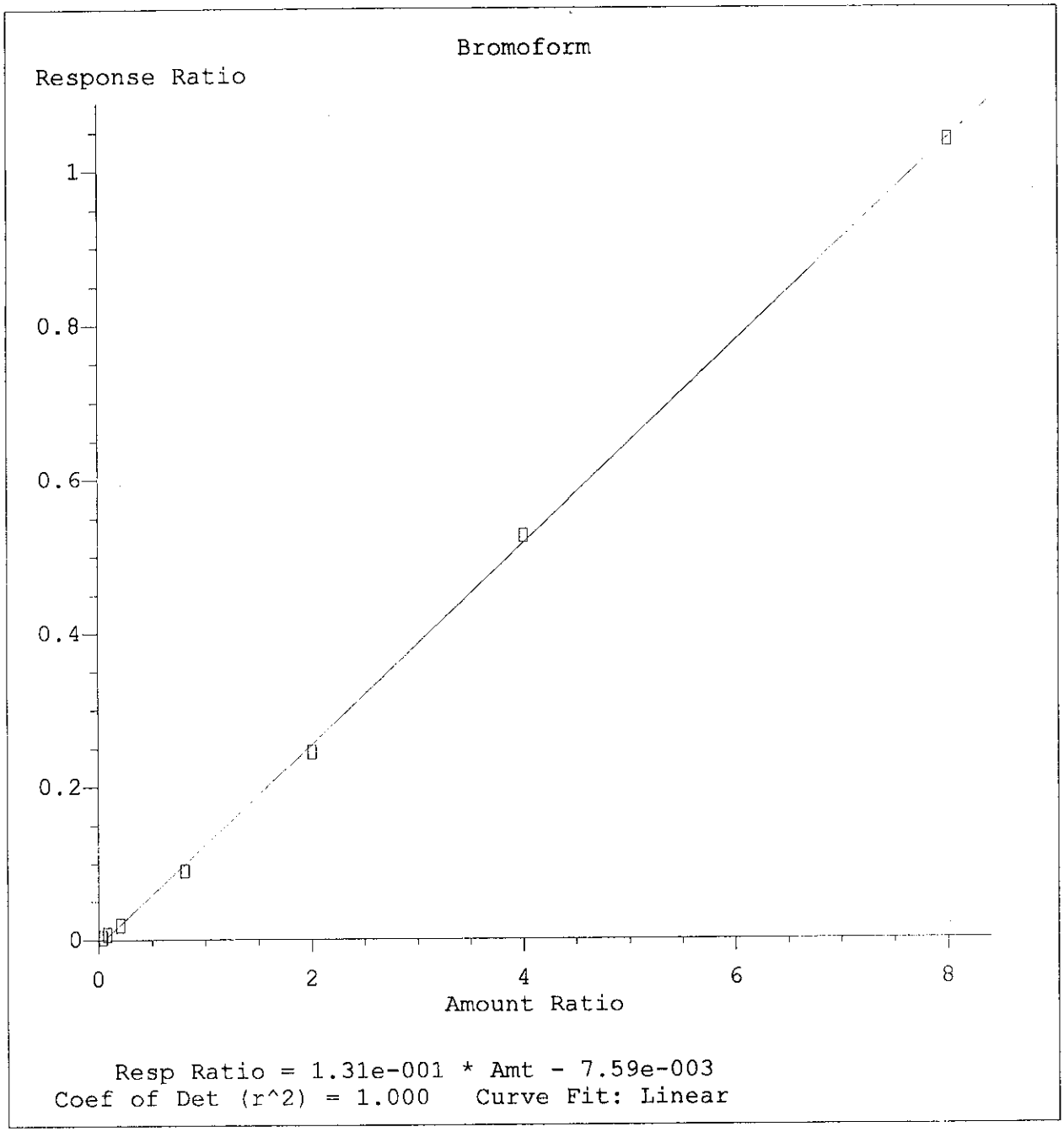

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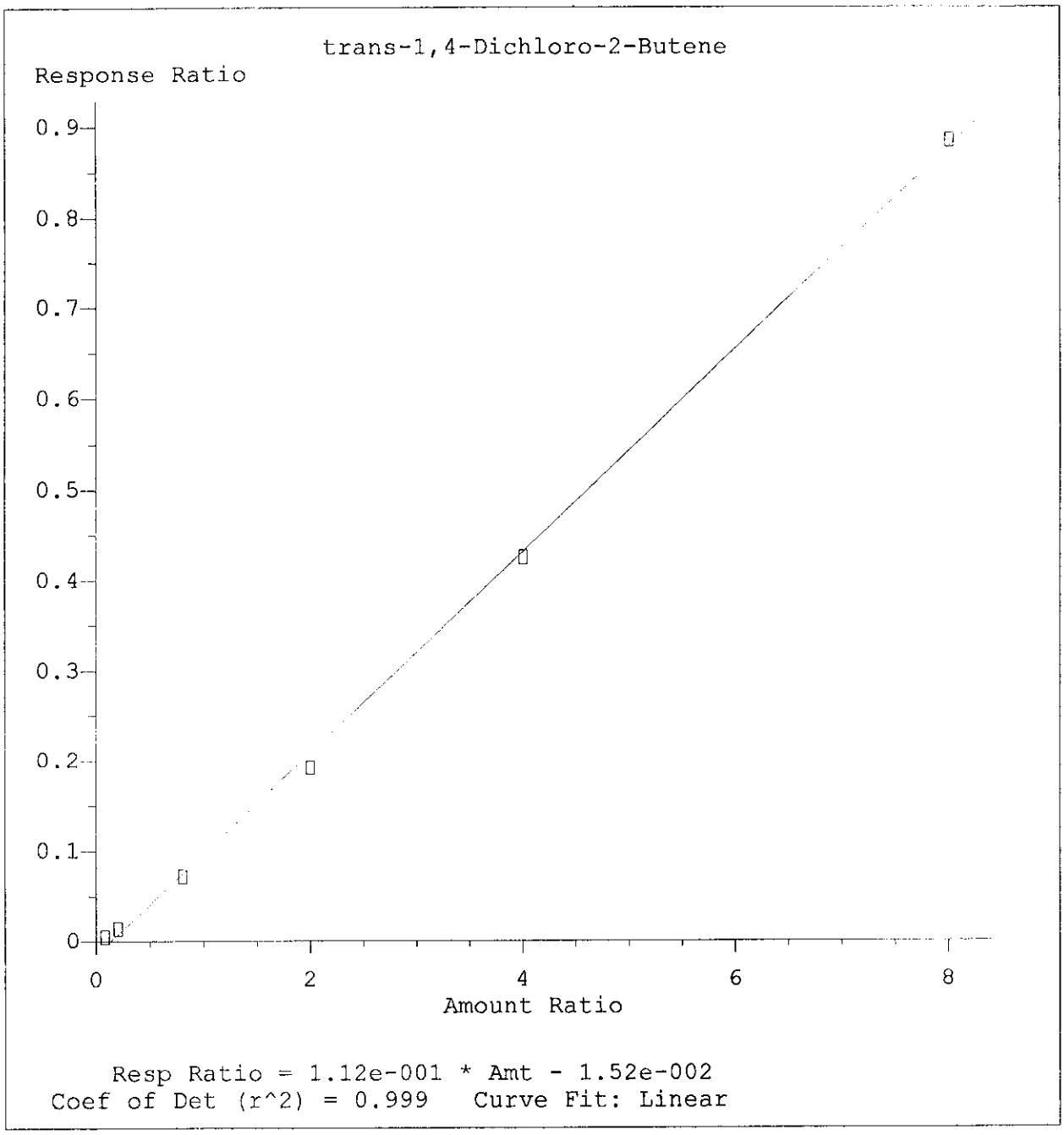

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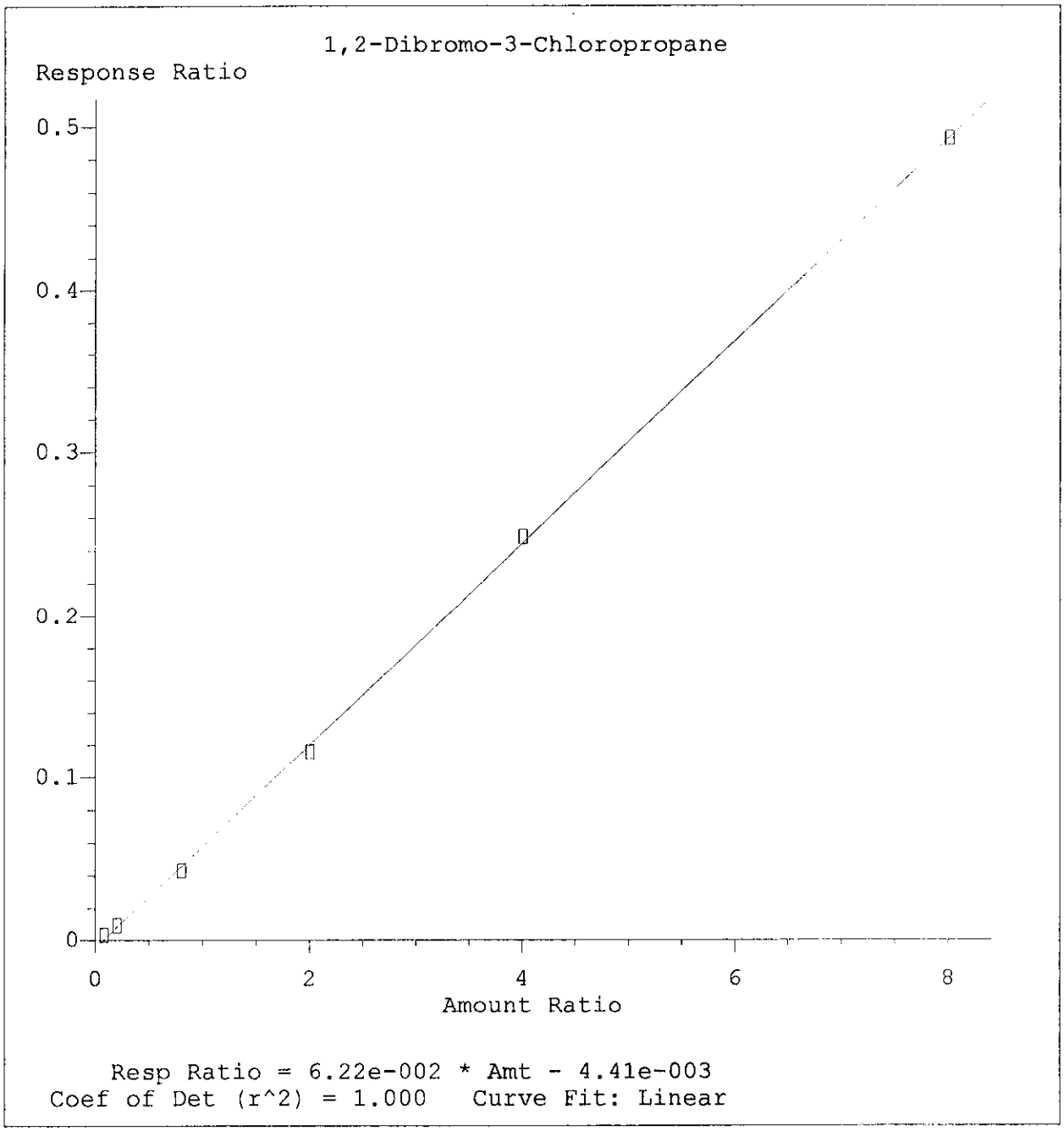
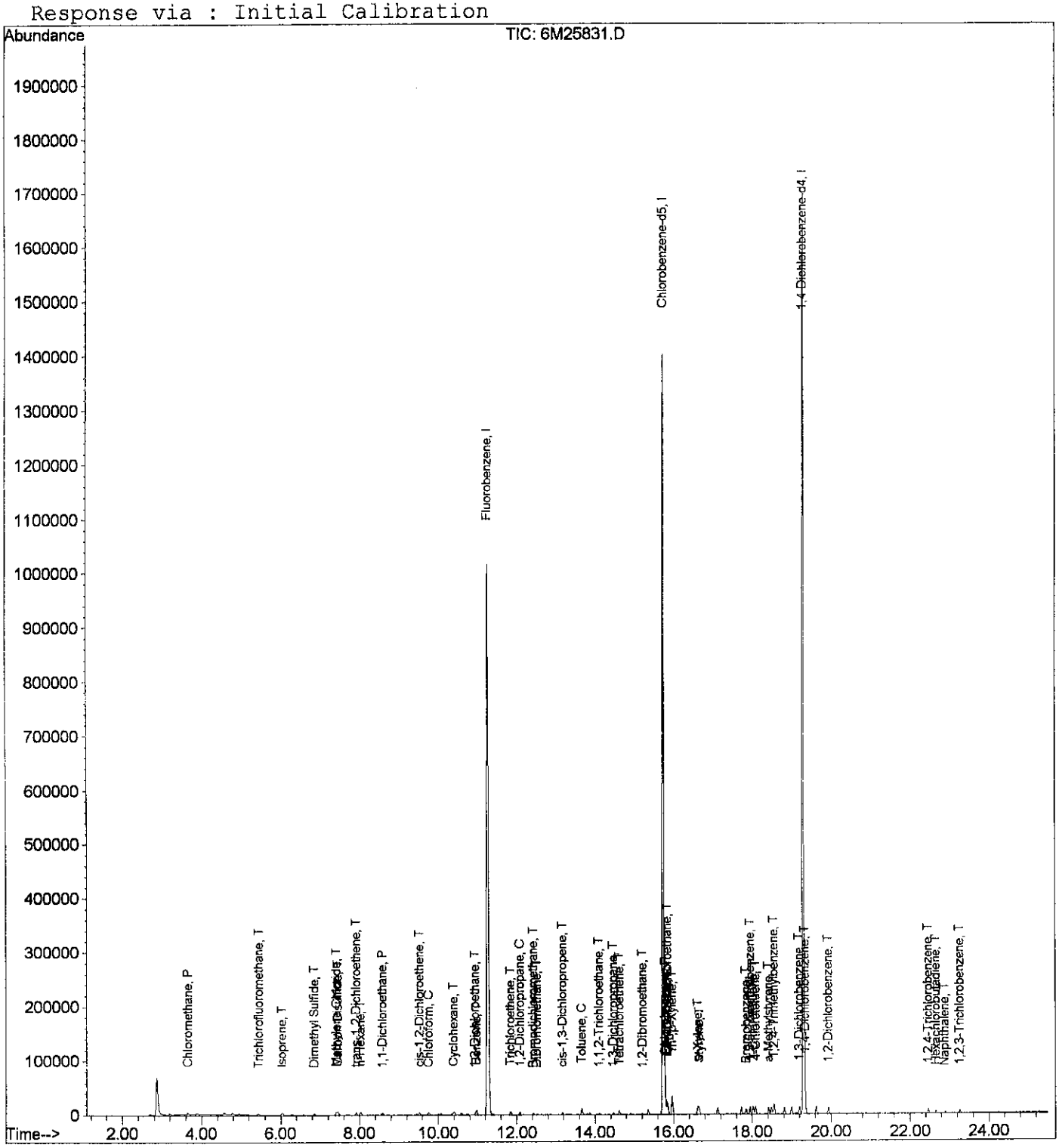
Calibration Table Last Updated: Thu May 24 13:45:00 2001



Method Name: C:\HPCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 24 13:45:00 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25831.D Vial: 8
Acq On : 21 May 2001 16:14 Operator: CMS
Sample : WG97810-02 0.25 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25831.D Vial: 8
Acq On : 21 May 2001 16:14 Operator: CMS
Sample : WG97810-02 0.25 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.27	96	1387928	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1176309	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	632918	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
45) Toluene-d8	0.00	98	0	0.00	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
66) p-Bromofluorobenzene	17.52	95	944	0.04	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.16%#		
Target Compounds						Qvalue
3) Chloromethane	3.65	50	5386	0.27	ug/L	94
7) Trichlorofluoromethane	5.44	101	4894	0.17	ug/L #	74
8) Isoprene	6.03	67	4070	0.17	ug/L	90
13) Dimethyl Sulfide	6.86	62	2402	0.20	ug/L #	1
15) Methylene Chloride	7.41	84	3694	0.27	ug/L	87
16) Carbon Disulfide	7.45	76	13401	0.28	ug/L #	90
19) trans-1,2-Dichloroethene	7.91	96	2597	0.17	ug/L	86
20) n-Hexane	8.02	57	4458	0.17	ug/L #	71
22) 1,1-Dichloroethane	8.59	63	5681	0.20	ug/L #	74
25) cis-1,2-Dichloroethene	9.52	96	2729	0.19	ug/L	96
26) Chloroform	9.75	83	5981	0.22	ug/L	94
30) Cyclohexane	10.40	56	4946	0.17	ug/L #	60
34) 1,2-Dichloroethane	10.93	62	3563	0.23	ug/L #	58
35) Benzene	10.98	78	12166	0.22	ug/L	96
36) Trichloroethene	11.85	130	3530	0.18	ug/L	88
37) 1,2-Dichloropropane	12.09	63	3224	0.22	ug/L #	82
38) Bromodichloromethane	12.43	83	3119	0.19	ug/L	94
39) Dibromomethane	12.52	93	820	0.16	ug/L #	65
42) cis-1,3-Dichloropropene	13.17	75	3073	0.17	ug/L #	52
46) Toluene	13.66	91	13523	0.18	ug/L	91
49) 1,1,2-Trichloroethane	14.11	97	1691	0.23	ug/L #	82
51) 1,3-Dichloropropane	14.48	76	3131	0.23	ug/L	97
52) Tetrachloroethene	14.62	164	2589	0.16	ug/L	95
54) 1,2-Dibromoethane	15.20	107	1496	0.20	ug/L	99
56) Chlorobenzene	15.81	112	13334	0.24	ug/L	93
57) 1,1,1,2-Tetrachloroethane	15.84	131	2951	0.19	ug/L #	44

(#) = qualifier out of range (m) = manual integration
6M25831.D 8260WTR.M Thu May 24 14:56:44 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25831.D Vial: 8
Acq On : 21 May 2001 16:14 Operator: CMS
Sample : WG97810-02 0.25 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:19 19101 Quant Results File: 8260WTR.RES

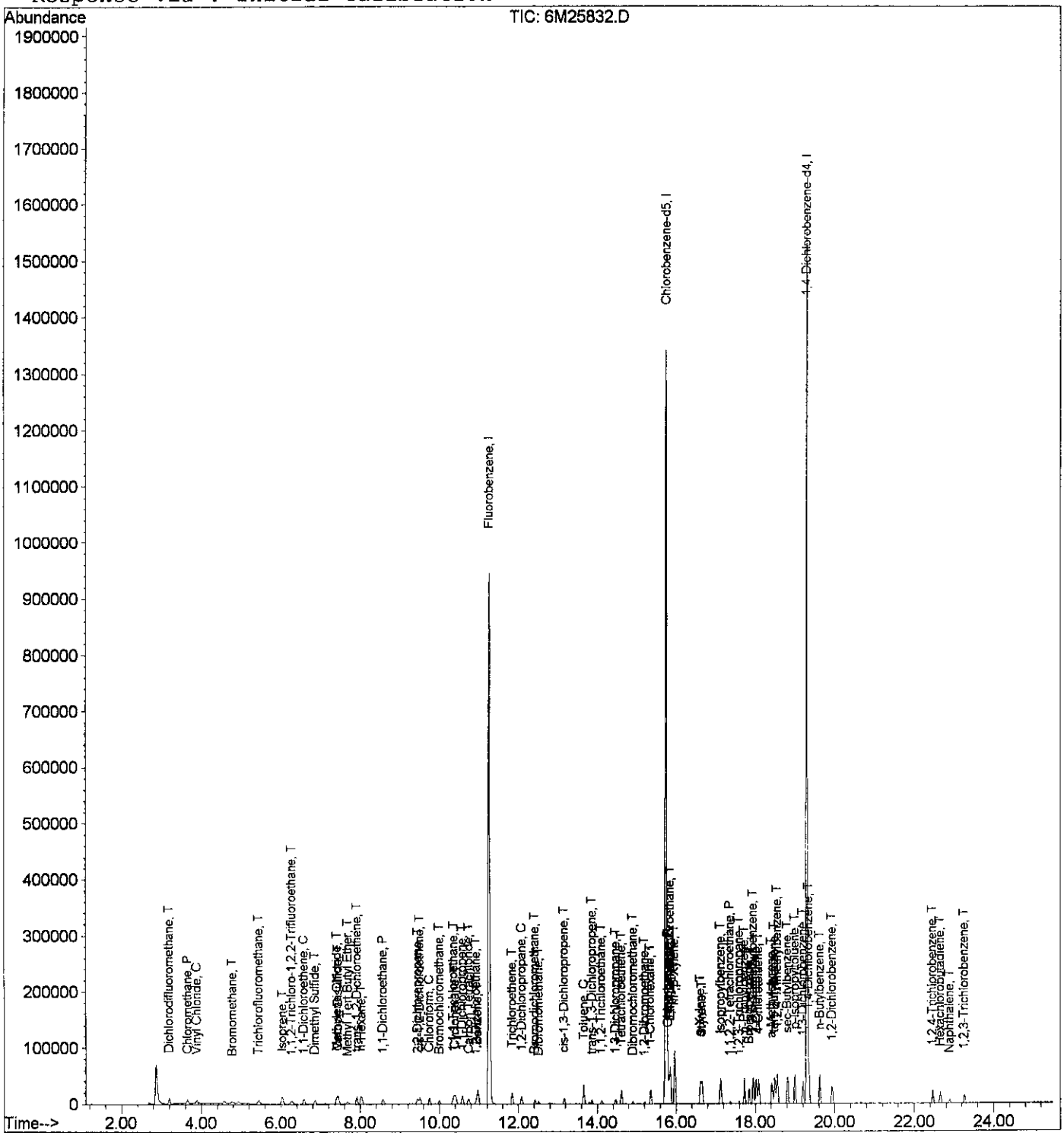
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
58) Ethylbenzene	15.85	106	5927	0.19 ug/L	86
59) m-,p-Xylene	15.97	106	15272	0.39 ug/L	88
60) o-Xylene	16.63	106	6529	0.19 ug/L	100
61) Styrene	16.67	104	10015	0.18 ug/L	98
70) Bromobenzene	17.85	156	4483	0.22 ug/L	96
71) 1,3,5-Trimethylbenzene	17.95	105	14181	0.19 ug/L	95
72) 2-Chlorotoluene	18.03	91	13281	0.20 ug/L	99
73) 4-Chlorotoluene	18.09	91	13939	0.21 ug/L	98
74) a-Methylstyrene	18.42	118	6716	0.18 ug/L	96
76) 1,2,4-Trimethylbenzene	18.56	105	19144	0.24 ug/L	100
79) 1,3-Dichlorobenzene	19.21	146	9963	0.23 ug/L	97
80) 1,4-Dichlorobenzene	19.36	146	10734	0.24 ug/L	98
82) 1,2-Dichlorobenzene	19.94	146	8230	0.23 ug/L	98
84) 1,2,4-Trichlorobenzene	22.47	180	4500	0.22 ug/L	96
85) Hexachlorobutadiene	22.66	225	2040	0.18 ug/L #	99
86) Naphthalene	22.89	128	4818	0.22 ug/L #	75
87) 1,2,3-Trichlorobenzene	23.26	180	3470	0.22 ug/L #	96

(#) = qualifier out of range (m) = manual integration
6M25831.D 8260WTR.M Thu May 24 14:56:46 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1290540	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1123142	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	618637	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	0.00	111	0	0.00	ug/L		
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%		#	
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/L		
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%		#	
45) Toluene-d8	0.00	98	0	0.00	ug/L		
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%		#	
66) p-Bromofluorobenzene	17.37	95	521	0.02	ug/L		-0.15
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.08%		#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.20	85	13904	0.61	ug/L		98
3) Chloromethane	3.65	50	11832	0.65	ug/L		97
4) Vinyl Chloride	3.88	62	10002	1166.51	ug/L		92
5) Bromomethane	4.78	94	5108	0.64	ug/L		88
7) Trichlorofluoromethane	5.44	101	15036	0.58	ug/L	#	92
8) Isoprene	6.04	67	11174	0.51	ug/L		94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	8188	0.55	ug/L	#	45
12) 1,1-Dichloroethene	6.57	96	6356	0.54	ug/L		89
13) Dimethyl Sulfide	6.86	62	5871	0.51	ug/L	#	1
15) Methylene Chloride	7.40	84	8428	0.65	ug/L		83
16) Carbon Disulfide	7.45	76	28685	0.64	ug/L		97
18) Methyl Tert Butyl Ether	7.68	73	8589	0.50	ug/L	#	75
19) trans-1,2-Dichloroethene	7.91	96	8046	0.58	ug/L		95
20) n-Hexane	8.03	57	12632m	0.52	ug/L		
22) 1,1-Dichloroethane	8.58	63	14947	0.57	ug/L		96
24) 2,2-Dichloropropane	9.45	77	11226	0.49	ug/L		94
25) cis-1,2-Dichloroethene	9.51	96	7271	0.54	ug/L		95
26) Chloroform	9.75	83	14508	0.59	ug/L		97
27) Bromochloromethane	9.99	128	2642	0.50	ug/L		87
29) 1,1,1-Trichloroethane	10.35	97	13907	0.55	ug/L		92
30) Cyclohexane	10.40	56	13831	0.51	ug/L		93
31) 1,1-Dichloropropene	10.58	75	11540	0.52	ug/L		93
32) Carbon Tetrachloride	10.74	117	10768	0.48	ug/L		97
34) 1,2-Dichloroethane	10.93	62	8348	0.59	ug/L	#	79
35) Benzene	10.97	78	32246	0.61	ug/L		94
36) Trichloroethene	11.84	130	10389	0.57	ug/L		97

(#) = qualifier out of range (m) = manual integration
6M25832.D 8260WTR.M Thu May 24 14:57:14 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:33 19101 Quant Results File: 8260WTR.RES

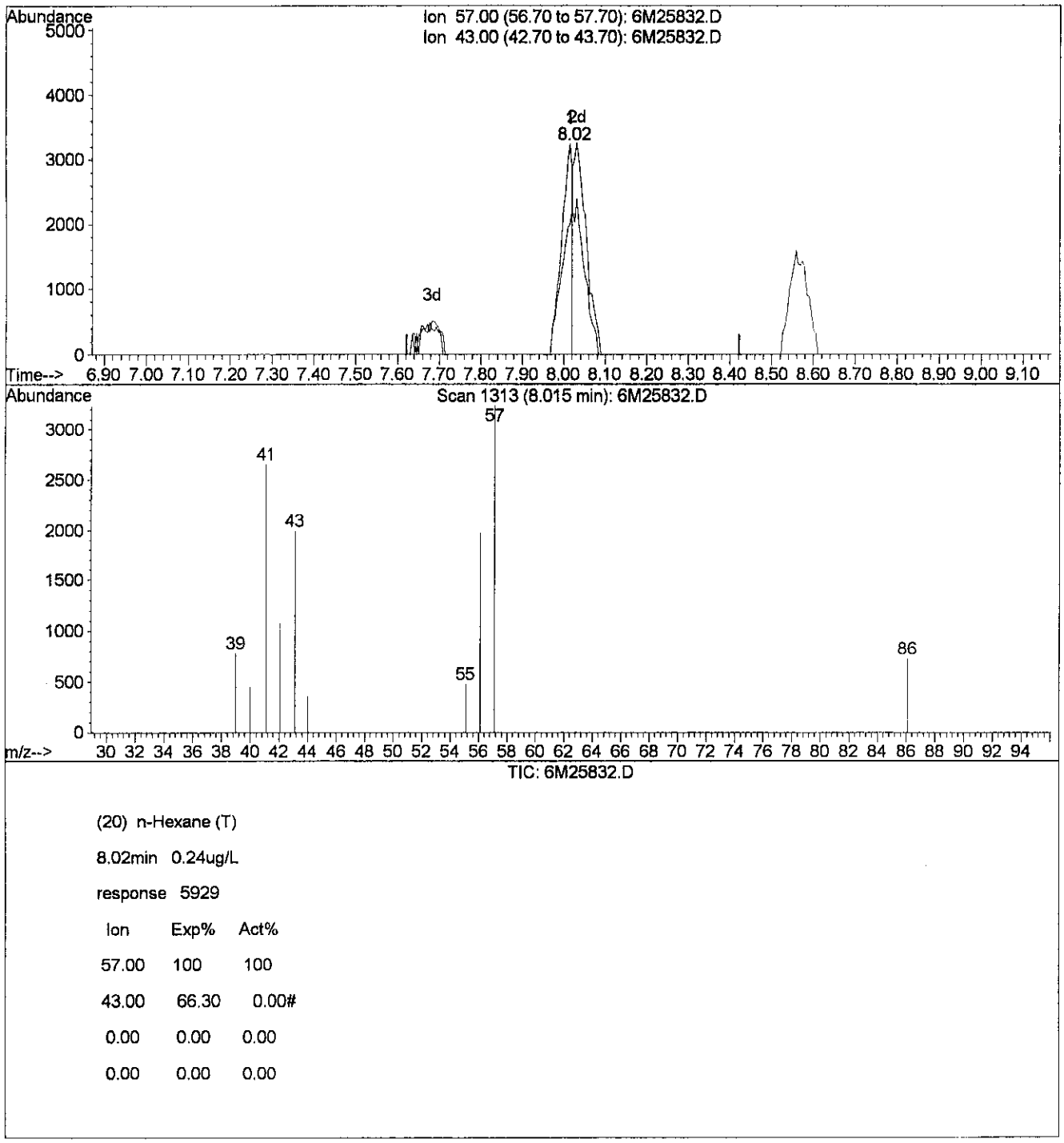
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	1,2-Dichloropropane	12.09	63	7600	0.56	ug/L		95
38)	Bromodichloromethane	12.42	83	8239	0.53	ug/L		96
39)	Dibromomethane	12.51	93	2645	0.56	ug/L		92
42)	cis-1,3-Dichloropropene	13.17	75	8032	0.49	ug/L		100
46)	Toluene	13.66	91	37155	0.53	ug/L		97
48)	trans-1,3-Dichloropropene	13.87	75	5759	0.42	ug/L		95
49)	1,1,2-Trichloroethane	14.11	97	3636	0.51	ug/L		99
51)	1,3-Dichloropropane	14.47	76	6786	0.52	ug/L		85
52)	Tetrachloroethene	14.62	164	8585	0.57	ug/L		97
53)	Dibromochloromethane	14.91	129	4418	0.44	ug/L		94
54)	1,2-Dibromoethane	15.21	107	3642	0.50	ug/L		98
55)	1-Chlorohexane	15.36	91	10480	0.45	ug/L	#	82
56)	Chlorobenzene	15.80	112	31178	0.59	ug/L		85
57)	1,1,1,2-Tetrachloroethane	15.85	131	7737	0.53	ug/L		93
58)	Ethylbenzene	15.86	106	18026	0.59	ug/L		96
59)	m-,p-Xylene	15.97	106	43803	1.17	ug/L		90
60)	o-Xylene	16.61	106	18355	0.56	ug/L		96
61)	Styrene	16.66	104	28886	0.53	ug/L		95
63)	Isopropylbenzene	17.13	105	49240	0.52	ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.36	83	4001	0.53	ug/L		96
67)	1,2,3-Trichloropropane	17.59	110	1117	0.46	ug/L	#	22
69)	n-Propylbenzene	17.72	91	55470	0.52	ug/L		96
70)	Bromobenzene	17.84	156	11453	0.57	ug/L		94
71)	1,3,5-Trimethylbenzene	17.95	105	43145	0.59	ug/L		97
72)	2-Chlorotoluene	18.03	91	38031	0.57	ug/L		97
73)	4-Chlorotoluene	18.09	91	38212	0.58	ug/L		100
74)	a-Methylstyrene	18.42	118	17658	0.47	ug/L		97
75)	tert-Butylbenzene	18.49	119	41578	0.54	ug/L		98
76)	1,2,4-Trimethylbenzene	18.56	105	50792	0.65	ug/L		97
77)	sec-Butylbenzene	18.82	105	54327	0.53	ug/L		97
78)	p-Isopropyltoluene	19.01	119	48337	0.52	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	25099	0.58	ug/L		100
80)	1,4-Dichlorobenzene	19.36	146	27675	0.63	ug/L		98
81)	n-Butylbenzene	19.63	91	42879	0.55	ug/L		100
82)	1,2-Dichlorobenzene	19.94	146	20813	0.59	ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	11552	0.56	ug/L		97
85)	Hexachlorobutadiene	22.66	225	6688	0.62	ug/L	#	31
86)	Naphthalene	22.89	128	11310	0.52	ug/L	#	93
87)	1,2,3-Trichlorobenzene	23.26	180	9037	0.59	ug/L		91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:28:15 2001
Response via : Multiple Level Calibration



TIC: 6M25832.D

(20) n-Hexane (T)

8.02min 0.24ug/L

response 5929

Ion	Exp%	Act%
57.00	100	100
43.00	66.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

6M25832.D 8260WTR.M Thu May 24 14:33:46 2001

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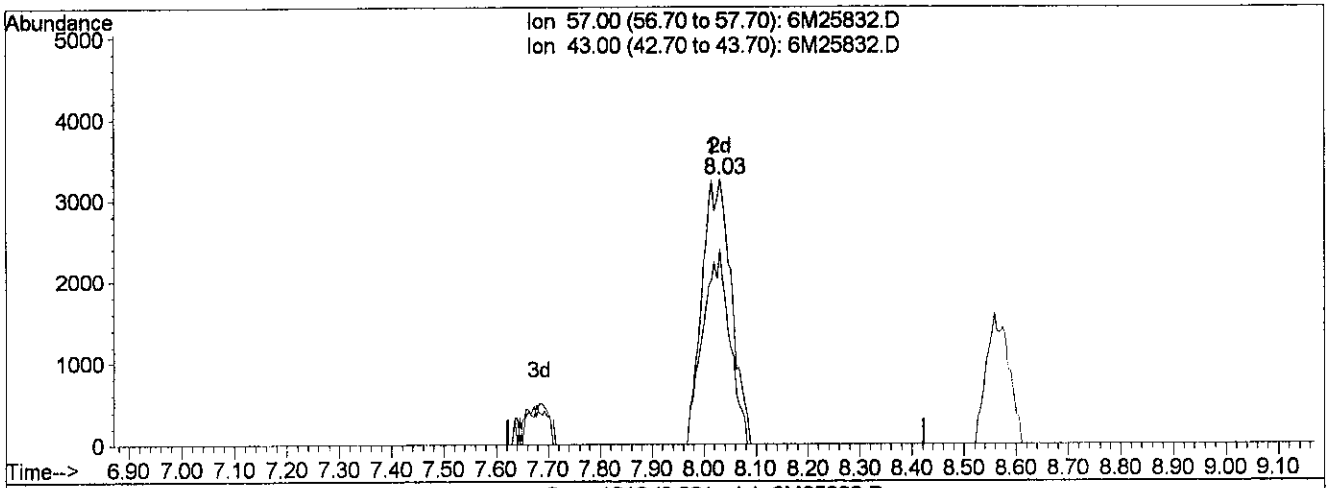
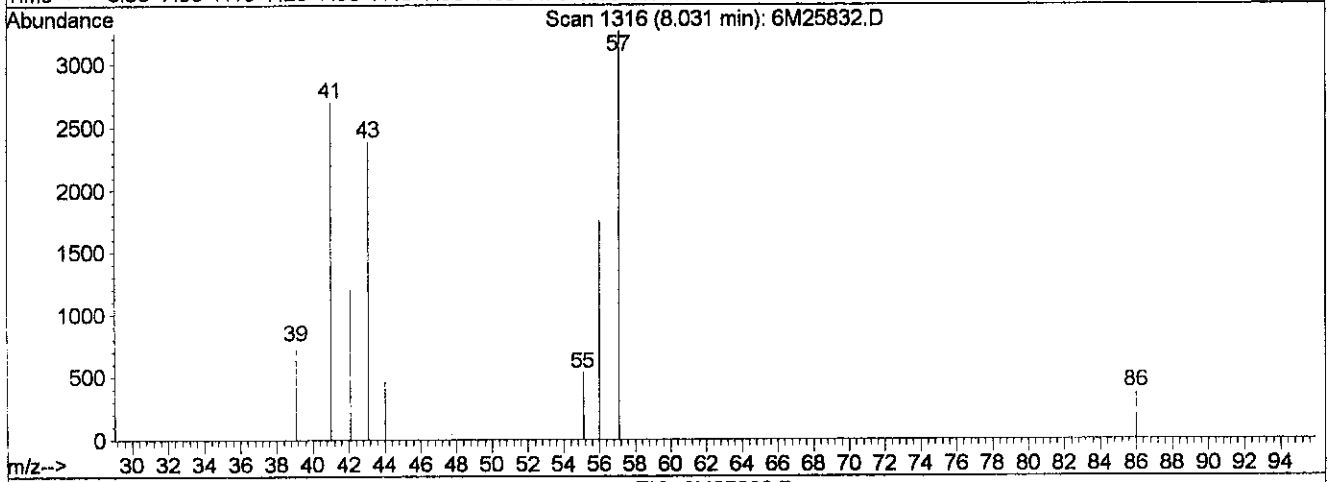
Data File : C:\HPCHEM\1\DATA\052101\6M25832.D Vial: 9
Acq On : 21 May 2001 16:46 Operator: CMS
Sample : WG97810-03 0.5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:28:15 2001
Response via : Multiple Level Calibration





TIC: 6M25832.D

(20) n-Hexane (T)

8.03min 0.52ug/L m

response 12632

Ion	Exp%	Act%
57.00	100	100
43.00	66.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

5-24-01 cms

cms 5/24/01

6M25832.D 8260WTR.M Thu May 24 14:33:56 2001

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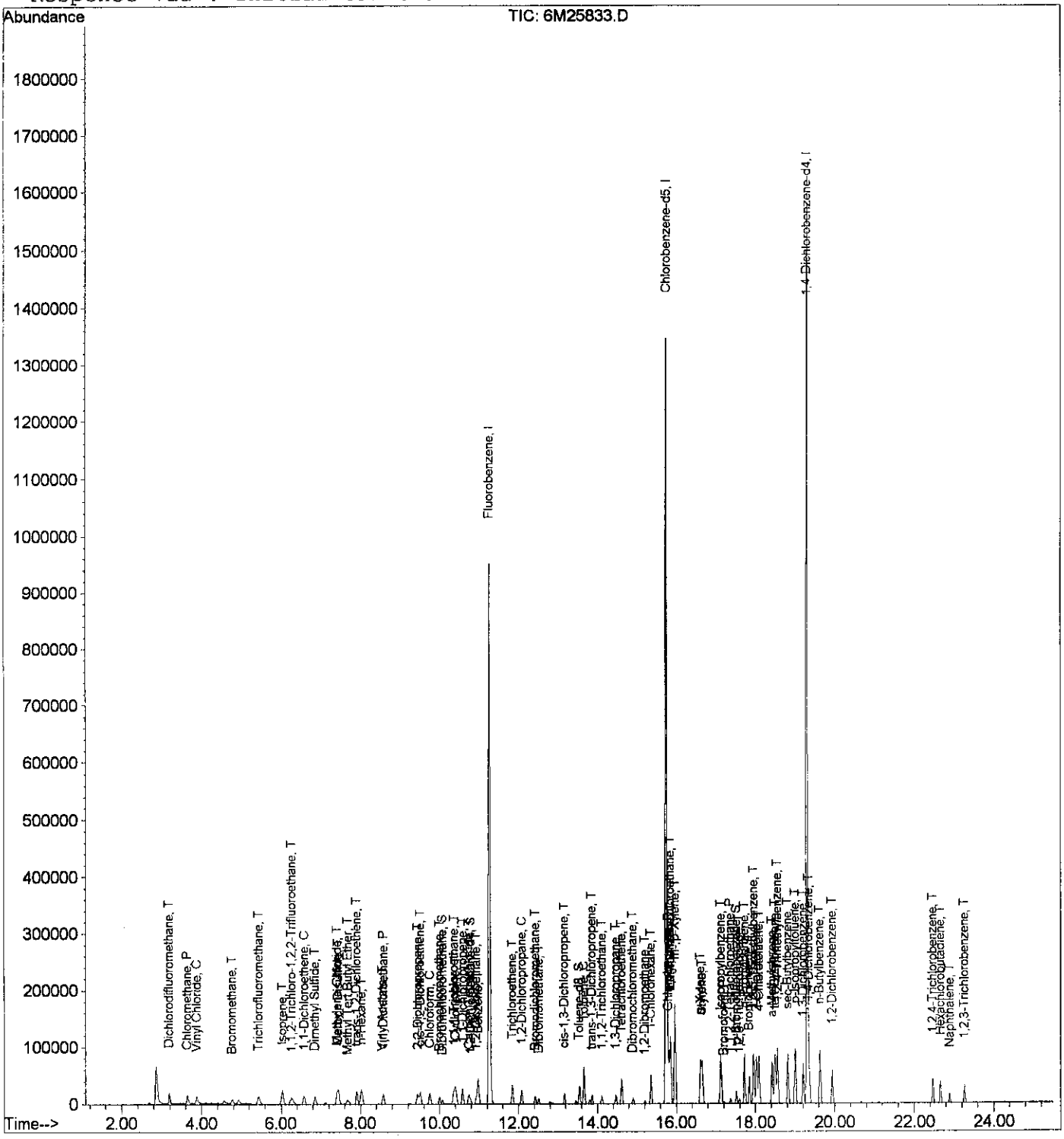
Data File : C:\HPCHEM\1\DATA\052101\6M25833.D Vial: 10
Acq On : 21 May 2001 17:19 Operator: CMS
Sample : WG97810-04 1 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25833.D Vial: 10
Acq On : 21 May 2001 17:19 Operator: CMS
Sample : WG97810-04 1 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1296351	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1123844	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	621518	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	7666	0.54	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	2.16%#			
33) 1,2-Dichloroethane-d4	10.79	65	6560	0.55	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.20%#			
45) Toluene-d8	13.55	98	33869	0.52	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.08%#			
66) p-Bromofluorobenzene	17.52	95	12769	0.53	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.12%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	26542	1.15	ug/L		98
3) Chloromethane	3.64	50	22945	1.25	ug/L		98
4) Vinyl Chloride	3.88	62	19459	1165.74	ug/L		91
5) Bromomethane	4.76	94	8820	1.11	ug/L		91
7) Trichlorofluoromethane	5.44	101	29083	1.11	ug/L	#	97
8) Isoprene	6.03	67	21596	0.98	ug/L		98
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	15877	1.07	ug/L	#	80
12) 1,1-Dichloroethene	6.57	96	11708	0.98	ug/L		91
13) Dimethyl Sulfide	6.85	62	11230	0.98	ug/L	#	1
15) Methylene Chloride	7.40	84	13704	1.06	ug/L		81
16) Carbon Disulfide	7.45	76	50932	1.14	ug/L		100
18) Methyl Tert Butyl Ether	7.68	73	16135	0.93	ug/L		99
19) trans-1,2-Dichloroethene	7.91	96	13644	0.98	ug/L		90
20) n-Hexane	8.02	57	23503	0.96	ug/L		96
21) Vinyl Acetate	8.56	43	8356	1.82	ug/L	#	76
22) 1,1-Dichloroethane	8.58	63	26229	0.99	ug/L		98
24) 2,2-Dichloropropane	9.45	77	20455	0.89	ug/L		96
25) cis-1,2-Dichloroethene	9.52	96	13237	0.97	ug/L		90
26) Chloroform	9.75	83	25124	1.01	ug/L		98
27) Bromochloromethane	10.00	128	5241	0.99	ug/L		90
29) 1,1,1-Trichloroethane	10.36	97	24075	0.95	ug/L		90
30) Cyclohexane	10.40	56	25812	0.95	ug/L		93
31) 1,1-Dichloropropene	10.58	75	20877	0.94	ug/L		93
32) Carbon Tetrachloride	10.74	117	19408	0.87	ug/L		99
34) 1,2-Dichloroethane	10.93	62	15438	1.08	ug/L	#	88
35) Benzene	10.97	78	58280	1.11	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25833.D 8260WTR.M Thu May 24 14:57:49 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25833.D Vial: 10
Acq On : 21 May 2001 17:19 Operator: CMS
Sample : WG97810-04 1 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:23 19101 Quant Results File: 8260WTR.RES

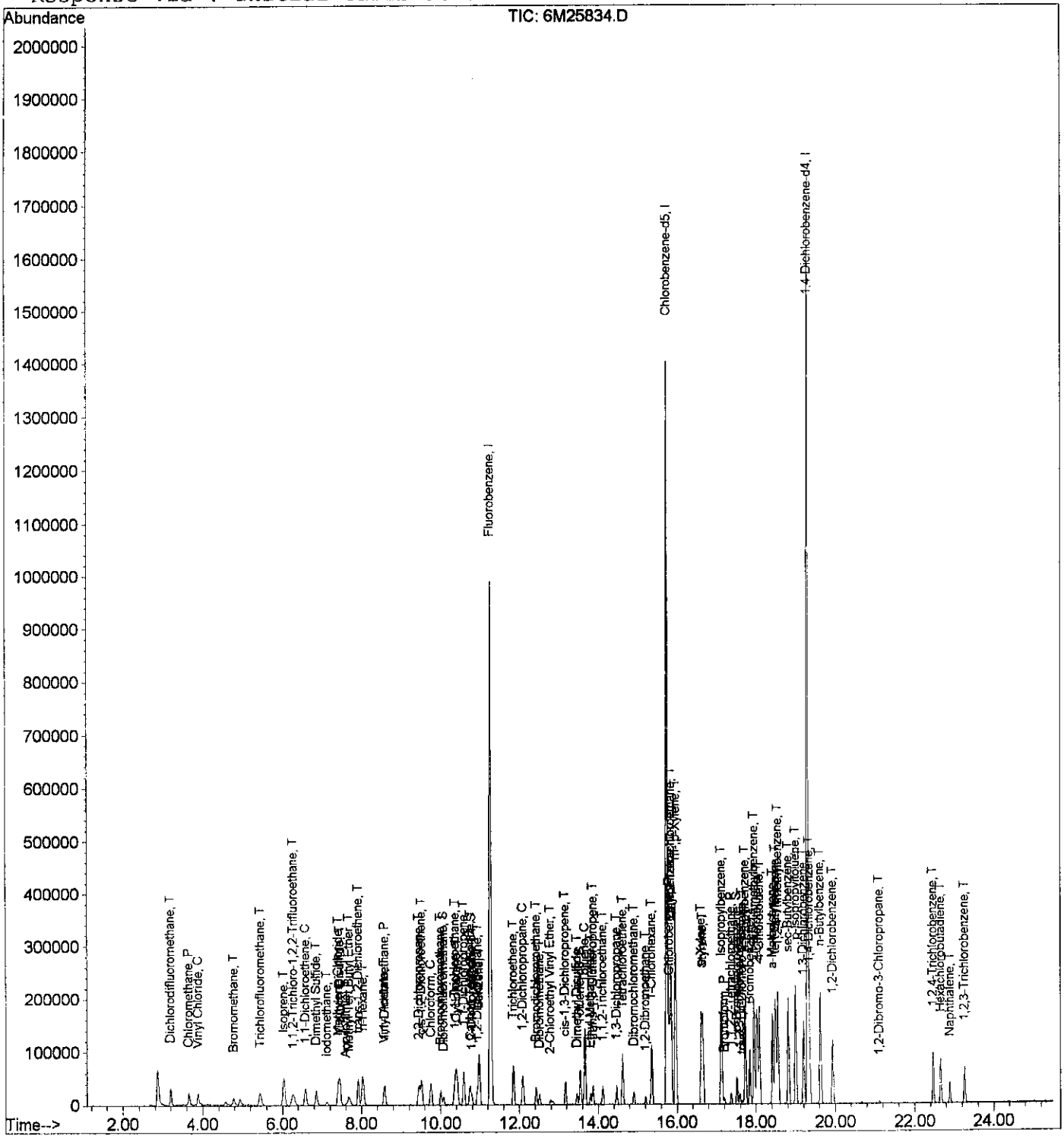
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Trichloroethene	11.85	130	19034	1.04 ug/L	97
37)	1,2-Dichloropropane	12.09	63	13306	0.97 ug/L	98
38)	Bromodichloromethane	12.43	83	15144	0.98 ug/L	96
39)	Dibromomethane	12.51	93	4573	0.96 ug/L	92
42)	cis-1,3-Dichloropropene	13.17	75	14570	0.89 ug/L	99
46)	Toluene	13.66	91	71872	1.02 ug/L	97
48)	trans-1,3-Dichloropropene	13.87	75	11716	0.86 ug/L	97
49)	1,1,2-Trichloroethane	14.11	97	7085	0.99 ug/L	98
51)	1,3-Dichloropropane	14.48	76	12074	0.93 ug/L	87
52)	Tetrachloroethene	14.62	164	16062	1.06 ug/L	96
53)	Dibromochloromethane	14.90	129	8512	0.84 ug/L	97
54)	1,2-Dibromoethane	15.20	107	6932	0.95 ug/L	97
55)	1-Chlorohexane	15.36	91	20817	0.89 ug/L #	79
56)	Chlorobenzene	15.80	112	55195	1.05 ug/L	98
57)	1,1,1,2-Tetrachloroethane	15.85	131	14263	0.98 ug/L	95
58)	Ethylbenzene	15.86	106	31812	1.04 ug/L	97
59)	m-,p-Xylene	15.96	106	79820	2.13 ug/L	91
60)	o-Xylene	16.62	106	32979	1.00 ug/L	99
61)	Styrene	16.66	104	54265	0.99 ug/L	97
62)	Bromoform	17.21	173	3297	2.01 ug/L #	79
63)	Isopropylbenzene	17.13	105	92332	0.97 ug/L	96
65)	1,1,2,2-Tetrachloroethane	17.36	83	7045	0.93 ug/L	96
67)	1,2,3-Trichloropropane	17.60	110	2277	0.93 ug/L #	86
69)	n-Propylbenzene	17.73	91	105180	0.98 ug/L	98
70)	Bromobenzene	17.84	156	20745	1.03 ug/L	93
71)	1,3,5-Trimethylbenzene	17.96	105	79264	1.08 ug/L	98
72)	2-Chlorotoluene	18.03	91	70990	1.07 ug/L	99
73)	4-Chlorotoluene	18.09	91	67663	1.02 ug/L	98
74)	a-Methylstyrene	18.42	118	34650	0.92 ug/L	96
75)	tert-Butylbenzene	18.50	119	76623	0.99 ug/L	99
76)	1,2,4-Trimethylbenzene	18.56	105	88721	1.13 ug/L	98
77)	sec-Butylbenzene	18.81	105	100925	0.98 ug/L	97
78)	p-Isopropyltoluene	19.02	119	91042	0.98 ug/L	98
79)	1,3-Dichlorobenzene	19.21	146	43986	1.01 ug/L	98
80)	1,4-Dichlorobenzene	19.36	146	47184	1.06 ug/L	100
81)	n-Butylbenzene	19.63	91	78226	1.00 ug/L	99
82)	1,2-Dichlorobenzene	19.94	146	37012	1.05 ug/L	99
84)	1,2,4-Trichlorobenzene	22.47	180	20389	0.99 ug/L	96
85)	Hexachlorobutadiene	22.67	225	11410	1.05 ug/L #	27
86)	Naphthalene	22.89	128	20513	0.94 ug/L #	91
87)	1,2,3-Trichlorobenzene	23.26	180	15589	1.01 ug/L	93

(#) = qualifier out of range (m) = manual integration
6M25833.D 8260WTR.M Thu May 24 14:57:53 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25834.D Vial: 11
Acq On : 21 May 2001 18:02 Operator: CMS
Sample : WG97810-05 2 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25834.D Vial: 11
Acq On : 21 May 2001 18:02 Operator: CMS
Sample : WG97810-05 2 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1336461	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1161816	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	654603	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.08	111	14652	1.00	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	4.00%#			
33) 1,2-Dichloroethane-d4	10.80	65	12498	1.02	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	4.08%#			
45) Toluene-d8	13.55	98	68045	1.01	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.04%#			
66) p-Bromofluorobenzene	17.52	95	25098	0.99	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.96%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	46537	1.96	ug/L		97
3) Chloromethane	3.64	50	39368	2.08	ug/L		99
4) Vinyl Chloride	3.89	62	33124	0.68	ug/L		97
5) Bromomethane	4.77	94	15941	1.94	ug/L		94
7) Trichlorofluoromethane	5.45	101	52297	1.94	ug/L		100
8) Isoprene	6.03	67	43539	1.92	ug/L		95
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	28005	1.83	ug/L		99
12) 1,1-Dichloroethene	6.59	96	24097	1.96	ug/L		91
13) Dimethyl Sulfide	6.86	62	23328	1.97	ug/L	#	1
14) Iodomethane	7.12	142	13759	4.23	ug/L	#	64
15) Methylene Chloride	7.41	84	26554	1.99	ug/L		79
16) Carbon Disulfide	7.45	76	100596	2.18	ug/L		99
17) Acrylonitrile	7.61	53	2572	3.72	ug/L		91
18) Methyl Tert Butyl Ether	7.68	73	32395	1.82	ug/L	#	84
19) trans-1,2-Dichloroethene	7.91	96	28752	2.00	ug/L		90
20) n-Hexane	8.03	57	51276	2.03	ug/L		99
21) Vinyl Acetate	8.57	43	18361	2.56	ug/L	#	88
22) 1,1-Dichloroethane	8.59	63	54862	2.00	ug/L		96
24) 2,2-Dichloropropane	9.46	77	43144	1.82	ug/L		100
25) cis-1,2-Dichloroethene	9.51	96	27171	1.94	ug/L		86
26) Chloroform	9.75	83	52068	2.03	ug/L		98
27) Bromochloromethane	10.00	128	10607	1.94	ug/L		99
29) 1,1,1-Trichloroethane	10.36	97	50581	1.94	ug/L		90
30) Cyclohexane	10.41	56	55564	1.98	ug/L		92
31) 1,1-Dichloropropene	10.59	75	44537	1.94	ug/L		93
32) Carbon Tetrachloride	10.75	117	42618	1.84	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:23 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25834.D Vial: 11
Acq On : 21 May 2001 18:02 Operator: CMS
Sample : WG97810-05 2 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) 1,2-Dichloroethane	10.93	62	31376	2.13 ug/L #	75
35) Benzene	10.98	78	122791	2.26 ug/L	96
36) Trichloroethene	11.85	130	38621	2.05 ug/L	100
37) 1,2-Dichloropropane	12.09	63	28269	2.00 ug/L	100
38) Bromodichloromethane	12.42	83	31474	1.97 ug/L	100
39) Dibromomethane	12.51	93	10247	2.09 ug/L	97
40) 2-Chloroethyl Vinyl Ether	12.79	63	5471	2.80 ug/L	90
42) cis-1,3-Dichloropropene	13.17	75	32270	1.90 ug/L	99
43) Dimethyl Disulfide	13.46	79	7668	3.43 ug/L	93
46) Toluene	13.67	91	152999	2.11 ug/L	97
47) Ethyl Methacrylate	13.81	69	13647	1.57 ug/L	94
48) trans-1,3-Dichloropropene	13.87	75	25266	1.79 ug/L	99
49) 1,1,2-Trichloroethane	14.11	97	14917	2.01 ug/L	99
51) 1,3-Dichloropropane	14.47	76	26151	1.94 ug/L	89
52) Tetrachloroethene	14.62	164	32785	2.09 ug/L	98
53) Dibromochloromethane	14.91	129	18536	1.76 ug/L	99
54) 1,2-Dibromoethane	15.21	107	14433	1.92 ug/L	99
55) 1-Chlorohexane	15.36	91	46276	1.91 ug/L	85
56) Chlorobenzene	15.81	112	112829	2.08 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	30595	2.03 ug/L	99
58) Ethylbenzene	15.85	106	67763	2.15 ug/L	97
59) m-,p-Xylene	15.97	106	170594	4.40 ug/L	91
60) o-Xylene	16.62	106	72888	2.15 ug/L	99
61) Styrene	16.66	104	120445	2.14 ug/L	97
62) Bromoform	17.21	173	7808	2.73 ug/L	96
63) Isopropylbenzene	17.13	105	206664	2.11 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.37	83	15390	1.93 ug/L	95
67) 1,2,3-Trichloropropane	17.60	110	5215	2.01 ug/L	94
68) trans-1,4-Dichloro-2-Buten	17.66	53	3022	4.44 ug/L #	62
69) n-Propylbenzene	17.73	91	237728	2.11 ug/L	98
70) Bromobenzene	17.85	156	43292	2.03 ug/L	96
71) 1,3,5-Trimethylbenzene	17.96	105	180386	2.34 ug/L	97
72) 2-Chlorotoluene	18.03	91	152492	2.17 ug/L	98
73) 4-Chlorotoluene	18.09	91	150375	2.14 ug/L	99
74) a-Methylstyrene	18.43	118	80229	2.03 ug/L	99
75) tert-Butylbenzene	18.49	119	168778	2.08 ug/L	99
76) 1,2,4-Trimethylbenzene	18.56	105	193403	2.34 ug/L	97
77) sec-Butylbenzene	18.82	105	226576	2.09 ug/L	98
78) p-Isopropyltoluene	19.01	119	204648	2.09 ug/L	97
79) 1,3-Dichlorobenzene	19.21	146	96648	2.11 ug/L	97
80) 1,4-Dichlorobenzene	19.36	146	97523	2.09 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:26 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25834.D Vial: 11
Acq On : 21 May 2001 18:02 Operator: CMS
Sample : WG97810-05 2 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

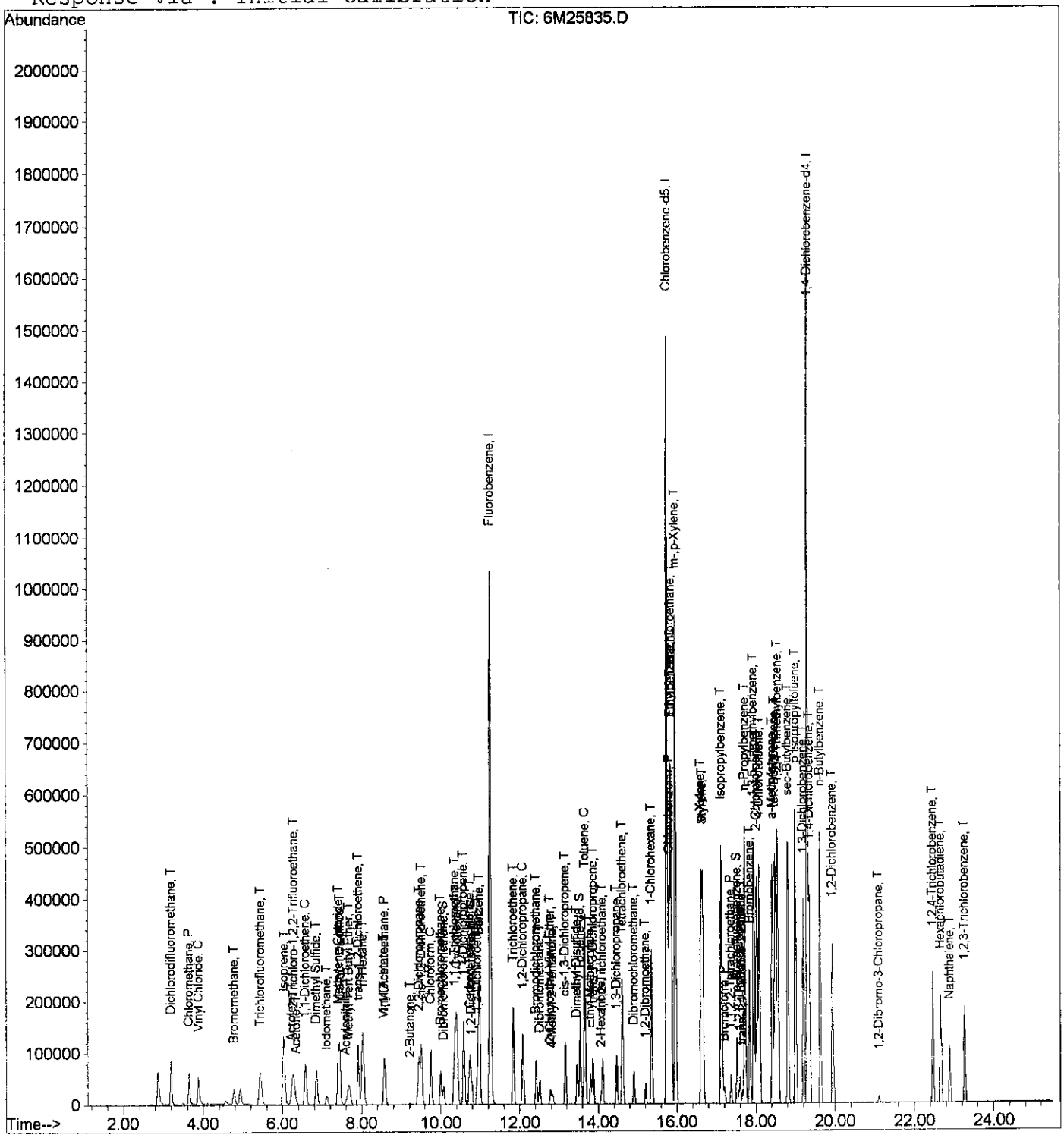
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	n-Butylbenzene	19.63	91	171886	2.08	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	76146	2.06	ug/L		99
83)	1,2-Dibromo-3-Chloropropan	21.10	157	2083	3.05	ug/L		82
84)	1,2,4-Trichlorobenzene	22.47	180	42867	1.98	ug/L		99
85)	Hexachlorobutadiene	22.67	225	23595	2.06	ug/L	#	22
86)	Naphthalene	22.89	128	46256	2.02	ug/L	#	91
87)	1,2,3-Trichlorobenzene	23.27	180	31913	1.96	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25834.D 8260WTR.M Thu May 24 14:58:27 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.26	96	1400753	25.00	ug/L	0.00
44) Chlorobenzene-d5	15.75	117	1226025	25.00	ug/L	0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	676953	25.00	ug/L	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	10.07	111	36351	2.36	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	9.44%#		
33) 1,2-Dichloroethane-d4	10.79	65	31041	2.42	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	9.68%#		
45) Toluene-d8	13.55	98	173076	2.43	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.72%#		
66) p-Bromofluorobenzene	17.52	95	63260	2.40	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.60%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.19	85	127623	5.13	ug/L	96
3) Chloromethane	3.64	50	102507	5.16	ug/L	99
4) Vinyl Chloride	3.88	62	90763	4.95	ug/L	98
5) Bromomethane	4.77	94	39872	4.63	ug/L	96
7) Trichlorofluoromethane	5.44	101	142023	5.03	ug/L #	97
8) Isoprene	6.03	67	112668	4.75	ug/L	93
9) Acrolein	6.22	56	2325	22.79	ug/L #	57
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	77540	4.83	ug/L	98
11) Acetone	6.35	43	6657	4.89	ug/L #	46
12) 1,1-Dichloroethene	6.58	96	58362	4.54	ug/L	87
13) Dimethyl Sulfide	6.85	62	61332	4.94	ug/L #	1
14) Iodomethane	7.11	142	41750	6.43	ug/L	95
15) Methylene Chloride	7.40	84	62339	4.45	ug/L	79
16) Carbon Disulfide	7.45	76	239660	4.96	ug/L	99
17) Acrylonitrile	7.59	53	8168	6.12	ug/L	99
18) Methyl Tert Butyl Ether	7.67	73	86904	4.65	ug/L	96
19) trans-1,2-Dichloroethene	7.91	96	70965	4.71	ug/L	91
20) n-Hexane	8.02	57	133145	5.03	ug/L	98
21) Vinyl Acetate	8.56	43	51875	4.94	ug/L	97
22) 1,1-Dichloroethane	8.58	63	136475	4.76	ug/L	97
23) 2-Butanone	9.21	43	7763	4.25	ug/L #	84
24) 2,2-Dichloropropane	9.45	77	112264	4.52	ug/L	100
25) cis-1,2-Dichloroethene	9.52	96	70119	4.77	ug/L	87
26) Chloroform	9.75	83	127471	4.74	ug/L	98
27) Bromochloromethane	10.00	128	26988	4.70	ug/L	97
29) 1,1,1-Trichloroethane	10.36	97	129197	4.74	ug/L	91

(#) = qualifier out of range (m) = manual integration
6M25835.D 8260WTR.M Thu May 24 14:58:56 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Cyclohexane	10.40	56	146365	4.97 ug/L		93
31)	1,1-Dichloropropene	10.58	75	117368	4.89 ug/L		95
32)	Carbon Tetrachloride	10.75	117	113900	4.70 ug/L		98
34)	1,2-Dichloroethane	10.93	62	79349	5.14 ug/L	#	75
35)	Benzene	10.98	78	313255	5.50 ug/L		96
36)	Trichloroethene	11.84	130	99161	5.03 ug/L		99
37)	1,2-Dichloropropane	12.09	63	72755	4.91 ug/L		98
38)	Bromodichloromethane	12.43	83	82061	4.90 ug/L		99
39)	Dibromomethane	12.51	93	26287	5.11 ug/L		96
40)	2-Chloroethyl Vinyl Ether	12.79	63	16633	5.25 ug/L		100
41)	4-Methyl-2-Pentanone	12.84	58	9804	4.60 ug/L		87
42)	cis-1,3-Dichloropropene	13.17	75	88583	4.98 ug/L		98
43)	Dimethyl Disulfide	13.47	79	29930	5.42 ug/L		92
46)	Toluene	13.66	91	400104	5.23 ug/L		97
47)	Ethyl Methacrylate	13.80	69	41894	4.56 ug/L		99
48)	trans-1,3-Dichloropropene	13.87	75	70718	4.74 ug/L		99
49)	1,1,2-Trichloroethane	14.12	97	38679	4.94 ug/L		99
50)	2-Hexanone	14.07	43	15839	4.25 ug/L		96
51)	1,3-Dichloropropane	14.47	76	69423	4.88 ug/L		90
52)	Tetrachloroethene	14.62	164	84623	5.12 ug/L		99
53)	Dibromochloromethane	14.91	129	52071	4.70 ug/L		100
54)	1,2-Dibromoethane	15.21	107	38852	4.89 ug/L		100
55)	1-Chlorohexane	15.36	91	128337	5.01 ug/L		88
56)	Chlorobenzene	15.81	112	286074	4.99 ug/L		100
57)	1,1,1,2-Tetrachloroethane	15.85	131	81503	5.13 ug/L		97
58)	Ethylbenzene	15.86	106	172169	5.18 ug/L		96
59)	m-,p-Xylene	15.97	106	437364	10.69 ug/L		92
60)	o-Xylene	16.62	106	195102	5.44 ug/L		100
61)	Styrene	16.66	104	317425	5.33 ug/L		96
62)	Bromoform	17.21	173	22962	5.02 ug/L		98
63)	Isopropylbenzene	17.13	105	548651	5.30 ug/L		96
65)	1,1,2,2-Tetrachloroethane	17.37	83	39527	4.80 ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	13398	5.00 ug/L		98
68)	trans-1,4-Dichloro-2-Buten	17.65	53	9421	6.52 ug/L	#	75
69)	n-Propylbenzene	17.73	91	620526	5.31 ug/L		98
70)	Bromobenzene	17.85	156	113243	5.14 ug/L		95
71)	1,3,5-Trimethylbenzene	17.95	105	464727	5.82 ug/L		98
72)	2-Chlorotoluene	18.03	91	379471	5.23 ug/L		96
73)	4-Chlorotoluene	18.09	91	389045	5.36 ug/L		98
74)	a-Methylstyrene	18.42	118	217013	5.30 ug/L		99
75)	tert-Butylbenzene	18.50	119	435705	5.18 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25835.D Vial: 12
Acq On : 21 May 2001 18:35 Operator: CMS
Sample : WG97810-06 5 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:24 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,2,4-Trimethylbenzene	18.55	105	487526	5.71	ug/L		97
77)	sec-Butylbenzene	18.82	105	587815	5.25	ug/L		98
78)	p-Isopropyltoluene	19.01	119	533509	5.26	ug/L		98
79)	1,3-Dichlorobenzene	19.21	146	242543	5.13	ug/L		100
80)	1,4-Dichlorobenzene	19.36	146	245311	5.08	ug/L		97
81)	n-Butylbenzene	19.63	91	442553	5.17	ug/L		100
82)	1,2-Dichlorobenzene	19.94	146	191563	5.00	ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	6165	5.43	ug/L		87
84)	1,2,4-Trichlorobenzene	22.47	180	112999	5.05	ug/L		96
85)	Hexachlorobutadiene	22.67	225	59383	5.01	ug/L	#	25
86)	Naphthalene	22.89	128	128983	5.45	ug/L	#	91
87)	1,2,3-Trichlorobenzene	23.26	180	83905	4.98	ug/L		97

(#) = qualifier out of range (m) = manual integration
6M25835.D 8260WTR.M Thu May 24 14:59:00 2001 Page 3

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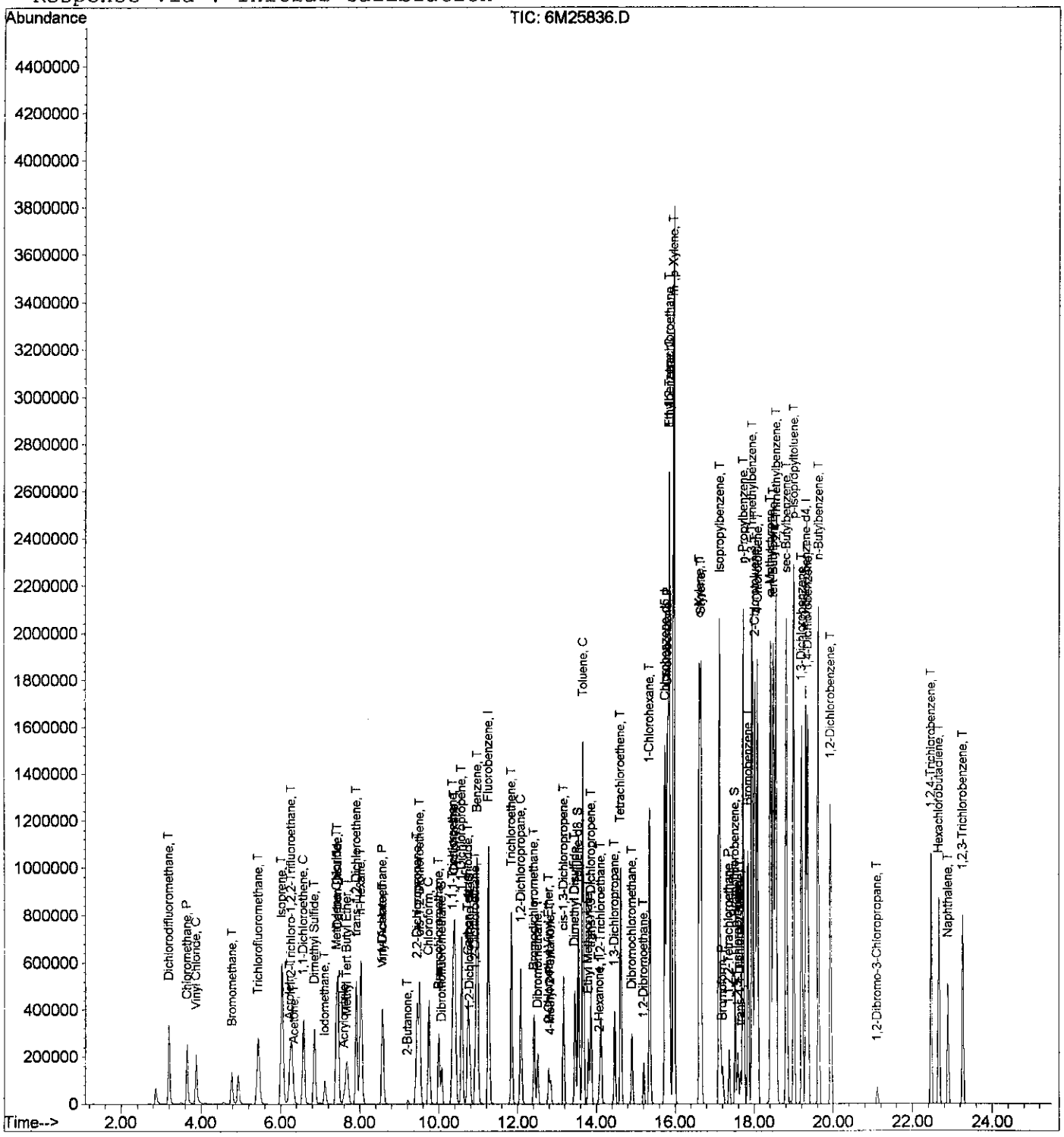
Data File : C:\HPCHEM\1\DATA\052101\6M25836.D Vial: 13
Acq On : 21 May 2001 19:07 Operator: CMS
Sample : WG97810-07 20 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25836.D Vial: 13
Acq On : 21 May 2001 19:07 Operator: CMS
Sample : WG97810-07 20 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1487178	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1269414	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	692403	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	157918	9.66	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 38.64%#				
33) 1,2-Dichloroethane-d4	10.79	65	132529	9.72	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 38.88%#				
45) Toluene-d8	13.55	98	743782	10.10	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 40.40%#				
66) p-Bromofluorobenzene	17.52	95	271292	10.07	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 40.28%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	511293	19.37	ug/L		95
3) Chloromethane	3.64	50	417435	19.80	ug/L		100
4) Vinyl Chloride	3.88	62	355178	23.90	ug/L		99
5) Bromomethane	4.77	94	173717	19.02	ug/L		100
7) Trichlorofluoromethane	5.44	101	603578	20.13	ug/L		99
8) Isoprene	6.03	67	515437	20.45	ug/L		93
9) Acrolein	6.22	56	12571	43.01	ug/L		98
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	333802	19.57	ug/L		99
11) Acetone	6.34	43	27940	19.32	ug/L		92
12) 1,1-Dichloroethene	6.58	96	261635	19.17	ug/L		88
13) Dimethyl Sulfide	6.85	62	283267	21.47	ug/L	#	1
14) Iodomethane	7.11	142	210491	19.04	ug/L		96
15) Methylene Chloride	7.40	84	267929	18.00	ug/L		81
16) Carbon Disulfide	7.45	76	1075382	20.95	ug/L		99
17) Acrylonitrile	7.59	53	37424	17.99	ug/L		91
18) Methyl Tert Butyl Ether	7.67	73	398418	20.08	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	317759	19.86	ug/L		89
20) n-Hexane	8.03	57	598140	21.27	ug/L		99
21) Vinyl Acetate	8.56	43	248391	18.22	ug/L		98
22) 1,1-Dichloroethane	8.58	63	599148	19.67	ug/L		98
23) 2-Butanone	9.21	43	36148	18.63	ug/L		93
24) 2,2-Dichloropropane	9.45	77	524509	19.89	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	319845	20.48	ug/L		90
26) Chloroform	9.75	83	550650	19.27	ug/L		98
27) Bromochloromethane	10.00	128	117895	19.35	ug/L		100
29) 1,1,1-Trichloroethane	10.36	97	571159	19.73	ug/L		92

(#) = qualifier out of range (m) = manual integration
6M25836.D 8260WTR.M Thu May 24 14:59:30 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25836.D Vial: 13
Acq On : 21 May 2001 19:07 Operator: CMS
Sample : WG97810-07 20 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	Cyclohexane	10.40	56	665993	21.31 ug/L		94
31)	1,1-Dichloropropene	10.58	75	517597	20.30 ug/L		94
32)	Carbon Tetrachloride	10.74	117	530506	20.62 ug/L		99
34)	1,2-Dichloroethane	10.93	62	341846	20.87 ug/L	#	75
35)	Benzene	10.98	78	1360937	22.51 ug/L		96
36)	Trichloroethene	11.84	130	424211	20.26 ug/L		99
37)	1,2-Dichloropropane	12.09	63	310902	19.76 ug/L		99
38)	Bromodichloromethane	12.42	83	364705	20.50 ug/L		100
39)	Dibromomethane	12.51	93	112202	20.53 ug/L		97
40)	2-Chloroethyl Vinyl Ether	12.79	63	84083	19.34 ug/L		97
41)	4-Methyl-2-Pentanone	12.84	58	43780	19.36 ug/L		92
42)	cis-1,3-Dichloropropene	13.17	75	405769	21.51 ug/L		98
43)	Dimethyl Disulfide	13.46	79	188116	18.80 ug/L		95
46)	Toluene	13.66	91	1681863	21.22 ug/L		98
47)	Ethyl Methacrylate	13.80	69	196232	20.63 ug/L		99
48)	trans-1,3-Dichloropropene	13.87	75	327756	21.24 ug/L		98
49)	1,1,2-Trichloroethane	14.12	97	161482	19.93 ug/L		100
50)	2-Hexanone	14.07	43	76173	19.74 ug/L		100
51)	1,3-Dichloropropane	14.47	76	295907	20.10 ug/L		91
52)	Tetrachloroethene	14.62	164	354202	20.68 ug/L		98
53)	Dibromochloromethane	14.91	129	240960	21.00 ug/L		100
54)	1,2-Dibromoethane	15.21	107	169159	20.55 ug/L		100
55)	1-Chlorohexane	15.36	91	571775	21.54 ug/L		91
56)	Chlorobenzene	15.81	112	1155710	19.47 ug/L		98
57)	1,1,1,2-Tetrachloroethane	15.85	131	353546	21.48 ug/L		96
58)	Ethylbenzene	15.86	106	704816	20.46 ug/L		97
59)	m-,p-Xylene	15.97	106	1764479	41.64 ug/L		93
60)	o-Xylene	16.62	106	817680	22.04 ug/L		99
61)	Styrene	16.66	104	1327643	21.54 ug/L		96
62)	Bromoform	17.21	173	113109	18.45 ug/L		100
63)	Isopropylbenzene	17.13	105	2272357	21.19 ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.37	83	166664	19.77 ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	54785	19.99 ug/L		96
68)	trans-1,4-Dichloro-2-Buten	17.66	53	49473	19.42 ug/L	#	80
69)	n-Propylbenzene	17.73	91	2567356	21.49 ug/L		98
70)	Bromobenzene	17.85	156	463578	20.57 ug/L		96
71)	1,3,5-Trimethylbenzene	17.95	105	1928650	23.61 ug/L		98
72)	2-Chlorotoluene	18.03	91	1553583	20.92 ug/L		98
73)	4-Chlorotoluene	18.09	91	1571838	21.17 ug/L		99
74)	a-Methylstyrene	18.42	118	945594	22.59 ug/L		99
75)	tert-Butylbenzene	18.49	119	1778449	20.68 ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25836.D 8260WTR.M Thu May 24 14:59:33 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25836.D Vial: 13
Acq On : 21 May 2001 19:07 Operator: CMS
Sample : WG97810-07 20 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

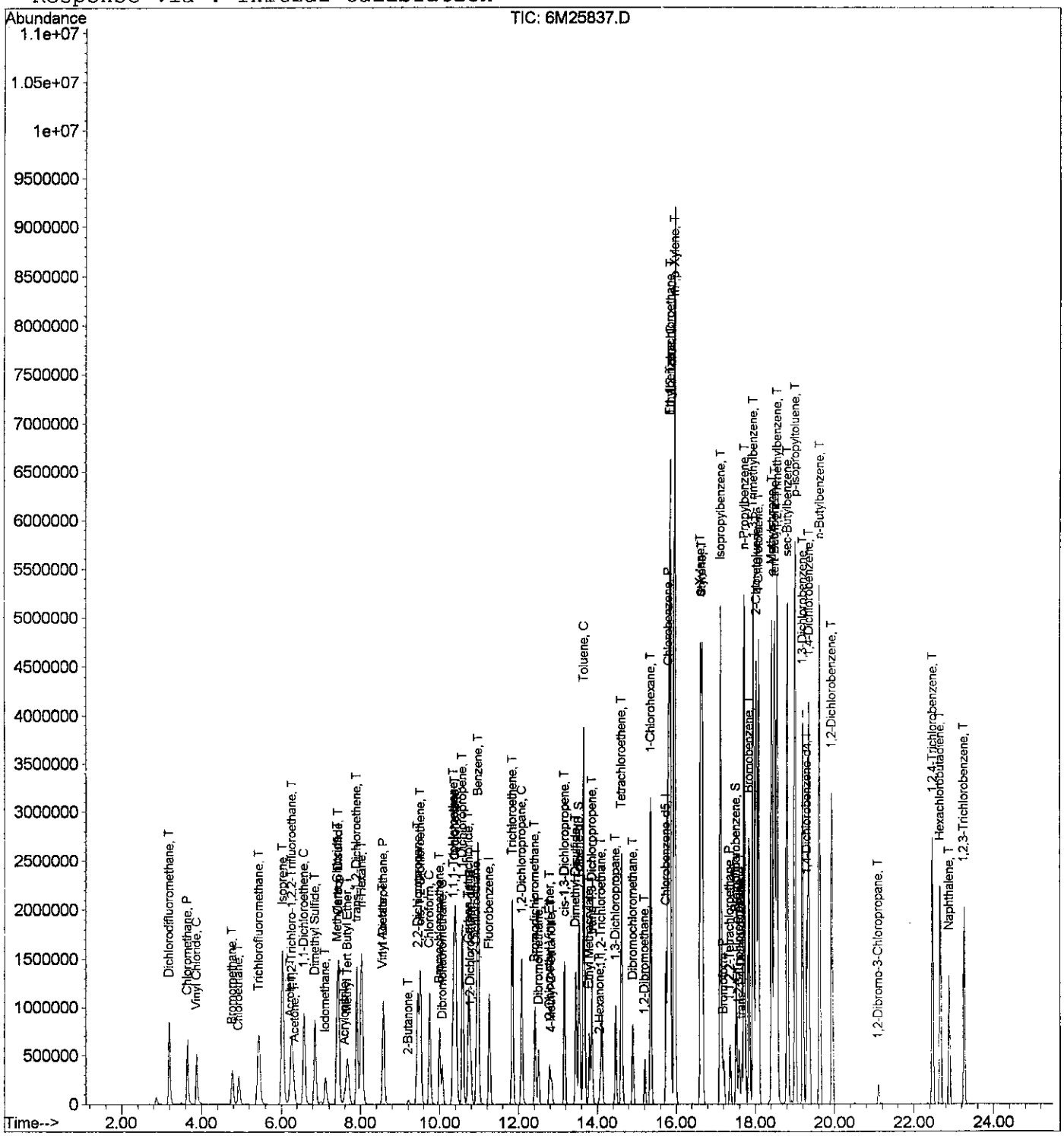
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,2,4-Trimethylbenzene	18.56	105	1974868	22.62	ug/L		98
77)	sec-Butylbenzene	18.81	105	2428403	21.21	ug/L		98
78)	p-Isopropyltoluene	19.01	119	2211855	21.32	ug/L		97
79)	1,3-Dichlorobenzene	19.21	146	991561	20.50	ug/L		99
80)	1,4-Dichlorobenzene	19.36	146	972178	19.69	ug/L		99
81)	n-Butylbenzene	19.63	91	1814400	20.73	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	785091	20.05	ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	29732	19.02	ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	479190	20.94	ug/L		96
85)	Hexachlorobutadiene	22.67	225	247292	20.39	ug/L	#	25
86)	Naphthalene	22.89	128	586447	24.24	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	358073	20.77	ug/L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D Vial: 14
Acq On : 21 May 2001 19:39 Operator: CMS
Sample : WG97810-08 50 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25837.D Vial: 14
Acq On : 21 May 2001 19:39 Operator: CMS
Sample : WG97810-08 50 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1561179	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1318268	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	722228	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	411594	23.98	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 95.92%				
33) 1,2-Dichloroethane-d4	10.79	65	340876	23.83	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.32%				
45) Toluene-d8	13.55	98	1889282	24.71	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.84%				
66) p-Bromofluorobenzene	17.52	95	694587	24.72	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.88%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	1307256	47.17	ug/L		96
3) Chloromethane	3.64	50	1086685	49.10	ug/L		100
4) Vinyl Chloride	3.87	62	793347	54.57	ug/L		100
5) Bromomethane	4.77	94	459112	47.87	ug/L		99
6) Chloroethane	4.94	64	517529	0.25	ug/L		100
7) Trichlorofluoromethane	5.44	101	1567895	49.81	ug/L		99
8) Isoprene	6.03	67	1394866	52.72	ug/L		95
9) Acrolein	6.22	56	36358	87.15	ug/L		94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	872270	48.71	ug/L		99
11) Acetone	6.34	43	71469	47.09	ug/L		97
12) 1,1-Dichloroethene	6.58	96	703559	49.10	ug/L		89
13) Dimethyl Sulfide	6.85	62	785336	56.70	ug/L	#	1
14) Iodomethane	7.11	142	603089	46.65	ug/L		97
15) Methylene Chloride	7.40	84	713348	45.65	ug/L		83
16) Carbon Disulfide	7.45	76	2964961	55.03	ug/L		99
17) Acrylonitrile	7.60	53	115603	48.01	ug/L		100
18) Methyl Tert Butyl Ether	7.67	73	1067306	51.25	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	858912	51.13	ug/L		91
20) n-Hexane	8.03	57	1563954	52.98	ug/L		100
21) Vinyl Acetate	8.56	43	723230	48.47	ug/L		98
22) 1,1-Dichloroethane	8.58	63	1600969	50.06	ug/L		97
23) 2-Butanone	9.21	43	104943	51.51	ug/L		93
24) 2,2-Dichloropropane	9.45	77	1455037	52.56	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	848962	51.79	ug/L		89
26) Chloroform	9.75	83	1450389	48.35	ug/L		98
27) Bromochloromethane	10.00	128	313253	48.96	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M25837.D 8260WTR.M Thu May 24 15:00:03 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D Vial: 14
Acq On : 21 May 2001 19:39 Operator: CMS
Sample : WG97810-08 50 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	1,1,1-Trichloroethane	10.36	97	1534091	50.49	ug/L		92
30)	Cyclohexane	10.40	56	1752677	53.42	ug/L		95
31)	1,1-Dichloropropene	10.58	75	1368596	51.14	ug/L		94
32)	Carbon Tetrachloride	10.74	117	1459945	54.05	ug/L		99
34)	1,2-Dichloroethane	10.93	62	888919	51.69	ug/L	#	75
35)	Benzene	10.98	78	3548363	55.91	ug/L		96
36)	Trichloroethene	11.85	130	1114605	50.70	ug/L		99
37)	1,2-Dichloropropane	12.09	63	825724	50.00	ug/L		98
38)	Bromodichloromethane	12.42	83	977945	52.36	ug/L		100
39)	Dibromomethane	12.51	93	293712	51.19	ug/L		95
40)	2-Chloroethyl Vinyl Ether	12.79	63	232464	48.46	ug/L		97
41)	4-Methyl-2-Pentanone	12.84	58	120566	50.80	ug/L		93
42)	cis-1,3-Dichloropropene	13.17	75	1101531	55.62	ug/L		98
43)	Dimethyl Disulfide	13.46	79	555087	47.96	ug/L		95
46)	Toluene	13.67	91	4297173	52.20	ug/L		98
47)	Ethyl Methacrylate	13.80	69	527832	53.44	ug/L		100
48)	trans-1,3-Dichloropropene	13.87	75	890806	55.58	ug/L		99
49)	1,1,2-Trichloroethane	14.12	97	424276	50.42	ug/L		100
50)	2-Hexanone	14.07	43	209835	52.36	ug/L		100
51)	1,3-Dichloropropane	14.47	76	777813	50.88	ug/L		92
52)	Tetrachloroethene	14.62	164	915137	51.46	ug/L		97
53)	Dibromochloromethane	14.91	129	662876	55.63	ug/L		100
54)	1,2-Dibromoethane	15.21	107	455340	53.26	ug/L		100
55)	1-Chlorohexane	15.36	91	1474786	53.51	ug/L		93
56)	Chlorobenzene	15.81	112	2941754	47.73	ug/L		96
57)	1,1,1,2-Tetrachloroethane	15.85	131	918331	53.73	ug/L		97
58)	Ethylbenzene	15.86	106	1791601	50.09	ug/L		100
59)	m-,p-Xylene	15.97	106	4456255	101.28	ug/L		97
60)	o-Xylene	16.62	106	2102769	54.57	ug/L		98
61)	Styrene	16.66	104	3401618	53.15	ug/L		96
62)	Bromoform	17.21	173	323522	48.27	ug/L		99
63)	Isopropylbenzene	17.13	105	5742911	51.56	ug/L		98
65)	1,1,2,2-Tetrachloroethane	17.37	83	438692	49.89	ug/L		100
67)	1,2,3-Trichloropropane	17.60	110	147788	51.69	ug/L		96
68)	trans-1,4-Dichloro-2-Buten	17.66	53	138542	46.40	ug/L		84
69)	n-Propylbenzene	17.73	91	6447700	51.75	ug/L		100
70)	Bromobenzene	17.85	156	1184753	50.41	ug/L		96
71)	1,3,5-Trimethylbenzene	17.95	105	4888795	57.37	ug/L		100
72)	2-Chlorotoluene	18.03	91	3898647	50.34	ug/L		95
73)	4-Chlorotoluene	18.09	91	4012846	51.81	ug/L		99
74)	a-Methylstyrene	18.42	118	2425991	55.56	ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25837.D Vial: 14
Acq On : 21 May 2001 19:39 Operator: CMS
Sample : WG97810-08 50 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

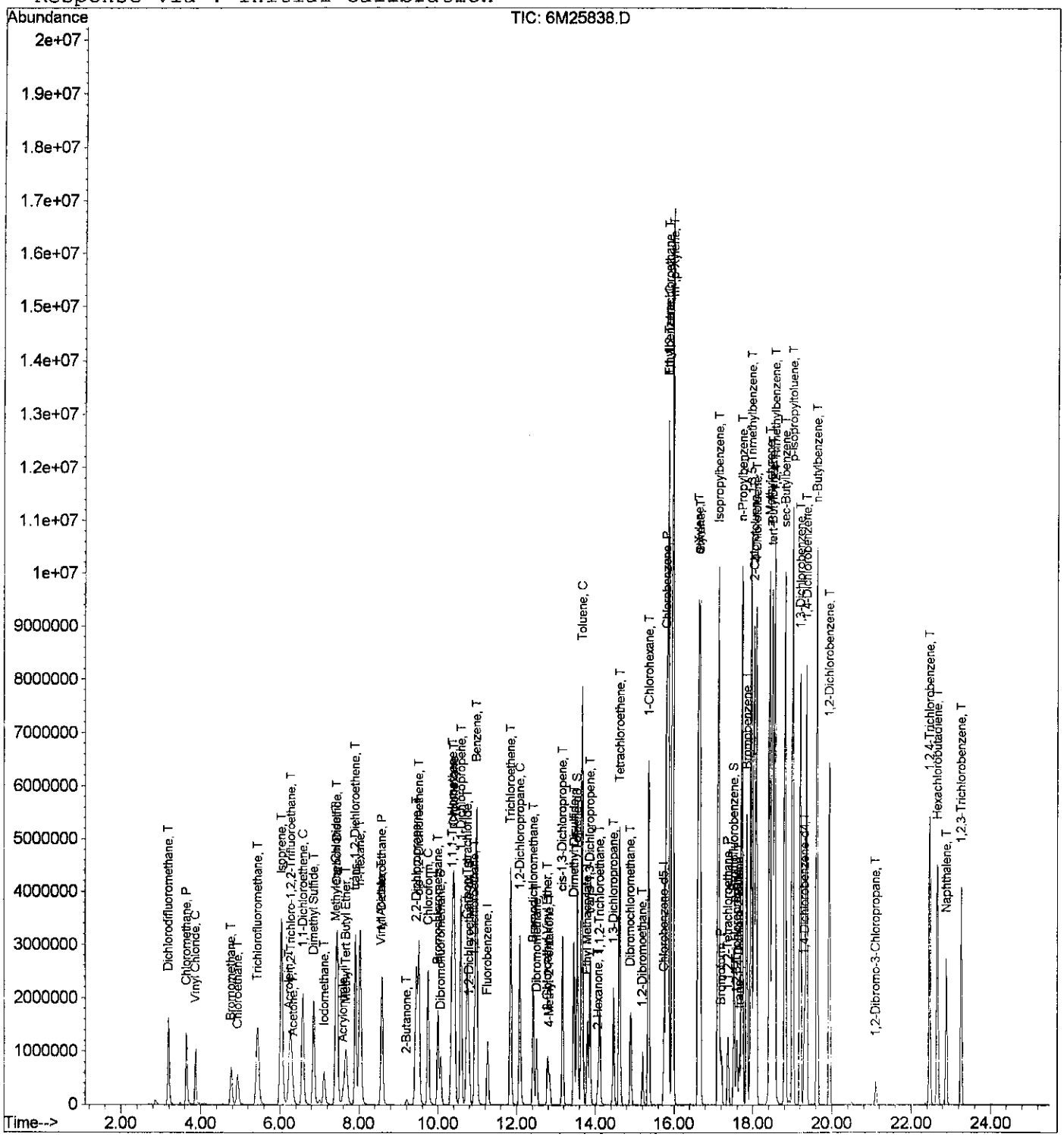
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.50	119	4542363	50.64	ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	4963570	54.51	ug/L		100
77)	sec-Butylbenzene	18.82	105	6133693	51.37	ug/L		99
78)	p-Isopropyltoluene	19.01	119	5612511	51.87	ug/L		98
79)	1,3-Dichlorobenzene	19.21	146	2520635	49.97	ug/L		100
80)	1,4-Dichlorobenzene	19.36	146	2467898	47.93	ug/L		100
81)	n-Butylbenzene	19.63	91	4606469	50.46	ug/L		98
82)	1,2-Dichlorobenzene	19.94	146	2012511	49.27	ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	83406	48.17	ug/L		97
84)	1,2,4-Trichlorobenzene	22.47	180	1243545	52.10	ug/L		96
85)	Hexachlorobutadiene	22.67	225	639361	50.55	ug/L	#	25
86)	Naphthalene	22.89	128	1527619	60.53	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	915606	50.92	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25837.D 8260WTR.M Thu May 24 15:00:08 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D Vial: 15
Acq On : 21 May 2001 20:12 Operator: CMS
Sample : WG97810-09 100 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25838.D Vial: 15
Acq On : 21 May 2001 20:12 Operator: CMS
Sample : WG97810-09 100 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1640006	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1366798	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.32	152	744658	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	936615	51.95	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 207.80%#				
33) 1,2-Dichloroethane-d4	10.79	65	761941	50.70	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 202.80%#				
45) Toluene-d8	13.55	98	4057068	51.18	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 204.72%#				
66) p-Bromofluorobenzene	17.52	95	1489473	51.42	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 205.68%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	2512834	86.30	ug/L		95
3) Chloromethane	3.64	50	2210830	95.09	ug/L		100
4) Vinyl Chloride	3.87	62	1374585	94.75	ug/L		100
5) Bromomethane	4.77	94	914947	90.82	ug/L		100
6) Chloroethane	4.93	64	1005158	0.46	ug/L		100
7) Trichlorofluoromethane	5.44	101	3215925	97.25	ug/L		100
8) Isoprene	6.03	67	3139270	112.94	ug/L		96
9) Acrolein	6.22	56	94277	188.92	ug/L		97
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	1810136	96.23	ug/L		99
11) Acetone	6.34	43	166651	104.52	ug/L		92
12) 1,1-Dichloroethene	6.58	96	1580464	104.99	ug/L		91
13) Dimethyl Sulfide	6.85	62	1803316	123.95	ug/L	#	1
14) Iodomethane	7.11	142	1402336	99.53	ug/L		95
15) Methylene Chloride	7.40	84	1529456	93.18	ug/L		85
16) Carbon Disulfide	7.45	76	6618190	116.92	ug/L		100
17) Acrylonitrile	7.59	53	263019	101.03	ug/L		100
18) Methyl Tert Butyl Ether	7.67	73	2393197	109.39	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	1930448	109.40	ug/L		92
20) n-Hexane	8.03	57	3376842	108.90	ug/L		99
21) Vinyl Acetate	8.56	43	1633272	102.87	ug/L		99
22) 1,1-Dichloroethane	8.58	63	3555747	105.85	ug/L		98
23) 2-Butanone	9.21	43	233319	109.01	ug/L		95
24) 2,2-Dichloropropane	9.45	77	3338059	114.78	ug/L		100
25) cis-1,2-Dichloroethene	9.51	96	1891405	109.83	ug/L		89
26) Chloroform	9.75	83	3171037	100.63	ug/L		98
27) Bromochloromethane	10.00	128	717688	106.79	ug/L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D Vial: 15
Acq On : 21 May 2001 20:12 Operator: CMS
Sample : WG97810-09 100 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29)	1,1,1-Trichloroethane	10.36	97	3332060	104.38 ug/L		93
30)	Cyclohexane	10.40	56	3824241	110.96 ug/L		96
31)	1,1-Dichloropropene	10.58	75	2948027	104.87 ug/L		96
32)	Carbon Tetrachloride	10.74	117	3197651	112.70 ug/L		100
34)	1,2-Dichloroethane	10.93	62	1919621	106.25 ug/L	#	75
35)	Benzene	10.98	78	7425371	111.37 ug/L		96
36)	Trichloroethene	11.84	130	2377003	102.92 ug/L		100
37)	1,2-Dichloropropane	12.09	63	1780565	102.63 ug/L		96
38)	Bromodichloromethane	12.42	83	2119160	108.02 ug/L		100
39)	Dibromomethane	12.51	93	645373	107.08 ug/L		95
40)	2-Chloroethyl Vinyl Ether	12.79	63	519699	101.42 ug/L		97
41)	4-Methyl-2-Pentanone	12.84	58	264485	106.08 ug/L		93
42)	cis-1,3-Dichloropropene	13.17	75	2389168	114.83 ug/L		98
43)	Dimethyl Disulfide	13.46	79	1273402	101.55 ug/L		95
46)	Toluene	13.66	91	8761180	102.65 ug/L		99
47)	Ethyl Methacrylate	13.80	69	1147841	112.08 ug/L		100
48)	trans-1,3-Dichloropropene	13.87	75	1921092	115.60 ug/L		98
49)	1,1,2-Trichloroethane	14.11	97	900109	103.17 ug/L		100
50)	2-Hexanone	14.07	43	443679	106.79 ug/L		98
51)	1,3-Dichloropropane	14.47	76	1668372	105.25 ug/L		94
52)	Tetrachloroethene	14.62	164	1903011	103.21 ug/L		98
53)	Dibromochloromethane	14.90	129	1447195	117.13 ug/L		99
54)	1,2-Dibromoethane	15.20	107	975654	110.07 ug/L		100
55)	1-Chlorohexane	15.36	91	3104311	108.64 ug/L		94
56)	Chlorobenzene	15.81	112	5983189	93.62 ug/L		96
57)	1,1,1,2-Tetrachloroethane	15.85	131	1848737	104.33 ug/L		98
58)	Ethylbenzene	15.86	106	3652517	98.49 ug/L		94
59)	m-,p-Xylene	15.97	106	8695701	190.61 ug/L		95
60)	o-Xylene	16.62	106	4306222	107.79 ug/L		94
61)	Styrene	16.66	104	6830555	102.94 ug/L		96
62)	Bromoform	17.21	173	719609	101.90 ug/L		99
63)	Isopropylbenzene	17.13	105	11387835	98.61 ug/L		100
65)	1,1,2,2-Tetrachloroethane	17.37	83	949556	104.74 ug/L		100
67)	1,2,3-Trichloropropane	17.60	110	313285	106.27 ug/L		97
68)	trans-1,4-Dichloro-2-Buten	17.66	53	316516	98.67 ug/L		92
69)	n-Propylbenzene	17.73	91	12573114	97.87 ug/L		98
70)	Bromobenzene	17.85	156	2421450	99.92 ug/L		96
71)	1,3,5-Trimethylbenzene	17.96	105	9765142	111.14 ug/L		99
72)	2-Chlorotoluene	18.03	91	7850961	98.32 ug/L		96
73)	4-Chlorotoluene	18.09	91	7861820	98.45 ug/L		96
74)	a-Methylstyrene	18.42	118	5046221	112.08 ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25838.D Vial: 15
Acq On : 21 May 2001 20:12 Operator: CMS
Sample : WG97810-09 100 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:25 19101 Quant Results File: 8260WTR.RES

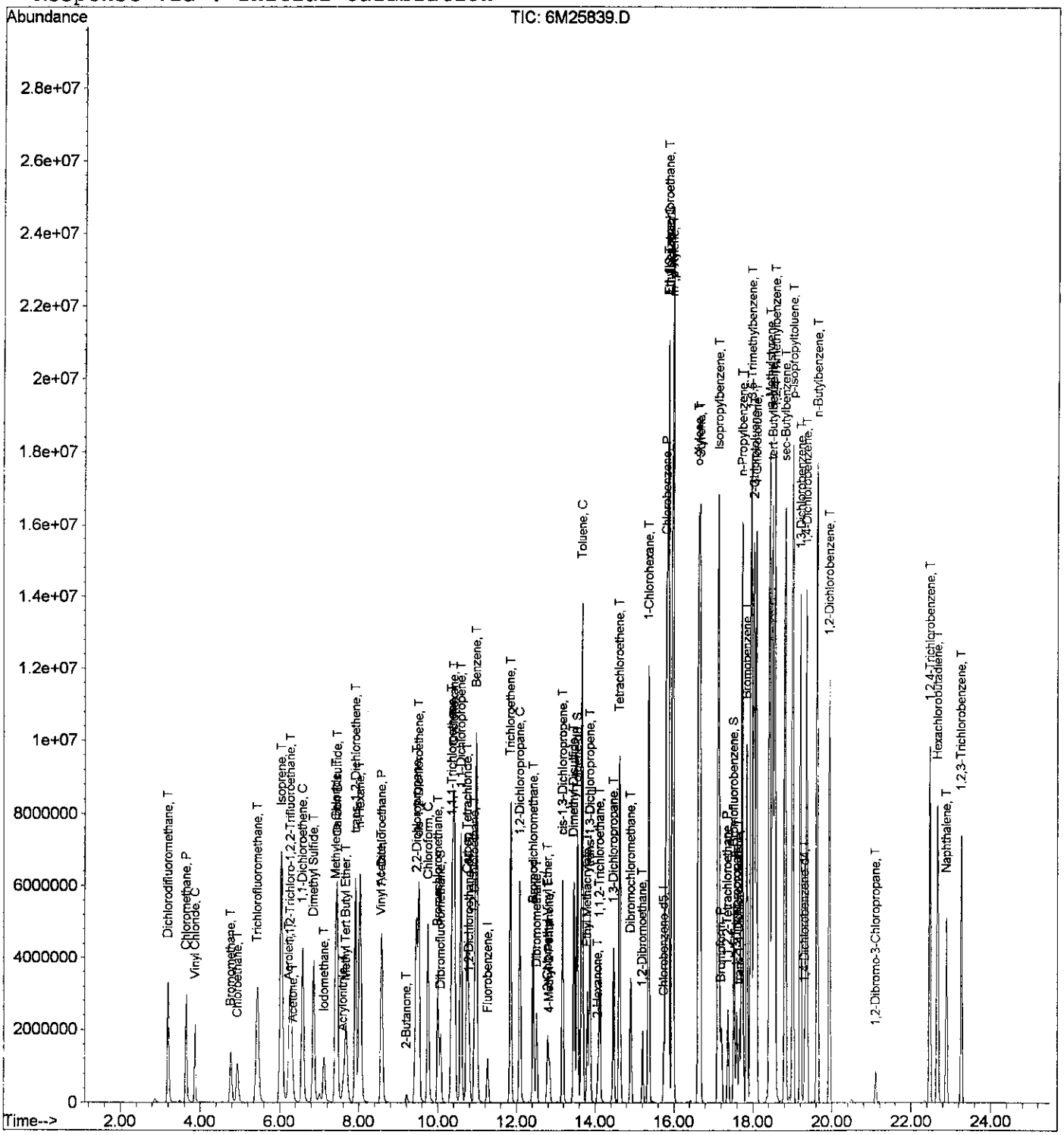
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
75)	tert-Butylbenzene	18.50	119	9055243	97.90	ug/L		100
76)	1,2,4-Trimethylbenzene	18.56	105	9768539	104.05	ug/L		98
77)	sec-Butylbenzene	18.81	105	12035802	97.77	ug/L		100
78)	p-Isopropyltoluene	19.01	119	11013762	98.72	ug/L		100
79)	1,3-Dichlorobenzene	19.21	146	5086502	97.80	ug/L		99
80)	1,4-Dichlorobenzene	19.36	146	4953380	93.30	ug/L		99
81)	n-Butylbenzene	19.63	91	9163736	97.37	ug/L		96
82)	1,2-Dichlorobenzene	19.94	146	4083817	96.97	ug/L		99
83)	1,2-Dibromo-3-Chloropropan	21.11	157	184975	101.58	ug/L		100
84)	1,2,4-Trichlorobenzene	22.47	180	2527862	102.71	ug/L		96
85)	Hexachlorobutadiene	22.66	225	1317346	101.01	ug/L	#	25
86)	Naphthalene	22.89	128	3207163	123.26	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	1869595	100.85	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25838.D 8260WTR.M Thu May 24 15:00:41 2001 Page 3

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1702267	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.76	117	1403703	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	757487	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	1904780	101.79	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 407.16%#				
33) 1,2-Dichloroethane-d4	10.80	65	1510600	96.84	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 387.36%#				
45) Toluene-d8	13.55	98	7771621	95.47	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 381.88%#				
66) p-Bromofluorobenzene	17.52	95	2864788	97.23	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 388.92%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.20	85	5145645	170.27	ug/L		95
3) Chloromethane	3.64	50	4644324	192.45	ug/L		99
4) Vinyl Chloride	3.87	62	2700024	201.21	ug/L		99
5) Bromomethane	4.77	94	1860597	177.93	ug/L		100
6) Chloroethane	4.94	64	2040037	0.91	ug/L		100
7) Trichlorofluoromethane	5.44	101	7109749	207.13	ug/L		100
8) Isoprene	6.03	67	6587330	228.32	ug/L		97
9) Acrolein	6.23	56	223256	408.13	ug/L		94
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	4030573	206.43	ug/L		99
11) Acetone	6.34	43	353888	213.83	ug/L		92
12) 1,1-Dichloroethene	6.58	96	3322033	212.60	ug/L		92
13) Dimethyl Sulfide	6.85	62	3758552	248.89	ug/L	#	1
14) Iodomethane	7.11	142	2988316	201.11	ug/L		94
15) Methylene Chloride	7.41	84	2993731	175.72	ug/L		89
16) Carbon Disulfide	7.45	76	12854472	218.79	ug/L		99
17) Acrylonitrile	7.60	53	547726	200.14	ug/L		99
18) Methyl Tert Butyl Ether	7.67	73	5027680	221.41	ug/L		94
19) trans-1,2-Dichloroethene	7.91	96	3922138	214.14	ug/L		93
20) n-Hexane	8.03	57	6754218	209.86	ug/L		97
21) Vinyl Acetate	8.56	43	3299375	199.12	ug/L		100
22) 1,1-Dichloroethane	8.58	63	7205198	206.64	ug/L		99
23) 2-Butanone	9.21	43	488331	219.82	ug/L		97
24) 2,2-Dichloropropane	9.45	77	6771964	224.34	ug/L		100
25) cis-1,2-Dichloroethene	9.52	96	3850480	215.41	ug/L		90
26) Chloroform	9.75	83	6330820	193.55	ug/L		98
27) Bromochloromethane	10.00	128	1522208	218.22	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M25839.D 8260WTR.M Thu May 24 15:01:12 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	1,1,1-Trichloroethane	10.36	97	6484040	195.70	ug/L		92
30)	Cyclohexane	10.41	56	7745455	216.52	ug/L		96
31)	1,1-Dichloropropene	10.59	75	5724495	196.18	ug/L		97
32)	Carbon Tetrachloride	10.75	117	6298076	213.86	ug/L		100
34)	1,2-Dichloroethane	10.93	62	3817677	203.58	ug/L	#	77
35)	Benzene	10.98	78	13881175	200.58	ug/L		96
36)	Trichloroethene	11.85	130	4587478	191.37	ug/L		100
37)	1,2-Dichloropropane	12.09	63	3546734	196.95	ug/L		95
38)	Bromodichloromethane	12.43	83	4232501	207.85	ug/L		99
39)	Dibromomethane	12.51	93	1318484	210.77	ug/L		96
40)	2-Chloroethyl Vinyl Ether	12.79	63	1070182	199.73	ug/L		98
41)	4-Methyl-2-Pentanone	12.83	58	535411	206.88	ug/L		94
42)	cis-1,3-Dichloropropene	13.17	75	4771795	220.96	ug/L		98
43)	Dimethyl Disulfide	13.46	79	2636047	199.83	ug/L		95
46)	Toluene	13.67	91	15657407	178.63	ug/L		97
47)	Ethyl Methacrylate	13.80	69	2277607	216.56	ug/L		100
48)	trans-1,3-Dichloropropene	13.87	75	3804057	222.88	ug/L		98
49)	1,1,2-Trichloroethane	14.12	97	1789203	199.69	ug/L		99
50)	2-Hexanone	14.07	43	894185	209.56	ug/L		97
51)	1,3-Dichloropropane	14.47	76	3329660	204.53	ug/L		96
52)	Tetrachloroethene	14.62	164	3562611	188.14	ug/L		98
53)	Dibromochloromethane	14.91	129	2882149	227.15	ug/L		100
54)	1,2-Dibromoethane	15.21	107	1960207	215.34	ug/L		100
55)	1-Chlorohexane	15.36	91	6066429	206.72	ug/L		96
56)	Chlorobenzene	15.81	112	10742099	163.67	ug/L		97
57)	1,1,1,2-Tetrachloroethane	15.85	131	3250884	178.63	ug/L		97
58)	Ethylbenzene	15.86	106	6512099	170.99	ug/L		82
59)	m-,p-Xylene	15.97	106	14160805	302.24	ug/L		83
60)	o-Xylene	16.62	106	7891967	192.35	ug/L		88
61)	Styrene	16.66	104	12099896	177.55	ug/L		98
62)	Bromoform	17.21	173	1458100	199.63	ug/L		100
63)	Isopropylbenzene	17.13	105	19006283	160.25	ug/L		94
65)	1,1,2,2-Tetrachloroethane	17.37	83	1933224	209.62	ug/L		99
67)	1,2,3-Trichloropropane	17.60	110	636296	212.18	ug/L		95
68)	trans-1,4-Dichloro-2-Buten	17.66	53	669717	201.56	ug/L		92
69)	n-Propylbenzene	17.73	91	20277716m	155.17	ug/L		
70)	Bromobenzene	17.85	156	4477125	181.62	ug/L		96
71)	1,3,5-Trimethylbenzene	17.96	105	16569412	185.39	ug/L		94
72)	2-Chlorotoluene	18.03	91	13925915	171.45	ug/L		94
73)	4-Chlorotoluene	18.10	91	13168697	162.11	ug/L		93
74)	a-Methylstyrene	18.42	118	9289431	202.83	ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25839.D 8260WTR.M Thu May 24 15:01:16 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 14:37 19101 Quant Results File: 8260WTR.RES

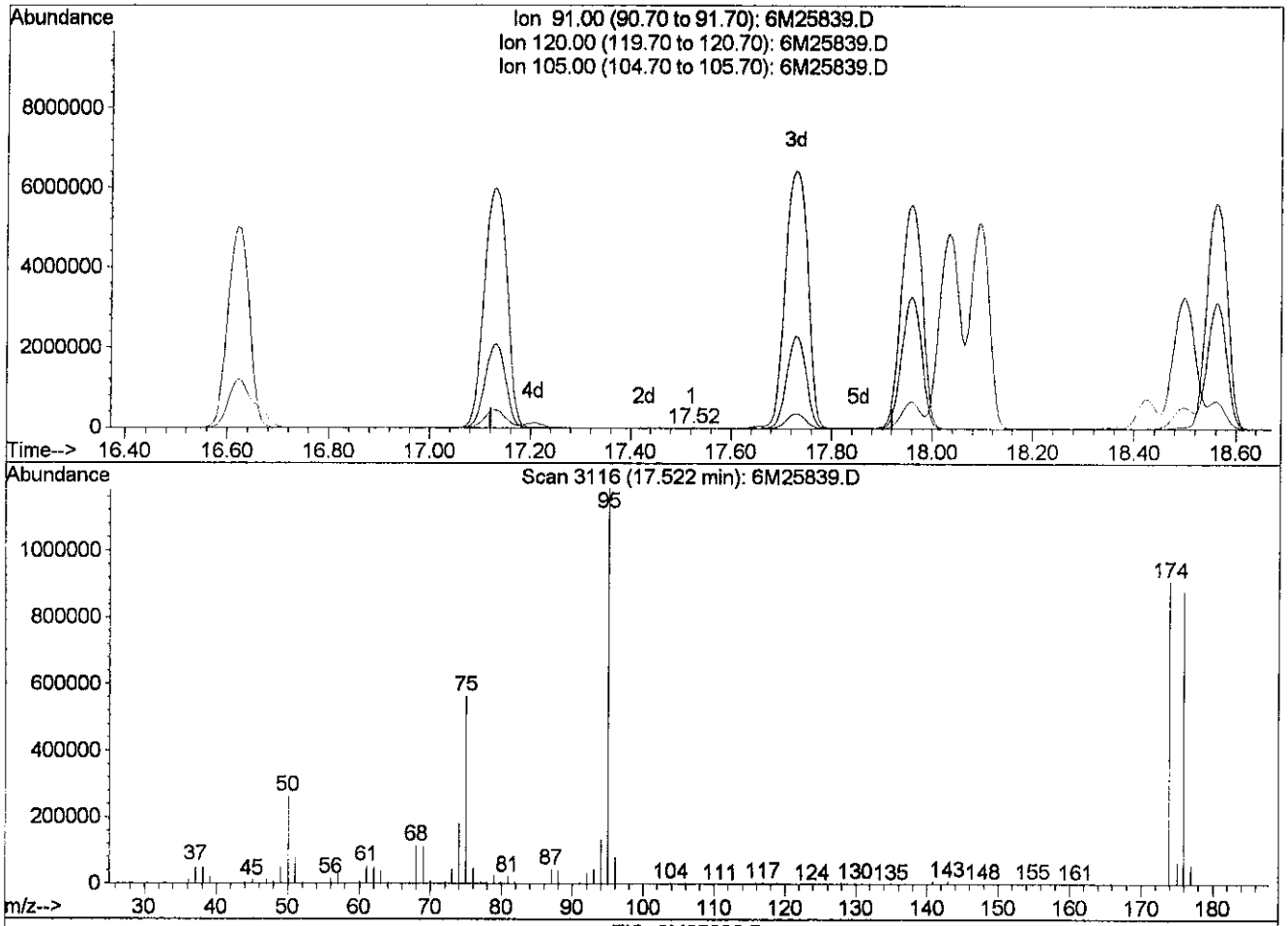
Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
75)	tert-Butylbenzene	18.50	119	15527544	165.04 ug/L		97
76)	1,2,4-Trimethylbenzene	18.56	105	16318669	170.88 ug/L		94
77)	sec-Butylbenzene	18.82	105	19840457	158.43 ug/L		95
78)	p-Isopropyltoluene	19.01	119	18011306	158.70 ug/L		95
79)	1,3-Dichlorobenzene	19.21	146	9105411	172.11 ug/L		96
80)	1,4-Dichlorobenzene	19.37	146	8807110	163.08 ug/L		96
81)	n-Butylbenzene	19.63	91	15595873	162.90 ug/L		92
82)	1,2-Dichlorobenzene	19.94	146	7487229	174.78 ug/L		97
83)	1,2-Dibromo-3-Chloropropan	21.11	157	373225	199.74 ug/L		98
84)	1,2,4-Trichlorobenzene	22.47	180	4616497	184.40 ug/L		96
85)	Hexachlorobutadiene	22.67	225	2463304	185.68 ug/L	#	25
86)	Naphthalene	22.89	128	6048088	228.51 ug/L	#	89
87)	1,2,3-Trichlorobenzene	23.26	180	3470306	184.02 ug/L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:34:10 2001
Response via : Multiple Level Calibration



TIC: 6M25839.D

(69) n-Propylbenzene (T)

17.52min 0.08ug/L

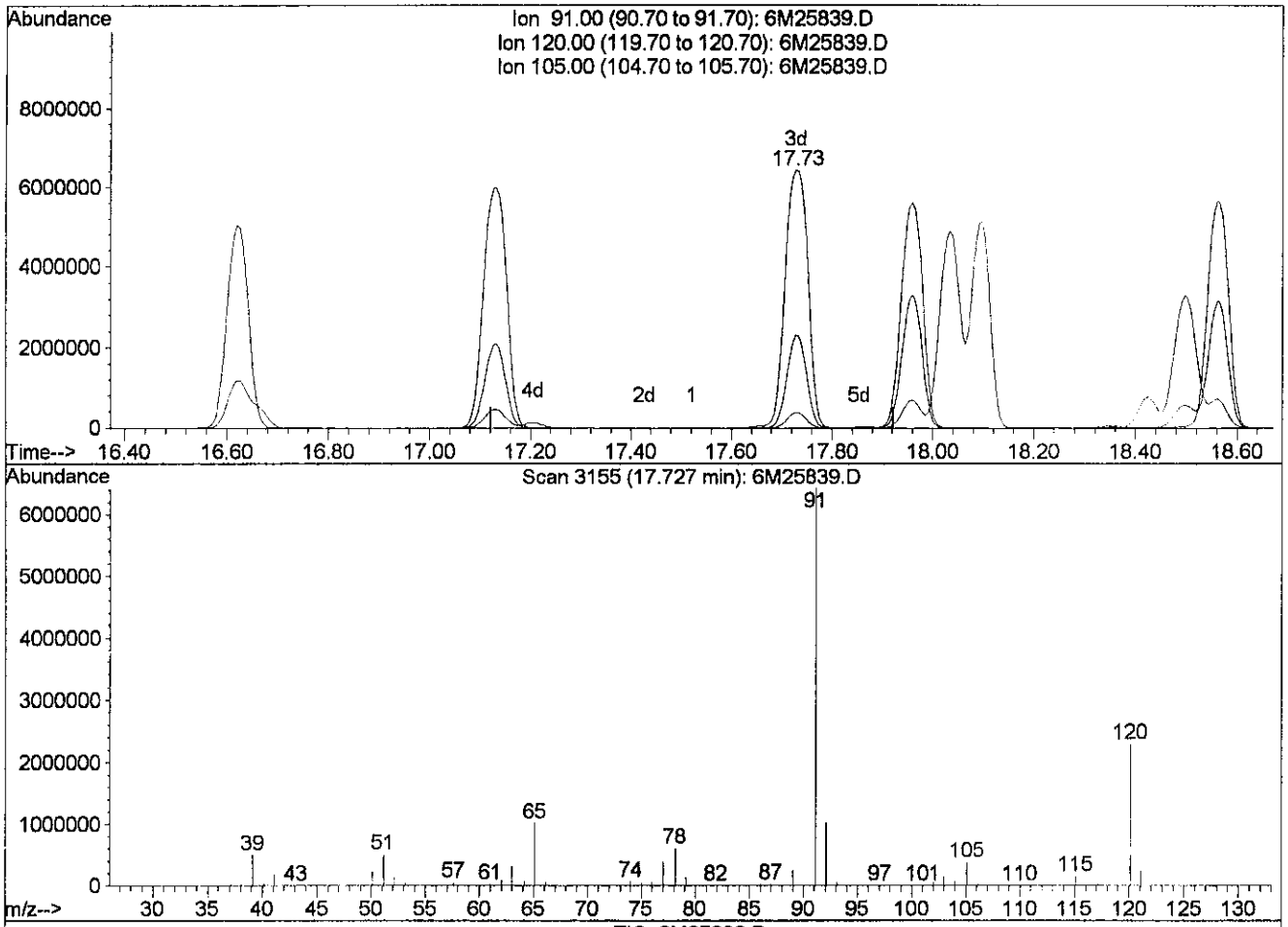
response 10106

Ion	Exp%	Act%
91.00	100	100
120.00	25.80	0.00#
105.00	4.20	41.85#
0.00	0.00	0.00

6M25839.D 8260WTR.M Thu May 24 14:37:32 2001

Data File : C:\HPCHEM\1\DATA\052101\6M25839.D Vial: 16
Acq On : 21 May 2001 20:46 Operator: CMS
Sample : WG97810-10 200 PPB STD Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
[illegible] Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 14:34:10 2001
Response via : Multiple Level Calibration



TIC: 6M25839.D

(69) n-Propylbenzene (T)

17.73min 155.17ug/L m

response 20277716

Ion	Exp%	Act%
91.00	100	100
120.00	25.80	0.00#
105.00	4.20	0.02#
0.00	0.00	0.00

5-24-01 cms

cms 5/24/01

6M25839.D 8260WTR.M Thu May 24 14:37:40 2001

265

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.444	0.340	23.4#	83	0.00
3	P	Chloromethane	0.378	0.349	7.7	104	0.00
4	C	Vinyl Chloride	0.295	0.240	18.6	84	0.00
5	T	Bromomethane	0.154	0.135	12.3	97	0.00
6	T	Chloroethane	0.180	0.169	6.1	104	0.00
7	T	Trichlorofluoromethane	0.502	0.484	3.6	100	0.00
8	T	Isoprene	0.422	0.000	100.0#	0#	-6.03#
9	T	Acrolein	0.006	0.000	100.0#	0#	-6.23#
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.287	0.000	100.0#	0#	-6.27#
11	T	Acetone	0.024	0.017	29.2#	76	0.00
12	C	1,1-Dichloroethene	0.229	0.230	-0.4	110	0.00
13	T	Dimethyl Sulfide	0.233	0.033	85.8#	15#	-0.28
14	T	Iodomethane	0.180	0.258	-43.3#	153	0.00
15	T	Methylene Chloride	0.248	0.235	5.2	110	0.00
16	T	Carbon Disulfide	0.962	0.634	34.1#	74	0.00
17	T	Acrylonitrile	0.034	0.004	88.2#	14#	0.08
18	T	Methyl Tert Butyl Ether	0.333	0.341	-2.4	107	0.00
19	T	trans-1,2-Dichloroethene	0.268	0.274	-2.2	108	0.00
20	T	n-Hexane	0.470	0.508	-8.1	106	0.00
21	T	Vinyl Acetate	0.207	0.155	25.1#	78	0.00
22	P	1,1-Dichloroethane	0.509	0.502	1.4	105	0.00
23	T	2-Butanone	0.033	0.028	15.2	98	0.00
24	T	2,2-Dichloropropane	0.443	0.441	0.5	105	0.00
25	T	cis-1,2-Dichloroethene	0.261	0.266	-1.9	104	0.00
26	C	Chloroform	0.477	0.468	1.9	106	0.00
27	T	Bromochloromethane	0.102	0.100	2.0	106	0.00
28	S	Dibromofluoromethane	0.275	0.617	-124.4#	244#	0.00
29	T	1,1,1-Trichloroethane	0.487	0.482	1.0	105	0.00
30	T	Cyclohexane	0.523	0.001	99.8#	0#	0.02
31	T	1,1-Dichloropropene	0.429	0.414	3.5	100	0.00
32	T	Carbon Tetrachloride	0.433	0.446	-3.0	105	0.00
33	S	1,2-Dichloroethane-d4	0.229	0.494	-115.7#	233#	0.00
34	T	1,2-Dichloroethane	0.289	0.270	6.6	99	0.00
35	T	Benzene	1.105	1.159	-4.9	106	0.00
36	T	Trichloroethene	0.350	0.363	-3.7	107	0.00
37	C	1,2-Dichloropropane	0.263	0.251	4.6	101	0.00
38	T	Bromodichloromethane	0.297	0.305	-2.7	104	0.00
39	T	Dibromomethane	0.091	0.090	1.1	100	0.00
40	T	2-Chloroethyl Vinyl Ether	0.069	0.061	11.6	91	0.00
41	T	4-Methyl-2-Pentanone	0.038	0.031	18.4	90	0.00

(#) = Out of Range
6M25843.D 8260WTR.M Thu May 24 15:02:41 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.316	0.344	-8.9	106	0.00
43	T	Dimethyl Disulfide	0.150	0.000	-100.0#	0#	-13.46#
44	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
45	S	Toluene-d8	1.450	3.594	-147.9#	254#	0.00
46	C	Toluene	1.551	1.706	-10.0	106	0.00
47	T	Ethyl Methacrylate	0.187	0.004	-97.9#	2#	-0.25
48	T	trans-1,3-Dichloropropene	0.303	0.323	-6.6	103	0.00
49	T	1,1,2-Trichloroethane	0.158	0.159	-0.6	103	0.00
50	T	2-Hexanone	0.076	0.058	23.7#	80	0.00
51	T	1,3-Dichloropropane	0.288	0.286	0.7	101	0.00
52	T	Tetrachloroethene	0.335	0.360	-7.5	107	0.00
53	T	Dibromochloromethane	0.226	0.229	-1.3	100	0.00
54	T	1,2-Dibromoethane	0.161	0.166	-3.1	103	0.00
55	T	1-Chlorohexane	0.523	0.581	-11.1	107	0.00
56	P	Chlorobenzene	1.159	1.152	0.6	105	0.00
57	T	1,1,1,2-Tetrachloroethane	0.322	0.346	-7.5	103	0.00
58	C	Ethylbenzene	0.674	0.697	-3.4	104	0.00
59	T	m-,p-Xylene	0.829	0.873	-5.3	104	0.00
60	T	o-Xylene	0.753	0.820	-8.9	105	0.00
61	T	Styrene	1.207	1.298	-7.5	103	0.00
62	P	Bromoform	0.107	0.105	1.9	97	0.00
63	T	Isopropylbenzene	2.112	2.159	-2.2	100	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
65	P	1,1,2,2-Tetrachloroethane	0.304	0.293#	3.6	99	0.00
66	S	p-Bromofluorobenzene	0.972	2.444	-151.4#	255#	0.00
67	T	1,2,3-Trichloropropane	0.099	0.098	1.0	102	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.088	0.027	-69.3#	31#	0.06
69	T	n-Propylbenzene	4.313	4.813	-11.6	106	0.00
70	T	Bromobenzene	0.816	0.833	-2.1	102	0.00
71	T	1,3,5-Trimethylbenzene	3.186	3.622	-13.7	106	0.00
72	T	2-Chlorotoluene	2.687	2.913	-8.4	106	0.00
73	T	4-Chlorotoluene	2.687	2.781	-3.5	100	0.00
74	T	a-Methylstyrene	1.515	0.002	-99.9#	0#	0.00
75	T	tert-Butylbenzene	3.105	3.257	-4.9	104	0.00
76	T	1,2,4-Trimethylbenzene	3.441	3.697	-7.4	106	0.00
77	T	sec-Butylbenzene	4.133	4.421	-7.0	103	0.00
78	T	p-Isopropyltoluene	3.746	3.957	-5.6	101	0.00
79	T	1,3-Dichlorobenzene	1.750	1.798	-2.7	103	0.00
80	T	1,4-Dichlorobenzene	1.787	1.755	1.8	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.160	3.411	-7.9	106	0.00
82	T	1,2-Dichlorobenzene	1.417	1.424	-0.5	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.053	0.052	1.9	100	0.00
84	T	1,2,4-Trichlorobenzene	0.828	0.871	-5.2	103	0.00
85	T	Hexachlorobutadiene	0.439	0.472	-7.5	108	0.00
86	T	Naphthalene	0.947	1.038	-9.6	100	0.00
87	T	1,2,3-Trichlorobenzene	0.624	0.641	-2.7	101	0.00

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	20.000	15.299	23.5#	83	0.00
3	P	Chloromethane	20.000	18.476	7.6	104	0.00
4	C	Vinyl Chloride	20.000	18.727	6.4	84	0.00
5	T	Bromomethane	20.000	17.551	12.2	97	0.00
6	T	Chloroethane	20.000	18.879	5.6	104	0.00
7	T	Trichlorofluoromethane	20.000	19.310	3.5	100	0.00
8	T	Isoprene	20.000	0.000	-100.0#	0	-6.03#
9	T	Acrolein	40.000	0.000	-100.0#	0	-6.23#
10	T	1,1,2-Trichloro-1,2,2-Trifl	20.000	0.000	-100.0#	0	-6.27#
11	T	Acetone	20.000	13.976	30.1#	76	0.00
12	C	1,1-Dichloroethene	20.000	20.067	-0.3	110	0.00
13	T	Dimethyl Sulfide	20.000	2.849	-85.8#	15	-0.28
14	T	Iodomethane	20.000	26.386	-31.9#	153	0.00
15	T	Methylene Chloride	20.000	18.959	5.2	110	0.00
16	T	Carbon Disulfide	20.000	13.182	34.1#	74	0.00
17	T	Acrylonitrile	20.000	4.610	77.0#	14	0.08
18	T	Methyl Tert Butyl Ether	20.000	20.429	-2.1	107	0.00
19	T	trans-1,2-Dichloroethene	20.000	20.465	-2.3	108	0.00
20	T	n-Hexane	20.000	21.585	-7.9	106	0.00
21	T	Vinyl Acetate	20.000	13.803	31.0#	78	0.00
22	P	1,1-Dichloroethane	20.000	19.739	1.3	105	0.00
23	T	2-Butanone	20.000	17.401	13.0	98	0.00
24	T	2,2-Dichloropropane	20.000	19.883	0.6	105	0.00
25	T	cis-1,2-Dichloroethene	20.000	20.407	-2.0	104	0.00
26	C	Chloroform	20.000	19.598	2.0	106	0.00
27	T	Bromochloromethane	20.000	19.587	2.1	106	0.00
28	S	Dibromofluoromethane	10.000	22.459	-124.6#	244	0.00
29	T	1,1,1-Trichloroethane	20.000	19.808	1.0	105	0.00
30	T	Cyclohexane	20.000	0.056	-99.7#	0	0.02
31	T	1,1-Dichloropropene	20.000	19.321	3.4	100	0.00
32	T	Carbon Tetrachloride	20.000	20.630	-3.1	105	0.00
33	S	1,2-Dichloroethane-d4	10.000	21.556	-115.6#	233	0.00
34	T	1,2-Dichloroethane	20.000	18.683	6.6	99	0.00
35	T	Benzene	20.000	20.968	-4.8	106	0.00
36	T	Trichloroethene	20.000	20.729	-3.6	107	0.00
37	C	1,2-Dichloropropane	20.000	19.129	4.4	101	0.00
38	T	Bromodichloromethane	20.000	20.481	-2.4	104	0.00
39	T	Dibromomethane	20.000	19.697	1.5	100	0.00
40	T	2-Chloroethyl Vinyl Ether	20.000	17.014	14.9	91	0.00
41	T	4-Methyl-2-Pentanone	20.000	16.545	17.3	90	0.00

(#) = Out of Range
6M25843.D 8260WTR.M Thu May 24 15:03:06 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	20.000	21.812	-9.1	106	0.00
43	T	Dimethyl Disulfide	20.000	0.000	-100.0#	0	-13.46#
44	I	Chlorobenzene-d5	25.000	25.000	0.0	103	0.00
45	S	Toluene-d8	10.000	24.786	-147.9#	254	0.00
46	C	Toluene	20.000	21.991	-10.0	106	0.00
47	T	Ethyl Methacrylate	20.000	0.394	-98.0#	2	-0.25
48	T	trans-1,3-Dichloropropene	20.000	21.282	-6.4	103	0.00
49	T	1,1,2-Trichloroethane	20.000	20.029	-0.1	103	0.00
50	T	2-Hexanone	20.000	15.323	23.4#	80	0.00
51	T	1,3-Dichloropropane	20.000	19.886	0.6	101	0.00
52	T	Tetrachloroethene	20.000	21.470	-7.3	107	0.00
53	T	Dibromochloromethane	20.000	20.285	-1.4	100	0.00
54	T	1,2-Dibromoethane	20.000	20.585	-2.9	103	0.00
55	T	1-Chlorohexane	20.000	22.247	-11.2	107	0.00
56	P	Chlorobenzene	20.000	19.865	0.7	105	0.00
57	T	1,1,1,2-Tetrachloroethane	20.000	21.472	-7.4	103	0.00
58	C	Ethylbenzene	20.000	20.689	-3.4	104	0.00
59	T	m-,p-Xylene	40.000	42.123	-5.3	104	0.00
60	T	o-Xylene	20.000	21.771	-8.9	105	0.00
61	T	Styrene	20.000	21.515	-7.6	103	0.00
62	P	Bromoform	20.000	17.462	12.7	97	0.00
63	T	Isopropylbenzene	20.000	20.443	-2.2	100	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	102	0.00
65	P	1,1,2,2-Tetrachloroethane	20.000	19.258	3.7	99	0.00
66	S	p-Bromofluorobenzene	10.000	25.137	-151.4#	255	0.00
67	T	1,2,3-Trichloropropane	20.000	19.878	0.6	102	0.00
68	T	trans-1,4-Dichloro-2-Butene	20.000	8.288	-58.6#	31	0.06
69	T	n-Propylbenzene	20.000	22.318	-11.6	106	0.00
70	T	Bromobenzene	20.000	20.422	-2.1	102	0.00
71	T	1,3,5-Trimethylbenzene	20.000	22.738	-13.7	106	0.00
72	T	2-Chlorotoluene	20.000	21.687	-8.4	106	0.00
73	T	4-Chlorotoluene	20.000	20.701	-3.5	100	0.00
74	T	a-Methylstyrene	20.000	0.027	-99.9#	0	0.00
75	T	tert-Butylbenzene	20.000	20.979	-4.9	104	0.00
76	T	1,2,4-Trimethylbenzene	20.000	21.490	-7.4	106	0.00
77	T	sec-Butylbenzene	20.000	21.392	-7.0	103	0.00
78	T	p-Isopropyltoluene	20.000	21.130	-5.6	101	0.00
79	T	1,3-Dichlorobenzene	20.000	20.548	-2.7	103	0.00
80	T	1,4-Dichlorobenzene	20.000	19.636	1.8	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p

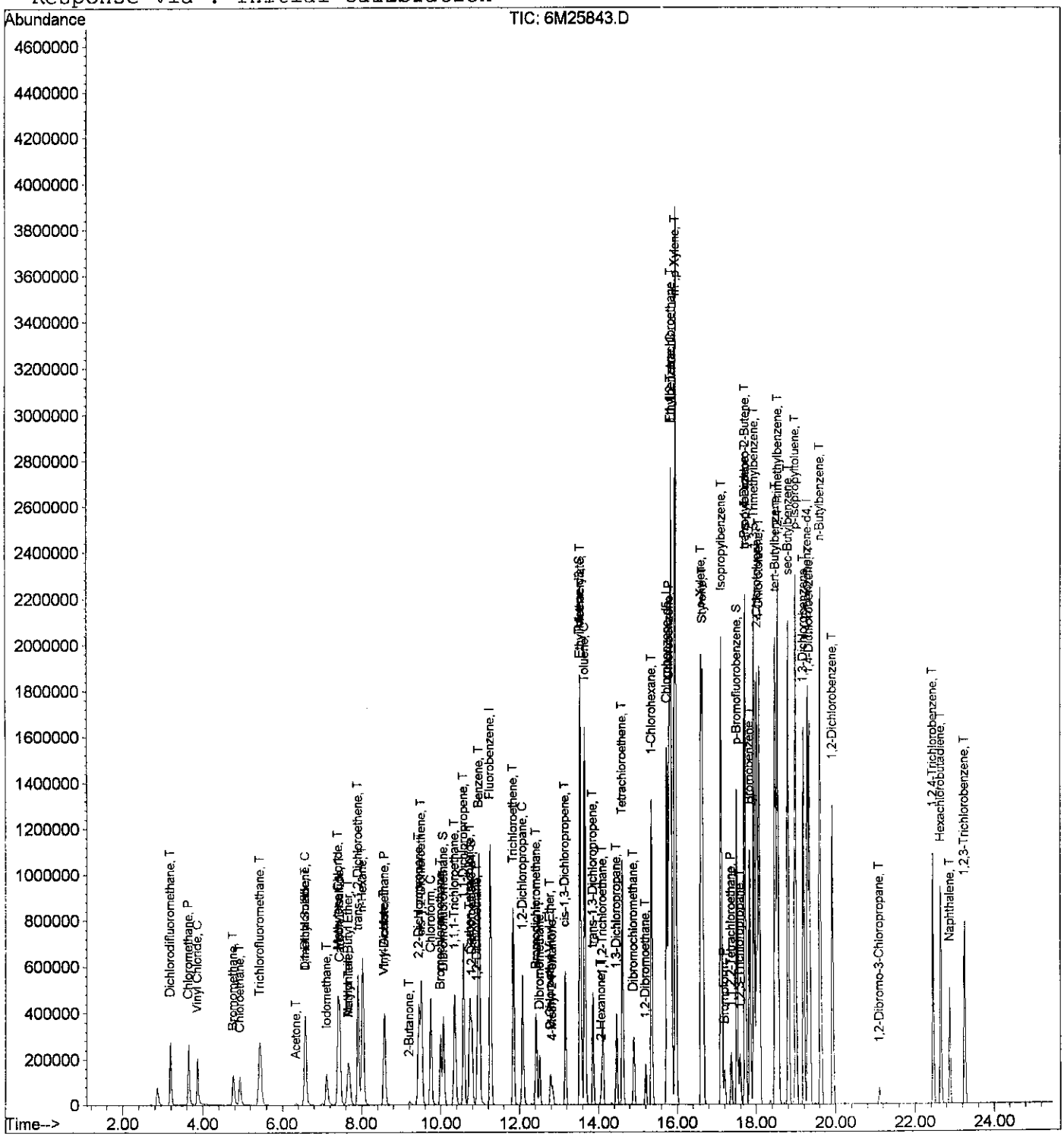
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	20.000	21.591	-8.0	106	0.00
82	T	1,2-Dichlorobenzene	20.000	20.094	-0.5	103	0.00
83	T	1,2-Dibromo-3-Chloropropane	20.000	18.615	6.9	100	0.00
84	T	1,2,4-Trichlorobenzene	20.000	21.037	-5.2	103	0.00
85	T	Hexachlorobutadiene	20.000	21.528	-7.6	108	0.00
86	T	Naphthalene	20.000	21.917	-9.6	100	0.00
87	T	1,2,3-Trichlorobenzene	20.000	20.537	-2.7	101	0.00

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1560592	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1312238	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	707058	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	385281	22.46	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 89.84%				
33) 1,2-Dichloroethane-d4	10.79	65	308282	21.56	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 86.24%				
45) Toluene-d8	13.55	98	1886281	24.79	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.16%				
66) p-Bromofluorobenzene	17.52	95	691329	25.14	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.56%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	423881	15.30	ug/L		96
3) Chloromethane	3.64	50	435710	18.48	ug/L		100
4) Vinyl Chloride	3.87	62	299445	18.73	ug/L		100
5) Bromomethane	4.77	94	168251	17.55	ug/L		100
6) Chloroethane	4.94	64	211590	18.88	ug/L		100
7) Trichlorofluoromethane	5.44	101	604550	19.31	ug/L		99
11) Acetone	6.34	43	21205	13.98	ug/L		98
12) 1,1-Dichloroethene	6.58	96	287457	20.07	ug/L		89
13) Dimethyl Sulfide	6.58	62	41396	2.85	ug/L	#	1
14) Iodomethane	7.11	142	322513	26.39	ug/L		93
15) Methylene Chloride	7.40	84	293833	18.96	ug/L		85
16) Carbon Disulfide	7.45	76	791955	13.18	ug/L		99
17) Acrylonitrile	7.67	53	5274	4.61	ug/L	#	12
18) Methyl Tert Butyl Ether	7.67	73	425273	20.43	ug/L		96
19) trans-1,2-Dichloroethene	7.91	96	341898	20.47	ug/L		91
20) n-Hexane	8.03	57	633739	21.58	ug/L		99
21) Vinyl Acetate	8.56	43	193204	13.80	ug/L		98
22) 1,1-Dichloroethane	8.59	63	627311	19.74	ug/L		97
23) 2-Butanone	9.21	43	35440	17.40	ug/L		93
24) 2,2-Dichloropropane	9.45	77	550250	19.88	ug/L		100
25) cis-1,2-Dichloroethene	9.51	96	332605	20.41	ug/L		91
26) Chloroform	9.75	83	583841	19.60	ug/L		99
27) Bromochloromethane	10.00	128	125264	19.59	ug/L		97
29) 1,1,1-Trichloroethane	10.36	97	601667	19.81	ug/L		93
31) 1,1-Dichloropropene	10.58	75	516848	19.32	ug/L		96
32) Carbon Tetrachloride	10.74	117	556968	20.63	ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34)	1,2-Dichloroethane	10.93	62	336870	18.68 ug/L	#	74
35)	Benzene	10.98	78	1446786	20.97 ug/L		97
36)	Trichloroethene	11.85	130	453163	20.73 ug/L		100
37)	1,2-Dichloropropane	12.08	63	313794	19.13 ug/L		97
38)	Bromodichloromethane	12.42	83	380263	20.48 ug/L		99
39)	Dibromomethane	12.51	93	112435	19.70 ug/L		95
40)	2-Chloroethyl Vinyl Ether	12.79	63	76735	17.01 ug/L		98
41)	4-Methyl-2-Pentanone	12.84	58	39255	16.55 ug/L		92
42)	cis-1,3-Dichloropropene	13.17	75	429672	21.81 ug/L		98
46)	Toluene	13.66	91	1790841	21.99 ug/L		97
47)	Ethyl Methacrylate	13.56	69	3873	0.39 ug/L	#	1
48)	trans-1,3-Dichloropropene	13.87	75	339031	21.28 ug/L		99
49)	1,1,2-Trichloroethane	14.12	97	166499	20.03 ug/L		100
50)	2-Hexanone	14.07	43	61122	15.32 ug/L		99
51)	1,3-Dichloropropane	14.47	76	300320	19.89 ug/L		94
52)	Tetrachloroethene	14.62	164	377984	21.47 ug/L		97
53)	Dibromochloromethane	14.90	129	240616	20.28 ug/L		99
54)	1,2-Dibromoethane	15.20	107	174023	20.58 ug/L		100
55)	1-Chlorohexane	15.36	91	610345	22.25 ug/L		93
56)	Chlorobenzene	15.80	112	1208928	19.87 ug/L		96
57)	1,1,1,2-Tetrachloroethane	15.85	131	362934	21.47 ug/L		96
58)	Ethylbenzene	15.85	106	732041	20.69 ug/L		97
59)	m-,p-Xylene	15.96	106	1832945	42.12 ug/L		94
60)	o-Xylene	16.62	106	860713	21.77 ug/L		99
61)	Styrene	16.66	104	1362626	21.52 ug/L		96
62)	Bromoform	17.21	173	110141	17.46 ug/L		100
63)	Isopropylbenzene	17.13	105	2266602	20.44 ug/L		97
65)	1,1,2,2-Tetrachloroethane	17.37	83	165783	19.26 ug/L		99
67)	1,2,3-Trichloropropane	17.59	110	55644	19.88 ug/L	#	92
68)	trans-1,4-Dichloro-2-Buten	17.72	53	15415	8.29 ug/L	#	1
69)	n-Propylbenzene	17.72	91	2722342	22.32 ug/L		99
70)	Bromobenzene	17.84	156	471081	20.42 ug/L		97
71)	1,3,5-Trimethylbenzene	17.96	105	2048730	22.74 ug/L		99
72)	2-Chlorotoluene	18.03	91	1647910	21.69 ug/L		98
73)	4-Chlorotoluene	18.09	91	1573324	20.70 ug/L		99
75)	tert-Butylbenzene	18.49	119	1842382	20.98 ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	2091267	21.49 ug/L		98
77)	sec-Butylbenzene	18.81	105	2500561	21.39 ug/L		98
78)	p-Isopropyltoluene	19.00	119	2238403	21.13 ug/L		97
79)	1,3-Dichlorobenzene	19.20	146	1017259	20.55 ug/L		99
80)	1,4-Dichlorobenzene	19.36	146	992537	19.64 ug/L		99

(#) = qualifier out of range (m) = manual integration
6M25843.D 8260WTR.M Thu May 24 15:02:05 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052101\6M25843.D Vial: 20
Acq On : 21 May 2001 23:58 Operator: CMS
Sample : WG97810-11 20PPB ALT SOURCE Inst : HPMS6
Misc : 1,1 SV7925 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 15:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : M8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	n-Butylbenzene	19.63	91	1929440	21.59	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	805565	20.09	ug/L		99
83)	1,2-Dibromo-3-Chloropropan	21.11	157	29640	18.61	ug/L		99
84)	1,2,4-Trichlorobenzene	22.47	180	492792	21.04	ug/L		96
85)	Hexachlorobutadiene	22.66	225	267136	21.53	ug/L	#	25
86)	Naphthalene	22.89	128	587311	21.92	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	362403	20.54	ug/L		96

(#) = qualifier out of range (m) = manual integration

Ical Date:	5/11/01	Ical Filename:	9M15561.D	Instrument:	HPMS_9
CCV Date:	5/23/01	CCV Filename:	9M15737.D		

	Fluorbenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Ret. Time	Response	Ret. Time	Response	Ret. Time	Response
Ical	9.92	1144542	13.78	788685	16.77	476161
CCV	9.92	785618	13.78	660681	16.78	442638
	Pass	Pass	Pass	Pass	Pass	Pass

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	69	0.01
2	T	Dichlorodifluoromethane	0.614	0.503	18.1	58	-0.01
3	P	Chloromethane	0.320	0.294 ✓	8.1	71	-0.02
4	C	Vinyl Chloride	0.255	0.221	✓13.3	66	0.00
5	T	Bromomethane	0.145	0.129	11.0	63	0.00
6	T	Chloroethane	0.140	0.137	2.1	70	0.00
7	T	Trichlorofluoromethane	0.766	0.686	10.4	67	0.00
8	T	Isoprene	0.368	0.507	-37.8#	90	0.01
9	T	Acrolein	0.025	0.015	40.0#	39#	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.339	0.316	6.8	65	0.00
11	T	Acetone	0.080	0.075	6.3	73	0.02
12	C	1,1-Dichloroethene	0.261	0.280	✓-7.3	71	0.00
13	T	Dimethyl Sulfide	0.196	0.288	-46.9#	92	0.02
14	T	Iodomethane	0.169	0.251	-48.5#	99	0.01
15	T	Methylene Chloride	0.276	0.262	5.1	71	0.01
16	T	Carbon Disulfide	0.944	1.109	-17.5	81	0.01
17	T	Acrylonitrile	0.058	0.067	-15.5	79	0.02
18	T	Methyl Tert Butyl Ether	0.560	0.630	-12.5	71	0.03
19	T	trans-1,2-Dichloroethene	0.297	0.317	-6.7	70	0.02
20	T	n-Hexane	0.442	0.535	-21.0	77	0.01
21	T	Vinyl Acetate	0.292	0.345	-18.2	68	0.02
22	P	1,1-Dichloroethane	0.574	0.602 ✓	-4.9	72	0.01
23	T	2-Butanone	0.074	0.086	-16.2	73	0.03
24	T	2,2-Dichloropropane	0.550	0.586	-6.5	71	0.01
25	T	cis-1,2-Dichloroethene	0.281	0.315	-12.1	71	0.01
26	C	Chloroform	0.599	0.608	✓-1.5	72	0.02
27	T	Bromochloromethane	0.116	0.121	-4.3	71	0.02
28	S	Dibromofluoromethane	0.310	0.295	4.8	70	0.02
29	T	1,1,1-Trichloroethane	0.629	0.628	0.2	69	0.02
30	T	Cyclohexane	0.486	0.538	-10.7	71	0.01
31	T	1,1-Dichloropropene	0.422	0.486	-15.2	70	0.01
32	T	Carbon Tetrachloride	0.542	0.552	-1.8	70	0.02
33	S	1,2-Dichloroethane-d4	0.376	0.359	4.5	69	0.02
34	T	1,2-Dichloroethane	0.456	0.466	-2.2	72	0.01
35	T	Benzene	1.074	1.209	-12.6	73	0.02
36	T	Trichloroethene	0.278	0.305	-9.7	71	0.02
37	C	1,2-Dichloropropane	0.255	0.279	✓-9.4	72	0.01
38	T	Bromodichloromethane	0.407	0.428	-5.2	71	0.01
39	T	Dibromomethane	0.151	0.162	-7.3	76	0.02
40	T	2-Chloroethyl Vinyl Ether	0.063	0.085	-34.9#	77	0.01
41	T	4-Methyl-2-Pentanone	0.063	0.089	-41.3#	85	0.02

(#) = Out of Range
9M15737.D 8260SOIL.M Wed May 23 16:06:33 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.374	0.435	-16.3	71	0.02
43	T	Dimethyl Disulfide	0.194	0.242	-24.7	74	0.02
44	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.01
45	S	Toluene-d8	1.509	1.464	3.0	79	0.01
46	C	Toluene	1.609	1.754	✓-9.0	82	0.01
47	T	Ethyl Methacrylate	0.324	0.355	-9.6	85	0.00
48	T	trans-1,3-Dichloropropene	0.526	0.515	2.1	73	0.01
49	T	1,1,2-Trichloroethane	0.282	0.264	6.4	74	0.01
50	T	2-Hexanone	0.181	0.203	-12.2	90	0.01
51	T	1,3-Dichloropropane	0.479	0.452	5.6	74	0.01
52	T	Tetrachloroethene	0.345	0.339	1.7	77	0.01
53	T	Dibromochloromethane	0.357	0.339	5.0	75	0.00
54	T	1,2-Dibromoethane	0.256	0.240	6.3	75	0.01
55	T	1-Chlorohexane	0.520	0.602	-15.8	83	0.00
56	P	Chlorobenzene	1.113	1.110✓	0.3	84	0.01
57	T	1,1,1,2-Tetrachloroethane	0.398	0.370	7.0	76	0.01
58	C	Ethylbenzene	0.606	0.666	✓9.9	85	0.01
59	T	m-,p-Xylene	0.748	0.874	-16.8	90	0.00
60	T	o-Xylene	0.692	0.807	-16.6	90	0.00
61	T	Styrene	1.117	1.330	-19.1	91	0.00
62	P	Bromoform	0.233	0.239✓	-2.6	81	0.02
63	T	Isopropylbenzene	1.978	2.252	-13.9	88	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
65	P	1,1,2,2-Tetrachloroethane	0.580	0.541✓	6.7	86	0.00
66	S	p-Bromofluorobenzene	1.035	0.973	6.0	89	0.00
67	T	1,2,3-Trichloropropane	0.182	0.167	8.2	83	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.171	0.182	-6.4	93	0.00
69	T	n-Propylbenzene	4.291	4.548	-6.0	91	0.00
70	T	Bromobenzene	0.744	0.725	2.6	86	0.00
71	T	1,3,5-Trimethylbenzene	2.686	2.983	-11.1	94	0.01
72	T	2-Chlorotoluene	2.661	2.744	-3.1	87	0.00
73	T	4-Chlorotoluene	2.574	2.805	-9.0	96	0.00
74	T	a-Methylstyrene	1.264	1.354	-7.1	87	0.00
75	T	tert-Butylbenzene	2.854	3.070	-7.6	90	0.00
76	T	1,2,4-Trimethylbenzene	2.931	3.077	-5.0	93	0.00
77	T	sec-Butylbenzene	3.659	3.937	-7.6	91	0.00
78	T	p-Isopropyltoluene	3.182	3.336	-4.8	91	0.01
79	T	1,3-Dichlorobenzene	1.436	1.484	-3.3	92	0.00
80	T	1,4-Dichlorobenzene	1.517	1.524	-0.5	93	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.017	3.450	-14.4	94	0.00
82	T	1,2-Dichlorobenzene	1.267	1.325	-4.6	91	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.111	0.114	-2.7	85	0.00
84	T	1,2,4-Trichlorobenzene	0.964	1.065	-10.5	92	0.00
85	T	Hexachlorobutadiene	0.730	0.753	-3.2	91	0.00
86	T	Naphthalene	1.590	1.870	-17.6	94	0.00
87	T	1,2,3-Trichlorobenzene	0.964	1.065	-10.5	92	0.00

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	69	0.01
2	T	Dichlorodifluoromethane	50.000	40.973	18.1	58	-0.01
3	P	Chloromethane	50.000	54.244	-8.5	71	-0.02
4	C	Vinyl Chloride	50.000	46.416	7.2	66	0.00
5	T	Bromomethane	50.000	44.432	11.1	63	0.00
6	T	Chloroethane	50.000	48.886	2.2	70	0.00
7	T	Trichlorofluoromethane	50.000	44.790	10.4	67	0.00
8	T	Isoprene	50.000	68.842	-37.7#	90	0.01
9	T	Acrolein	100.000	59.538	40.5#	39	0.02
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	46.569	6.9	65	0.00
11	T	Acetone	50.000	56.719	-13.4	73	0.02
12	C	1,1-Dichloroethene	50.000	53.539	-7.1	71	0.00
13	T	Dimethyl Sulfide	50.000	65.125	-30.3#	92	0.02
14	T	Iodomethane	50.000	74.156	-48.3#	99	0.01
15	T	Methylene Chloride	50.000	47.396	5.2	71	0.01
16	T	Carbon Disulfide	50.000	58.751	-17.5	81	0.01
17	T	Acrylonitrile	50.000	57.736	-15.5	79	0.02
18	T	Methyl Tert Butyl Ether	50.000	50.989	-2.0	71	0.03
19	T	trans-1,2-Dichloroethene	50.000	53.425	-6.8	70	0.02
20	T	n-Hexane	50.000	60.518	-21.0	77	0.01
21	T	Vinyl Acetate	50.000	48.163	3.7	68	0.02
22	P	1,1-Dichloroethane	50.000	52.461	-4.9	72	0.01
23	T	2-Butanone	50.000	58.370	-16.7	73	0.03
24	T	2,2-Dichloropropane	50.000	53.247	-6.5	71	0.01
25	T	cis-1,2-Dichloroethene	50.000	56.025	-12.0	71	0.01
26	C	Chloroform	50.000	50.731	-1.5	72	0.02
27	T	Bromochloromethane	50.000	52.142	-4.3	71	0.02
28	S	Dibromofluoromethane	50.000	47.529	4.9	70	0.02
29	T	1,1,1-Trichloroethane	50.000	49.904	0.2	69	0.02
30	T	Cyclohexane	50.000	55.346	-10.7	71	0.01
31	T	1,1-Dichloropropene	50.000	57.575	-15.2	70	0.01
32	T	Carbon Tetrachloride	50.000	50.921	-1.8	70	0.02
33	S	1,2-Dichloroethane-d4	50.000	47.707	4.6	69	0.02
34	T	1,2-Dichloroethane	50.000	51.068	-2.1	72	0.01
35	T	Benzene	50.000	56.245	-12.5	73	0.02
36	T	Trichloroethene	50.000	54.800	-9.6	71	0.02
37	C	1,2-Dichloropropane	50.000	54.731	-9.5	72	0.01
38	T	Bromodichloromethane	50.000	52.532	-5.1	71	0.01
39	T	Dibromomethane	50.000	53.602	-7.2	76	0.02
40	T	2-Chloroethyl Vinyl Ether	50.000	53.717	-7.4	77	0.01
41	T	4-Methyl-2-Pentanone	50.000	59.307	-18.6	85	0.02

(#) = Out of Range
9M15737.D 8260SOIL.M Wed May 23 16:06:42 2001 HPMS_9 Page 1

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	50.975	-2.0	71	0.02
43	T	Dimethyl Disulfide	50.000	52.091	-4.2	74	0.02
44	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.01
45	S	Toluene-d8	50.000	48.510	3.0	79	0.01
46	C	Toluene	50.000	54.506	-9.0	82	0.01
47	T	Ethyl Methacrylate	50.000	48.876	2.2	85	0.00
48	T	trans-1,3-Dichloropropene	50.000	48.932	2.1	73	0.01
49	T	1,1,2-Trichloroethane	50.000	46.830	6.3	74	0.01
50	T	2-Hexanone	50.000	56.046	-12.1	90	0.01
51	T	1,3-Dichloropropane	50.000	47.107	5.8	74	0.01
52	T	Tetrachloroethene	50.000	49.114	1.8	77	0.01
53	T	Dibromochloromethane	50.000	47.466	5.1	75	0.00
54	T	1,2-Dibromoethane	50.000	46.954	6.1	75	0.01
55	T	1-Chlorohexane	50.000	48.788	2.4	83	0.00
56	P	Chlorobenzene	50.000	49.851	0.3	84	0.01
57	T	1,1,1,2-Tetrachloroethane	50.000	46.455	7.1	76	0.01
58	C	Ethylbenzene	50.000	54.989	-10.0	85	0.01
59	T	m-,p-Xylene	100.000	116.840	-16.8	90	0.00
60	T	o-Xylene	50.000	58.324	-16.6	90	0.00
61	T	Styrene	50.000	53.151	-6.3	91	0.00
62	P	Bromoform	50.000	51.262	-2.5	81	0.02
63	T	Isopropylbenzene	50.000	56.936	-13.9	88	0.00
64	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	46.639	6.7	86	0.00
66	S	p-Bromofluorobenzene	50.000	46.994	6.0	89	0.00
67	T	1,2,3-Trichloropropane	50.000	45.892	8.2	83	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	53.099	-6.2	93	0.00
69	T	n-Propylbenzene	50.000	52.989	-6.0	91	0.00
70	T	Bromobenzene	50.000	48.737	2.5	86	0.00
71	T	1,3,5-Trimethylbenzene	50.000	49.155	1.7	94	0.01
72	T	2-Chlorotoluene	50.000	51.557	-3.1	87	0.00
73	T	4-Chlorotoluene	50.000	54.489	-9.0	96	0.00
74	T	a-Methylstyrene	50.000	44.606	10.8	87	0.00
75	T	tert-Butylbenzene	50.000	49.381	1.2	90	0.00
76	T	1,2,4-Trimethylbenzene	50.000	52.491	-5.0	93	0.00
77	T	sec-Butylbenzene	50.000	53.795	-7.6	91	0.00
78	T	p-Isopropyltoluene	50.000	52.418	-4.8	91	0.01
79	T	1,3-Dichlorobenzene	50.000	51.663	-3.3	92	0.00
80	T	1,4-Dichlorobenzene	50.000	50.247	-0.5	93	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

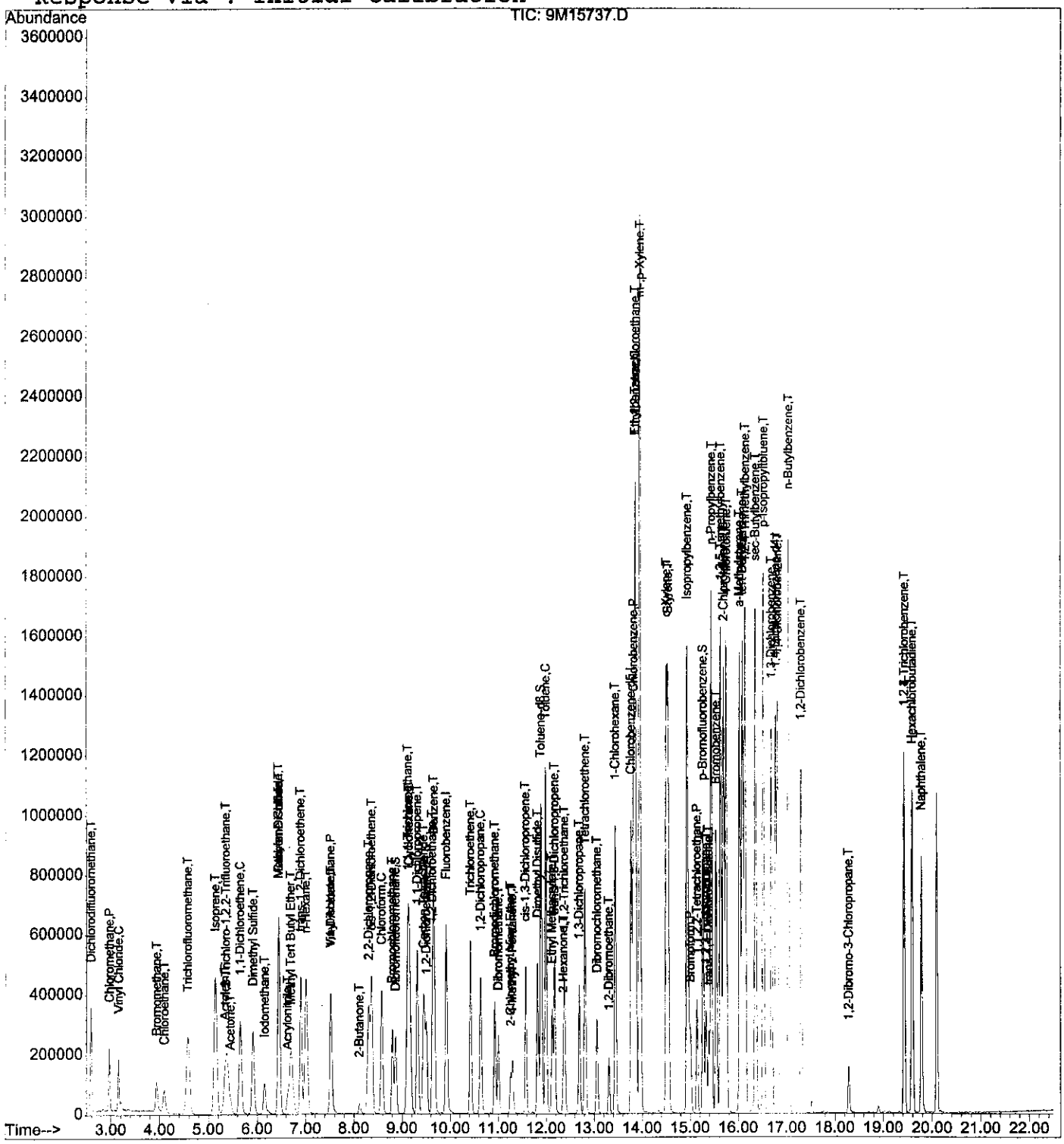
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	57.191	-14.4	94	0.00
82	T	1,2-Dichlorobenzene	50.000	52.311	-4.6	91	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	51.130	-2.3	85	0.00
84	T	1,2,4-Trichlorobenzene	50.000	55.246	-10.5	92	0.00
85	T	Hexachlorobutadiene	50.000	51.585	-3.2	91	0.00
86	T	Naphthalene	50.000	58.800	-17.6	94	0.00
87	T	1,2,3-Trichlorobenzene	50.000	55.246	-10.5	92	0.00

Data File : d:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 16:00 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 16:00 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	785618	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	660681	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	442638	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	231649	47.53	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.06%			
33) 1,2-Dichloroethane-d4	9.51	65	281805	47.71	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.42%			
45) Toluene-d8	11.90	98	967407	48.51	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 97.02%			
66) p-Bromofluorobenzene	15.27	95	430497	46.99	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 93.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.58	85	395125	40.97	ug/kg	99
3) Chloromethane	2.97	50	230618	54.24	ug/kg	99
4) Vinyl Chloride	3.16	62	173693	46.42	ug/kg	99
5) Bromomethane	3.94	94	101476	44.43	ug/kg	100
6) Chloroethane	4.09	64	107758	48.89	ug/kg	99
7) Trichlorofluoromethane	4.57	101	539233	44.79	ug/kg	100
8) Isoprene	5.14	67	398579	68.84	ug/kg	97
9) Acrolein	5.33	56	23310	59.54	ug/kg	98
10) 1,1,2-Trichloro-1,2,2-Trif	5.36	101	248190	46.57	ug/kg	98
11) Acetone	5.45	43	59305	56.72	ug/kg	98
12) 1,1-Dichloroethene	5.65	96	219932	53.54	ug/kg	96
13) Dimethyl Sulfide	5.92	62	226057	65.13	ug/kg	96
14) Iodomethane	6.15	142	196872	74.16	ug/kg	93
15) Methylene Chloride	6.44	84	205631	47.40	ug/kg	94
16) Carbon Disulfide	6.45	76	870991	58.75	ug/kg	100
17) Acrylonitrile	6.62	53	52399	57.74	ug/kg	95
18) Methyl Tert Butyl Ether	6.70	73	494598	50.99	ug/kg	99
19) trans-1,2-Dichloroethene	6.90	96	249296	53.43	ug/kg	93
20) n-Hexane	7.01	57	420690	60.52	ug/kg	99
21) Vinyl Acetate	7.52	43	271301	48.16	ug/kg	98
22) 1,1-Dichloroethane	7.53	63	473169	52.46	ug/kg	100
23) 2-Butanone	8.11	43	67773	58.37	ug/kg	98
24) 2,2-Dichloropropane	8.31	77	460120	53.25	ug/kg	97
25) cis-1,2-Dichloroethene	8.37	96	247201	56.02	ug/kg	93
26) Chloroform	8.58	83	477300	50.73	ug/kg	100
27) Bromochloromethane	8.80	128	95359	52.14	ug/kg	94
29) 1,1,1-Trichloroethane	9.12	97	493350	49.90	ug/kg	95

(#) = qualifier out of range (m) = manual integration
9M15737.D 8260SOIL.M Wed May 23 16:01:01 2001 HPMS_9 Page 1

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Data File : d:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 16:00 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	Cyclohexane	9.15	56	422830	55.35	ug/kg	99
31)	1,1-Dichloropropene	9.32	75	381690	57.57	ug/kg	98
32)	Carbon Tetrachloride	9.46	117	433553	50.92	ug/kg	100
34)	1,2-Dichloroethane	9.63	62	366165	51.07	ug/kg	99
35)	Benzene	9.67	78	949560	56.24	ug/kg	99
36)	Trichloroethene	10.43	130	239463	54.80	ug/kg	98
37)	1,2-Dichloropropane	10.64	63	219314	54.73	ug/kg	94
38)	Bromodichloromethane	10.93	83	336096	52.53	ug/kg	100
39)	Dibromomethane	11.01	93	127280	53.60	ug/kg	95
40)	2-Chloroethyl Vinyl Ether	11.26	63	66546	53.72	ug/kg	97
41)	4-Methyl-2-Pentanone	11.30	58	69832	59.31	ug/kg	98
42)	cis-1,3-Dichloropropene	11.58	75	341377	50.97	ug/kg	99
43)	Dimethyl Disulfide	11.83	79	189883	52.09	ug/kg	95
46)	Toluene	12.00	91	1158851	54.51	ug/kg	100
47)	Ethyl Methacrylate	12.13	69	234559	48.88	ug/kg	99
48)	trans-1,3-Dichloropropene	12.18	75	340186	48.93	ug/kg	97
49)	1,1,2-Trichloroethane	12.39	97	174448	46.83	ug/kg	99
50)	2-Hexanone	12.36	43	134387	56.05	ug/kg	93
51)	1,3-Dichloropropane	12.69	76	298334	47.11	ug/kg	94
52)	Tetrachloroethene	12.81	164	223745	49.11	ug/kg	97
53)	Dibromochloromethane	13.05	129	223705	47.47	ug/kg	100
54)	1,2-Dibromoethane	13.31	107	158792	46.95	ug/kg	99
55)	1-Chlorohexane	13.44	91	397791	48.79	ug/kg	92
56)	Chlorobenzene	13.82	112	733372	49.85	ug/kg	99
57)	1,1,1,2-Tetrachloroethane	13.86	131	244159	46.45	ug/kg	100
58)	Ethylbenzene	13.87	106	440236	54.99	ug/kg	97
59)	m-,p-Xylene	13.96	106	1154946	116.84	ug/kg	99
60)	o-Xylene	14.51	106	533119	58.32	ug/kg	99
61)	Styrene	14.54	104	878897	53.15	ug/kg	95
62)	Bromoform	15.01	173	157822	51.26	ug/kg	100
63)	Isopropylbenzene	14.94	105	1488171	56.94	ug/kg	99
65)	1,1,2,2-Tetrachloroethane	15.14	83	239562	46.64	ug/kg	100
67)	1,2,3-Trichloropropane	15.33	110	73868	45.89	ug/kg	99
68)	trans-1,4-Dichloro-2-Buten	15.39	53	80404	53.10	ug/kg	94
69)	n-Propylbenzene	15.44	91	2013019	52.99	ug/kg	100
70)	Bromobenzene	15.55	156	321028	48.74	ug/kg	94
71)	1,3,5-Trimethylbenzene	15.64	105	1320334	49.16	ug/kg	99
72)	2-Chlorotoluene	15.70	91	1214397	51.56	ug/kg	100
73)	4-Chlorotoluene	15.75	91	1241683	54.49	ug/kg	100
74)	a-Methylstyrene	16.03	118	599491	44.61	ug/kg	98
75)	tert-Butylbenzene	16.09	119	1358984	49.38	ug/kg	97

(#) = qualifier out of range (m) = manual integration
9M15737.D 8260SOIL.M Wed May 23 16:01:03 2001 HPMS_9 Page 2

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Data File : d:\HPCHEM\1\DATA\052301\9M15737.D Vial: 2
Acq On : 23 May 2001 15:38 Operator: MES
Sample : WG98010-02 50PPB STD M8260 SV7917 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 16:00 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
76)	1,2,4-Trimethylbenzene	16.14	105	1362164	52.49	ug/kg	100
77)	sec-Butylbenzene	16.36	105	1742613	53.80	ug/kg	99
78)	p-Isopropyltoluene	16.52	119	1476523	52.42	ug/kg	98
79)	1,3-Dichlorobenzene	16.69	146	656946	51.66	ug/kg	99
80)	1,4-Dichlorobenzene	16.82	146	674620	50.25	ug/kg	100
81)	n-Butylbenzene	17.04	91	1527262	57.19	ug/kg	100
82)	1,2-Dichlorobenzene	17.30	146	586524	52.31	ug/kg	98
83)	1,2-Dibromo-3-Chloropropan	18.30	157	50469	51.13	ug/kg	87
84)	1,2,4-Trichlorobenzene	19.43	180	471294	55.25	ug/kg	99
85)	Hexachlorobutadiene	19.59	225	333142	51.58	ug/kg	98
86)	Naphthalene	19.78	128	827879	58.80	ug/kg	100
87)	1,2,3-Trichlorobenzene	19.43	180	471294	55.25	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Ical Date: 5/21/2001 Ical Filename: 6M25837.D Instrument: HPMS 6
CCV Date: 5/24/2001 CCV Filename: 6M25927.D

	Fluorbenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d	
	Ret. Time	Response	Ret. Time	Response	Ret. Time	Response
Ical	11.26	1561179	15.75	1318268	19.31	722228
CCV	11.26	1431890	15.75	1190767	19.31	666397
	Pass	Pass	Pass	Pass	Pass	Pass

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D Vial: 2
Acq On : 24 May 2001 7:54 Operator: CMS
Sample : WG98069-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	92	0.00
2	T	Dichlorodifluoromethane	0.444	0.387	12.8	85	0.00
3	P	Chloromethane	0.378	0.324	14.3	85	0.00
4	C	Vinyl Chloride	0.295	0.246	16.6	89	0.00
5	T	Bromomethane	0.154	0.132	14.3	82	0.00
6	T	Chloroethane	0.180	0.167	7.2	92	0.00
7	T	Trichlorofluoromethane	0.502	0.532	-6.0	97	0.00
8	T	Isoprene	0.422	0.411	2.6	84	0.00
9	T	Acrolein	0.006	0.007	-16.7	105	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.287	0.276	3.8	91	0.00
11	T	Acetone	0.024	0.030	-25.0#	120	0.00
12	C	1,1-Dichloroethene	0.229	0.221	3.5	90	0.00
13	T	Dimethyl Sulfide	0.233	0.236	-1.3	86	0.00
14	T	Iodomethane	0.180	0.162	10.0	77	0.00
15	T	Methylene Chloride	0.248	0.214	13.7	86	0.00
16	T	Carbon Disulfide	0.962	0.896	6.9	87	0.00
17	T	Acrylonitrile	0.034	0.038	-11.8	95	0.00
18	T	Methyl Tert Butyl Ether	0.333	0.322	3.3	86	0.00
19	T	trans-1,2-Dichloroethene	0.268	0.265	1.1	88	0.00
20	T	n-Hexane	0.470	0.479	-1.9	88	0.00
21	T	Vinyl Acetate	0.207	0.212	-2.4	84	0.00
22	P	1,1-Dichloroethane	0.509	0.508	0.2	91	0.00
23	T	2-Butanone	0.033	0.037	-12.1	100	0.00
24	T	2,2-Dichloropropane	0.443	0.474	-7.0	93	0.00
25	T	cis-1,2-Dichloroethene	0.261	0.263	-0.8	89	0.00
26	C	Chloroform	0.477	0.464	2.7	92	0.00
27	T	Bromochloromethane	0.102	0.099	2.9	90	0.00
28	S	Dibromofluoromethane	0.275	0.260	5.5	90	0.00
29	T	1,1,1-Trichloroethane	0.487	0.500	-2.7	93	0.00
30	T	Cyclohexane	0.523	0.532	-1.7	87	0.00
31	T	1,1-Dichloropropene	0.429	0.433	-0.9	91	0.00
32	T	Carbon Tetrachloride	0.433	0.483	-11.5	95	0.00
33	S	1,2-Dichloroethane-d4	0.229	0.218	4.8	91	0.00
34	T	1,2-Dichloroethane	0.289	0.288	0.3	93	0.00
35	T	Benzene	1.105	1.090	1.4	88	0.00
36	T	Trichloroethene	0.350	0.343	2.0	88	0.00
37	C	1,2-Dichloropropane	0.263	0.250	4.9	87	0.00
38	T	Bromodichloromethane	0.297	0.310	-4.4	91	0.00
39	T	Dibromomethane	0.091	0.092	-1.1	90	0.00
40	T	2-Chloroethyl Vinyl Ether	0.069	0.065	5.8	80	0.00
41	T	4-Methyl-2-Pentanone	0.038	0.038	0.0	91	0.00

(#) = Out of Range
6M25927.D 8260WTR.M Thu May 24 16:45:35 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052401\6M25927.D Vial: 2
Acq On : 24 May 2001 7:54 Operator: CMS
Sample : WG98069-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	0.316	0.340	-7.6	88	0.00
43	T	Dimethyl Disulfide	0.150	0.165	-10.0	85	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
45	S	Toluene-d8	1.450	1.437	0.9	91	0.00
46	C	Toluene	1.551	1.604	-3.4	89	0.00
47	T	Ethyl Methacrylate	0.187	0.196	-4.8	89	0.00
48	T	trans-1,3-Dichloropropene	0.303	0.343	-13.2	92	0.00
49	T	1,1,2-Trichloroethane	0.158	0.161	-1.9	90	0.00
50	T	2-Hexanone	0.076	0.085	-11.8	97	0.00
51	T	1,3-Dichloropropane	0.288	0.294	-2.1	90	0.00
52	T	Tetrachloroethene	0.335	0.351	-4.8	91	0.00
53	T	Dibromochloromethane	0.226	0.253	-11.9	91	0.00
54	T	1,2-Dibromoethane	0.161	0.169	-5.0	89	0.00
55	T	1-Chlorohexane	0.523	0.543	-3.8	88	0.00
56	P	Chlorobenzene	1.159	1.102	4.9	89	0.00
57	T	1,1,1,2-Tetrachloroethane	0.322	0.357	-10.9	93	0.00
58	C	Ethylbenzene	0.674	0.675	-0.1	90	0.00
59	T	m-,p-Xylene	0.829	0.845	-1.9	90	0.00
60	T	o-Xylene	0.753	0.789	-4.8	89	0.00
61	T	Styrene	1.207	1.280	-6.0	90	0.00
62	P	Bromoform	0.107	0.126	-17.8	93	0.00
63	T	Isopropylbenzene	2.112	2.199	-4.1	91	0.00
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
65	P	1,1,2,2-Tetrachloroethane	0.304	0.301	1.0	91	0.00
66	S	p-Bromofluorobenzene	0.972	0.973	-0.1	93	0.00
67	T	1,2,3-Trichloropropane	0.099	0.103	-4.0	93	0.00
68	T	trans-1,4-Dichloro-2-Butene	0.088	0.099	-12.5	95	0.00
69	T	n-Propylbenzene	4.313	4.406	-2.2	91	0.00
70	T	Bromobenzene	0.816	0.803	1.6	90	0.00
71	T	1,3,5-Trimethylbenzene	3.186	3.351	-5.2	91	0.00
72	T	2-Chlorotoluene	2.687	2.679	0.3	92	0.00
73	T	4-Chlorotoluene	2.687	2.719	-1.2	90	0.00
74	T	a-Methylstyrene	1.515	1.620	-6.9	89	0.00
75	T	tert-Butylbenzene	3.105	3.113	-0.3	91	0.00
76	T	1,2,4-Trimethylbenzene	3.441	3.390	1.5	91	0.00
77	T	sec-Butylbenzene	4.133	4.197	-1.5	91	0.00
78	T	p-Isopropyltoluene	3.746	3.854	-2.9	92	0.00
79	T	1,3-Dichlorobenzene	1.750	1.713	2.1	91	0.00
80	T	1,4-Dichlorobenzene	1.787	1.686	5.7	91	0.00

(#) = Out of Range
6M25927.D 8260WTR.M Thu May 24 16:45:49 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	3.160	3.137	0.7	91	0.00
82	T	1,2-Dichlorobenzene	1.417	1.365	3.7	90	0.00
83	T	1,2-Dibromo-3-Chloropropane	0.053	0.060	-13.2	95	0.00
84	T	1,2,4-Trichlorobenzene	0.828	0.825	0.4	88	0.00
85	T	Hexachlorobutadiene	0.439	0.440	-0.2	92	0.00
86	T	Naphthalene	0.947	1.006	-6.2	88	0.00
87	T	1,2,3-Trichlorobenzene	0.624	0.600	3.8	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M25927.D 8260WTR.M Thu May 24 16:45:52 2001 Page 3

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Data File : C:\HPCHEM\1\DATA\052401\6M25927.D Vial: 2
Acq On : 24 May 2001 7:54 Operator: CMS
Sample : WG98069-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	92	0.00
2	T	Dichlorodifluoromethane	50.000	43.613	12.8	85	0.00
3	P	Chloromethane	50.000	42.882	14.2	85	0.00
4	C	Vinyl Chloride	50.000	52.614	-5.2	89	0.00
5	T	Bromomethane	50.000	43.013	14.0	82	0.00
6	T	Chloroethane	50.000	46.414	7.2	92	0.00
7	T	Trichlorofluoromethane	50.000	53.070	-6.1	97	0.00
8	T	Isoprene	50.000	48.740	2.5	84	0.00
9	T	Acrolein	100.000	97.044	3.0	105	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	48.146	3.7	91	0.00
11	T	Acetone	50.000	61.591	-23.2#	120	0.00
12	C	1,1-Dichloroethene	50.000	48.064	3.9	90	0.00
13	T	Dimethyl Sulfide	50.000	50.754	-1.5	86	0.00
14	T	Iodomethane	50.000	39.728	20.5#	77	0.00
15	T	Methylene Chloride	50.000	43.115	13.8	86	0.00
16	T	Carbon Disulfide	50.000	46.532	6.9	87	0.00
17	T	Acrylonitrile	50.000	49.737	0.5	95	0.00
18	T	Methyl Tert Butyl Ether	50.000	48.213	3.6	86	0.00
19	T	trans-1,2-Dichloroethene	50.000	49.496	1.0	88	0.00
20	T	n-Hexane	50.000	50.881	-1.8	88	0.00
21	T	Vinyl Acetate	50.000	44.528	10.9	84	0.00
22	P	1,1-Dichloroethane	50.000	49.882	0.2	91	0.00
23	T	2-Butanone	50.000	56.159	-12.3	100	0.00
24	T	2,2-Dichloropropane	50.000	53.487	-7.0	93	0.00
25	T	cis-1,2-Dichloroethene	50.000	50.400	-0.8	89	0.00
26	C	Chloroform	50.000	48.617	2.8	92	0.00
27	T	Bromochloromethane	50.000	48.147	3.7	90	0.00
28	S	Dibromofluoromethane	25.000	23.653	5.4	90	0.00
29	T	1,1,1-Trichloroethane	50.000	51.347	-2.7	93	0.00
30	T	Cyclohexane	50.000	50.876	-1.8	87	0.00
31	T	1,1-Dichloropropene	50.000	50.491	-1.0	91	0.00
32	T	Carbon Tetrachloride	50.000	55.826	-11.7	95	0.00
33	S	1,2-Dichloroethane-d4	25.000	23.763	4.9	91	0.00
34	T	1,2-Dichloroethane	50.000	49.859	0.3	93	0.00
35	T	Benzene	50.000	49.285	1.4	88	0.00
36	T	Trichloroethene	50.000	49.015	2.0	88	0.00
37	C	1,2-Dichloropropane	50.000	47.650	4.7	87	0.00
38	T	Bromodichloromethane	50.000	52.056	-4.1	91	0.00
39	T	Dibromomethane	50.000	50.561	-1.1	90	0.00
40	T	2-Chloroethyl Vinyl Ether	50.000	42.468	15.1	80	0.00
41	T	4-Methyl-2-Pentanone	50.000	50.493	-1.0	91	0.00

(#) = Out of Range
6M25927.D 8260WTR.M Thu May 24 16:46:04 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	cis-1,3-Dichloropropene	50.000	53.796	-7.6	88	0.00
43	T	Dimethyl Disulfide	50.000	44.742	10.5	85	0.00
44	I	Chlorobenzene-d5	25.000	25.000	0.0	90	0.00
45	S	Toluene-d8	25.000	24.785	0.9	91	0.00
46	C	Toluene	50.000	51.700	-3.4	89	0.00
47	T	Ethyl Methacrylate	50.000	52.427	-4.9	89	0.00
48	T	trans-1,3-Dichloropropene	50.000	56.527	-13.1	92	0.00
49	T	1,1,2-Trichloroethane	50.000	50.810	-1.6	90	0.00
50	T	2-Hexanone	50.000	56.242	-12.5	97	0.00
51	T	1,3-Dichloropropane	50.000	51.163	-2.3	90	0.00
52	T	Tetrachloroethene	50.000	52.260	-4.5	91	0.00
53	T	Dibromochloromethane	50.000	55.886	-11.8	91	0.00
54	T	1,2-Dibromoethane	50.000	52.591	-5.2	89	0.00
55	T	1-Chlorohexane	50.000	51.968	-3.9	88	0.00
56	P	Chlorobenzene	50.000	47.544	4.9	89	0.00
57	T	1,1,1,2-Tetrachloroethane	50.000	55.417	-10.8	93	0.00
58	C	Ethylbenzene	50.000	50.041	-0.1	90	0.00
59	T	m-,p-Xylene	100.000	101.932	-1.9	90	0.00
60	T	o-Xylene	50.000	52.405	-4.8	89	0.00
61	T	Styrene	50.000	53.023	-6.0	90	0.00
62	P	Bromoform	50.000	49.682	0.6	93	0.00
63	T	Isopropylbenzene	50.000	52.046	-4.1	91	0.00
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	92	0.00
65	P	1,1,2,2-Tetrachloroethane	50.000	49.389	1.2	91	0.00
66	S	p-Bromofluorobenzene	25.000	25.006	-0.0	93	0.00
67	T	1,2,3-Trichloropropane	50.000	52.155	-4.3	93	0.00
68	T	trans-1,4-Dichloro-2-Butene	50.000	47.865	4.3	95	0.00
69	T	n-Propylbenzene	50.000	51.078	-2.2	91	0.00
70	T	Bromobenzene	50.000	49.200	1.6	90	0.00
71	T	1,3,5-Trimethylbenzene	50.000	52.596	-5.2	91	0.00
72	T	2-Chlorotoluene	50.000	49.864	0.3	92	0.00
73	T	4-Chlorotoluene	50.000	50.586	-1.2	90	0.00
74	T	a-Methylstyrene	50.000	53.489	-7.0	89	0.00
75	T	tert-Butylbenzene	50.000	50.121	-0.2	91	0.00
76	T	1,2,4-Trimethylbenzene	50.000	49.259	1.5	91	0.00
77	T	sec-Butylbenzene	50.000	50.772	-1.5	91	0.00
78	T	p-Isopropyltoluene	50.000	51.450	-2.9	92	0.00
79	T	1,3-Dichlorobenzene	50.000	48.941	2.1	91	0.00
80	T	1,4-Dichlorobenzene	50.000	47.176	5.6	91	0.00

(#) = Out of Range
6M25927.D 8260WTR.M Thu May 24 16:46:08 2001

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	n-Butylbenzene	50.000	49.641	0.7	91	0.00
82	T	1,2-Dichlorobenzene	50.000	48.160	3.7	90	0.00
83	T	1,2-Dibromo-3-Chloropropane	50.000	49.649	0.7	95	0.00
84	T	1,2,4-Trichlorobenzene	50.000	49.815	0.4	88	0.00
85	T	Hexachlorobutadiene	50.000	50.115	-0.2	92	0.00
86	T	Naphthalene	50.000	53.065	-6.1	88	0.00
87	T	1,2,3-Trichlorobenzene	50.000	48.107	3.8	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M25927.D 8260WTR.M Thu May 24 16:46:09 2001 Page 3

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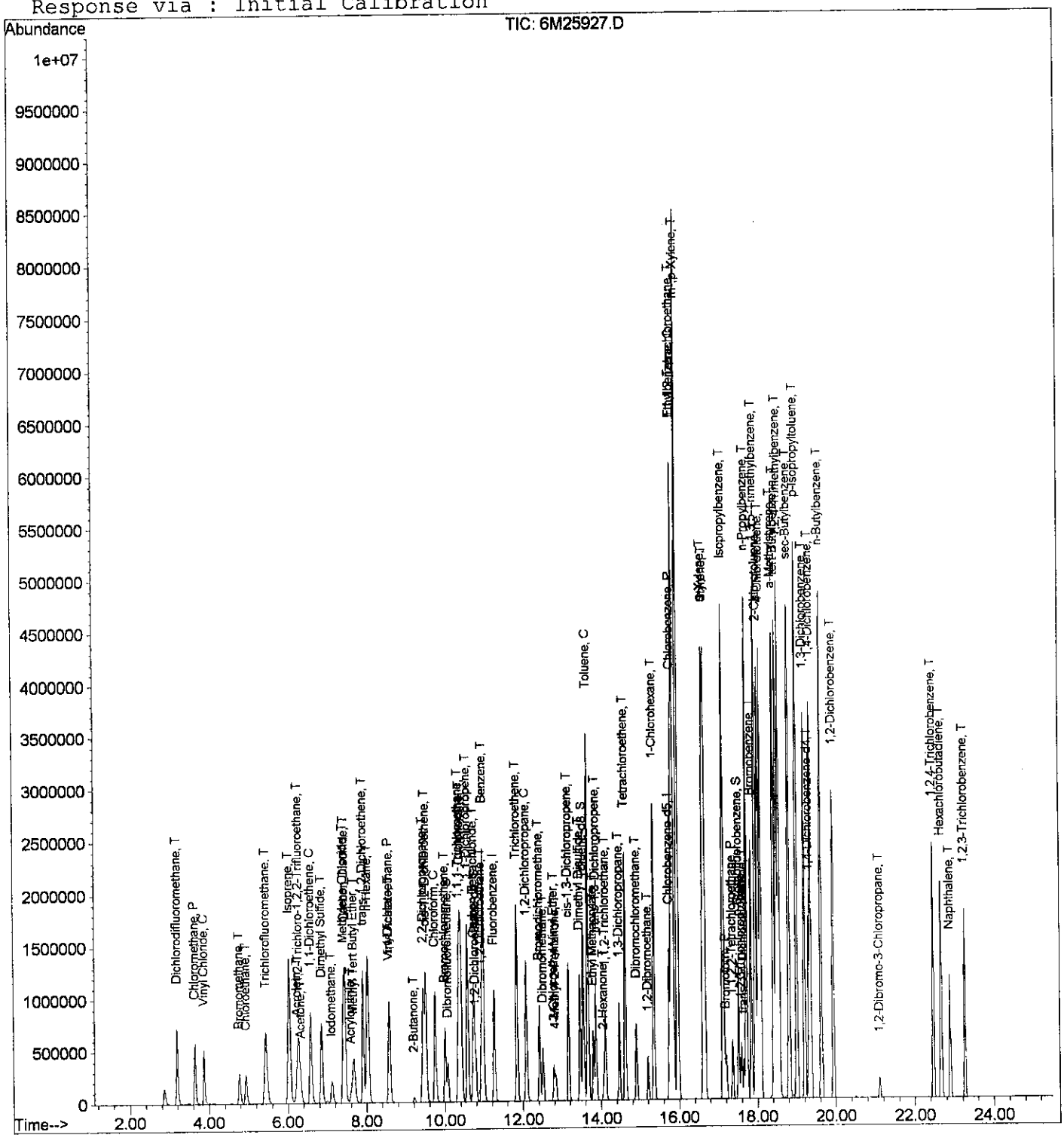
Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 16:42 19101

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 16:42 19101

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.26	96	1431890	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1190767	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	666397	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	372298	23.65	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.60%				
33) 1,2-Dichloroethane-d4	10.79	65	311818	23.76	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 95.04%				
45) Toluene-d8	13.55	98	1711562	24.78	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.12%				
66) p-Bromofluorobenzene	17.52	95	648178	25.01	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.04%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	1108694	43.61	ug/L		95
3) Chloromethane	3.64	50	927864	42.88	ug/L		100
4) Vinyl Chloride	3.87	62	703741	52.61	ug/L		99
5) Bromomethane	4.77	94	378339	43.01	ug/L		99
6) Chloroethane	4.93	64	477286	46.41	ug/L		100
7) Trichlorofluoromethane	5.44	101	1524509	53.07	ug/L		99
8) Isoprene	6.03	67	1176910	48.74	ug/L		91
9) Acrolein	6.22	56	38106	97.04	ug/L		92
10) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	790728	48.15	ug/L		99
11) Acetone	6.34	43	85741	61.59	ug/L		95
12) 1,1-Dichloroethene	6.57	96	631739	48.06	ug/L		85
13) Dimethyl Sulfide	6.85	62	676588	50.75	ug/L	#	1
14) Iodomethane	7.11	142	465268	39.73	ug/L		100
15) Methylene Chloride	7.41	84	613103	43.11	ug/L		79
16) Carbon Disulfide	7.44	76	2564996	46.53	ug/L		100
17) Acrylonitrile	7.60	53	110054	49.74	ug/L		97
18) Methyl Tert Butyl Ether	7.67	73	920875	48.21	ug/L		95
19) trans-1,2-Dichloroethene	7.91	96	758699	49.50	ug/L		88
20) n-Hexane	8.02	57	1370682	50.88	ug/L		98
21) Vinyl Acetate	8.56	43	608031	44.53	ug/L		98
22) 1,1-Dichloroethane	8.58	63	1454537	49.88	ug/L		97
23) 2-Butanone	9.21	43	104943	56.16	ug/L		93
24) 2,2-Dichloropropane	9.45	77	1358136	53.49	ug/L		99
25) cis-1,2-Dichloroethene	9.52	96	753695	50.40	ug/L		85
26) Chloroform	9.75	83	1328900	48.62	ug/L		98
27) Bromochloromethane	10.00	128	282512	48.15	ug/L		98

(#) = qualifier out of range (m) = manual integration
6M25927.D 8260WTR.M Thu May 24 16:43:13 2001

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D
Acq On : 24 May 2001 7:54
Sample : WG98069-02 50 PPB STD 8260
Misc : 1,1 SV7940
MS Integration Params: rteint.p
Quant Time: May 24 16:42 19101

Vial: 2
Operator: CMS
Inst : HPMS6
Multiplr: 1.00

Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 1,1,1-Trichloroethane	10.36	97	1431054	51.35 ug/L	92
30) Cyclohexane	10.40	56	1523339	50.88 ug/L	93
31) 1,1-Dichloropropene	10.58	75	1239305	50.49 ug/L	93
32) Carbon Tetrachloride	10.75	117	1382921	55.83 ug/L	100
34) 1,2-Dichloroethane	10.93	62	824837	49.86 ug/L #	76
35) Benzene	10.98	78	3120157	49.28 ug/L	95
36) Trichloroethene	11.84	130	983155	49.02 ug/L	96
37) 1,2-Dichloropropane	12.08	63	717188	47.65 ug/L	98
38) Bromodichloromethane	12.42	83	886799	52.06 ug/L	100
39) Dibromomethane	12.51	93	264811	50.56 ug/L	97
40) 2-Chloroethyl Vinyl Ether	12.79	63	186007	42.47 ug/L	97
41) 4-Methyl-2-Pentanone	12.83	58	109920	50.49 ug/L	93
42) cis-1,3-Dichloropropene	13.17	75	972296	53.80 ug/L	98
43) Dimethyl Disulfide	13.46	79	472876	44.74 ug/L	95
46) Toluene	13.66	91	3820483	51.70 ug/L	98
47) Ethyl Methacrylate	13.80	69	467744	52.43 ug/L	100
48) trans-1,3-Dichloropropene	13.87	75	817151	56.53 ug/L	100
49) 1,1,2-Trichloroethane	14.11	97	383286	50.81 ug/L	99
50) 2-Hexanone	14.07	43	203577	56.24 ug/L	98
51) 1,3-Dichloropropane	14.47	76	701131	51.16 ug/L	90
52) Tetrachloroethene	14.62	164	834884	52.26 ug/L	99
53) Dibromochloromethane	14.91	129	601546	55.89 ug/L	99
54) 1,2-Dibromoethane	15.21	107	403443	52.59 ug/L	100
55) 1-Chlorohexane	15.36	91	1293724	51.97 ug/L	90
56) Chlorobenzene	15.81	112	2625544	47.54 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	850000	55.42 ug/L	97
58) Ethylbenzene	15.85	106	1606674	50.04 ug/L	98
59) m-,p-Xylene	15.97	106	4024939	101.93 ug/L	96
60) o-Xylene	16.62	106	1880054	52.40 ug/L	99
61) Styrene	16.66	104	3047242	53.02 ug/L	97
62) Bromoform	17.20	173	301047	49.68 ug/L	100
63) Isopropylbenzene	17.13	105	5236284	52.05 ug/L	98
65) 1,1,2,2-Tetrachloroethane	17.37	83	400709	49.39 ug/L	99
67) 1,2,3-Trichloropropane	17.59	110	137601	52.16 ug/L	97
68) trans-1,4-Dichloro-2-Buten	17.66	53	132201	47.87 ug/L	85
69) n-Propylbenzene	17.73	91	5872053	51.08 ug/L	99
70) Bromobenzene	17.85	156	1069640	49.20 ug/L	96
71) 1,3,5-Trimethylbenzene	17.95	105	4466433	52.60 ug/L	99
72) 2-Chlorotoluene	18.03	91	3571052	49.86 ug/L	97
73) 4-Chlorotoluene	18.09	91	3623593	50.59 ug/L	98
74) a-Methylstyrene	18.42	118	2159383	53.49 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M25927.D 8260WTR.M Thu May 24 16:43:17 2001

Data File : C:\HPCHEM\1\DATA\052401\6M25927.D Vial: 2
Acq On : 24 May 2001 7:54 Operator: CMS
Sample : WG98069-02 50 PPB STD 8260 Inst : HPMS6
Misc : 1,1 SV7940 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 16:42 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
75)	tert-Butylbenzene	18.49	119	4148533	50.12 ug/L		99
76)	1,2,4-Trimethylbenzene	18.56	105	4517868	49.26 ug/L		99
77)	sec-Butylbenzene	18.81	105	5593478	50.77 ug/L		99
78)	p-Isopropyltoluene	19.01	119	5137043	51.45 ug/L		98
79)	1,3-Dichlorobenzene	19.21	146	2283613	48.94 ug/L		100
80)	1,4-Dichlorobenzene	19.36	146	2247404	47.18 ug/L		100
81)	n-Butylbenzene	19.63	91	4181004	49.64 ug/L		98
82)	1,2-Dichlorobenzene	19.94	146	1819702	48.16 ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	79407	49.65 ug/L		95
84)	1,2,4-Trichlorobenzene	22.47	180	1099827	49.81 ug/L		96
85)	Hexachlorobutadiene	22.67	225	586112	50.11 ug/L	#	24
86)	Naphthalene	22.89	128	1340223	53.06 ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.26	180	800095	48.11 ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25927.D 8260WTR.M Thu May 24 16:43:18 2001 Page 3

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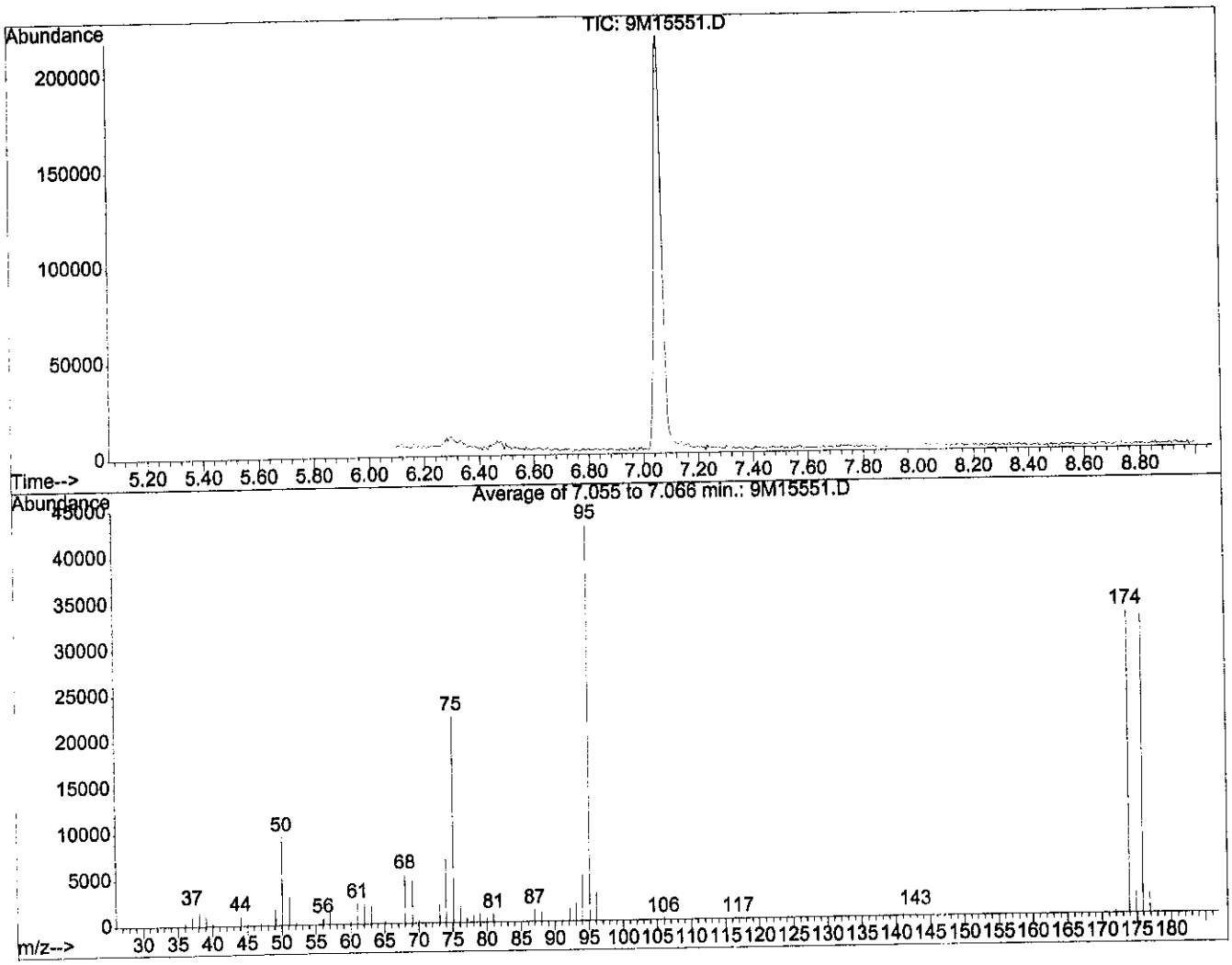
2.1.1.4 Raw QC Data

Data File : D:\HPCHEM\1\DATA\051101\9M15551.D
Acq On : 11 May 2001 9:35
Sample : WG97218-01 50NG BFB SV7908
Misc : SOLID,1
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9

Vial: 1
Operator: MES
Inst : HPMS9
Multiplr: 1.00

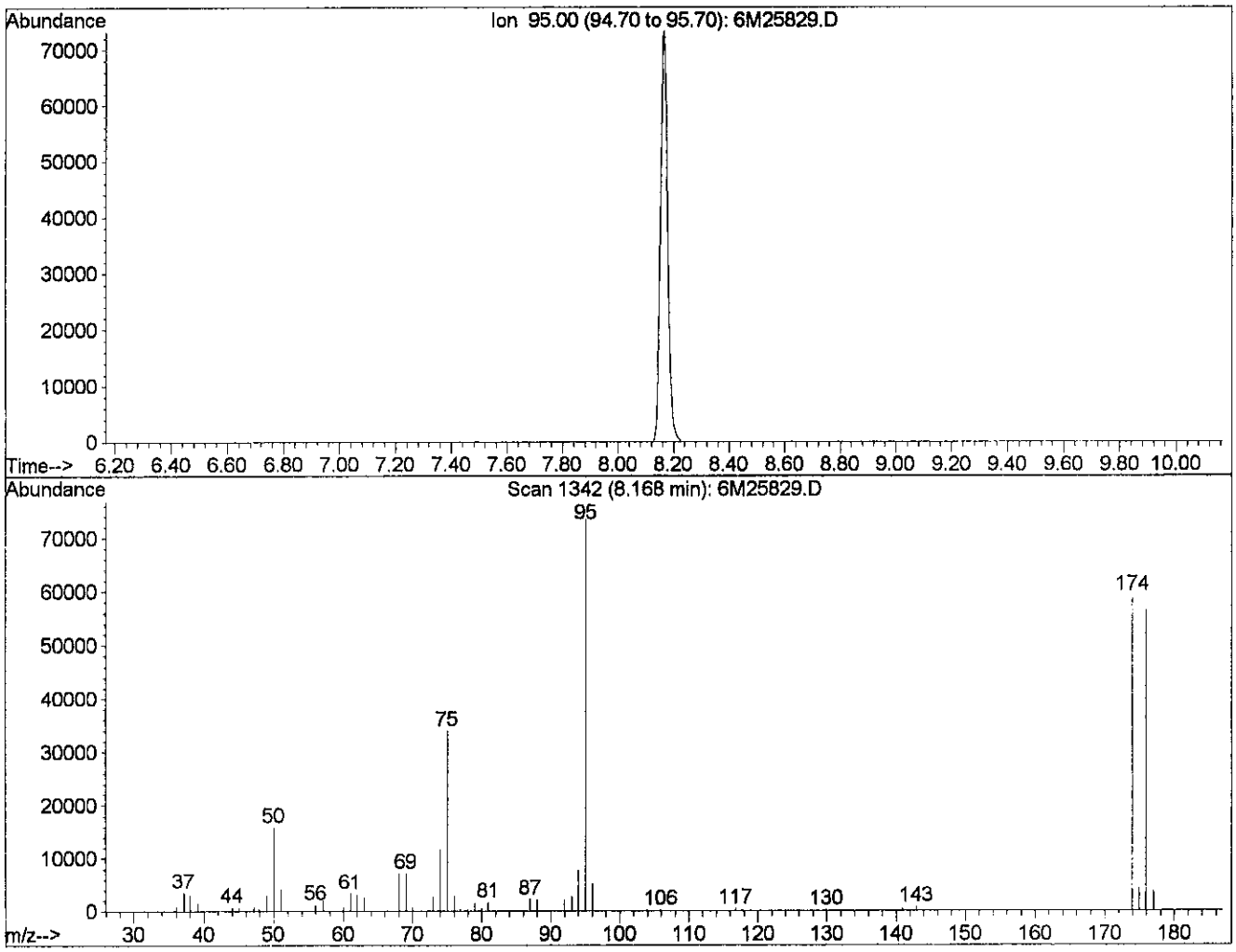


Spectrum Information: Average of 7.055 to 7.066 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	9654	PASS
75	95	30	60	52.1	22376	PASS
95	95	100	100	100.0	42968	PASS
96	95	5	9	7.1	3037	PASS
173	174	0.00	2	0.3	105	PASS
174	95	50	100	76.6	32933	PASS
175	174	5	9	6.9	2279	PASS
176	174	95	101	98.5	32437	PASS
177	176	5	9	6.7	2177	PASS

9M15551.D 8260SOIL.M Wed May 16 16:23:00 2001 HPMS_9

Data File : C:\HPCHEM\1\DATA\052101\6M25829.D Vial: 6
Acq On : 21 May 2001 14:46 Operator: CMS
Sample : WG97810-01 BFB 50NG STD Inst : HPMS6
Misc : 1,1 SV7908 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6



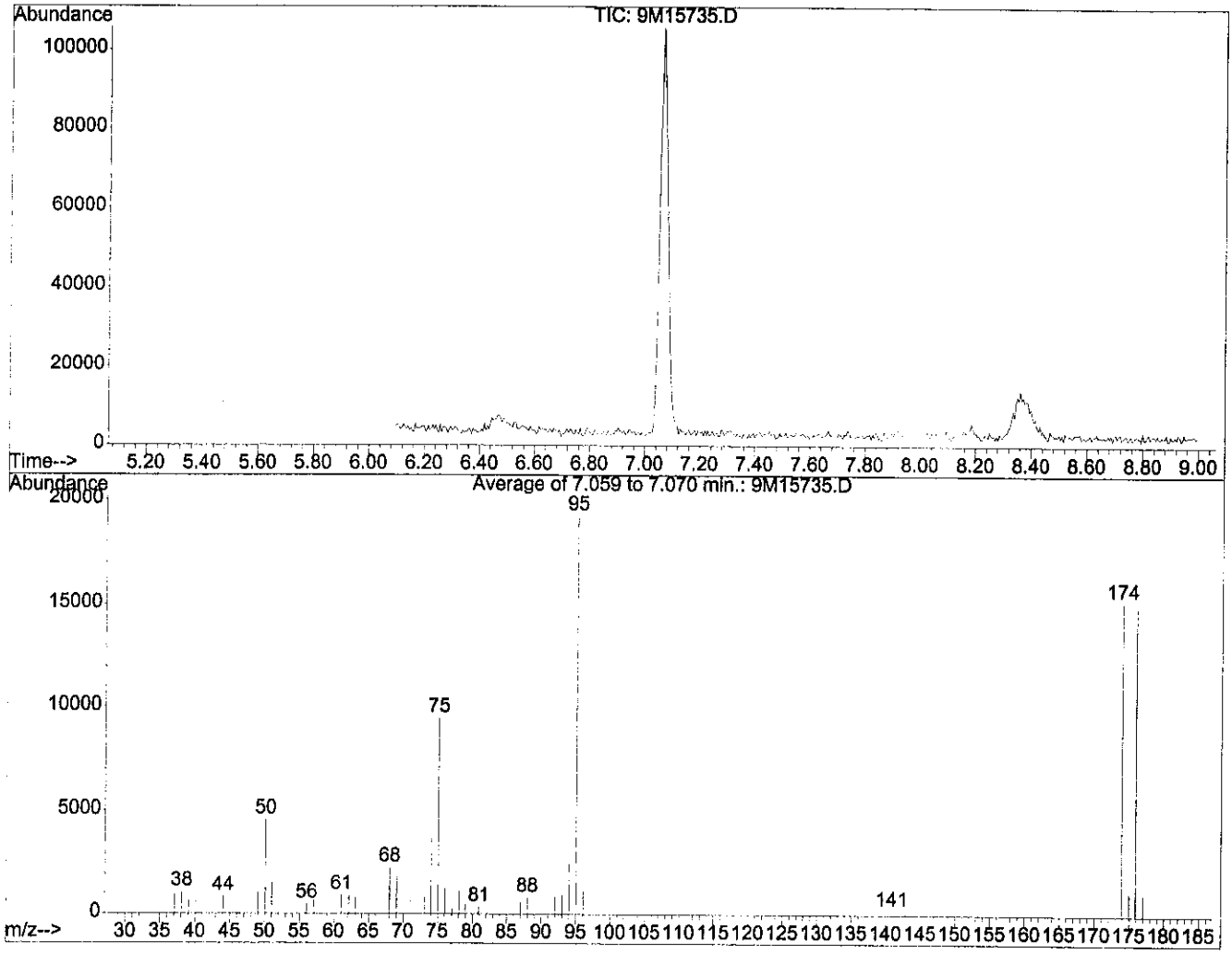
Spectrum Information: Scan 1342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	15913	PASS
75	95	30	60	46.3	33920	PASS
95	95	100	100	100.0	73280	PASS
96	95	5	9	7.1	5217	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.8	59224	PASS
175	174	5	9	7.3	4329	PASS
176	174	95	101	95.7	56664	PASS
177	176	5	9	6.7	3817	PASS

6M25829.D 8260WTR.M Thu May 24 14:55:02 2001

Data File : D:\HPCHEM\1\DATA\052301\9M15735.D
Acq On : 23 May 2001 14:32
Sample : WG98010-01 50NG BFB SV7908
Misc : 7,1
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9

Vial: 1
Operator: MES
Inst : HPMS9
Multiplr: 1.00

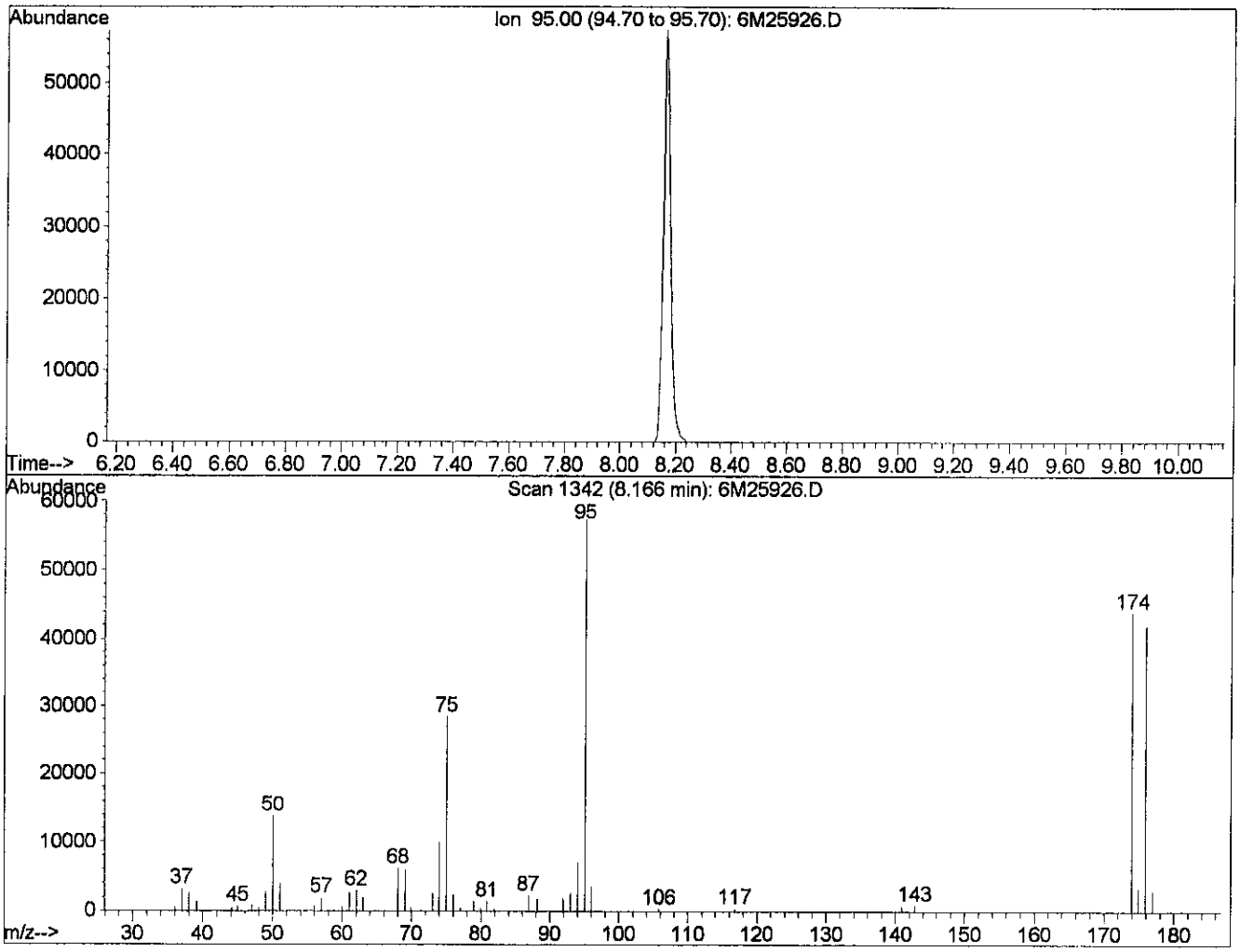


Spectrum Information: Average of 7.059 to 7.070 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	4557	PASS
75	95	30	60	49.2	9478	PASS
95	95	100	100	100.0	19269	PASS
96	95	5	9	5.8	1127	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.8	15189	PASS
175	174	5	9	7.4	1125	PASS
176	174	95	101	98.4	14949	PASS
177	176	5	9	7.0	1050	PASS

9M15735.D 8260SOIL.M Wed May 23 14:45:30 2001 HPMS_9

Data File : C:\HPCHEM\1\DATA\052401\6M25926.D Vial: 1
Acq On : 24 May 2001 7:23 Operator: CMS
Sample : WG98069-01 BFB 50NG STD Inst : HPMS6
Misc : 1,1 SV7908 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6



Spectrum Information: Scan 1342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	13792	PASS
75	95	30	60	49.6	28400	PASS
95	95	100	100	100.0	57256	PASS
96	95	5	9	6.1	3484	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.7	43936	PASS
175	174	5	9	7.7	3369	PASS
176	174	95	101	95.5	41960	PASS
177	176	5	9	7.1	2984	PASS

6M25926.D 8260WTR.M Thu May 24 07:35:43 2001

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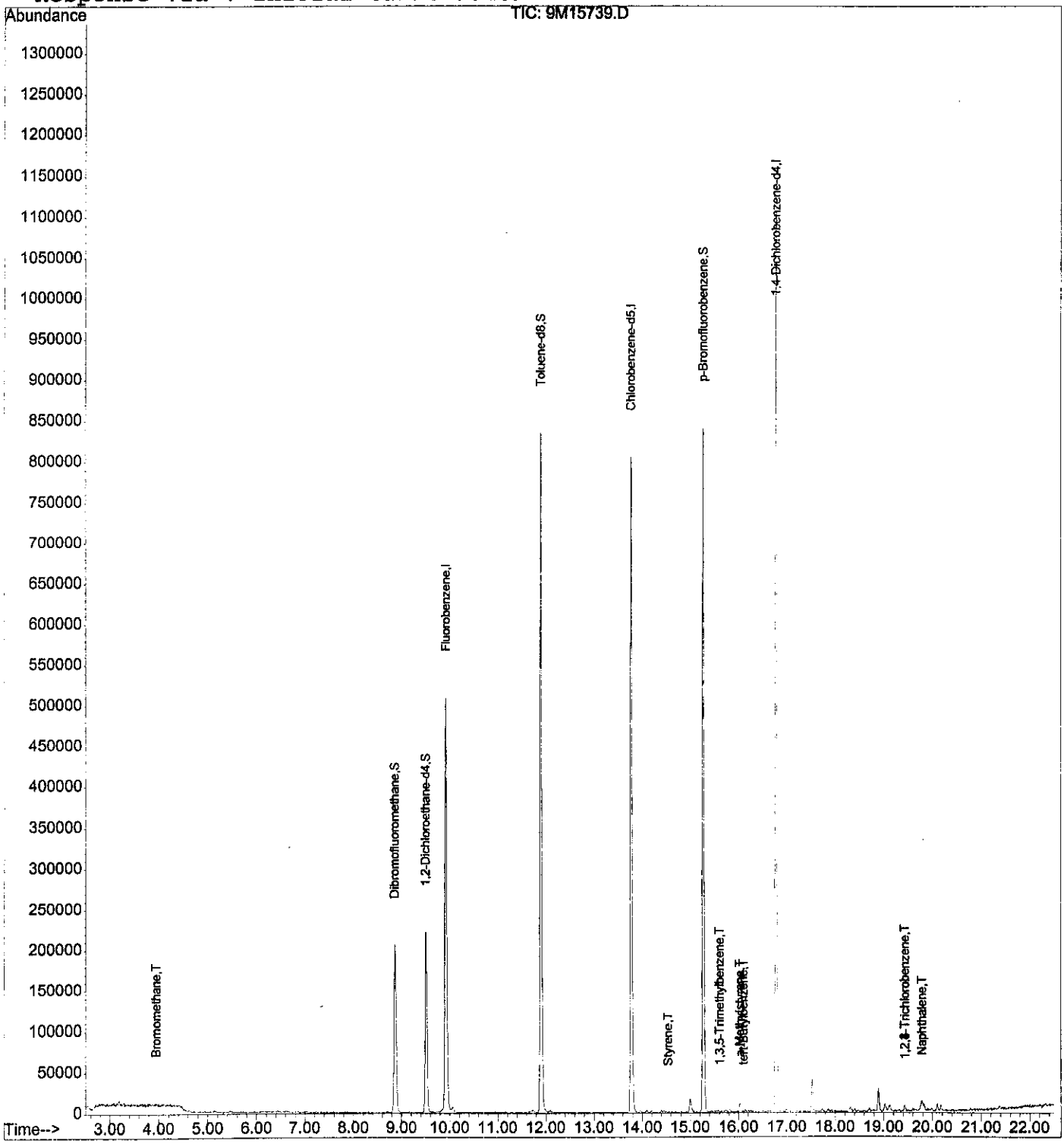
Data File : d:\HPCHEM\1\DATA\052301\9M15739.D Vial: 4
Acq On : 23 May 2001 16:44 Operator: MES
Sample : WG98011-01 VBLK0523 M8260 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 17:10 2001 Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



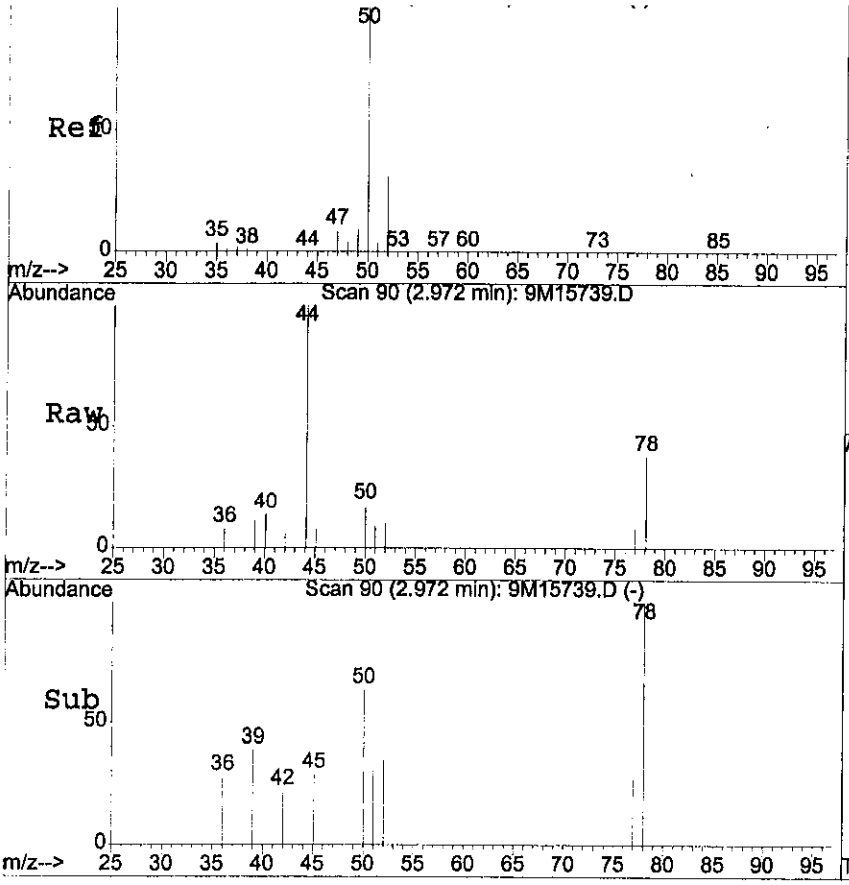
9M15739.D 8260SOIL.M Wed May 23 17:10:37 2001 HPMS_9 Page 2

Data File : d:\HPCHEM\1\DATA\052301\9M15739.D Vial: 4
Acq On : 23 May 2001 16:44 Operator: MES
Sample : WG98011-01 VBLK0523 M8260 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 17:10 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.93	96	618704	50.00	ug/kg	0.02
44) Chlorobenzene-d5	13.77	117	536275	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	348760	50.00	ug/kg	0.01
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	192596	50.18	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.36%			
33) 1,2-Dichloroethane-d4	9.51	65	238688	51.31	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.62%			
45) Toluene-d8	11.90	98	749635	46.31	ug/kg	0.02
Spiked Amount 50.000	Range 81 - 117		Recovery = 92.62%			
66) p-Bromofluorobenzene	15.27	95	362139	50.17	ug/kg	0.01
Spiked Amount 50.000	Range 74 - 121		Recovery = 100.34%			
Target Compounds						Qvalue
3) Chloromethane	2.97	50	1735	Below Cal	#	66
4) Vinyl Chloride	3.16	62	173	Below Cal	#	43
5) Bromomethane	3.95	94	945	0.53	ug/kg#	39
61) Styrene	14.54	104	604	~~1.79 ug/kg#~~		50
71) 1,3,5-Trimethylbenzene	15.61	105	107	~~2.30 ug~~/kg#		30
74) a-Methylstyrene	16.03	118	116	~~3.98 ug~~/kg#		23
75) tert-Butylbenzene	16.11	119	123	~~1.10 ug/kg~~#		1
84) 1,2,4-Trichlorobenzene	19.43	180	3515	0.52	ug/kg# F	81
86) Naphthalene	19.79	128	9054	0.82	ug/kg F	94
87) 1,2,3-Trichlorobenzene	19.43	180	3515	0.52	ug/kg# F	81

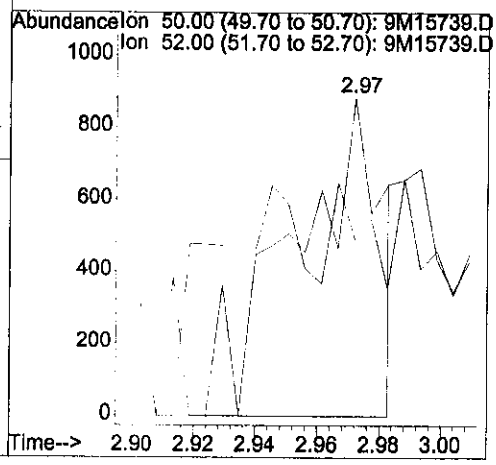
(#) = qualifier out of range (m) = manual integration
9M15739.D 8260SOIL.M Wed May 23 17:10:34 2001 HPMS_9 Page 1

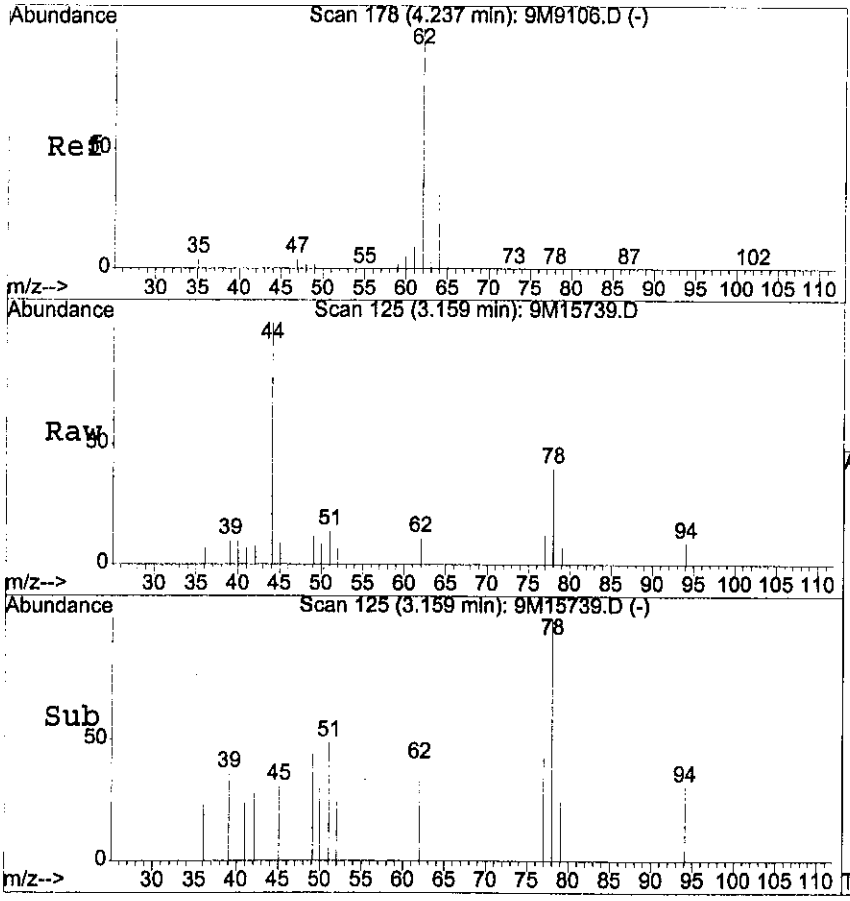


#3
Chloromethane
Concen: Below Cal
RT: 2.97 min Scan# 90
Delta R.T. -0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion: 50 Resp: 1735

Ion	Ratio	Lower	Upper
50	100		
52	12.6	25.4	38.2#

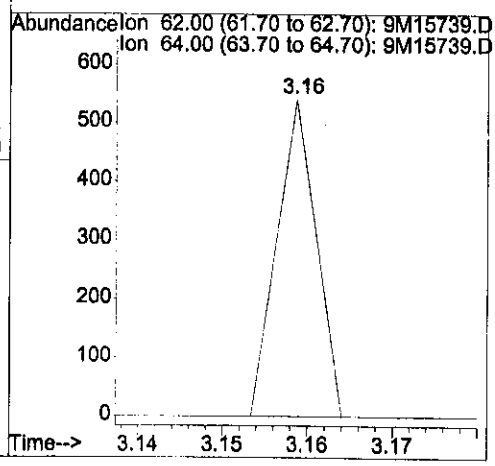


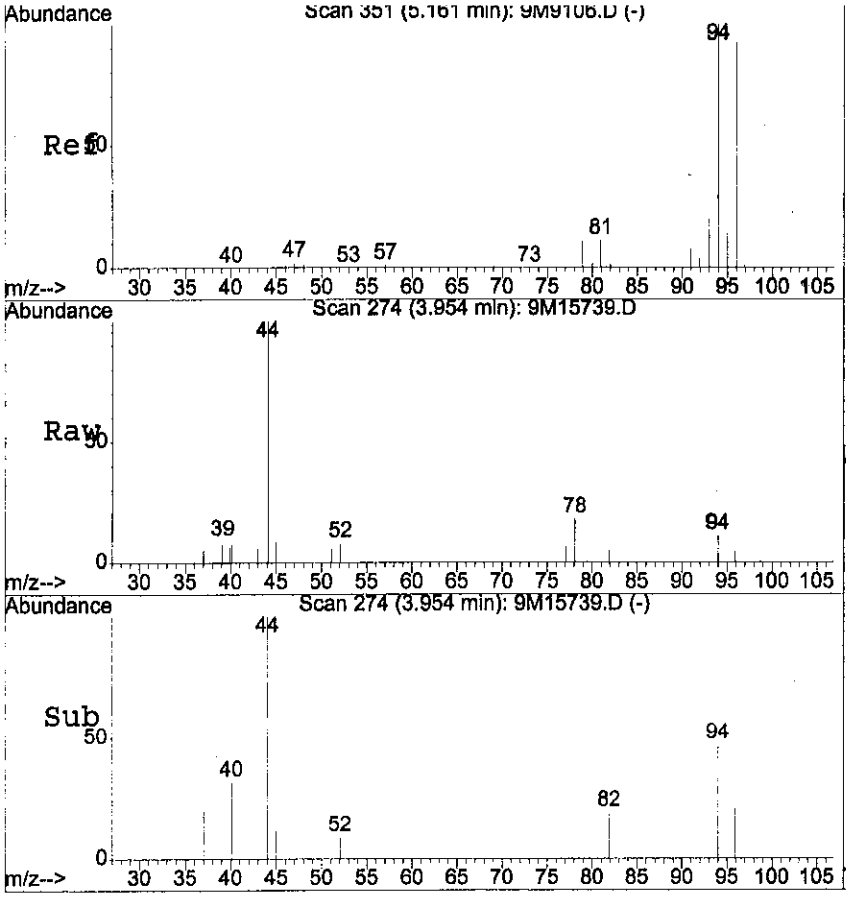


#4
Vinyl Chloride
Concen: Below Cal
RT: 3.16 min Scan# 125
Delta R.T. 0.00 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion: 62 Resp: 173

Ion	Ratio	Lower	Upper
62	100		
64	0.0	25.6	38.4#

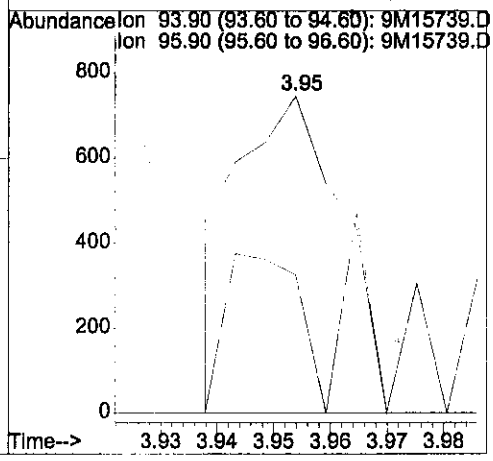


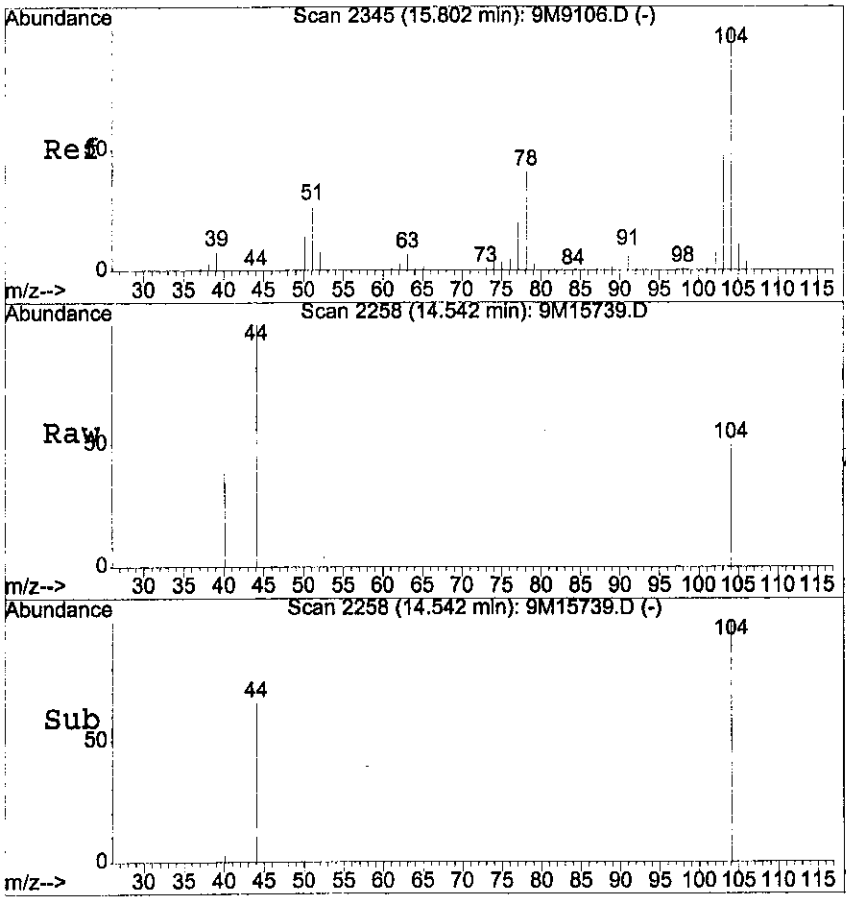


#5
Bromomethane
Concen: 0.53 ug/kg
RT: 3.95 min Scan# 274
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion: 94 Resp: 945

Ion	Ratio	Lower	Upper
94	100		
96	36.1	75.8	113.8#

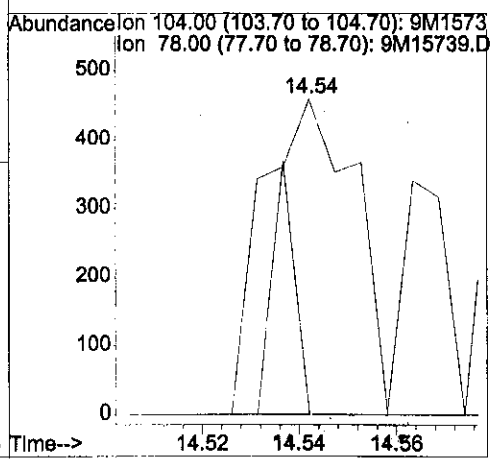


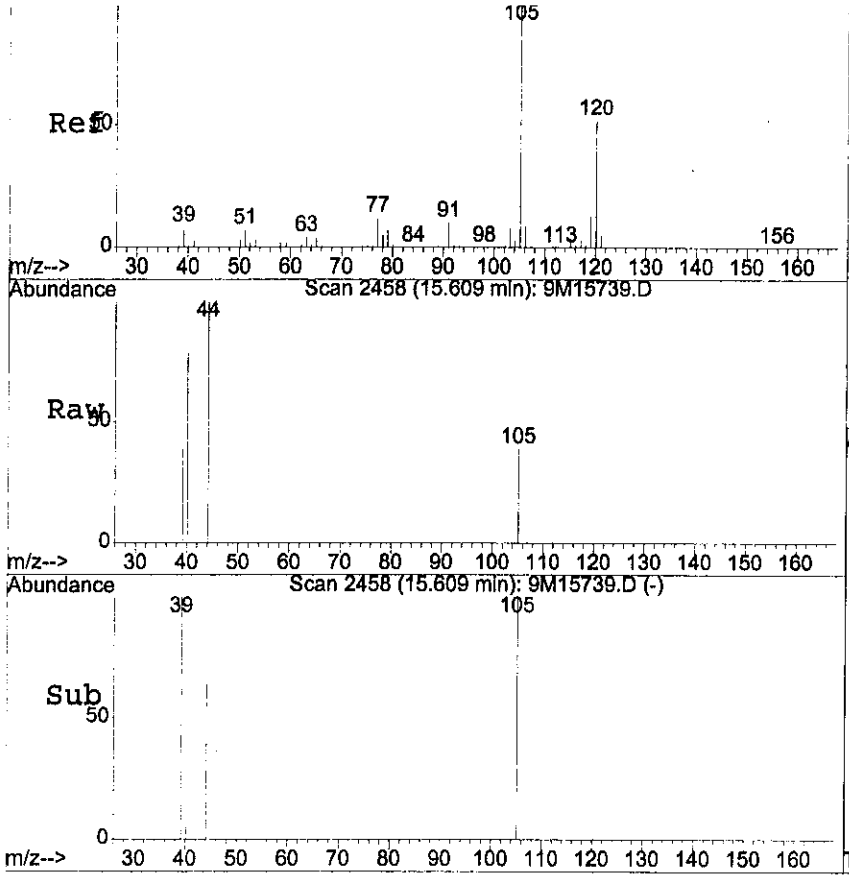


#61
Styrene
Concen: 1.79 ug/kg
RT: 14.54 min Scan# 2258
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion:104 Resp: 604

Ion	Ratio	Lower	Upper
104	100		
78	19.5	45.0	67.4#

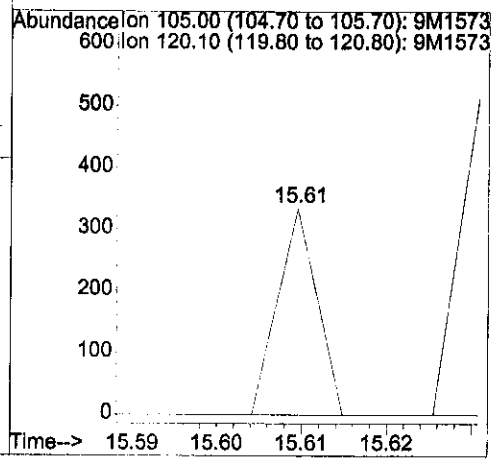


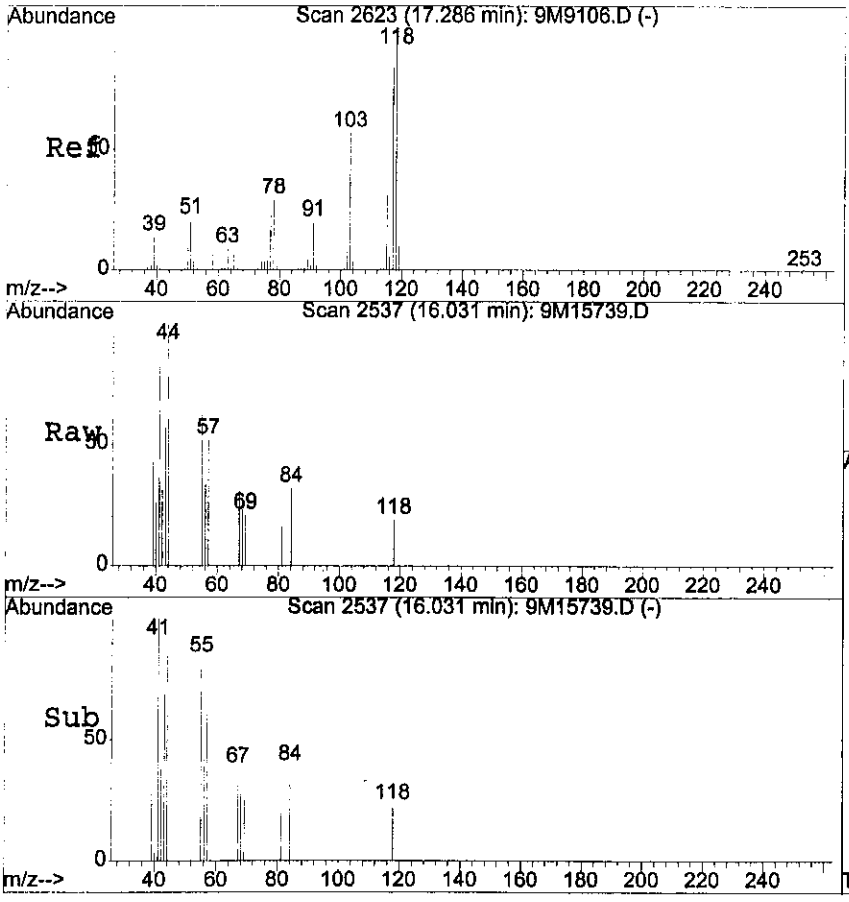


1,3,5-Trimethylbenzene
Concen: 2.30 ug/kg
RT: 15.61 min Scan# 2458
Delta R.T. -0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion:105 Resp: 107

Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.3	55.9#

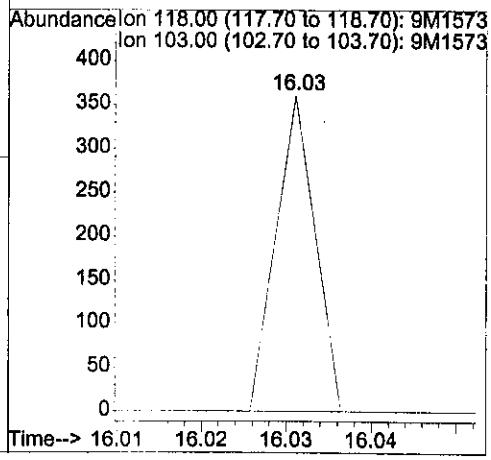


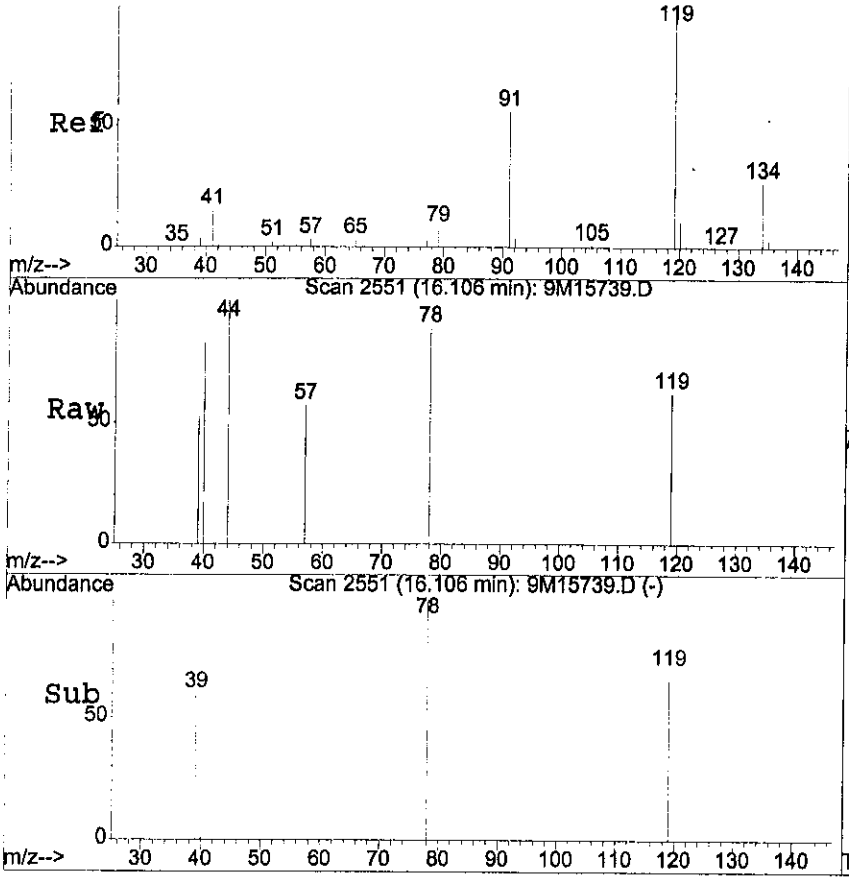


#74
a-Methylstyrene
Concen: 3.98 ug/kg
RT: 16.03 min Scan# 2537
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion:118 Resp: 116

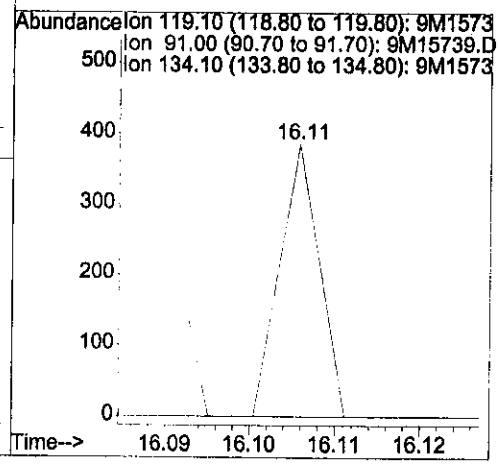
Ion	Ratio	Lower	Upper
118	100		
103	0.0	45.7	68.5#

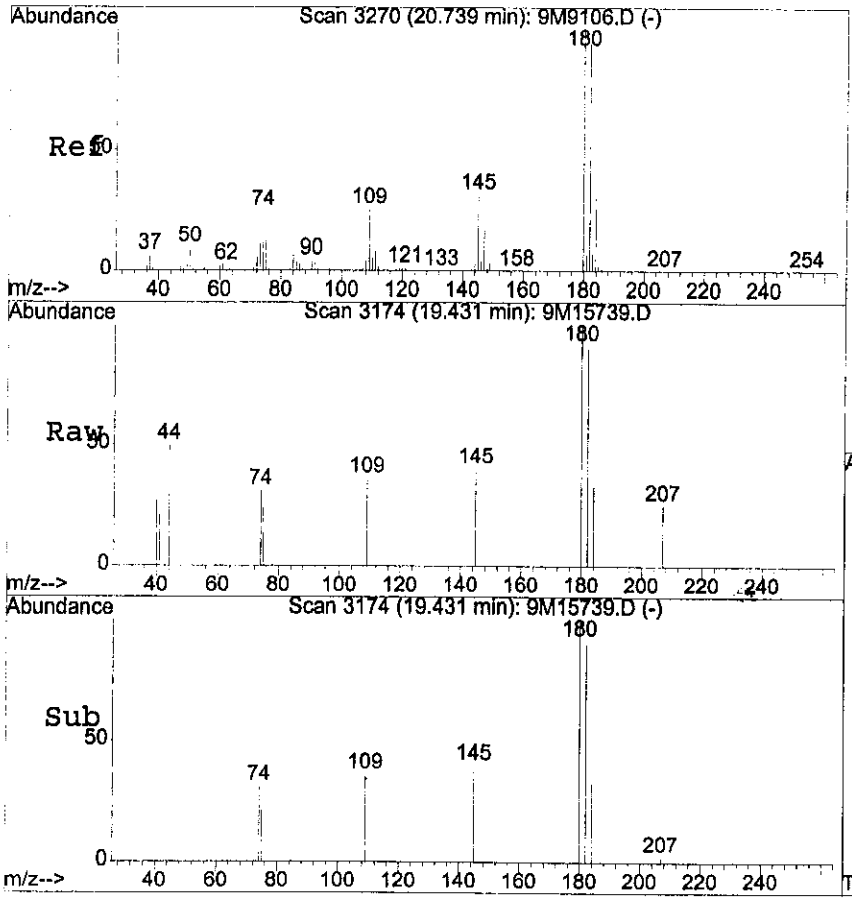




tert-Butylbenzene
Concen: 1.10 ug/kg
RT: 16.11 min Scan# 2551
Delta R.T. 0.02 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

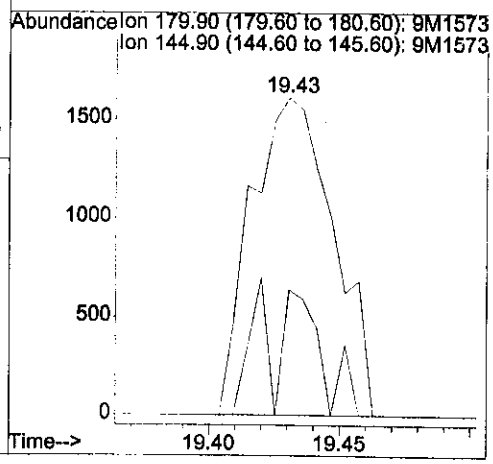
Tgt Ion:119	Resp:	123	
Ion	Ratio	Lower	Upper
119	100		
91	203.3	39.5	59.3#
134	0.0	16.0	24.0#

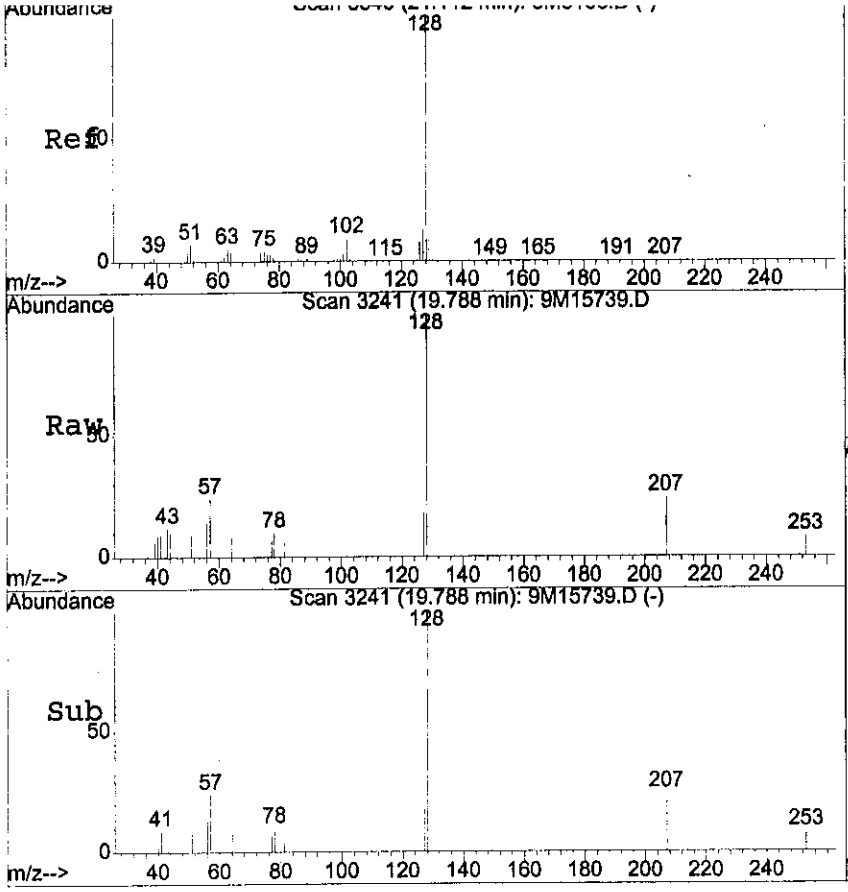




#84
1,2,4-Trichlorobenzene
Concen: 0.52 ug/kg
RT: 19.43 min Scan# 3174
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion:180	Resp:	3515	
Ion	Ratio	Lower	Upper
180	100		
145	18.5	22.6	34.0#

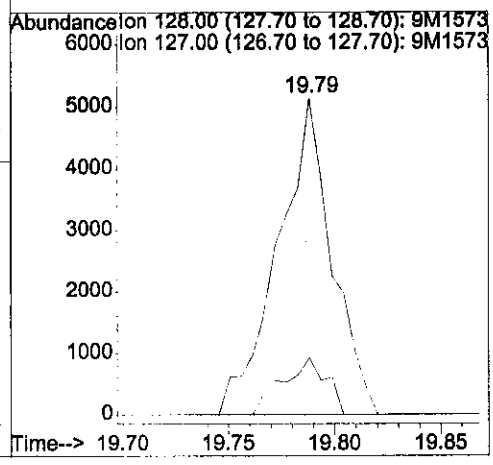


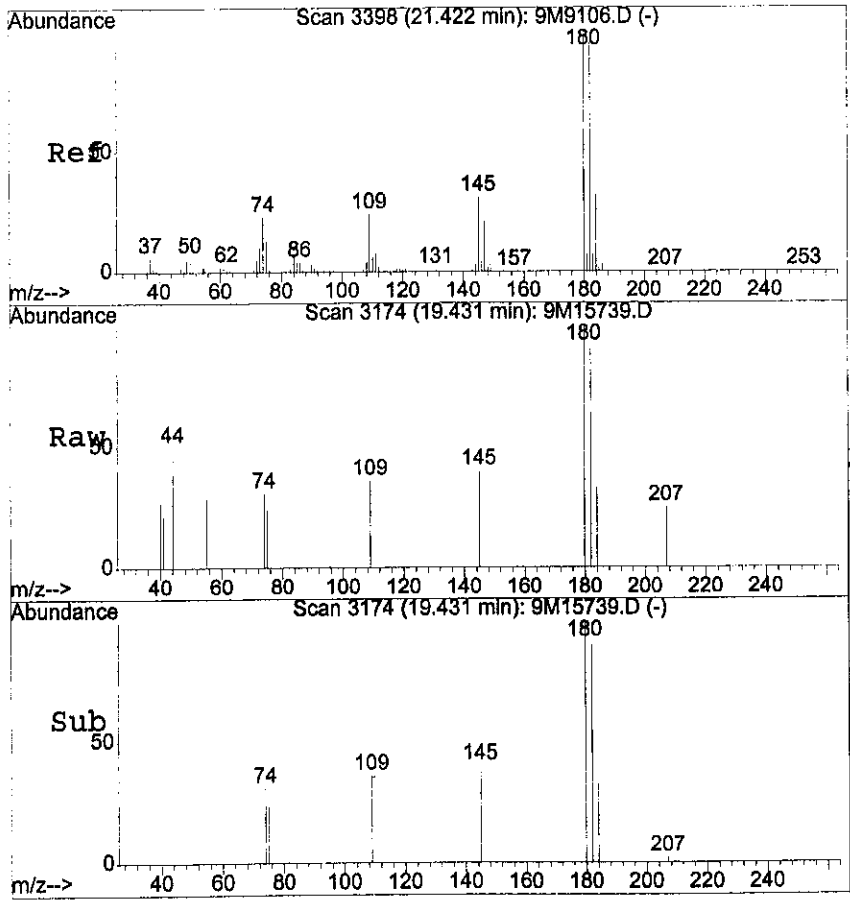


#88
Naphthalene
Concen: 0.82 ug/kg
RT: 19.79 min Scan# 3241
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

Tgt Ion:128 Resp: 9054

Ion	Ratio	Lower	Upper
128	100		
127	14.7	9.9	14.9

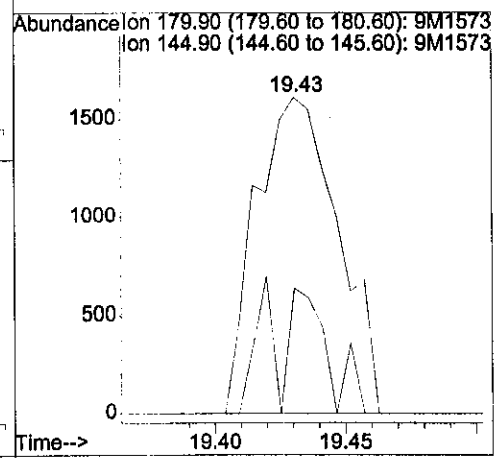




#87
1,2,3-Trichlorobenzene
Concen: 0.52 ug/kg
RT: 19.43 min Scan# 3174
Delta R.T. 0.01 min
Lab File: 9M15739.D
Acq: 23 May 2001 16:44

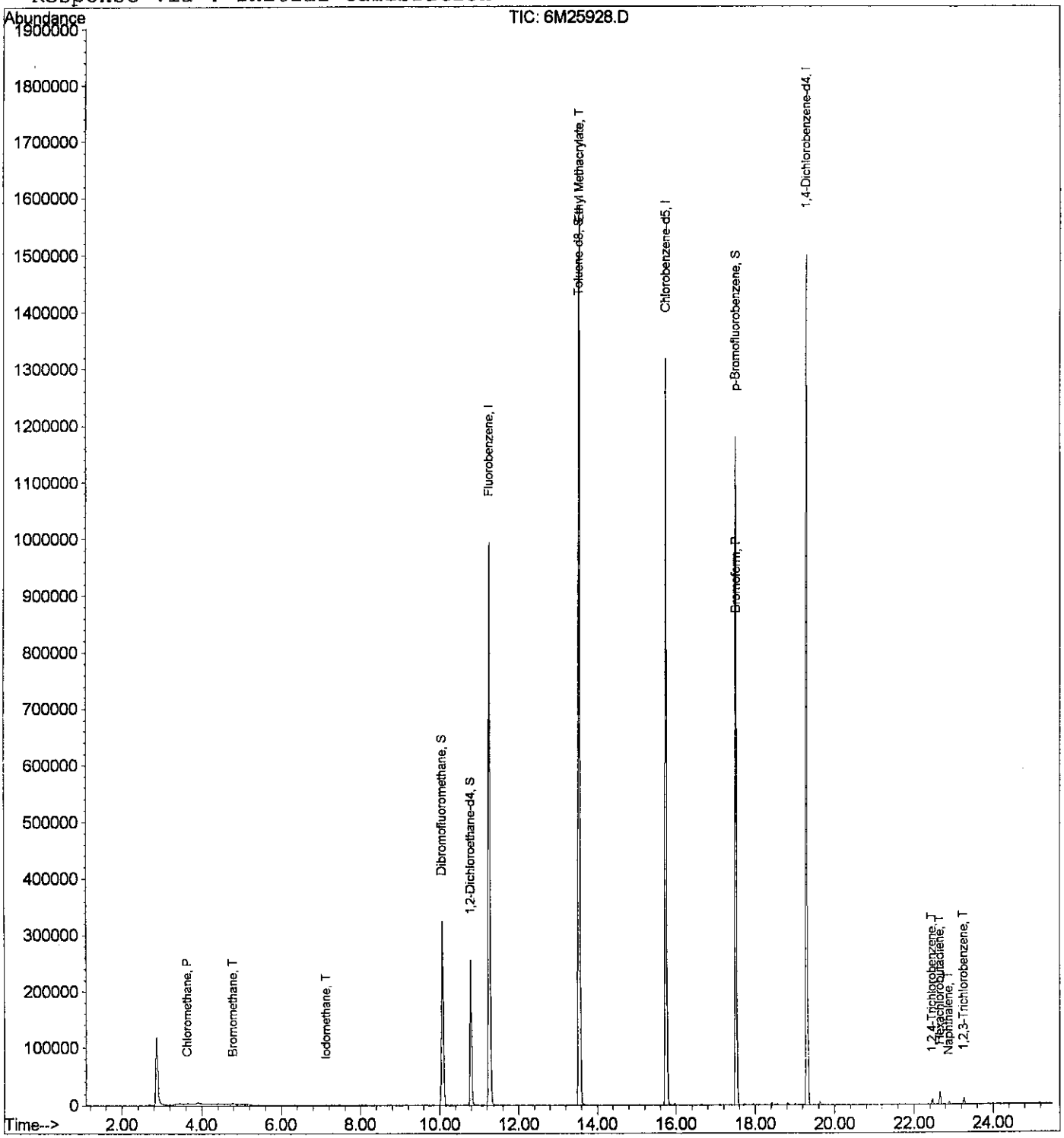
Tgt Ion:180 Resp: 3515

Ion	Ratio	Lower	Upper
180	100		
145	18.5	22.6	34.0#



Data File : C:\HPCHEM\1\DATA\052401\6M25928.D Vial: 3
Acq On : 24 May 2001 8:38 Operator: CMS
Sample : WG98069-03 VBLK0524 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 17:01 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



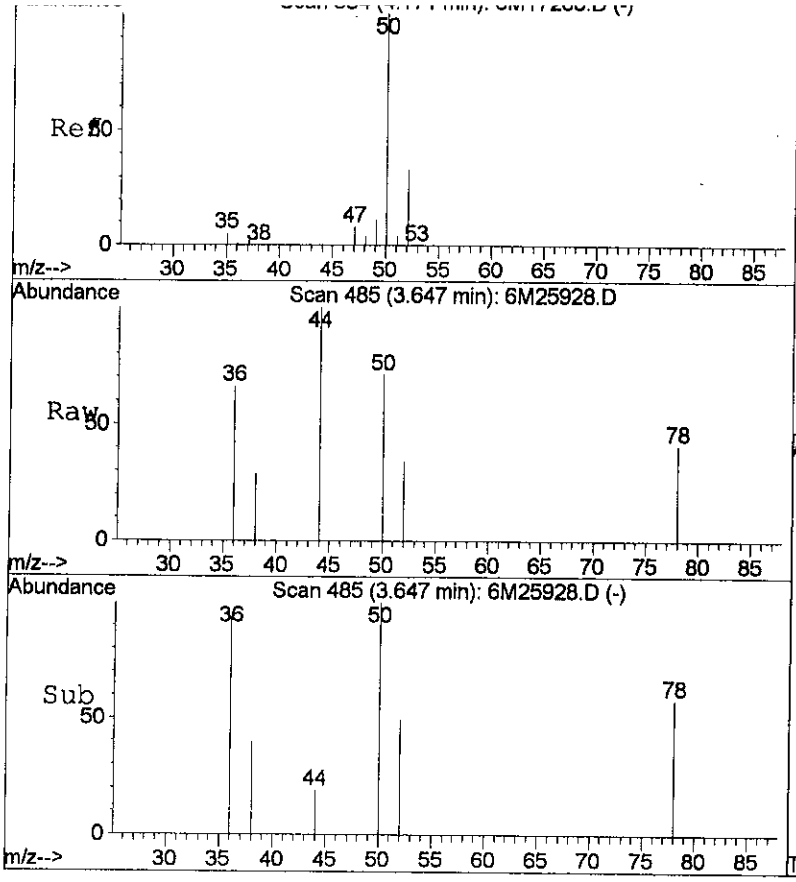
6M25928.D 8260WTR.M Thu May 24 17:01:27 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052401\6M25928.D Vial: 3
Acq On : 24 May 2001 8:38 Operator: CMS
Sample : WG98069-03 VBLK0524 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 17:01 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1336554	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1089179	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	571829	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	330424	22.49	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 89.96%				
33) 1,2-Dichloroethane-d4	10.80	65	275248	22.47	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 89.88%				
45) Toluene-d8	13.55	98	1578091	24.98	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.92%				
66) p-Bromofluorobenzene	17.52	95	572070	25.72	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.88%				
Target Compounds							Qvalue
3) Chloromethane	3.65	50	2459	~~0.12 ug/L~~		#	79
5) Bromomethane	4.79	94	4052	~~0.49 ug/L~~			88
14) Iodomethane	7.12	142	1854	~~3.23 ug/L~~		#	32
47) Ethyl Methacrylate	13.56	69	3237	~~0.40 ug~~/L		#	1
62) Bromoform	17.54	173	891	~~1.60 ug~~/L		#	1
84) 1,2,4-Trichlorobenzene	22.48	180	5497	0.29 ug/L		F	95
85) Hexachlorobutadiene	22.67	225	6950	0.69 ug/L		#F	26
86) Naphthalene	22.89	128	7997	0.37 ug/L		F	97
87) 1,2,3-Trichlorobenzene	23.27	180	6895	0.48 ug/L		F	94

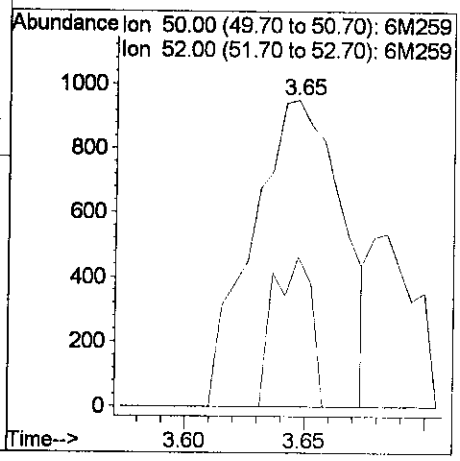
(#) = qualifier out of range (m) = manual integration
6M25928.D 8260WTR.M Thu May 24 17:01:23 2001 Page 1

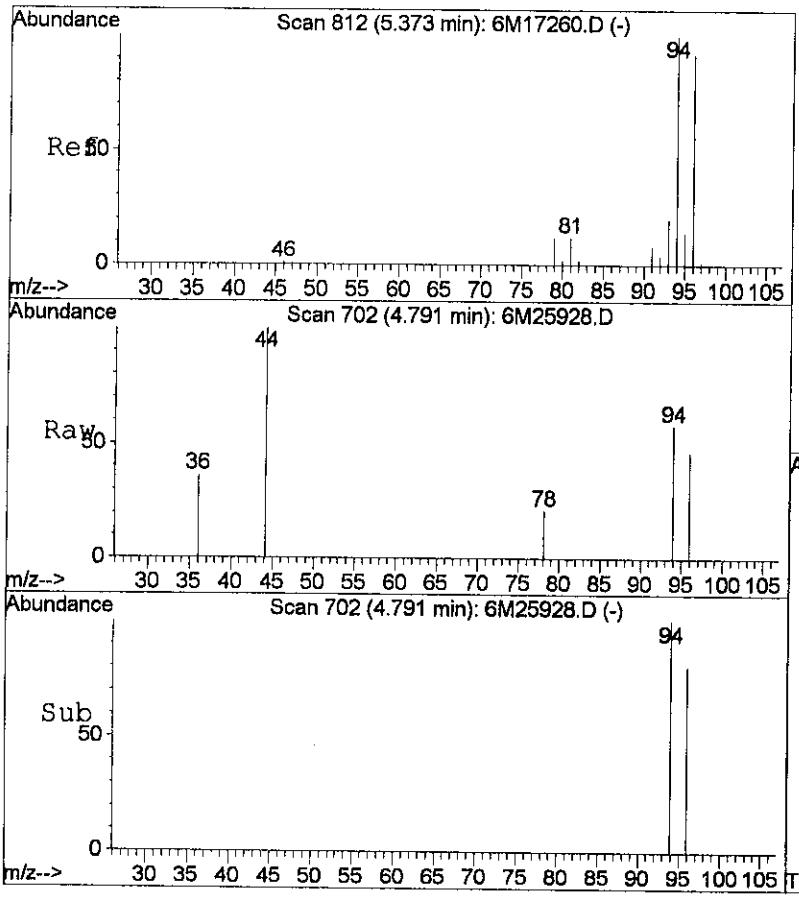


#3
Chloromethane
Concen: 0.12 ug/L
RT: 3.65 min Scan# 485
Delta R.T. 0.00 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion: 50 Resp: 2459

Ion	Ratio	Lower	Upper
50	100		
52	20.6	25.9	38.9#

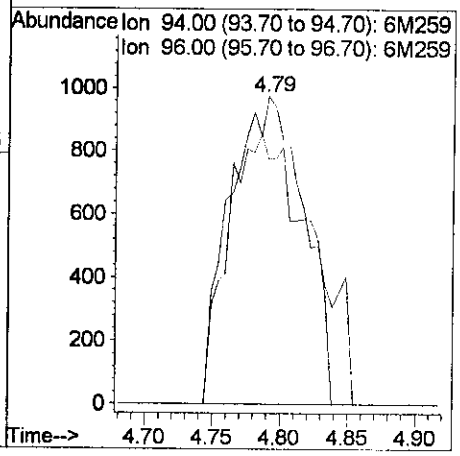


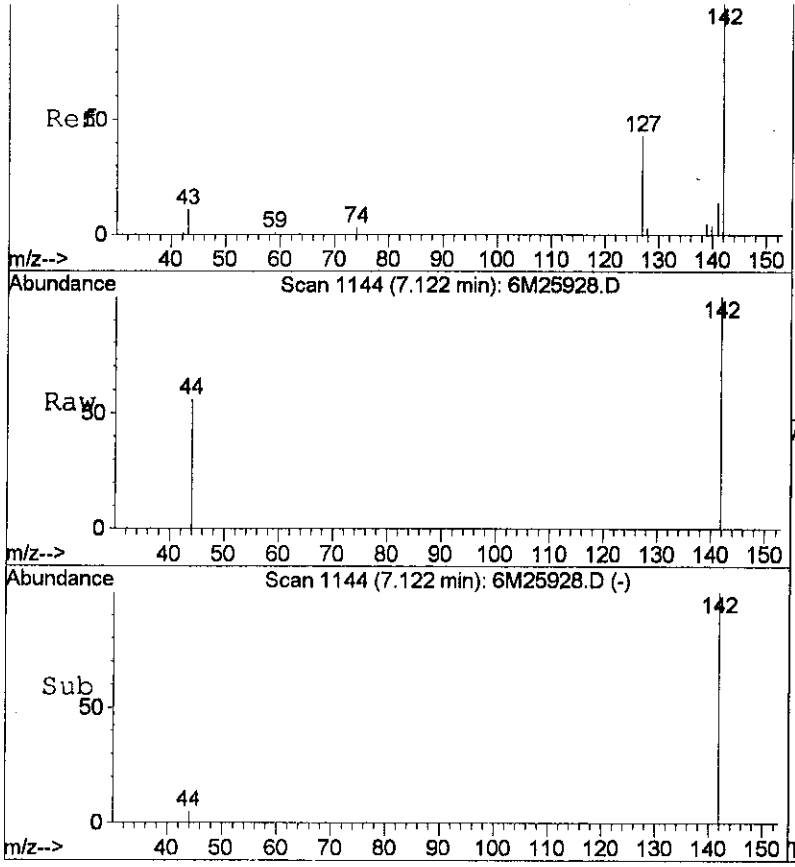


#5
Bromomethane
Concen: 0.49 ug/L
RT: 4.79 min Scan# 702
Delta R.T. 0.02 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion: 94 Resp: 4052

Ion	Ratio	Lower	Upper
94	100		
96	82.6	75.1	112.7

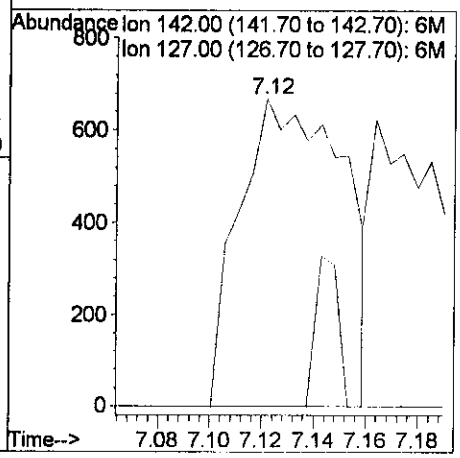


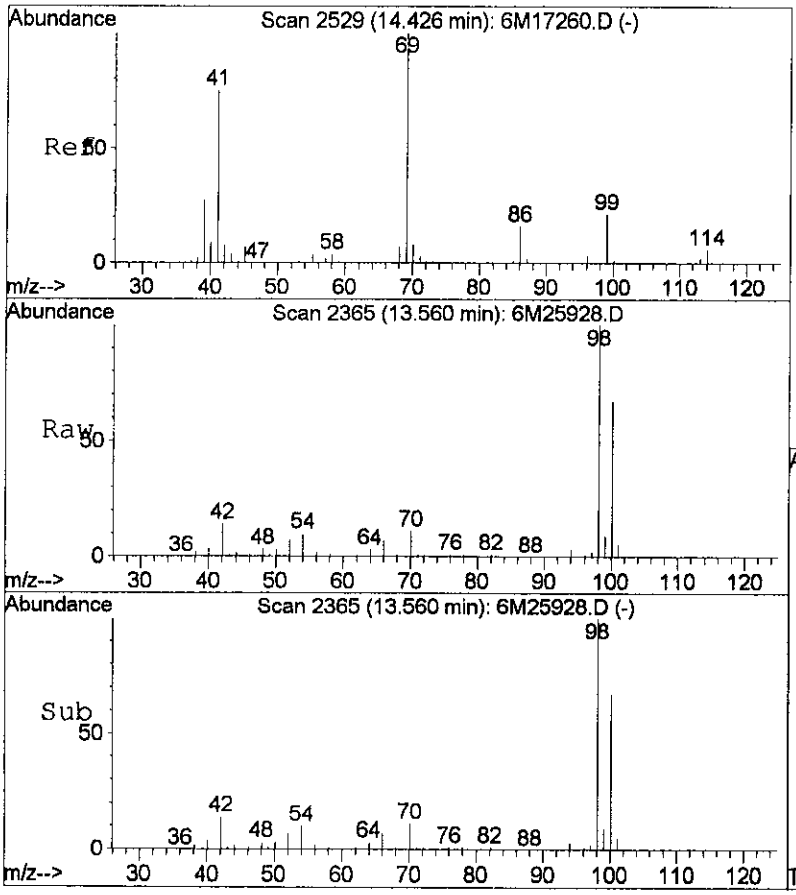


Iodomethane
Concen: 3.23 ug/L
RT: 7.12 min Scan# 1144
Delta R.T. 0.01 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:142 Resp: 1854

Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.4	53.0#

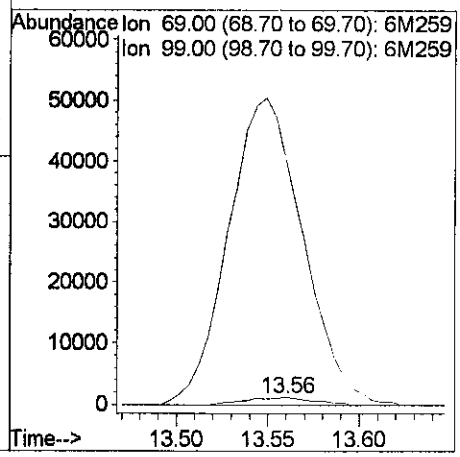


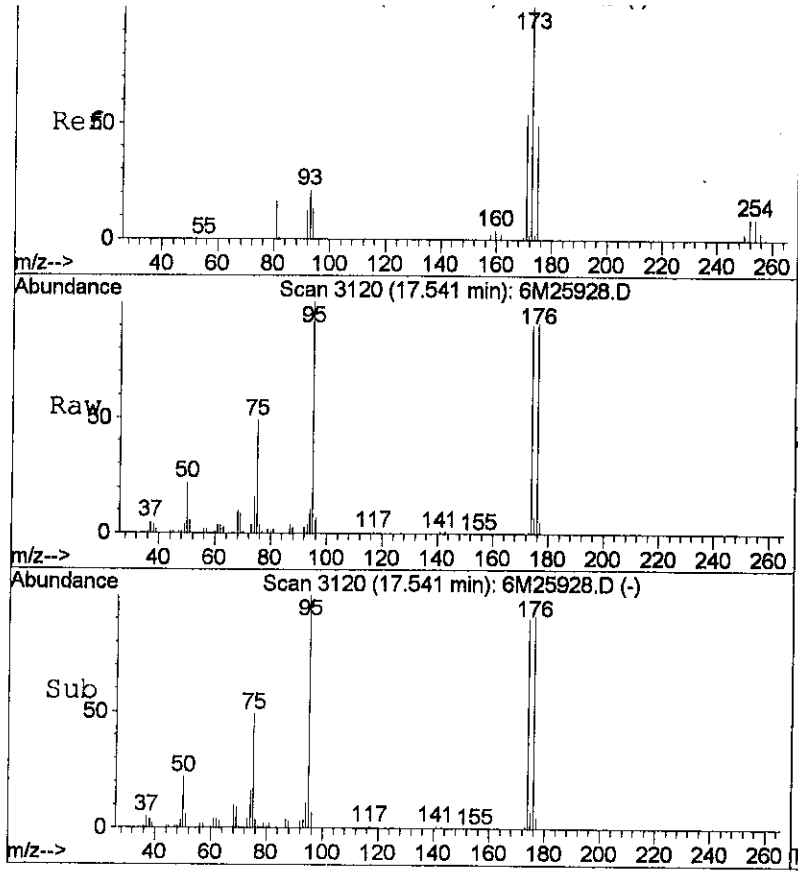


#47
Ethyl Methacrylate
Concen: 0.40 ug/L
RT: 13.56 min Scan# 2365
Delta R.T. -0.24 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion: 69 Resp: 3237

Ion	Ratio	Lower	Upper
69	100		
99	4394.0	16.6	24.8#

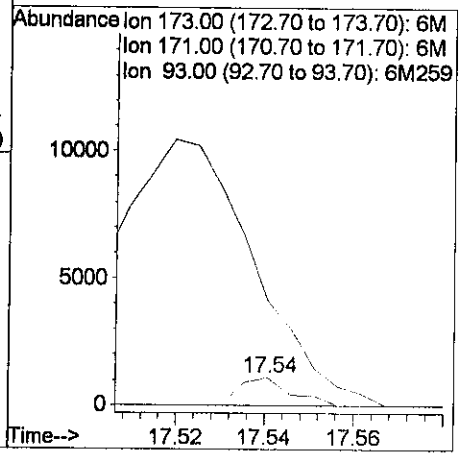


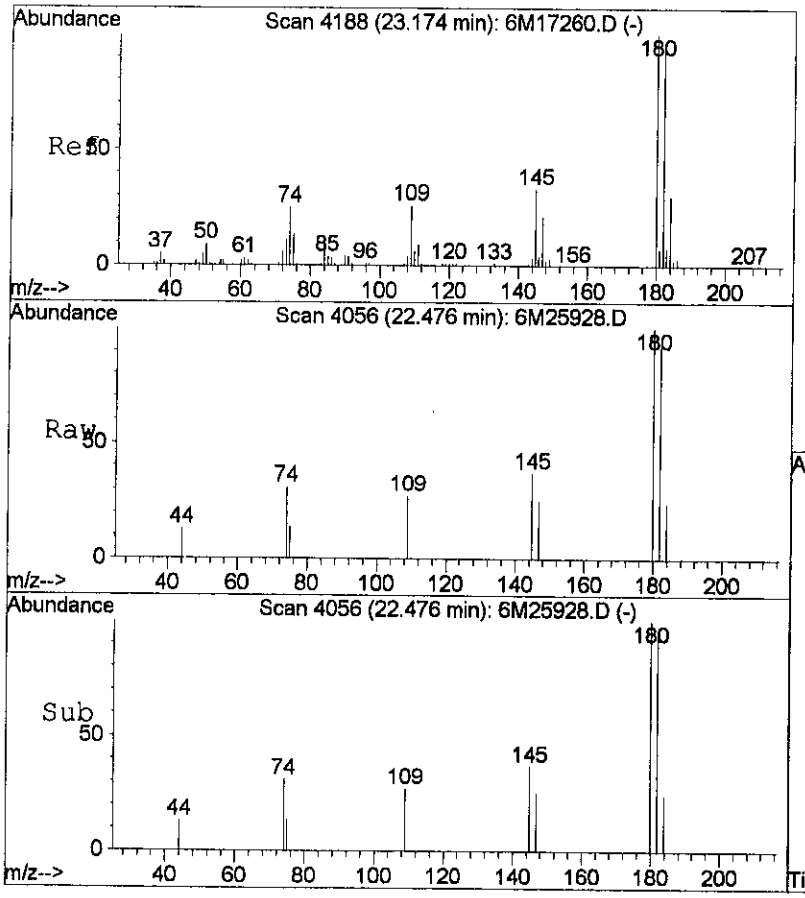


#82
Bromoform
Concen: 1.60 ug/L
RT: 17.54 min Scan# 3120
Delta R.T. 0.34 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:173 Resp: 891

Ion	Ratio	Lower	Upper
173	100		
171	0.0	41.3	61.9#
93	2649.7	18.2	27.2#

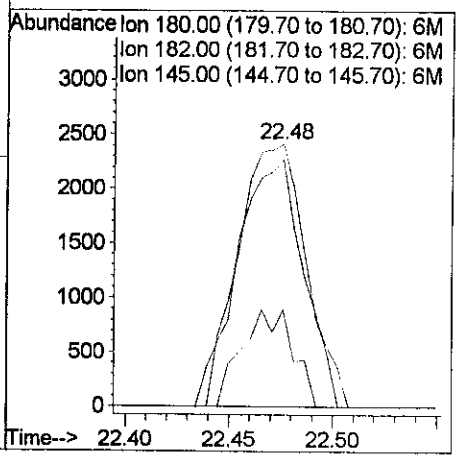


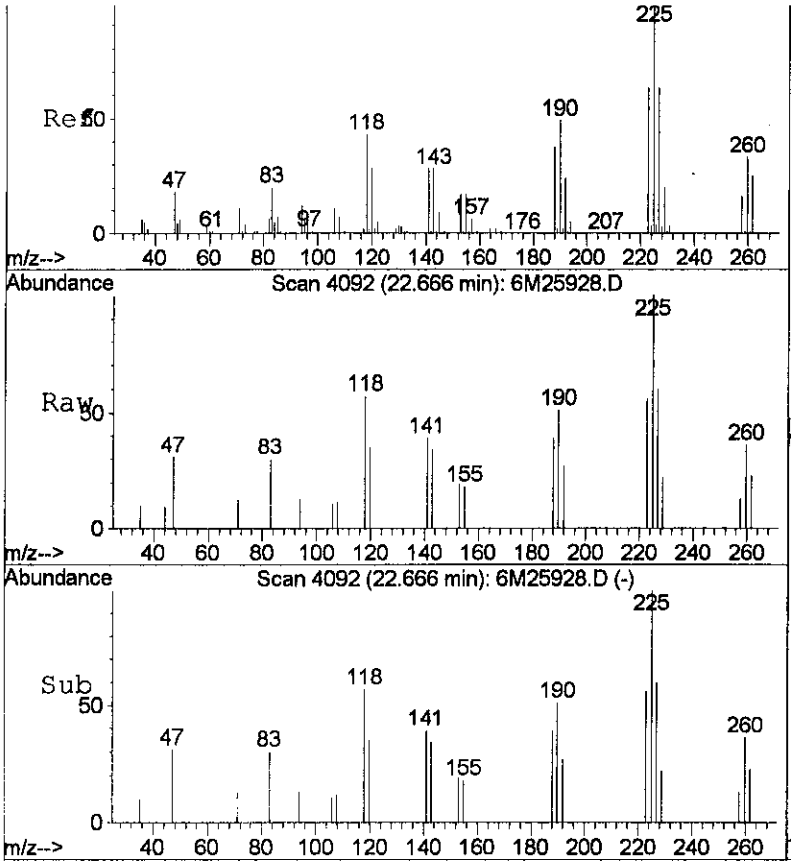


#84
1,2,4-Trichlorobenzene
Concen: 0.29 ug/L
RT: 22.48 min Scan# 4056
Delta R.T. 0.00 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:180 Resp: 5497

Ion	Ratio	Lower	Upper
180	100		
182	91.5	75.8	113.8
145	27.8	27.4	41.0

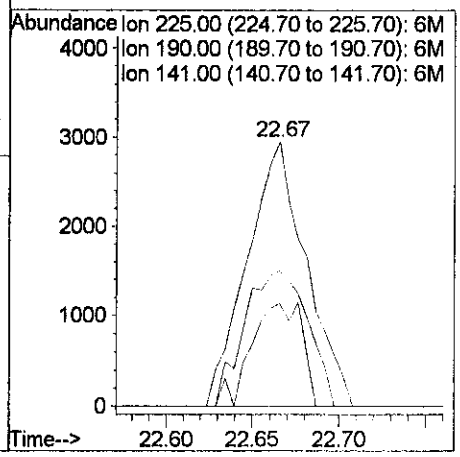


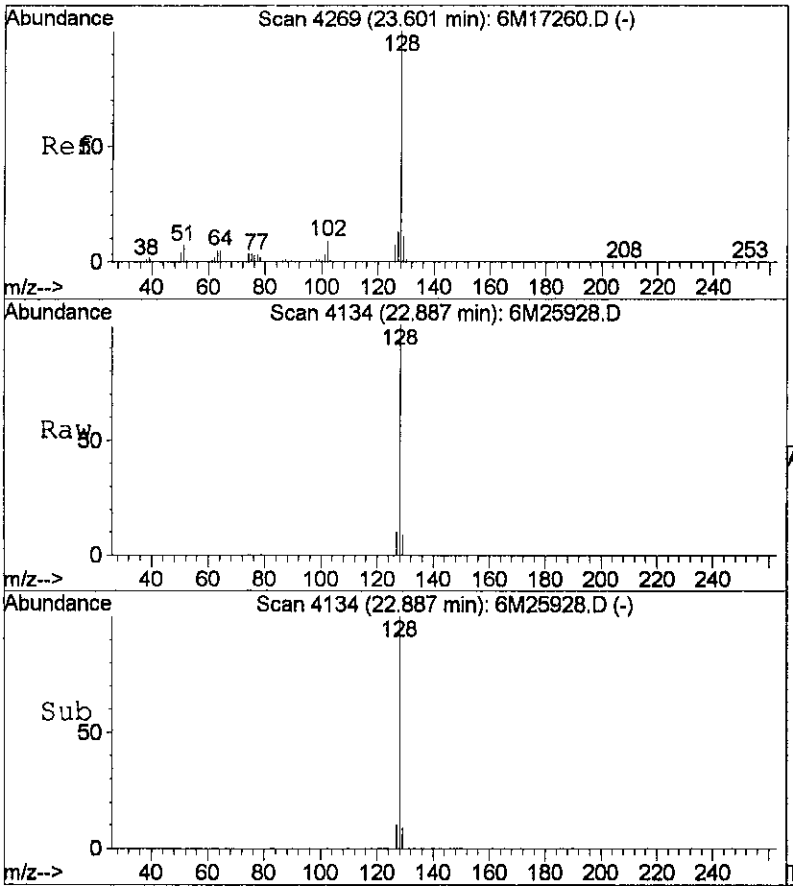


Hexachlorobutadiene
Concen: 0.69 ug/L
RT: 22.67 min Scan# 4092
Delta R.T. -0.00 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:225 Resp: 6950

Ion	Ratio	Lower	Upper
225	100		
190	54.8	0.5	0.7#
141	33.4	0.2	0.4#

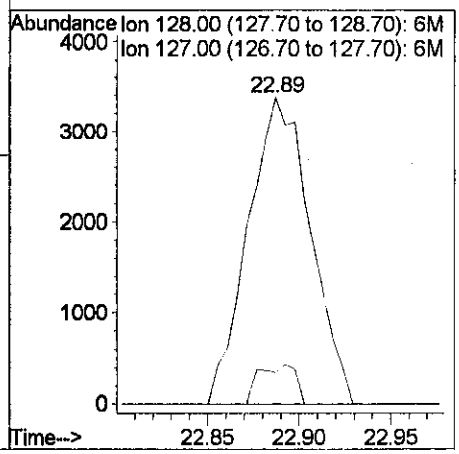


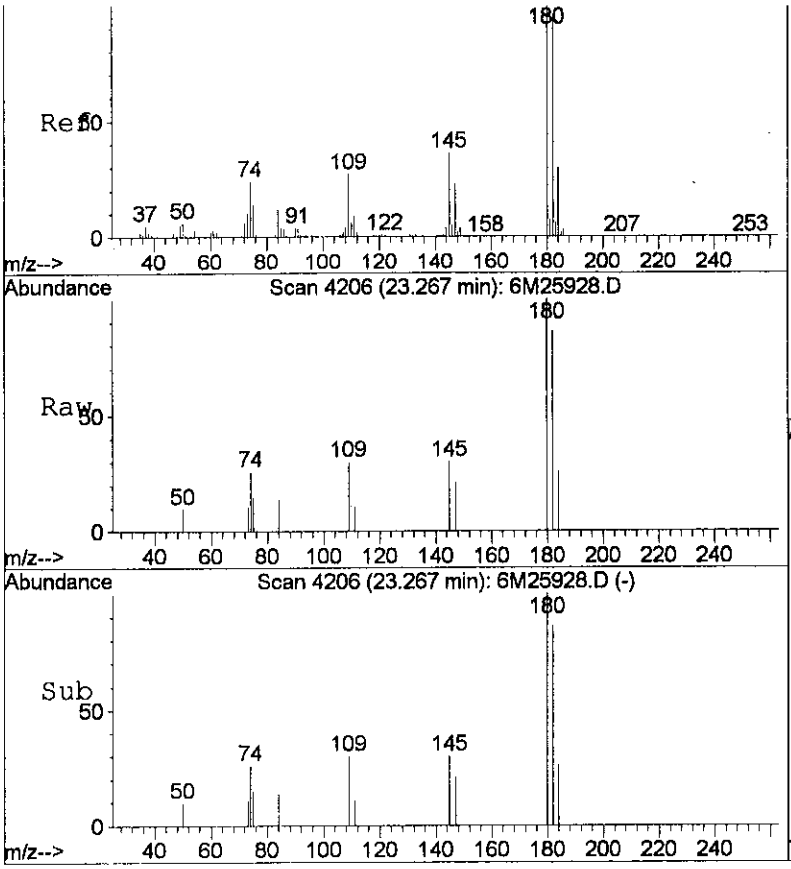


#86
Naphthalene
Concen: 0.37 ug/L
RT: 22.89 min Scan# 4134
Delta R.T. -0.00 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:128 Resp: 7997

Ion	Ratio	Lower	Upper
128	100		
127	7.7	7.1	10.7

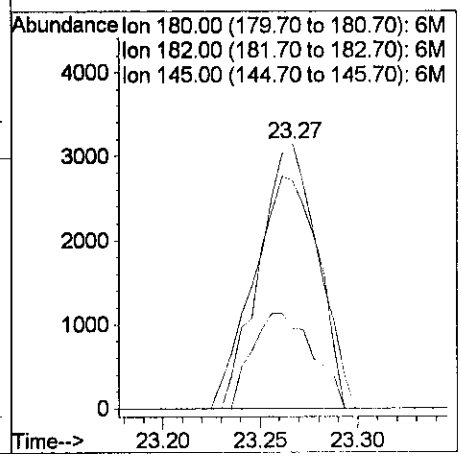




1,2,3-Trichlorobenzene
Concen: 0.48 ug/L
RT: 23.27 min Scan# 4206
Delta R.T. 0.00 min
Lab File: 6M25928.D
Acq: 24 May 2001 8:38

Tgt Ion:180 Resp: 6895

Ion	Ratio	Lower	Upper
180	100		
182	87.1	76.3	114.5
145	35.5	28.8	43.2

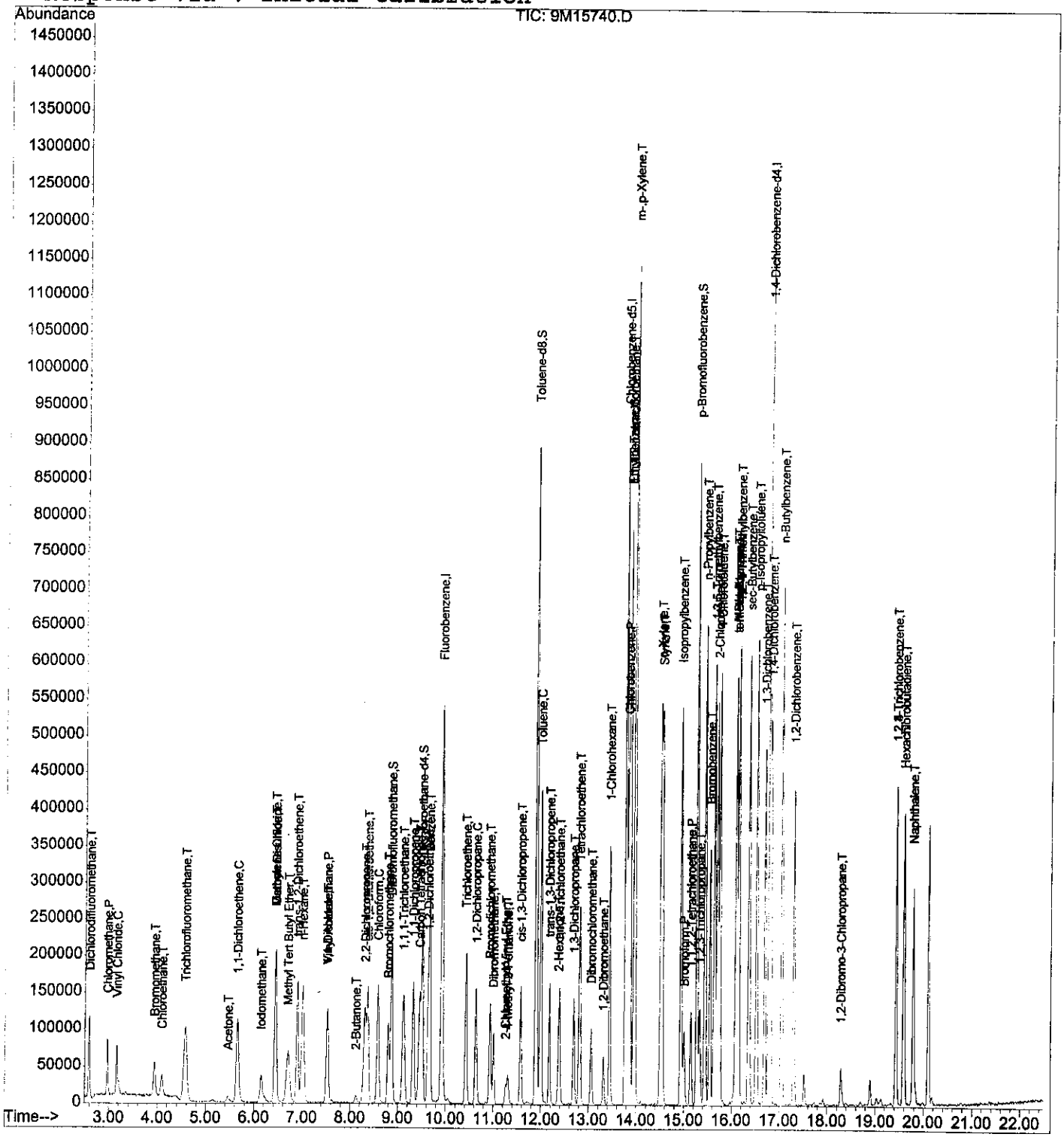


Data File : d:\HPCHEM\1\DATA\052301\9M15740.D
Acq On : 23 May 2001 17:15
Sample : WG98011-02 20PPB LCS M8260 SV7925
Misc : 7,1
MS Integration Params: RTEINT.P
Quant Time: May 23 17:38 2001

Vial: 5
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration



Data File : d:\HPCHEM\1\DATA\052301\9M15740.D Vial: 5
Acq On : 23 May 2001 17:15 Operator: MES
Sample : WG98011-02 20PPB LCS M8260 SV7925 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 17:38 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	9.92	96	663627	50.00	ug/kg	0.01
44) Chlorobenzene-d5	13.78	117	579018	50.00	ug/kg	0.01
64) 1,4-Dichlorobenzene-d4	16.78	152	398293	50.00	ug/kg	0.00
System Monitoring Compounds						
28) Dibromofluoromethane	8.87	111	198505	48.22	ug/kg	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.44%			
33) 1,2-Dichloroethane-d4	9.51	65	249361	49.97	ug/kg	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.94%			
45) Toluene-d8	11.90	98	815309	46.65	ug/kg	0.01
Spiked Amount 50.000	Range 81 - 117		Recovery = 93.30%			
66) p-Bromofluorobenzene	15.27	95	387925	47.06	ug/kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery = 94.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.59	85	126484	15.53	ug/kg	100
3) Chloromethane	2.96	50	85429	22.10	ug/kg	96
4) Vinyl Chloride	3.16	62	66241	19.64	ug/kg	100
5) Bromomethane	3.95	94	48451	25.11	ug/kg	95
6) Chloroethane	4.10	64	40978	22.01	ug/kg	96
7) Trichlorofluoromethane	4.57	101	204899	20.15	ug/kg	99
11) Acetone	5.46	43	19187	18.41	ug/kg	92
12) 1,1-Dichloroethene	5.65	96	77338	22.29	ug/kg	92
14) Iodomethane	6.15	142	68157	30.39	ug/kg	93
15) Methylene Chloride	6.44	84	79723	21.75	ug/kg	91
16) Carbon Disulfide	6.45	76	223195	17.82	ug/kg	99
18) Methyl Tert Butyl Ether	6.71	73	148222	19.83	ug/kg	98
19) trans-1,2-Dichloroethene	6.90	96	90821	23.04	ug/kg	93
20) n-Hexane	7.01	57	140052	23.85	ug/kg	98
21) Vinyl Acetate	7.52	43	50335	13.15	ug/kg	98
22) 1,1-Dichloroethane	7.53	63	172632	22.66	ug/kg	99
23) 2-Butanone	8.12	43	18274	18.63	ug/kg	93
24) 2,2-Dichloropropane	8.31	77	159830	21.90	ug/kg#	76
25) cis-1,2-Dichloroethene	8.38	96	83003	22.27	ug/kg	89
26) Chloroform	8.58	83	186948	23.52	ug/kg	99
27) Bromochloromethane	8.81	128	35335	22.87	ug/kg	91
29) 1,1,1-Trichloroethane	9.12	97	184696	22.12	ug/kg	92
31) 1,1-Dichloropropene	9.32	75	115576	20.64	ug/kg	96
32) Carbon Tetrachloride	9.46	117	163259	22.70	ug/kg	99
34) 1,2-Dichloroethane	9.63	62	137962	22.78	ug/kg	98
35) Benzene	9.66	78	337174	23.64	ug/kg	99
36) Trichloroethene	10.43	130	85562	23.18	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15740.D 8260SOIL.M Wed May 23 17:38:17 2001 HPMS_9 Page 1

Data File : d:\HPCHEM\1\DATA\052301\9M15740.D
Acq On : 23 May 2001 17:15
Sample : WG98011-02 20PPB LCS M8260 SV7925
Misc : 7,1
MS Integration Params: RTEINT.P
Quant Time: May 23 17:38 2001

Vial: 5
Operator: MES
Inst : HPMS9
Multiplr: 1.00

Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1,2-Dichloropropane	10.64	63	75306	22.25	ug/kg	93
38) Bromodichloromethane	10.93	83	122883	22.74	ug/kg	99
39) Dibromomethane	11.01	93	47022	23.44	ug/kg	93
40) 2-Chloroethyl Vinyl Ether	11.26	63	13973	18.48	ug/kg#	89
41) 4-Methyl-2-Pentanone	11.31	58	15436	19.49	ug/kg#	85
42) cis-1,3-Dichloropropene	11.58	75	111727	21.06	ug/kg	98
46) Toluene	12.00	91	422764	22.69	ug/kg	99
48) trans-1,3-Dichloropropene	12.18	75	109298	17.94	ug/kg	94
49) 1,1,2-Trichloroethane	12.39	97	60807	18.63	ug/kg	98
50) 2-Hexanone	12.37	43	27896	13.27	ug/kg#	67
51) 1,3-Dichloropropane	12.69	76	98829	17.81	ug/kg	89
52) Tetrachloroethene	12.82	164	81360	20.38	ug/kg	96
53) Dibromochloromethane	13.06	129	73811	17.87	ug/kg	98
54) 1,2-Dibromoethane	13.31	107	54067	18.24	ug/kg	99
55) 1-Chlorohexane	13.45	91	130776	19.57	ug/kg	83
56) Chlorobenzene	13.82	112	271778	21.08	ug/kg	98
57) 1,1,1,2-Tetrachloroethane	13.86	131	88284	19.17	ug/kg	100
58) Ethylbenzene	13.86	106	157113	22.39	ug/kg	97
59) m-,p-Xylene	13.96	106	420032	48.49	ug/kg	97
60) o-Xylene	14.51	106	185709	23.18	ug/kg	98
61) Styrene	14.55	104	306415	22.20	ug/kg	93
62) Bromoform	15.01	173	50346	18.66	ug/kg	100
63) Isopropylbenzene	14.94	105	485264	21.18	ug/kg	100
65) 1,1,2,2-Tetrachloroethane	15.15	83	79361	17.17	ug/kg	99
67) 1,2,3-Trichloropropane	15.33	110	26039	17.98	ug/kg	96
69) n-Propylbenzene	15.45	91	719198	21.04	ug/kg	100
70) Bromobenzene	15.55	156	118599	20.01	ug/kg	94
71) 1,3,5-Trimethylbenzene	15.64	105	469950	20.83	ug/kg	99
72) 2-Chlorotoluene	15.70	91	442957	20.90	ug/kg	99
73) 4-Chlorotoluene	15.75	91	456885	22.28	ug/kg	98
74) a-Methylstyrene	16.10	118	6864	4.49	ug/kg#	1
75) tert-Butylbenzene	16.09	119	457353	19.15	ug/kg#	77
76) 1,2,4-Trimethylbenzene	16.15	105	496485	21.26	ug/kg	100
77) sec-Butylbenzene	16.36	105	598920	20.55	ug/kg	100
78) p-Isopropyltoluene	16.52	119	491707	19.40	ug/kg	100
79) 1,3-Dichlorobenzene	16.69	146	238659	20.86	ug/kg	98
80) 1,4-Dichlorobenzene	16.82	146	242868	20.10	ug/kg	95
81) n-Butylbenzene	17.05	91	545925	22.72	ug/kg	99
82) 1,2-Dichlorobenzene	17.30	146	210169	20.83	ug/kg	99
83) 1,2-Dibromo-3-Chloropropan	18.29	157	16413	18.48	ug/kg	93
84) 1,2,4-Trichlorobenzene	19.43	180	164862	21.48	ug/kg	98

(#) = qualifier out of range (m) = manual integration

Data File : d:\HPCHEM\1\DATA\052301\9M15740.D Vial: 5
Acq On : 23 May 2001 17:15 Operator: MES
Sample : WG98011-02 20PPB LCS M8260 SV7925 Inst : HPMS9
Misc : 7,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 17:38 2001 Quant Results File: 8260SOIL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260SOIL.M (RTE Integrator)
Title : Method 8260B Soil Analysis 05/11/2001 - HPMS 9
Last Update : Fri May 11 16:54:59 2001
Response via : Initial Calibration
DataAcq Meth : 8260SOIL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85)	Hexachlorobutadiene	19.60	225	122428	21.07	ug/kg	99
86)	Naphthalene	19.79	128	272710	21.53	ug/kg	99
87)	1,2,3-Trichlorobenzene	19.43	180	164862	21.48	ug/kg	98

(#) = qualifier out of range (m) = manual integration
9M15740.D 8260SOIL.M Wed May 23 17:38:19 2001 HPMS_9 Page 3

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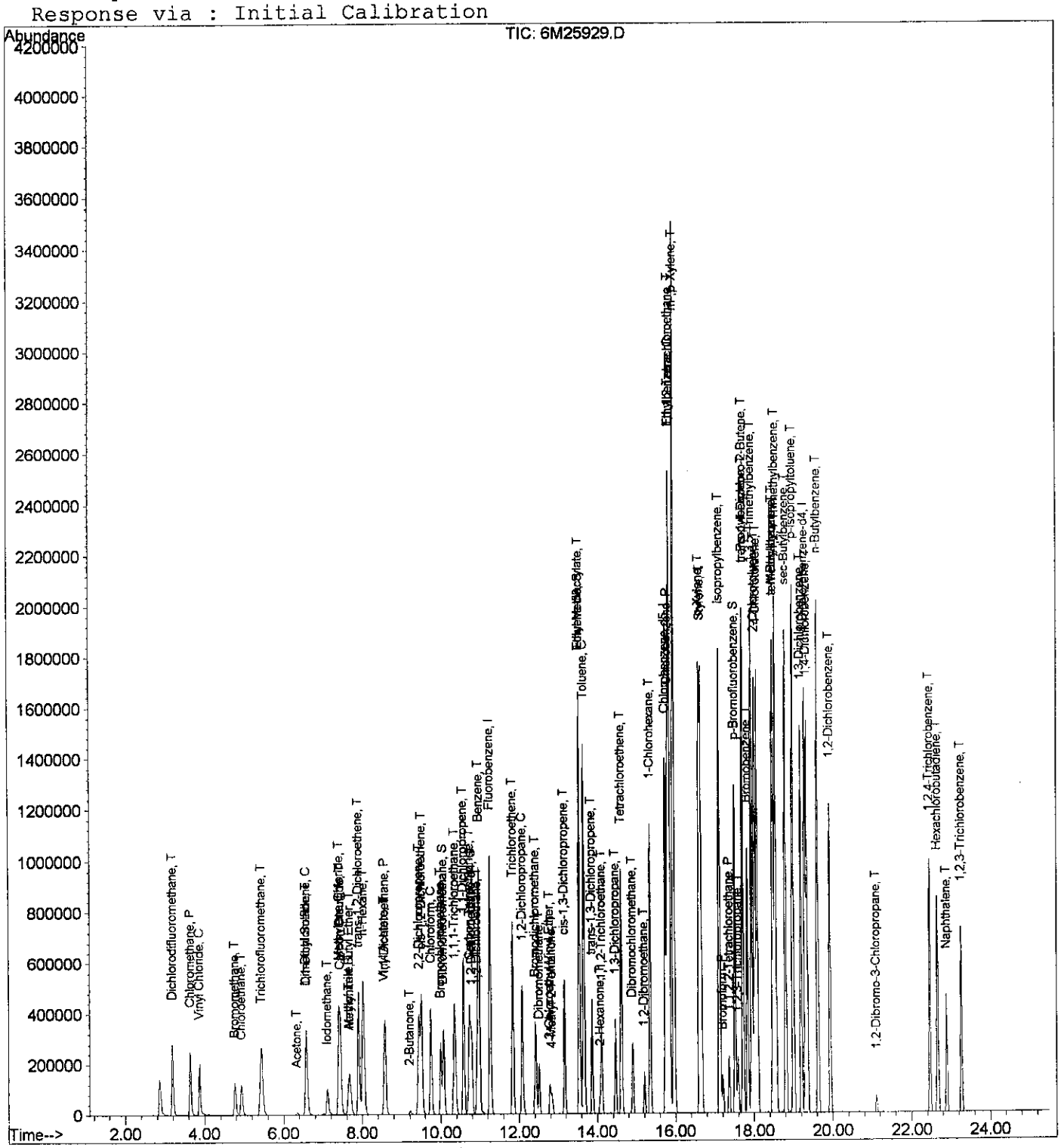
Data File : C:\HPCHEM\1\DATA\052401\6M25929.D Vial: 4
Acq On : 24 May 2001 9:11 Operator: CMS
Sample : WG98069-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV7945 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 16:47 19101 Quant Results File: 8260WTR.RES

Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration



6M25929.D 8260WTR.M Thu May 24 16:48:11 2001 Page 4

Data File : C:\HPCHEM\1\DATA\052401\6M25929.D Vial: 4
Acq On : 24 May 2001 9:11 Operator: CMS
Sample : WG98069-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV7945 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 16:47 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.27	96	1376153	25.00	ug/L		0.00
44) Chlorobenzene-d5	15.75	117	1158541	25.00	ug/L		0.00
64) 1,4-Dichlorobenzene-d4	19.31	152	636591	25.00	ug/L		0.00
System Monitoring Compounds							
28) Dibromofluoromethane	10.07	111	343247	22.69	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 90.76%				
33) 1,2-Dichloroethane-d4	10.80	65	290076	23.00	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.00%				
45) Toluene-d8	13.55	98	1655067	24.63	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.52%				
66) p-Bromofluorobenzene	17.52	95	638489	25.79	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.19	85	430916	17.64	ug/L		96
3) Chloromethane	3.64	50	395865	19.04	ug/L		100
4) Vinyl Chloride	3.87	62	294704	21.18	ug/L		100
5) Bromomethane	4.77	94	164521	19.46	ug/L		99
6) Chloroethane	4.93	64	201942	20.43	ug/L		99
7) Trichlorofluoromethane	5.44	101	580953	21.04	ug/L		99
11) Acetone	6.34	43	24497	18.31	ug/L		94
12) 1,1-Dichloroethene	6.57	96	240675	19.05	ug/L		85
13) Dimethyl Sulfide	6.57	62	36779	2.87	ug/L	#	1
14) Iodomethane	7.11	142	233180	22.19	ug/L		99
15) Methylene Chloride	7.41	84	255862	18.72	ug/L		79
16) Carbon Disulfide	7.44	76	696874	13.15	ug/L		99
17) Acrylonitrile	7.68	53	5002	4.77	ug/L	#	12
18) Methyl Tert Butyl Ether	7.67	73	346924	18.90	ug/L		96
19) trans-1,2-Dichloroethene	7.91	96	289223	19.63	ug/L		89
20) n-Hexane	8.02	57	500099	19.32	ug/L		97
21) Vinyl Acetate	8.56	43	244031	19.27	ug/L		97
22) 1,1-Dichloroethane	8.58	63	546933	19.52	ug/L		97
23) 2-Butanone	9.22	43	36405	20.27	ug/L		92
24) 2,2-Dichloropropane	9.45	77	490877	20.11	ug/L		99
25) cis-1,2-Dichloroethene	9.51	96	284478	19.79	ug/L		87
26) Chloroform	9.75	83	523161	19.91	ug/L		98
27) Bromochloromethane	10.00	128	109809	19.47	ug/L		97
29) 1,1,1-Trichloroethane	10.36	97	551403	20.59	ug/L		92
31) 1,1-Dichloropropene	10.58	75	446787	18.94	ug/L		93
32) Carbon Tetrachloride	10.74	117	520647	21.87	ug/L		100

(#) = qualifier out of range (m) = manual integration
6M25929.D 8260WTR.M Thu May 24 16:47:55 2001

Data File : C:\HPCHEM\1\DATA\052401\6M25929.D Vial: 4
Acq On : 24 May 2001 9:11 Operator: CMS
Sample : WG98069-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV7945 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 16:47 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) 1,2-Dichloroethane	10.93	62	319012	20.06 ug/L #	75
35) Benzene	10.98	78	1238381	20.35 ug/L	95
36) Trichloroethene	11.85	130	389685	20.21 ug/L	97
37) 1,2-Dichloropropane	12.09	63	269473	18.63 ug/L	97
38) Bromodichloromethane	12.43	83	348368	21.28 ug/L	99
39) Dibromomethane	12.51	93	102350	20.33 ug/L	95
40) 2-Chloroethyl Vinyl Ether	12.79	63	63506	16.06 ug/L	97
41) 4-Methyl-2-Pentanone	12.84	58	35286	16.87 ug/L	94
42) cis-1,3-Dichloropropene	13.17	75	379190	21.83 ug/L	99
46) Toluene	13.66	91	1566738	21.79 ug/L	97
47) Ethyl Methacrylate	13.55	69	3346	0.39 ug/L #	1
48) trans-1,3-Dichloropropene	13.87	75	310520	22.08 ug/L	100
49) 1,1,2-Trichloroethane	14.11	97	154053	20.99 ug/L	99
50) 2-Hexanone	14.07	43	64082	18.20 ug/L	96
51) 1,3-Dichloropropane	14.47	76	274955	20.62 ug/L	90
52) Tetrachloroethene	14.62	164	337439	21.71 ug/L	98
53) Dibromochloromethane	14.90	129	224123	21.40 ug/L	100
54) 1,2-Dibromoethane	15.20	107	158846	21.28 ug/L	99
55) 1-Chlorohexane	15.36	91	498995	20.60 ug/L	89
56) Chlorobenzene	15.81	112	1074028	19.99 ug/L	98
57) 1,1,1,2-Tetrachloroethane	15.85	131	339994	22.78 ug/L	96
58) Ethylbenzene	15.85	106	648684	20.77 ug/L	96
59) m-,p-Xylene	15.96	106	1627179	42.35 ug/L	93
60) o-Xylene	16.62	106	761092	21.80 ug/L	99
61) Styrene	16.66	104	1222397	21.86 ug/L	98
62) Bromoform	17.21	173	106592	19.00 ug/L	99
63) Isopropylbenzene	17.13	105	2027342	20.71 ug/L	97
65) 1,1,2,2-Tetrachloroethane	17.37	83	158543	20.46 ug/L	100
67) 1,2,3-Trichloropropane	17.59	110	55886	22.17 ug/L	96
68) trans-1,4-Dichloro-2-Buten	17.72	53	14216	8.41 ug/L #	1
69) n-Propylbenzene	17.72	91	2418576	22.02 ug/L	98
70) Bromobenzene	17.85	156	437305	21.06 ug/L	96
71) 1,3,5-Trimethylbenzene	17.96	105	1824515	22.49 ug/L	97
72) 2-Chlorotoluene	18.03	91	1497483	21.89 ug/L	98
73) 4-Chlorotoluene	18.09	91	1429306	20.89 ug/L	99
74) a-Methylstyrene	18.49	118	26144	0.68 ug/L #	1
75) tert-Butylbenzene	18.49	119	1628284	20.59 ug/L	99
76) 1,2,4-Trimethylbenzene	18.56	105	1842418	21.03 ug/L	97
77) sec-Butylbenzene	18.82	105	2223757	21.13 ug/L	98
78) p-Isopropyltoluene	19.01	119	1975021	20.71 ug/L	98
79) 1,3-Dichlorobenzene	19.21	146	934869	20.97 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M25929.D 8260WTR.M Thu May 24 16:47:59 2001 Page 2

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Data File : C:\HPCHEM\1\DATA\052401\6M25929.D Vial: 4
Acq On : 24 May 2001 9:11 Operator: CMS
Sample : WG98069-04 20 PPB LCS STD 8260 Inst : HPMS6
Misc : 1,1 SV7945 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 16:47 19101 Quant Results File: 8260WTR.RES

Quant Method : C:\HPCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B_WATER - ICAL 05/21/01 - HPMS6
Last Update : Thu May 24 13:45:00 2001
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
80)	1,4-Dichlorobenzene	19.36	146	910267	20.00	ug/L		99
81)	n-Butylbenzene	19.63	91	1706247	21.21	ug/L		99
82)	1,2-Dichlorobenzene	19.94	146	740952	20.53	ug/L		100
83)	1,2-Dibromo-3-Chloropropan	21.11	157	30105	20.77	ug/L		96
84)	1,2,4-Trichlorobenzene	22.47	180	442735	20.99	ug/L		96
85)	Hexachlorobutadiene	22.67	225	235740	21.10	ug/L	#	25
86)	Naphthalene	22.89	128	529034	21.93	ug/L	#	90
87)	1,2,3-Trichlorobenzene	23.27	180	325634	20.50	ug/L		96

(#) = qualifier out of range (m) = manual integration
6M25929.D 8260WTR.M Thu May 24 16:48:00 2001 Page 3

Directory:

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	9M15551.D	1.	WG97218-01 50NG BFB SV7908	SOLID,1 ✓	11 May 2001 09:35
2	2	9M15552.D	1.	WG97218-02 50PPB STD M8260 SV7907	SOLID,1 RUN CCV	11 May 2001 10:07
3	3	9M15553.D	1.	WG97218-03 VBLK0511 M8260	SOLID,1 ✓	11 May 2001 10:40
4	4	9M15554.D	1.	WG97218-03 VBLK0511 M8260	SOLID,1 ✓	11 May 2001 11:11
5	1	9M15555.D	1.	WG97218-02 1PPB SOIL STD M8260 SV7917	SOLID,1 RR	11 May 2001 11:43
6	2	9M15556.D	1.	WG97218-02 1PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 12:15
7	2	9M15557.D	1.	WG97218-03 2PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 12:46
8	3	9M15558.D	1.	WG97218-04 5PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 13:18
9	4	9M15559.D	1.	WG97218-05 10PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 13:50
10	5	9M15560.D	1.	WG97218-06 20PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 14:22
11	6	9M15561.D	1.	WG97218-07 50PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 14:55
12	7	9M15562.D	1.	WG97218-08 100PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 15:27
13	8	9M15563.D	1.	WG97218-09 200PPB SOIL STD M8260 SV7917	SOLID,1 ✓	11 May 2001 15:59
14	9	9M15564.D	1.	WG97218 SYSTEM BLANK	SOLID,1 ✓	11 May 2001 16:30
15	10	9M15565.D	1.	WG97218 SYSTEM BLANK	SOLID,1 ✓	11 May 2001 17:02
16	11	9M15566.D	1.	WG97218-10 20PPB ALT SOURCE SV7911	SOLID,1 RR	11 May 2001 17:34
17	12	9M15567.D	1.	WG97218-10 20PPB ALT SOURCE SV7911	SOLID,1 ✓	11 May 2001 18:26
18	1	9M15568.D	1.	WG97269-01 BFB 50NG	WATER,1 SV7908 ✓	11 May 2001 19:10
19	2	9M15569.D	1.	WG97269-02 CCV 50PPB 5G/5ML	SOLID,1 SV7917 ✓	11 May 2001 19:55
20	3	9M15570.D	1.	WG97269-03 VBLK 0511	SOLID,1 RR C10	11 May 2001 20:34
21	4	9M15571.D	1.	WG97269-03 VBLK 0511	SOLID,1 ✓	11 May 2001 21:06
22	5	9M15572.D	1.	WG97269-04 LCS 20PPB	SOLID,1 ✓	11 May 2001 21:37
23	6	9M15573.D	1.	SYSTEM BLANK	SOLID,1 ✓	11 May 2001 22:10
24	7	9M15574.D	0.9	L0105181-01 A 826-AF98-SPE 5.81G/5ML	SOLID,0.9 ✓	11 May 2001 22:44
25	8	9M15575.D	1.	L0105181-01 MS A 826-AF98-SPE 5.81G/5ML	SOLID,1 SV7911 ✓	11 May 2001 23:18
26	9	9M15576.D	1.	L0105181-01 MSD A 826-AF98-SPE 5.81G/5M	SOLID,1 SV7911 ✓	11 May 2001 23:52
27	10	9M15577.D	1.	L0105181-02 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 00:25
28	11	9M15578.D	1.	L0105181-03 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 00:59
29	12	9M15579.D	1.	L0105181-04 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 01:34
30	13	9M15580.D	1.	L0105181-05 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 02:08
31	14	9M15581.D	1.	L0105181-06 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 02:42
32	15	9M15582.D	1.	L0105181-07 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 03:16
33	16	9M15583.D	1.	L0105181-08 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 03:51
34	17	9M15584.D	1.	L0105181-09 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 04:25
35	18	9M15585.D	1.	L0105181-10 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 05:00
36	19	9M15586.D	1.	L0105181-11 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 05:34
37	20	9M15587.D	1.	L0105181-12 A 826-AF98-SPE 5.81G/5ML	SOLID,1 ✓	12 May 2001 06:09

Directory: d:\HPCHEM\1\DATA\051101

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
38	21	9M15588.D	1.	L0105181-13 A 826-AF98-SPE 5.81G/5ML	SOLID,1	12 May 2001 06:43

Directory: c:\hpchem\1\data\052101

Analyst: CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m25824.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 11:40
2	2	6m25825.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 12:10
3	3	6m25826.d	1.	RR BFB 50NG STD SV7908	WATER,1	21 May 01 12:39
4	4	6m25827.d	1.	✓BFB 50NG STD SV7908	WATER,1	21 May 01 13:24
5	5	6m25828.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 13:55
6	6	6m25829.d	1.	✓WG97810-01 BFB 50NG STD	WATER,1 SV7908	21 May 01 14:46
7	7	6m25830.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 15:16
8	8	6m25831.d	1.	✓WG97810-02 0.25 PPB STD	WATER,1 SV7940	21 May 01 16:14
9	9	6m25832.d	1.	✓WG97810-03 0.5 PPB STD	WATER,1 SV7940	21 May 01 16:46
10	10	6m25833.d	1.	✓WG97810-04 1 PPB STD	WATER,1 SV7940	21 May 01 17:19
11	11	6m25834.d	1.	✓WG97810-05 2 PPB STD	WATER,1 SV7940	21 May 01 18:02
12	12	6m25835.d	1.	✓WG97810-06 5 PPB STD	WATER,1 SV7940	21 May 01 18:35
13	13	6m25836.d	1.	✓WG97810-07 20 PPB STD	WATER,1 SV7940	21 May 01 19:07
14	14	6m25837.d	1.	✓WG97810-08 50 PPB STD	WATER,1 SV7940	21 May 01 19:39
15	15	6m25838.d	1.	✓WG97810-09 100 PPB STD	WATER,1 SV7940	21 May 01 20:12
16	16	6m25839.d	1.	✓WG97810-10 200 PPB STD	WATER,1 SV7940	21 May 01 20:46
17	17	6m25840.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 21:18
18	18	6m25841.d	1.	✓SYSTEM BLANK	WATER,1	21 May 01 22:30
19	19	6m25842.d	1.	RR WG97810-11 20PPB ALT SOURCE	WATER,1 SV7925	21 May 01 23:02
20	20	6m25843.d	1.	✓WG97810-11 20PPB ALT SOURCE	WATER,1 SV7925	21 May 01 23:58

WG97810

No reanalysis required.

Line	Vial	FileName	Multiplier	SampleName	Misc Info		Injected
1	1	9M15734.D	1.	WG98010-01 50NG BFB SV7908	7,1	RR	23 May 2001 14:02
2	1	9M15735.D	1.	WG98010-01 50NG BFB SV7908	7,1	✓	23 May 2001 14:32
3	2	9M15736.D	1.	WG98010-02 50PPB STD M8260 SV7917	7,1	RR	23 May 2001 15:06
4	2	9M15737.D	1.	WG98010-02 50PPB STD M8260 SV7917	7,1	✓	23 May 2001 15:38
5	3	9M15738.D	1.	WG98011-01 VBLK0523 M8260	7,1	✓	23 May 2001 16:12
6	4	9M15739.D	1.	WG98011-01 VBLK0523 M8260	7,1	✓	23 May 2001 16:44
7	5	9M15740.D	1.	WG98011-02 20PPB LCS M8260 SV7925	7,1	✓	23 May 2001 17:15
8	6	9M15741.D	1.	L0105526-01 A 00 0.9X 630-NAVY-CTO 5.49	7,0.9	✓	23 May 2001 18:25
9	7	9M15742.D	1.	L0105526-02 A 00 1.1X 630-NAVY-CTO 4.36	7,1.1	✓	23 May 2001 18:56
10	8	9M15743.D	1.	L0105526-03 A 00 0.9X 630-NAVY-CTO 5.34	7,0.9	✓	23 May 2001 19:28
11	9	9M15744.D	1.	L0105504-01 A 00 0.9X 429-KELLY 5.52G	7,0.9	✓ RR SS conf.	23 May 2001 20:00
12	10	9M15745.D	1.	L0105504-02 A 00 0.9X 429-KELLY 5.63G	7,0.9	extract chlorobenzene	23 May 2001 20:32
13	11	9M15746.D	1. SV7925	L0105504-03 MS A 00 0.9X 429-KELLY 5.30	7,0.9		23 May 2001 21:04
14	12	9M15747.D	1.	L0105504-04 MSD A 00 0.9X 429-KELLY 5.6	7,0.9		23 May 2001 21:35
15	13	9M15748.D	1.	L0105504-05 A 00 0.8X 429-KELLY 5.89G	7,0.8	extract chlorobenz	23 May 2001 22:08
16	14	9M15749.D	1.	L0105504-06 A 00 0.9X 429-KELLY 5.77G	7,0.9	extract benz, c.b.	23 May 2001 22:40
17	15	9M15750.D	1.	L0105504-07 A 00 429-KELLY 4.86G	7,1	RR c10	23 May 2001 23:12
18	16	9M15751.D	1.	L0105504-08 A 00 429-KELLY 5.03G	7,1	extract c.b	23 May 2001 23:44
19		9M15752.D	1.				

WG98011 reanalyses

L0105504-02 extract
-03 MS
-04 MSD
-05
-06
-08

L0105504-01

Directory: c:\hpchem\1\data\052401

SS - SV 7918

ANALYST CMS

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6m25926.d	1. PH NA	WG98069-01 BFB 50NG STD	1,1 SV7908	24 May 01 07:23
2	2	6m25927.d	1.	WG98069-02 50 PPB STD 8260	1,1 SV7940	24 May 01 07:54
3	3	6m25928.d	1.	WG98069-03 VBLK0524 BLANK 8260	1,1	24 May 01 08:38
4	4	6m25929.d	1.	WG98069-04 20 PPB LCS STD 8260	1,1 SV7945	24 May 01 09:11
5	5	6m25930.d	1. 7	L0105521-02 A 624-SPE-W 00	WATER,1	24 May 01 09:54
6	6	6m25931.d	10. NA	L0105521-01 10X B 624-SPE-W D1	WATER,10	24 May 01 10:26
7	7	6m25932.d	1. 7	L0105521-01 A 624-SPE-W 00	WATER,1	24 May 01 10:59
8	8	6m25933.d	1. 22	L0105491-04 A 826-BETX1 00	1,1	24 May 01 11:31
9	9	6m25934.d	1.	L0105504-09 A 826-AF98-SPE 00	1,1	24 May 01 12:04
10	10	6m25935.d	1.	L0105505-06 A 826-AF98-SPE 00	1,1	24 May 01 12:36
11	11	6m25936.d	1.	L0105525-02 A 8260 00	1,1	24 May 01 13:09
12	12	6m25937.d	1.	L0105526-04 A 826-SPE-VO 00	1,1	24 May 01 13:42
13	13	6m25938.d	1.	L0105526-05 A 826-SPE-VO 00	1,1	24 May 01 14:14
14	14	6m25939.d	1.	L0105525-01 A 8260 00	1,1	24 May 01 14:51
15	15	6m25940.d	1.	L0105525-01 MS B 8260 00	1,1 SV7945	24 May 01 15:43
16	16	6m25941.d	1.	L0105525-01 MSD B 8260 00	1,1 SV7945	24 May 01 16:16
17	17	6m25942.d	10. NA RESTR	L0105491-01 A 10X 826-BETX1 00	1,10	24 May 01 16:48
18		6m25943.d	1.			
19	19	6m25944.d	1. 7	L0105491-03 A 826-BETX1 00	1,1	24 May 01 17:59
20	20	6m25945.d	1. 7	L0105491-02 A 826-BETX1 00	1,1	24 May 01 18:32
21	21	6m25946.d	1. NA	system blank	1,1	24 May 01 19:04
22	22	6m25947.d	1. 1	system blank	1,1	24 May 01 20:02

WG98069 re-runs

L0105491-01 STR

2.2 Semivolatiles

2.2.1 Semivolatiles GC MS Data (8270)

REPORT NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

KEMRON Report No.: L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: The LCS associated with sample fraction 04 yielded percent recoveries for 1-methylnaphthalene, benzo(g,h,i)perylene and a surrogate which were below advisory limits.

The LCS associated with the soil fractions yielded a percent recovery for fluoranthene which was above the advisory limit. All other acceptance criteria were met.

Matrix Spikes: Sample fraction 01 (PAHL)was chosen internally for MS/MSD treatment. The MS/MSD yielded percent recoveries for three analytes which were above the advisory limits. Sample 02 (8270) was chosen internally for MS/MSD analysis. All other acceptance criteria were met.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample fraction 04 yielded a percent recovery for 2-fluorbiphenyl which was below the advisory limit. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: RDC

REVIEWED: Stephen J. Kopa DATE: 6/7/01

Run Date: 5/21/01

Analyst: MDC

Instrument: HPMS7

Workorders:	Due Date:	Priority:
05-318-02,05	5/22	PFP
05-318-11,12	5/23	PFP
05-328	5/22	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

II = Checked & OK

NA = Not Applicable

Comments: done

05-322/LVL2

Nfdo case narr. ✓

V1B3P115/WF97637 re-ext. req.

V1B3P119/WF97639 re-ext. req.

Primary Reviewer: MDC 5/22/01

Secondary Reviewer: [signature] 5/22/01

Supervisor Review: [signature]

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Semi-Volatile GCMS Checklist

Run Date: 5/22/01

Analyst: CLK

Instrument: HPMS3

Workorders: 05-273 Due Date: 5/18 Priority: M

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	
	Client Specific Requirements	
	Special Standards	
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	
	Surrogates	
	Spike Compounds	
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	✓

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

✓ = Checked & OK
NA = Not Applicable

Comments:

05-273-14 SOIL
FV = 11ml

Primary Reviewer: CLK 5/23/01

Secondary Reviewer: 5/24/01

Supervisor Review: 5/24/01

Semi-Volatile GCMS Checklist

Run Date: 5/24/01

Analyst: CLK

Instrument: HPMS5

Workorders:	Due Date:	Priority:
05-418 (RE)	5/25	PFF
05-423 (RE)	"	"
05-421 (RE)	"	"
05-422 (RE)	"	"
05-526	5/30	PFF
05-505	5/30	PFF
05-571	6/4	M
05-574	6/4	M

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	✓
	Linear or quadriatic regression	✓
	Alt Source Check	✓
Continuing Calibration:	Continuing Calibration	
	Client Specific Requirements	
	Special Standards	
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	✓
	Level 3	
	Level 4	✓

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

Π = Checked & OK

NA = Not Applicable

Comments:

05-423-02 RE Naphs 2X #29

Primary Reviewer: CLK 5/25/01

Secondary Reviewer: [signature] 5/25/01

Supervisor Review: [signature] 5/25/01

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Semi-Volatile GCMS Checklist

Run Date: 5/24/01

Analyst: TRDC

Instrument: HPMS7

	Workorders:	Due Date:	Priority:
RE	05-388-01	5/24	RFP
	05-526-04	5/23	PFP
RE	05-378	5/25	M
DILN	05-413	5/25	PFP
DILN	05-388-02,05	5/24	PFP
RE	05-402		

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	NA
	Linear or quadriatic regression	NA
	Alt Source Check	NA
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	NA
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	
Corrective Action:	
Results Reporting/Data Qualifiers:	
Client Data Package Assembly:	
Check for Completeness:	
Check for compliance with method and project requirements:	
Check the reasonableness of results:	

✓ = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: TRDC 5/29/01

Secondary Reviewer: 5/30/01

Supervisor Review: 5/30/01

Semi-Volatile GCMS Checklist

Run Date: 5/29/01

Analyst: CLK

Instrument: HP5973

Workorders:	Due Date:	Priority:
05-526	5/30	PFP
05-443	5/29	M

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	
	Linear or quadriatic regression	
	Alt Source Check	
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	✓
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	
Data Package:	Level 2	
	Level 3	✓
	Level 4	✓

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

Π = Checked & OK

NA = Not Applicable

Comments:

05-443-02 TCLP, IS 1/4 I -03 I I

RR at 10X

Primary Reviewer: CLK 5/30/01

Secondary Reviewer: [signature] 5/30/01

Supervisor Review: [signature] 5/30/01

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Semi-Volatile GCMS Checklist

Run Date: 5/29/01

Analyst: RHC

Instrument: HPMST

Workorders:	Due Date:	Priority:
05-526	5/30	PFP
05-627	6/1	PFP

		Analyst
System Performance Check:	DFTPP	✓
	Tailing	✓
	DDT Breakdown	✓
Initial Calibration:	Average RF	NA
	Linear or quadriatic regression	NA
	Alt Source Check	NA
Continuing Calibration:	Continuing Calibration	✓
	Client Specific Requirements	✓
	Special Standards	NA
Blanks:	Quant Report/Chromatogram	✓
	Surrogates	✓
Laboratory Control Sample:	Quant Report/Chromatogram	✓
	Surrogates	✓
	Spike Compounds	✓
	MS/MSD	✓
	Excel Spreadsheet	✓
Samples:	TCL Hits	✓
	Spectra of TCL Hits	✓
	Surrogates	✓
	Internal Standards	✓
	Correct Factors	✓
	Check Sample Histories	NA
Data Package:	Level 2	
	Level 3	
	Level 4	

	Supervisor
Case Narrative:	✓
Corrective Action:	✓
Results Reporting/Data Qualifiers:	✓
Client Data Package Assembly:	✓
Check for Completeness:	✓
Check for compliance with method and project requirements:	✓
Check the reasonableness of results:	✓

✓ = Checked & OK

NA = Not Applicable

Comments:

Primary Reviewer: RHC 5/30/01

Secondary Reviewer: [illegible] 5/30/01

Supervisor Review: [illegible] 5/30/01

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SEMIVOLATILES GC/MS DATA

Login Number: L0105526

A. QC Summary

- ✓ Batch QC Summary Forms
- ✓ Internal Standard/Surrogate Summary Forms

B. Sample Data

- ____ Target Compound List Results - See Summary Report
- ____ Tentatively Identified Compounds (TICs) - See Summary Report (c) (if requested)
- ✓ Reconstructed total ion chromatogram (RIC) and quantitation report for each sample.
- ✓ Raw spectra and background subtracted mass spectra of target compounds identified.
- ____ Mass spectra of all reported TICs with three best library matches (if requested)

C. Standards Data

- ✓ Initial calibration data summary form.
- ✓ Chromatograms and quantitation reports for initial calibration standards
- ✓ Continuing calibration data summary form
- ✓ Chromatogram and quantitation report for continuing calibration standard

D. Raw QC Data

- ✓ GC/MS Instrument Performance Check (DFTPP).
- ✓ Blank chromatogram and quantitation report.
- ✓ Laboratory Control Sample chromatogram and quantitation report.
- ✓ Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- ____ Instrument runlogs
- ✓ Extraction Bench Sheets

Checked By: PRC Date: 5/31/01

2.2.1.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 827-PAHL

ANAL WORK GRP : WG98224 **EXT DATE :** 05/23/01 **RUN DATE :** 05/24/01 **INSTRUMENT :** HPMS7
METHOD : 8270 **BENCH SFEET :** V164P05 **SMPL ID :** NA **ANALYST :** mdc
MATRIX : WATER **BLK FLNM :** 7M13072 **SMPL FLNM :** NA
CONCENTRATION UNITS : ug/ml **LCS FLNM :** 7M13073 **MS FLNM :** NA
PREP WORK GRP : WG98038 **MSD FLNM :** NA

		CONCENTRATION , ug / ml						PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
NAPHTHALENE	0.1	1.0	ND	0.32	NA	NA	NA	NS	32.0	NS	NA	NA	27	107	NA	40					
2-METHYLNAPHTHALENE	0.1	1.0	ND	0.34	NA	NA	NA	NS	34.0	NS	NA	NA	27	109	NA	40					
1-METHYLNAPHTHALENE	0.1	1.0	ND	0.34	NA	NA	NA	NS	34.0	NS	NA	NA	40	120	NA	40		L			
ACENAPHTHYLENE	0.1	1.0	ND	0.53	NA	NA	NA	NS	53.0	NS	NA	NA	37	120	NA	40					
ACENAPHTHENE	0.1	1.0	ND	0.44	NA	NA	NA	NS	44.0	NS	NA	NA	30	127	NA	40					
FLUORENE	0.1	1.0	ND	0.57	NA	NA	NA	NS	57.0	NS	NA	NA	39	111	NA	40					
PHENANTHRENE	0.1	1.0	ND	0.62	NA	NA	NA	NS	62.0	NS	NA	NA	60	125	NA	40					
ANTHRACENE	0.1	1.0	ND	0.67	NA	NA	NA	NS	67.0	NS	NA	NA	52	120	NA	40					
FLUORANTHENE	0.1	1.0	ND	0.79	NA	NA	NA	NS	79.0	NS	NA	NA	52	137	NA	40					
PYRENE	0.1	1.0	ND	0.75	NA	NA	NA	NS	75.0	NS	NA	NA	55	127	NA	40					
BENZO(A)ANTHRACENE	0.1	1.0	ND	0.81	NA	NA	NA	NS	81.0	NS	NA	NA	58	131	NA	40					
CHRYSENE	0.1	1.0	ND	0.83	NA	NA	NA	NS	83.0	NS	NA	NA	67	176	NA	40					
BENZO[B]FLUORANTHENE	0.1	1.0	ND	0.75	NA	NA	NA	NS	75.0	NS	NA	NA	48	129	NA	40					
BENZO[K]FLUORANTHENE	0.1	1.0	ND	0.67	NA	NA	NA	NS	67.0	NS	NA	NA	56	127	NA	40					
BENZO[A]PYRENE	0.1	1.0	ND	0.74	NA	NA	NA	NS	74.0	NS	NA	NA	55	132	NA	40					
INDENO[1,2,3-CD]PYRENE	0.1	1.0	ND	0.55	NA	NA	NA	NS	55.0	NS	NA	NA	43	140	NA	40					
DIBENZ[A,H]ANTHRACENE	0.1	1.0	ND	0.40	NA	NA	NA	NS	40.0	NS	NA	NA	37	167	NA	40					
BENZO[G,H,I]PERYLENE	0.1	1.0	ND	0.40	NA	NA	NA	NS	40.0	NS	NA	NA	42	143	NA	40		L			
SURROGATES																					
NITROBENZENE - D5		2.5	1.24	1.75	NA	NA	NA	49.6	70.0	NA	NA	NA	35	114							
2-FLUOROBIPHENYL		2.5	0.97	0.97	NA	NA	NA	38.8	38.8	NA	NA	NA	43	116			L	L			
p-TERPHENYL - D14		2.5	1.44	1.64	NA	NA	NA	57.6	65.6	NA	NA	NA	33	141							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT NS = NOT SPIKED L= below QC limit
ND = NOT DETECTED H=above QC limit

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 8270

ANAL WORK GRP : WG98142 | EXT DATE : 05/24/01 | RUN DATE : 05/24/01 | INSTRUMENT : HPMS5
METHOD : 8270 | BENCH SFEET : V164P11 | SMPL ID : L0105514-02 | ANALYST : CLK
MATRIX : WATER | BLK FLNM : 5M17056 | SMPL FLNM : 5M17070
CONCENTRATION UNITS : ug/ml | LCS FLNM : 5M17057 | MS FLNM : 5M17071
PREP WORK GRP : WG98071 | MSD FLNM : 5M17072

	CONCENTRATION , ug / L							PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
PYRIDINE	5.0	50	ND	7.4	ND	2	1	NS	14.8	NS	3.2	2.7	10	150	44	40			L	L	*
N-NITROSODIMETHYLAMINE	5.0	50	ND	15.2	ND	13.2	8.3	NS	30.4	NS	26.6	22.2	10	150	46	40					*
ANILINE	10.0	50	ND	15.9	ND	8.6	5.8	NS	31.9	NS	17.3	15.5	10	150	39	40					
PHENOL	5.0	50	ND	9.3	ND	9.3	5.8	NS	18.7	NS	18.6	15.4	10	82	47	40					*
BIS(2-CHLOROETHYL)ETHER	5.0	50	ND	22.3	ND	19.9	12.1	NS	44.7	NS	39.7	32.2	25	104	49	40					*
2-CHLOROPHENOL	5.0	50	ND	19.7	ND	18.7	10.0	NS	39.5	NS	37.5	26.6	26	99	61	40					*
1,3-DICHLOROBENZENE	5.0	50	ND	14.9	ND	13.1	7.1	NS	29.9	NS	26.2	18.9	22	88	60	40				L	*
1,4-DICHLOROBENZENE	10.0	50	ND	15.7	ND	13.9	7.6	NS	31.3	NS	27.7	20.3	22	91	58	40				L	*
BENZYL ALCOHOL	5.0	50	ND	20.6	ND	18.4	11.3	NS	41.1	NS	36.8	30.2	22	96	47	40					*
1,2-DICHLOROBENZENE	5.0	50	ND	18.6	ND	14.6	7.9	NS	33.1	NS	29.1	21.1	23	94	59	40				L	*
2-METHYLPHENOL	5.0	50	ND	19.8	ND	17.0	9.3	NS	39.2	NS	34.0	24.7	21	105	59	40					*
BIS(2-CHLOROISOPROPYL)ETHER	5.0	50	ND	22.8	ND	19.7	11.6	NS	45.6	NS	39.4	31.5	23	99	50	40					*
3- & 4-METHYLPHENOL	5.0	50	ND	17.9	ND	16.3	9.1	NS	35.8	NS	32.7	24.3	22	99	57	40					*
N-NITROSO-DI-N-PROPYLAMINE	5.0	50	ND	25.3	ND	22.3	13.6	NS	50.7	NS	44.6	36.2	24	113	48	40					*
HEXACHLOROETHANE	5.0	50	ND	12.3	ND	9.4	5.7	NS	24.6	NS	18.8	15.1	20	93	50	40			L	L	*
NITROBENZENE	5.0	50	ND	22.4	ND	21.4	13.4	NS	44.8	NS	42.8	35.8	26	109	46	40					*
ISOPHORONE	5.0	50	ND	25.7	ND	24.0	14.9	NS	51.3	NS	48.0	39.7	24	126	47	40					*
2-NITROPHENOL	5.0	50	ND	23.5	ND	21.9	12.5	NS	47.1	NS	43.8	33.2	23	114	55	40					*
2,4-DIMETHYLPHENOL	5.0	50	ND	22.0	ND	18.0	9.4	NS	44.0	NS	36.0	25.0	27	121	63	40				L	*
BIS(2-CHLOROETHOXY)METHANE	25.0	50	ND	22.6	ND	21.1	12.5	NS	45.2	NS	42.2	33.4	26	120	51	40					*
BENZOIC ACID	5.0	50	ND	9.6	ND	17.7	11.5	NS	19.1	NS	35.5	30.8	10	106	42	40					*
2,4-DICHLOROPHENOL	5.0	50	ND	21.6	ND	21.4	11.4	NS	43.1	NS	42.8	30.5	27	118	61	40					*
1,2,4-TRICHLOROBENZENE	5.0	50	ND	15.9	ND	14.4	7.8	NS	31.8	NS	28.8	20.2	21	100	62	40				L	*
NAPHTHALENE	5.0	50	ND	19.7	ND	17.6	9.7	NS	39.4	NS	35.2	25.9	27	107	58	40				L	*
4-CHLOROANILINE	5.0	50	ND	21.7	ND	18.3	10.7	NS	43.3	NS	36.6	28.5	10	109	52	40					*
HEXACHLOROBUTADIENE	10.0	50	ND	14.0	ND	10.4	6.4	NS	28.1	NS	20.8	17.1	22	107	47	40			L	L	*
4-CHLORO-3-METHYLPHENOL	5.0	50	ND	25.6	ND	29.2	16.5	NS	51.3	NS	58.4	44.0	39	111	58	40					*
2-METHYLNAPHTHALENE	5.0	50	ND	19.3	ND	18.1	9.5	NS	38.5	NS	36.2	25.3	27	109	63	40				L	*
HEXACHLOROCYCLOPENTADIENE	5.0	50	ND	14.3	ND	9.6	8.0	NS	28.7	NS	19.3	21.2	10	102	19	40					
2,4,6-TRICHLOROPHENOL	25.0	50	ND	24.6	ND	27.0	15.3	NS	49.1	NS	54.0	40.8	37	103	55	40					*
2,4,5-TRICHLOROPHENOL	5.0	50	ND	26.9	ND	32.6	19.1	NS	53.7	NS	65.2	51.0	42	115	52	40					*
2-CHLORONAPHTHALENE	25.0	50	ND	20.4	ND	19.4	10.3	NS	40.7	NS	38.9	27.4	24	115	62	40					*
2-NITROANILINE	5.0	50	ND	30.0	7.49	35.7	23.8	NS	60.1	NS	56.4	43.4	46	110	40	40				L	*
DIMETHYLPHTHALATE	5.0	50	ND	31.8	ND	33.4	20.3	NS	63.6	NS	66.9	54.1	29	116	49	40					*
ACENAPHTHYLENE	5.0	50	ND	24.9	ND	23.0	13.4	NS	49.8	NS	46.0	35.7	37	120	53	40				L	*
2,6-DINITROTOLUENE	5.0	50	ND	33.0	ND	35.0	21.6	NS	66.0	NS	69.9	58.1	45	117	46	40					*
3-NITROANILINE	25.0	50	ND	37.0	ND	38.2	24.7	NS	74.1	NS	76.3	65.8	44	121	43	40					*
ACENAPHTHENE	5.0	50	ND	25.1	ND	24.7	13.5	NS	50.2	NS	49.5	35.9	30	127	59	40					*
2,4-DINITROPHENOL	25.0	50	ND	36.2	ND	44.2	28.0	NS	72.3	NS	88.3	74.7	22	109	45	40					*
4-NITROPHENOL	25.0	50	ND	17.4	ND	22.1	15.0	NS	34.8	NS	44.2	39.9	10	81	38	40					
DIBENZOFURAN	5.0	50	ND	25.1	ND	24.7	14.1	NS	50.2	NS	49.4	37.5	36	122	55	40					*
2,4-DINITROTOLUENE	5.0	50	ND	39.4	ND	41.2	27.5	NS	78.8	NS	82.4	73.2	58	128	40	40					*
DIETHYLPHTHALATE	5.0	50	ND	38.4	ND	41.8	26.4	NS	76.8	NS	83.5	70.5	37	130	45	40					*
FLUORENE	5.0	50	ND	27.9	ND	29.0	16.9	NS	55.7	NS	57.9	45.1	39	111	53	40					*
4-CHLOROPHENYL-PHENYL ETHER	5.0	50	ND	28.3	ND	29.6	17.8	NS	56.5	NS	59.1	47.3	25	108	50	40					*
4-NITROANILINE	25.0	50	ND	44.2	ND	34.8	24.7	NS	88.4	NS	69.6	65.9	45	147	34	40					
1,2-DIPHENYLHYDRAZINE *	5.0	50	ND	30.7	ND	32.7	20.0	NS	61.4	NS	65.3	53.4	42	120	48	40					*
4,6-DINITRO-2-METHYLPHENOL	25.0	50	ND	43.4	ND	45.9	28.3	NS	86.9	NS	91.9	75.4	33	135	48	40					*
N-NITROSODIPHENYLAMINE **	5.0	50	ND	39.0	ND	21.6	16.5	NS	78.0	NS	43.1	44.0	36	119	27	40					
4-BROMOPHENYL-PHENYL ETHER	5.0	50	ND	30.3	ND	31.9	20.4	NS	60.7	NS	63.8	54.5	31	104	44	40					*
HEXACHLOROBENZENE	5.0	50	ND	38.8	ND	40.1	25.8	NS	77.6	NS	80.1	68.9	55	119	43	40					*
PENTACHLOROPHENOL	25.0	50	ND	40.2	ND	50.6	33.6	NS	80.4	NS	101.1	89.6	40	131	40	40					*
PHENANTHRENE	5.0	50	ND	39.2	ND	40.0	25.9	NS	78.4	NS	80.0	69.0	50	125	43	40					*
ANTHRACENE	5.0	50	ND	40.9	ND	39.4	26.7	NS	81.8	NS	78.8	71.3	52	120	38	40					
CARBAZOLE	5.0	50	ND	45.0	ND	44.3	30.4	NS	90.0	NS	88.7	81.1	38	101	37	40					
DI-N-BUTYLPHTHALATE	5.0	50	ND	47.5	ND	50.5	33.8	NS	95.0	NS	100.9	90.0	37	139	40	40					
FLUORANTHENE	5.0	50	ND	45.6	ND	47.8	31.2	NS	91.2	NS	95.6	83.3	52	137	42	40					*
PYRENE	5.0	50	ND	44.2	ND	47.4	30.6	NS	88.4	NS	94.9	81.6	55	127	43	40					*
BUTYLBENZYLPHTHALATE	5.0	50	ND	47.9	ND	52.3	33.3	NS	95.9	NS	104.5	88.8	28	150	44	40					*
BENZO(A)ANTHRACENE	10.0	50	ND	47.6	ND	51.2	32.0	NS	95.2	NS	102.4	85.4	58	131	46	40					*
3,3'-DICHLOROBENZIDINE	5.0	50	ND	63.3	ND	19.2	11.4	NS	126.5	NS	38.3	30.3	41	172	51	40			L	L	*
CHRYSENE	5.0	50	ND	48.8	ND	51.2	34.0	NS	97.6	NS	102.3	90.8	67	170	40	40					*
BIS(2-ETHYLHEXYL)PHTHALATE	5.0	50	ND	47.2	ND	52.1	32.6	NS	94.3	NS	104.2	87.0	32	149	46	40					*
DI-N-OCTYLPHTHALATE	5.0	50	ND	46.7	ND	52.8	33.0	NS	93.3	NS	105.2	88.0	32	149	46	40					*
BENZO[B]FLUORANTHENE	5.0	50	ND	43.6	ND	47.3	30.6	NS	87.3	NS	94.5	81.6	48	129	43	40					*
BENZO[K]FLUORANTHENE	5.0	50	ND	48.4	ND	49.5	30.8	NS	96.8	NS	99.1	82.1	55	127	47	40					*
BENZO[A]PYRENE	5.0	50	ND	42.0	ND	44.2	29.1	NS	83.9	NS	88.3	77.7	55	132	41	40					*
INDENO[1,2,3-CD]PYRENE	5.0	50	ND	52.5	ND	49.1	33.4	NS	105.0	NS	98.1	89.0	43	140	38	40					
DIBENZ[A,H]ANTHRACENE	5.0	50	ND	70.0	ND	66.4	44.0	NS	139.9	NS	132.7	117.3	37	167	41	40					*
BENZO[G,H,I]PERYLENE	5.0	50	ND	54.1	ND	45.3	34.1	NS	108.3	NS	90.5	90.8	42	143	28	40					
SURROGATES																					
2-FLUOROPHENOL		100	28.3	26.0	23.7	24.3	18.8	28.3	26.0	23.7	24.3	18.8	21	100						L	
PHENOL - D5		100	18.2	17.9	17.0	16.5	13.4	18.2	17.9	17.0	16.5	13.4	10	94							
NITROBENZENE - D5		50	24.2	23.2	25.7	20.5	17.2	48.5	46.4	51.4	40.9	34.4	35	114						L	
2-FLUOROBIPHENYL		50	22.2	21.9	23.8	20.2	15.2	44.3	43.8	47.7	40.4	30.4	43	116					L	L	
2,4,6-TRIBROMOPHENOL		100	47.0	72.2	57.3	82.6	70.1	47.0	72.2	57.3	82.6	70.1	10	123							
p-TERPHENYL - D14		50	52.9	43.8	28.6	38.8	24.2	105.7	87.6	57.1	77.5	48.4	33	141							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT | NS = NOT SPIKED | L= below QC limit
ND = NOT DETECTED | H=above QC limit

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KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 827-PAHL

ANAL WORK GRP : WG98440 **EXT DATE :** 05/24/01 **RUN DATE :** 05/29/01 **INSTRUMENT :** HPMS7
METHOD : 8270 **BENCH SHEET :** V164P15 **SMPL ID :** L0105526-01 **ANALYST :** rdc
MATRIX : SOIL **BLK FLNM :** 7M13089 **SMPL FLNM :** 7M13091
CONCENTRATION UNITS : ug/kg **LCS FLNM :** 7M13090 **MS FLNM :** 7M13092
PREP WORK GRP : WG98117 **MSD FLNM :** 7M13093

	CONCENTRATION , ug / kg							PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
NAPHTHALENE	5.0	50	ND	30.0	ND	30.2	37.5	NS	59.9	NS	60.4	75.0	21	89	21	40					
2-METHYLNAPHTHALENE	5.0	50	ND	31.4	ND	32.7	40.5	NS	62.9	NS	65.4	81.0	21	90	21	40					
1-METHYLNAPHTHALENE	5.0	50	ND	29.6	ND	30.6	38.1	NS	59.1	NS	61.7	76.1	40	120	21	40					
ACENAPHTHYLENE	5.0	50	ND	30.0	ND	35.1	43.1	NS	60.0	NS	70.2	86.2	25	101	20	40					
ACENAPHTHENE	5.0	50	ND	30.0	ND	30.7	37.8	NS	59.9	NS	61.4	75.5	22	100	21	40					
FLUORENE	5.0	50	ND	32.3	ND	34.1	42.5	NS	64.6	NS	68.1	85.1	33	101	22	40					
PHENANTHRENE	5.0	50	ND	53.4	ND	35.6	42.4	NS	106.8	NS	71.1	84.9	38	111	18	40					
ANTHRACENE	5.0	50	ND	33.8	ND	42.4	52.5	NS	67.7	NS	84.9	105.1	44	105	21	40				H	
FLUORANTHENE	5.0	50	ND	60.9	ND	49.7	69.3	NS	121.9	NS	99.5	118.5	46	114	17	40		H		H	
PYRENE	5.0	50	ND	51.2	ND	45.3	53.3	NS	102.3	NS	90.6	106.6	41	120	16	40					
BENZO(A)ANTHRACENE	5.0	50	ND	54.0	ND	56.6	65.3	NS	107.9	NS	113.2	130.5	41	119	14	40				H	
CHRYSENE	5.0	50	ND	51.3	ND	49.4	56.6	NS	102.6	NS	98.9	113.6	44	118	14	40					
BENZO[B]FLUORANTHENE	5.0	50	ND	47.7	ND	41.4	48.2	NS	95.4	NS	82.8	96.3	34	124	15	40					
BENZO[K]FLUORANTHENE	5.0	50	ND	41.4	ND	41.1	46.3	NS	82.7	NS	82.2	92.6	37	124	12	40					
BENZO[A]PYRENE	5.0	50	ND	42.9	ND	48.6	58.5	NS	85.9	NS	97.2	113.0	41	115	16	40					
INDENO[1,2,3-CD]PYRENE	5.0	50	ND	40.3	ND	39.5	44.6	NS	80.6	NS	78.9	89.3	33	126	12	40					
DIBENZ[A,H]ANTHRACENE	5.0	50	ND	35.3	ND	36.1	40.8	NS	70.6	NS	72.2	81.6	31	127	12	40					
BENZO[G,H,I]PERYLENE	5.0	50	ND	42.8	ND	41.9	48.4	NS	85.5	NS	83.9	96.7	34	120	14	40					
SURROGATES																					
NITROBENZENE - D5		2.5	1.88	1.66	1.87	1.79	2.20	75.2	66.4	74.8	71.6	88.0	23	120							
2-FLUOROBIPHENYL		2.5	1.70	1.45	1.57	1.57	1.98	68.0	58.0	62.8	62.8	79.4	30	115							
p-TERPHENYL - D14		2.5	2.19	2.01	2.08	2.16	2.51	87.6	80.4	83.2	86.4	100.4	18	137							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT NS = NOT SPIKED L= below QC limit
ND = NOT DETECTED H=above QC limit

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 8270

ANAL WORK GRP : WG98367 | EXT DATE : 05/23/01 | RUN DATE : 05/29/01 | INSTRUMENT : HPMS3
METHOD : 8270 | BENCH SFEET : V164P1 | SMPL ID : L0105526-02 | ANALYST : CLK
MATRIX : SOIL | BLK FLNM : 3M22971 | SMPL FLNM : 3M22975
CONCENTRATION UNITS : ug/kg | LCS FLNM : 3M22972 | MS FLNM : 3M22976
PREP WORK GRP : WG98045 | MSD FLNM : 3M22977

		CONCENTRATION , ug / kg						PERCENT RECOVERY , %							MS/MSD %		BEYOND LIMITS				
ANALYTE	ROL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	MS	MSD	%RPD
PYRIDINE	165	1667	ND	92.0	ND	962	629	NS	5.5	NS	57.7	49.8	25	150	15	40		L			
N-NITROSODIMETHYLAMINE	165	1667	ND	1003.0	ND	1106.3	942.3	NS	60.2	NS	66.4	56.5	40	106	16	40					
ANILINE	165	1667	ND	646.1	ND	998.6	883.9	NS	38.8	NS	59.9	51.8	25	150	14	40					
PHENOL	165	1667	ND	1046.7	ND	1172.5	997.6	NS	62.8	NS	70.3	59.8	18	90	16	40					
BIS(2-CHLOROETHYL)ETHER	165	1667	ND	1030.0	ND	1152.9	965.7	NS	61.8	NS	69.2	57.9	19	88	18	40					
2-CHLOROPHENOL	165	1667	ND	903.4	ND	1032.4	873.5	NS	54.2	NS	61.9	52.4	20	84	17	40					
1,3-DICHLOROBENZENE	165	1667	ND	878.7	ND	990.6	823.6	NS	52.7	NS	59.4	49.4	20	79	18	40					
1,4-DICHLOROBENZENE	165	1667	ND	873.4	ND	997.5	837.9	NS	52.4	NS	59.8	50.3	20	81	17	40					
BENZYL ALCOHOL	165	1667	ND	1053.8	ND	1157.8	947.4	NS	63.2	NS	69.5	56.8	11	94	20	40					
1,2-DICHLOROBENZENE	165	1667	ND	877.1	ND	991.3	857.8	NS	52.6	NS	59.5	51.5	19	83	14	40					
2-METHYLPHENOL	165	1667	ND	1020.1	ND	1146.4	931.0	NS	61.2	NS	68.8	55.8	21	90	21	40					
BIS(2-CHLOROISOPROPYL)ETHER	165	1667	ND	1172.3	ND	1331.2	1090.4	NS	70.3	NS	79.9	65.4	10	92	20	40					
3- & 4-METHYLPHENOL	165	1667	ND	1073.6	ND	1193.3	971.6	NS	64.4	NS	71.6	58.3	23	91	20	40					
N-NITROSO-DI-N-PROPYLAMINE	165	1667	ND	1201.8	ND	1350.2	1074.0	NS	72.1	NS	81.0	64.4	19	93	23	40					
HEXACHLOROETHANE	165	1667	ND	848.1	ND	959.4	797.2	NS	50.9	NS	57.6	47.8	18	85	18	40					
NITROBENZENE	165	1667	ND	1037.7	ND	1143.6	944.1	NS	62.2	NS	68.6	56.6	20	91	19	40					
ISOPHORONE	165	1667	ND	1195.8	ND	1315.9	1051.9	NS	71.7	NS	78.9	63.1	20	102	22	40					
2-NITROPHENOL	165	1667	ND	952.4	ND	1071.8	872.7	NS	57.1	NS	64.3	52.4	20	90	20	40					
2,4-DIMETHYLPHENOL	165	1667	ND	1029.9	ND	1164.3	937.1	NS	61.8	NS	69.8	56.2	23	98	22	40					
BIS(2-CHLOROETHOXY)METHANE	165	1667	ND	1097.4	ND	1213.4	974.1	NS	65.8	NS	72.8	58.4	23	96	22	40					
BENZOIC ACID	165	1667	ND	1107.2	ND	1066.4	871.2	NS	66.4	NS	64.0	52.3	10	95	20	40					
2,4-DICHLOROPHENOL	165	1667	ND	975.6	ND	1087.9	859.2	NS	58.5	NS	65.3	51.5	21	93	23	40					
1,2,4-TRICHLOROBENZENE	165	1667	ND	873.9	ND	993.1	804.0	NS	52.4	NS	59.6	48.2	19	87	21	40					
NAPHTHALENE	165	1667	ND	942.9	ND	1084.4	857.5	NS	56.6	NS	65.0	51.4	21	89	22	40					
4-CHLOROANILINE	165	1667	ND	864.5	ND	1142.1	1215.9	NS	51.9	NS	68.5	72.9	10	94	6	40					
HEXACHLOROBUTADIENE	165	1667	ND	1023.6	ND	1176.4	941.0	NS	61.4	NS	70.6	56.4	18	98	22	40					
4-CHLORO-3-METHYLPHENOL	165	1667	ND	1187.7	ND	1348.1	1043.9	NS	71.2	NS	80.9	62.6	26	99	25	40					
2-METHYLNAPHTHALENE	165	1667	ND	951.8	ND	1055.9	871.8	NS	57.1	NS	63.3	52.3	21	90	19	40					
HEXACHLOROCYCLOPENTADIENE	165	1667	ND	959.4	ND	1058.9	861.5	NS	57.6	NS	63.5	51.7	10	89	21	40					
2,4,6-TRICHLOROPHENOL	165	1667	ND	1092.5	ND	1206.9	942.5	NS	65.5	NS	72.4	56.5	26	97	25	40					
2,4,5-TRICHLOROPHENOL	165	1667	ND	1146.1	ND	1290.7	933.9	NS	68.8	NS	77.4	56.0	27	98	32	40					
2-CHLORONAPHTHALENE	165	1667	ND	977.9	ND	1086.6	866.5	NS	58.7	NS	65.2	52.0	23	93	23	40					
2-NITROANILINE	825	1667	ND	1396.9	ND	1473.7	1130.8	NS	83.8	NS	88.4	67.8	27	104	26	40					
DIMETHYLPHTHALATE	165	1667	ND	1269.7	ND	1310.8	976.5	NS	77.4	NS	78.6	58.6	23	96	29	40					
ACENAPHTHYLENE	165	1667	ND	1121.0	ND	1230.2	982.1	NS	67.2	NS	73.8	58.9	25	101	22	40					
2,6-DINITROTOLUENE	165	1667	ND	1287.3	ND	1328.3	987.6	NS	77.2	NS	79.6	59.2	31	103	29	40					
3-NITROANILINE	825	1667	ND	1402.7	ND	1455.5	1130.3	NS	84.1	NS	87.3	67.8	10	134	25	40					
ACENAPHTHENE	165	1667	ND	1151.3	ND	1235.4	977.4	NS	69.1	NS	74.1	58.6	22	100	23	40					
2,4-DINITROPHENOL	825	1667	ND	1450.3	ND	1431.7	1100.0	NS	87.0	NS	85.9	66.0	11	102	26	40					
4-NITROPHENOL	825	1667	ND	1823.9	ND	1899.5	1552.8	NS	109.4	NS	113.9	93.1	30	118	20	40					
DIBENZOFURAN	165	1667	ND	1110.2	ND	1184.8	930.9	NS	66.6	NS	71.1	55.8	28	96	24	40					
2,4-DINITROTOLUENE	165	1667	ND	1539.7	ND	1555.8	1231.0	NS	92.4	NS	93.3	73.8	41	109	23	40					
DIETHYLPHTHALATE	165	1667	ND	1541.3	ND	1576.4	1189.8	NS	92.5	NS	94.6	71.4	42	108	28	40					
FLUORENE	165	1667	ND	1199.2	ND	1246.1	937.3	NS	71.9	NS	74.8	56.2	33	101	28	40					
4-CHLOROPHENYL-PHENYL ETHER	165	1667	ND	1171.0	ND	1237.1	929.5	NS	70.2	NS	74.2	55.8	29	99	28	40					
4-NITROANILINE	825	1667	ND	1674.3	ND	1725.9	1454.7	NS	100.4	NS	103.5	87.3	34	114	17	40					
1,2-DIPHENYLHYDRAZINE *	165	1667	ND	1343.3	ND	1384.9	1012.9	NS	80.6	NS	83.1	60.8	25	150	31	40					
4,6-DINITRO-2-METHYLPHENOL	825	1667	ND	1601.1	ND	1602.8	1340.1	NS	96.0	NS	96.1	80.4	33	110	18	40					
N-NITROSODIPHENYLAMINE **	165	1667	ND	1349.3	ND	1401.5	1057.9	NS	80.9	NS	84.1	63.5	25	135	28	40					
4-BROMOPHENYL-PHENYL ETHER	165	1667	ND	1133.1	ND	1164.5	869.2	NS	68.0	NS	69.9	52.1	32	94	29	40					
HEXACHLOROBENZENE	165	1667	ND	1393.9	ND	1460.7	1100.8	NS	83.6	NS	87.6	66.0	39	103	28	40					
PENTACHLOROPHENOL	825	1667	ND	1567.7	ND	1662.7	1390.4	NS	94.0	NS	99.7	83.4	26	114	18	40					
PHENANTHRENE	165	1667	ND	1394.5	ND	1459.5	1121.7	NS	83.7	NS	87.6	67.3	38	111	26	40					
ANTHRACENE	165	1667	ND	1420.5	ND	1453.7	1162.4	NS	85.2	NS	87.2	69.7	44	105	22	40					
CARBAZOLE	165	1667	ND	1601.1	ND	1700.8	1423.2	NS	96.0	NS	102.0	85.4	25	150	18	40					
DI-N-BUTYLPHTHALATE	165	1667	ND	1650.3	ND	1747.7	1468.0	NS	99.0	NS	104.8	88.1	45	118	17	40					
FLUORANTHENE	165	1667	ND	1517.0	ND	1594.3	1369.0	NS	91.0	NS	95.6	82.1	46	114	15	40					
PYRENE	165	1667	ND	1508.8	ND	1578.3	1340.9	NS	90.4	NS	94.7	80.4	41	120	16	40					
BUTYLBENZYLPHTHALATE	165	1667	ND	1676.5	ND	1770.4	1510.4	NS	100.6	NS	106.2	90.6	45	135	16	40					
BENZO(A)ANTHRACENE	165	1667	ND	1592.5	ND	1649.7	1432.4	NS	95.5	NS	99.0	85.9	41	119	14	40					
3,3'-DICHLOROBENZIDINE	330	1667	ND	1642.9	ND	1915.9	1766.3	NS	98.6	NS	114.9	106.0	10	146	8	40					
CHRYSENE	165	1667	ND	1616.9	ND	1723.3	1462.1	NS	97.0	NS	103.4	87.7	44	118	16	40					
BIS(2-ETHYLHEXYL)PHTHALATE	165	1667	ND	1742.9	ND	1790.0	1483.8	NS	104.6	NS	107.4	89.0	48	122	19	40					
DI-N-OCTYLPHTHALATE	165	1667	ND	1708.3	ND	1775.8	1500.8	NS	102.5	NS	106.5	90.0	40	127	17	40					
BENZO[B]FLUORANTHENE	165	1667	ND	1648.0	ND	1591.9	1457.4	NS	98.9	NS	95.5	87.4	34	124	9	40					
BENZO[K]FLUORANTHENE	165	1667	ND	1447.2	ND	1641.4	1348.0	NS	86.8	NS	98.5	80.9	37	124	20	40					
BENZO[A]PYRENE	165	1667	ND	1482.4	ND	1570.2	1357.1	NS	88.9	NS	94.2	81.4	41	115	15	40					
INDENO[1,2,3-CD]PYRENE	165	1667	ND	1640.7	ND	1740.6	1509.7	NS	98.4	NS	104.4	90.6	33	128	14	40					
DIBENZ[A,H]ANTHRACENE	165	1667	ND	2186.1	ND	2317.8	2015.2	NS	131.1	NS	139.0	120.9	31	127	14	40		H	H		
BENZO[G,H,I]PERYLENE	165	1667	ND	1533.3	ND	1620.2	1407.7	NS	92.0	NS	97.2	84.4	34	120	14	40					
SURROGATES																					
2-FLUOROPHENOL		100	54.0	53.5	46.8	58.6	50.2	54.0	53.5	46.8	58.6	50.2	25	121							
PHENOL - D5		100	59.6	61.5	50.2	68.7	58.7	59.6	61.5	50.2	68.7	58.7	24	113							
NITROBENZENE - D5		50	31.9	32.2	27.5	34.7	28.7	63.9	64.4	54.9	69.4	57.4	23	120							
2-FLUOROBIPHENYL		50	28.6	31.2	25.3	33.4	27.1	59.3	62.3	50.7	66.8	54.2	30	115							
2,4,6-TRIBROMOPHENOL		100	62.4	95.5	68.7	96.5	72.8	62.4	95.5	68.7	96.5	72.8	19	122							
p-TERPHENYL - D14		50	46.4	48.8	40.0	47.2	40.8	92.7	93.7	80.0	94.5	81.5	18	137							

NOTES & DEFINITIONS : RDL=REPORTING DETECTION LIMIT | NS = NOT SPIKED | L= below QC limit
ND = NOT DETECTED | H=above QC limit

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Tune File : C:\MSDCHEM\1\DATA\052401\7M13070.D
Tune Time : 24 May 2001 12:09

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678

CRY	PRY
339209	274829

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13072.D	WG98038-	50	39*	49	439439	245829	390475
			354179	341372			
7M13073.D	WG98038-	70	39*	66	435257	245976	395670
			378613	367230			
7M13074.D	L0105388	53	39*	55	433708	240212	385286
			346722	340942			
7M13075.D	L0105526	57	40*	56	421140	233488	376096
			338501	329637			
7M13076.D	L0105378	55	34*	36	427452	235598	376089
			353406	338224			
7M13077.D	L0105378	64	38*	36	436477	247261	394313
			379440	370820			
7M13078.D	L0105378	44	30*	31*	430492	238650	383981
			357440	344001			
7M13079.D	L0105378	60	39*	52	424535	247962	400450
			360695	355802			
7M13080.D	L0105402	81	31*	34	459174	256169	416819
			369931	368474			
7M13081.D	L0105402	85	32*	33*	438563	244947	385415
			335122	343802			
7M13082.D	L0105402	78	62	56	432335	242909	396305
			391766	420110			

t - fails 12hr time check * - fails criteria

Created: Fri May 25 11:53:15 2001 HPMS7

Tune File : C:\MSDCHEM\1\DATA\052401\7M13070.D
Tune Time : 24 May 2001 12:09

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678
			CRY	PRY	
			339209	274829	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13084.D	L0105388	56	47	57	486361	273378	457553
			591531		605818*		
7M13085.D	L0105413	9*	7*	8*	438339	242924	389622
			370993		376493		
7M13086.D	L0105388	3*	1*	1*	433019	241225	391856
			376630		393977		

t - fails 12hr time check * - fails criteria

Created: Fri May 25 11:58:25 2001 HPMS7

Tune File : C:\HPCHEM\1\DATA\052401\5M17047.D
Tune Time : 24 May 2001 9:46

Daily Calibration File : C:\HPCHEM\1\DATA\052401\5M17048.D

	{2FP}	PHL	NBZ	FBP	DCB	NPT	ANT
					126688	477449	277570
	tbp	TPH			PHN	CRY	PRY
					478035	524436	419169

File	Sample	Surrogate Recovery %				Internal Standard Responses		
5M17056.D	WG98071-	28	18	48	44	130607	485033	280606
		47	106			459777	503206	410462
5M17057.D	WG98071-	26	18	46	44	128836	494213	292242
		72	88			483303	568136	469754
5M17058.D	L0105418	30	21	51	43	131055	489027	291036
		53	50			480697	505893	422012
5M17059.D	L0105423	19*	21	51	49	142066	544385	311673
		69	42			531482	523190	446633
5M17060.D	L0105418	27	19	49	46	132259	495420	296388
		73	66			507968	529605	439453
5M17061.D	L0105421	32	22	55	50	130854	490636	298477
		84	58			515264	517283	422592
5M17062.D	L0105422	26	20	53	45	131690	496717	294708
		58	26*			501533	520692	435830
5M17063.D	L0105423	29	24	60	60	142766	542898	311642
		89	45			523169	526778	449846
5M17064.D	L0105423	26	18	48	46	129581	481138	284252
		63	47			482903	504452	429974
5M17065.D	L0105423	36	26	63	65	125203	470895	291631
		94	71			504166	509670	411657
5M17066.D	L0105423	31	20	52	47	132433	496392	288598
		68	37			482928	491305	408395
5M17067.D	L0105526	35	26	68	63	120916	444569	265072
		61	103			453013	489704	398113
5M17068.D	L0105525	30	23	78	81	121772	466161	363501
		32	131			311158	489540	379388
5M17069.D	L0105511	34	24	56	54	132501	499155	308470
		88	89			540989	543624	421923
5M17070.D	WG98071-	24	17	51	48	130404	498468	304857
		57	57			531959	553343	459798
5M17071.D	tWG98071-	24	16	41	40*	127801	479528	284186
		83	78			511773	565793	460281

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t - fails 12hr time check * - fails criteria

Created: Fri May 25 10:14:36 2001 HPMS5

Tune File : C:\HPCHEM\1\DATA\052901\3M22968.D
Tune Time : 29 May 2001 9:18

Daily Calibration File : C:\HPCHEM\1\DATA\052901\3M22969.D

	{2FP}	PHL	NBZ	FBP		DCB	NPT	ANT
						192856	732783	370459
	tbp	TPH				PHN	CRY	PRY
						497071	424387	527074

File	Sample	Surrogate Recovery %				Internal Standard Responses		
3M22971.D	WG98045-	54	60	64	59	181796	641552	343572
		62	93			459817	402250	500922
3M22972.D	WG98045-	54	62	64	62	190078	703470	356430
		96	94			486395	421983	538900
3M22973.D	L0105526	51	59	62	61	189482	658446	353161
		89	94			483980	416212	521969
3M22974.D	L0105526	53	59	63	59	188660	670741	364297
		77	92			487968	425340	535495
3M22975.D	WG98045-	47	50	55	51	185522	651013	351042
		69	80			481128	424106	544126
3M22976.D	WG98045-	59	67	69	67	185679	689690	351171
		96	94			474418	413706	536985
3M22977.D	WG98045-	50	57	57	54	182492	688167	349326
		73	82			475637	416095	532354

t - fails 12hr time check * - fails criteria

Created: Tue May 29 15:10:24 2001 HPMS3

Tune File : C:\MSDCHEM\1\DATA\052901\7M13087.D
Tune Time : 29 May 2001 14:11

Daily Calibration File : C:\MSDCHEM\1\DATA\052101\7M12999.D

NBZ	FBP	TPH	NPT	ANT	PHN
			449212	229149	370678
			CRY	PRY	
			339209	274829	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
7M13089.D	WG98117-	75	68	88	432515	245147	392852
			374898	386821			
7M13090.D	WG98117-	66	58	81	416199	234919	383031
			379536	375132			
7M13091.D	WG98117-	75	63	83	437465	246073	398624
			393402	401669			
7M13092.D	WG98117-	72	63	86	446600	249405	409492
			411118	429147			
7M13093.D	WG98117-	88	78	101	463576	253651	422369
			429575	450570			
7M13094.D	L0105526	73	63	80	462747	259693	423063
			416935	433174			
7M13095.D	L0105526	106	92	111	449979	249483	408994
			401368	424954			
7M13096.D	WG98906-	80	70	65	447073	251478	409443
			394735	407023			
7M13097.D	WG98906-	93	81	77	433685	244092	394387
			387123	398112			
7M13098.D	WG98306-	9*	7*	7*	456914	257042	428742
			442906	476549			
7M13099.D	WG98306-	9*	6*	9*	446327	252597	411768
			432273	468413			
7M13100.D	WG98306-	10*	7*	9*	452061	250911	417083
			433235	463690			

t - fails 12hr time check * - fails criteria

Created: Wed May 30 11:08:08 2001 HPMS7

2.2.1.2 Sample Data

Data File : C:\HPCHEM\1\DATA\052901\3M22974.D Vial: 7
Acq On : 29 May 2001 12:36 Operator: CLK
Sample : L0105526-01 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	188660	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	670741	40.00	ug/L	0.00
34) Acenaphthene-d10	13.08	164	364297	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.63	188	487968	40.00	ug/L	0.00
67) Chrysene-d12	17.55	240	425340	40.00	ug/L	-0.02
76) Perylene-d12	20.33	264	535495	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	481524	53.30	ug/L	-0.01
Spiked Amount 100.000	Range 25 - 121		Recovery = 53.30%			
6) Phenol-d5	9.42	99	637489	58.95	ug/L	-0.01
Spiked Amount 100.000	Range 24 - 113		Recovery = 58.95%			
20) Nitrobenzene-d5	10.48	82	244835	31.54	ug/L	-0.01
Spiked Amount 50.000	Range 23 - 120		Recovery = 63.08%			
38) 2-Fluorobiphenyl	12.33	172	346101	29.40	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 58.80%			
55) 2,4,6-Tribromophenol	13.91	330	101923	76.75	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 76.75%			
70) p-Terphenyl-d14	16.21	244	467069	45.99	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 91.98%			
Target Compounds						Qvalue
5) Aniline	9.42	66	20419	181.29	ug/L	# 1

(#) = qualifier out of range (m) = manual integration
3M22974.D BNA.M Tue May 29 14:59:39 2001 HPMS3 Page 1

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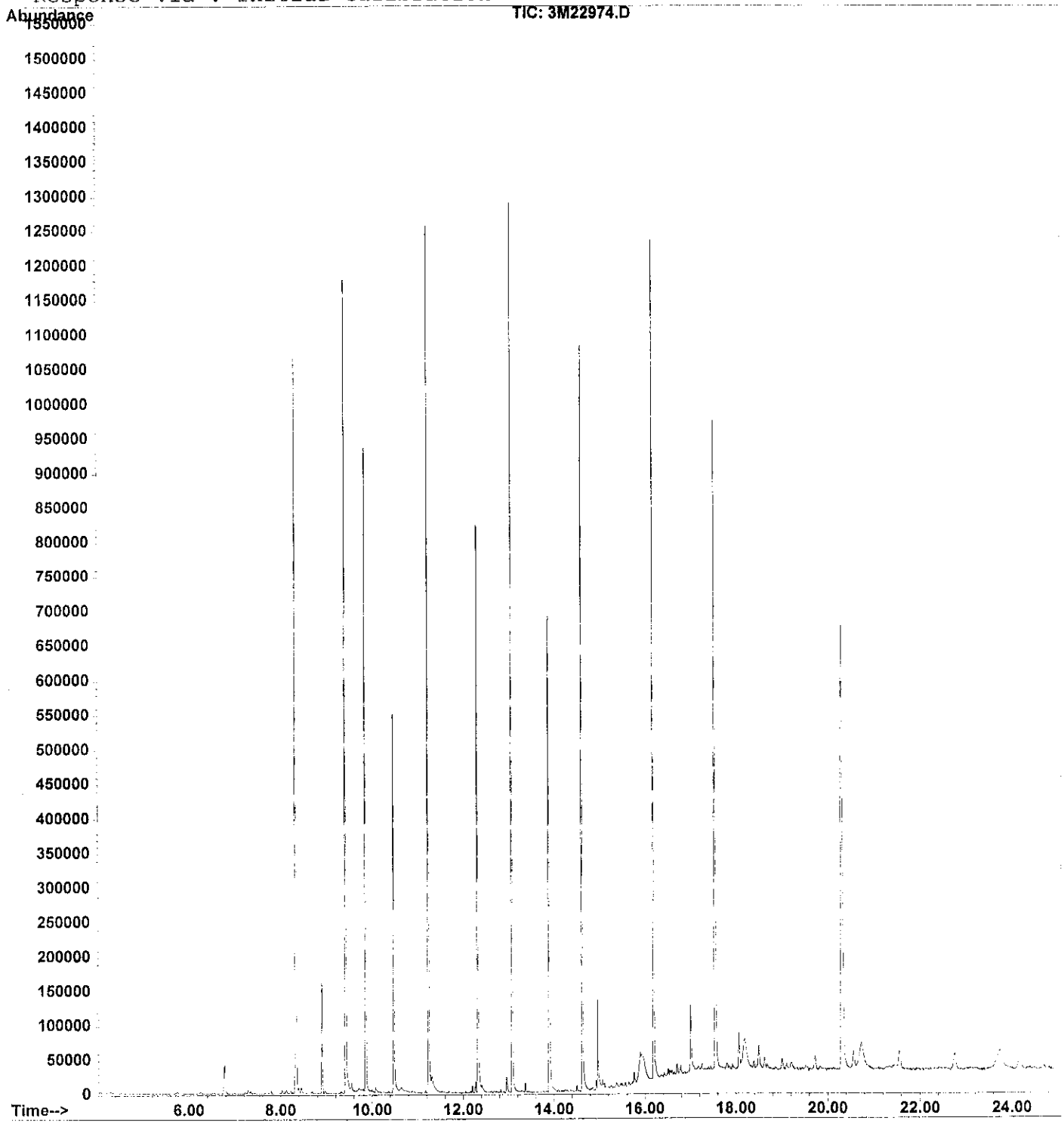
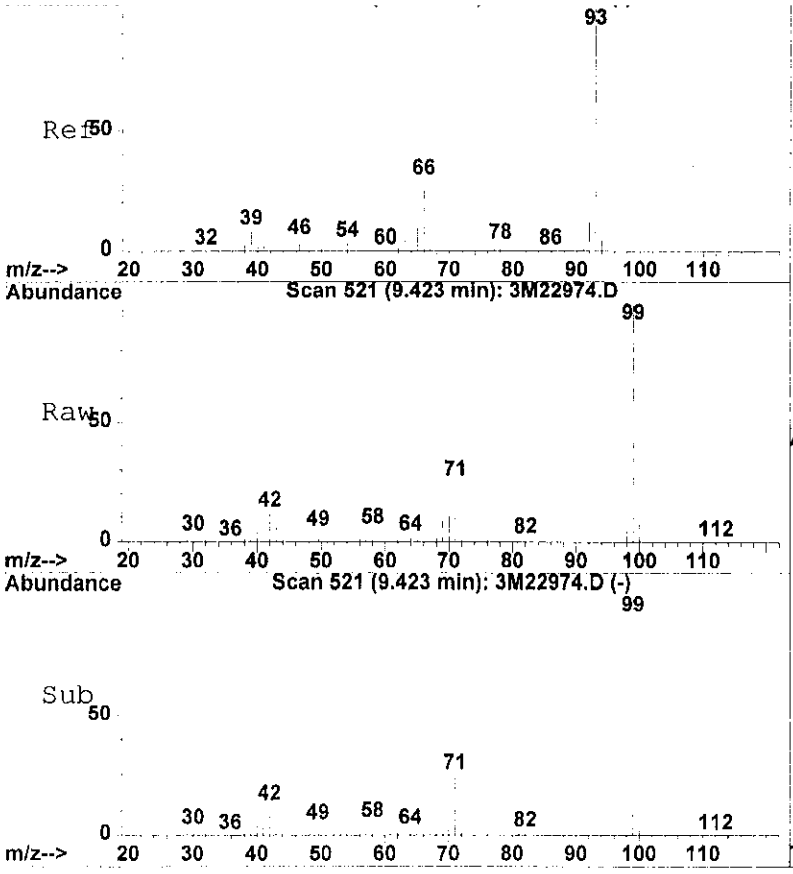
Data File : C:\HPCHEM\1\DATA\052901\3M22974.D Vial: 7
Acq On : 29 May 2001 12:36 Operator: CLK
Sample : L0105526-01 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration

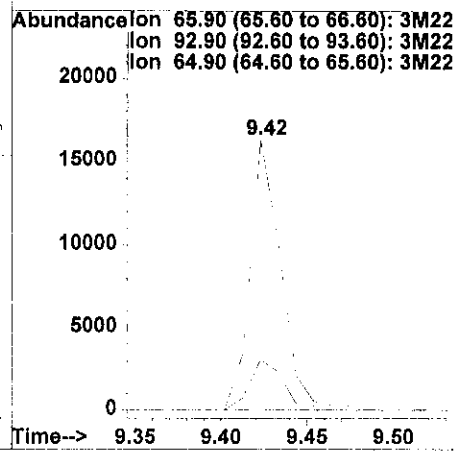




#3
Aniline
Concen: 181.29 ug/L
RT: 9.42 min Scan# 521
Delta R.T. -0.09 min
Lab File: 3M22974.D
Acq: 29 May 2001 12:36

Tgt Ion: 66 Resp: 20419

Ion	Ratio	Lower	Upper
66	100		
93	0.0	272.8	409.2#
65	20.3	39.2	58.8#



Data File : C:\MSDCHEM\1\DATA\052901\7M13091.D Vial: 5
Acq On : 29 May 2001 17:01 Operator: rdc
Sample : WG98117-01 L0105526-01 SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:54:15 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	437465	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	246073	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	398624	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	393402	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	401669	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	258639	1.87	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 74.80%			
7) 2-Fluorobiphenyl	7.60	172	569710	1.57	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.80%			
17) p-Terphenyl-d14	11.45	244	888474	2.08	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 83.20%			

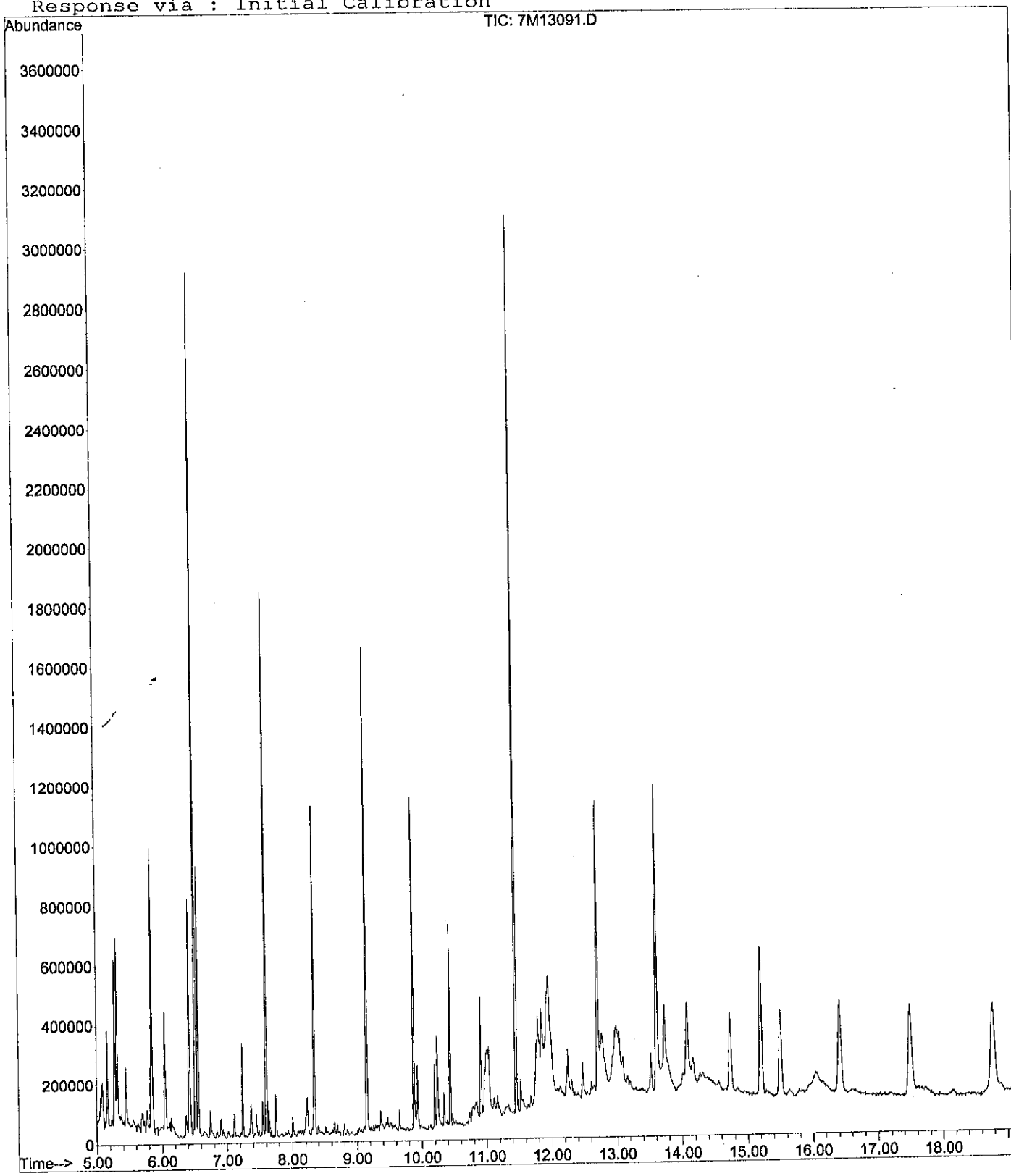
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13091.D PAHLOW.M Wed May 30 10:54:26 2001 Page 355

Data File : C:\MSDCHEM\1\DATA\052901\7M13091.D
Acq On : 29 May 2001 17:01
Sample : WG98117-01 L0105526-01 SOIL
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 30 10:54 2001

Vial: 5
Operator: rdc
Inst : HPMS7
Multiplr: 50.00
Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052901\3M22975.D Vial: 8
Acq On : 29 May 2001 13:11 Operator: CLK
Sample : WG98045-01 L0105526-02 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

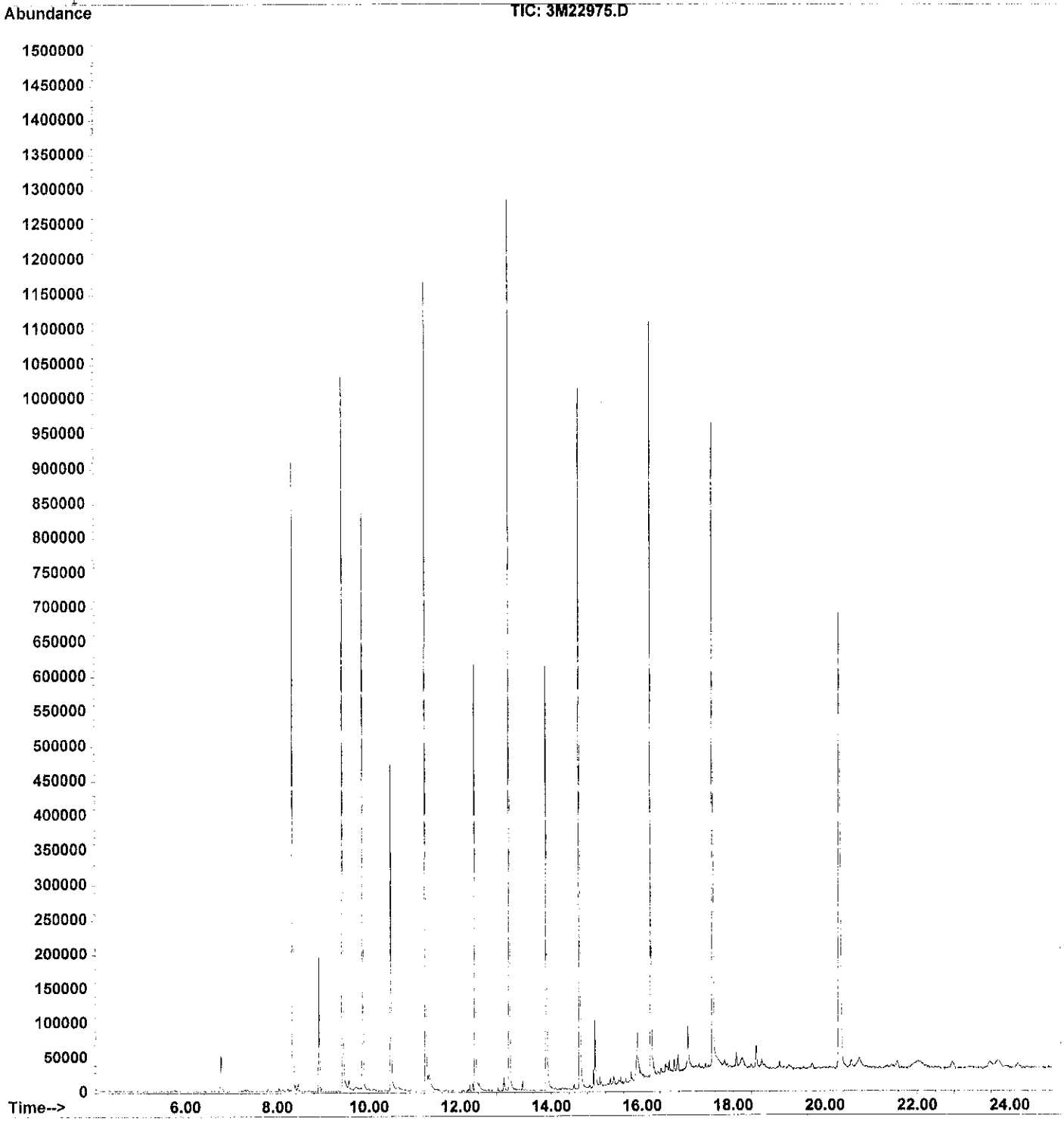
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

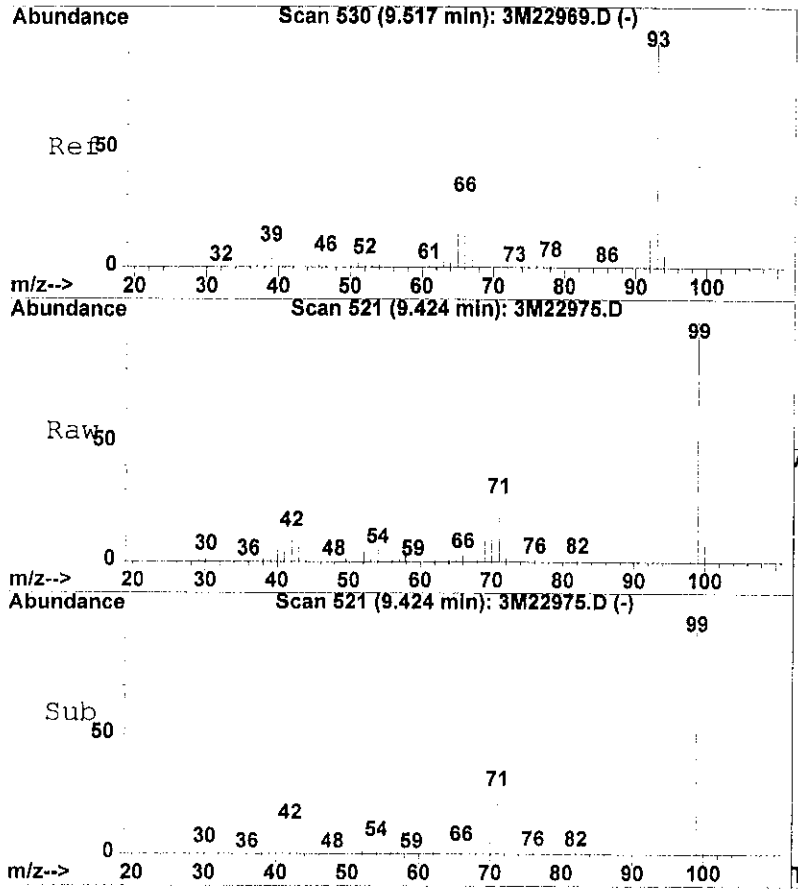
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	185522	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	651013	40.00	ug/L	0.00
34) Acenaphthene-d10	13.08	164	351042	40.00	ug/L	0.00
56) Phenanthrene-d10	14.63	188	481128	40.00	ug/L	0.00
67) Chrysene-d12	17.57	240	424106	40.00	ug/L	0.00
76) Perylene-d12	20.33	264	544126	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	416044	46.83	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 46.83%			
6) Phenol-d5	9.42	99	533576	50.18	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 50.18%			
20) Nitrobenzene-d5	10.48	82	206800	27.45	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 54.90%			
38) 2-Fluorobiphenyl	12.33	172	287343	25.33	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 50.66%			
55) 2,4,6-Tribromophenol	13.91	330	87920	68.71	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 68.71%			
70) p-Terphenyl-d14	16.21	244	405184	40.02	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 80.04%			
Target Compounds						Qvalue
5) Aniline	9.42	66	17093	154.32	ug/L	# 1

(#) = qualifier out of range (m) = manual integration
3M22975.D BNA.M Tue May 29 15:00:09 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052901\3M22975.D Vial: 8
Acq On : 29 May 2001 13:11 Operator: CLK
Sample : WG98045-01 L0105526-02 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration

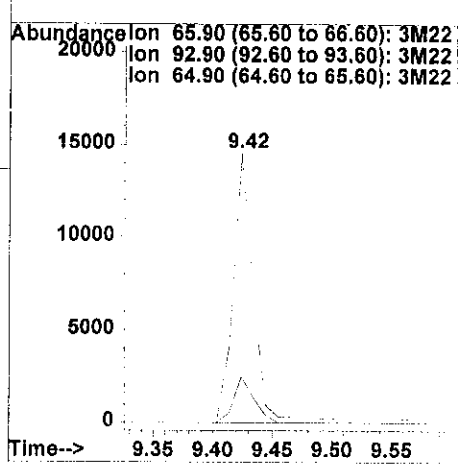




#5
Aniline
Concen: 154.32 ug/L
RT: 9.42 min Scan# 521
Delta R.T. -0.09 min
Lab File: 3M22975.D
Acq: 29 May 2001 13:11

Tgt Ion: 66 Resp: 17093

Ion	Ratio	Lower	Upper
66	100		
93	0.0	272.8	409.2#
65	17.2	39.2	58.8#



Data File : C:\MSDCHEM\1\DATA\052901\7M13094.D Vial: 8
Acq On : 29 May 2001 18:21 Operator: rdc
Sample : L0105526-02 SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:55:39 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	462747	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	259693	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	423063	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	416935	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	433174	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	267694	1.83	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 73.20%			
7) 2-Fluorobiphenyl	7.60	172	599002	1.57	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.80%			
17) p-Terphenyl-d14	11.45	244	902024	1.99	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 79.60%			
Target Compounds						Qvalue
24) Indeno[1,2,3-cd]pyrene	18.03	276	1348	6.60	ug/ml#	47

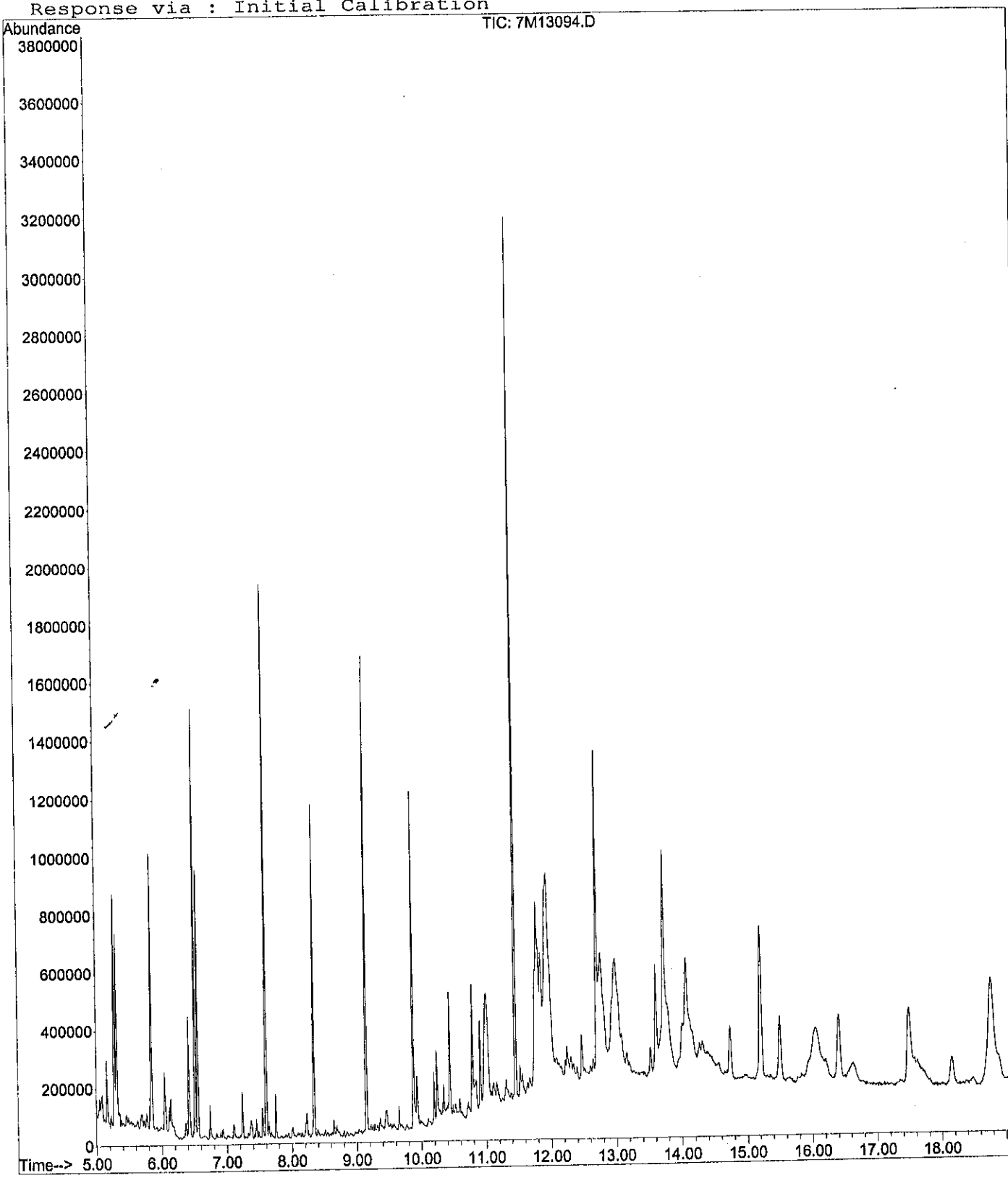
(#) = qualifier out of range (m) = manual integration
7M13094.D PAHLOW.M Wed May 30 10:55:51 2001 Page 360

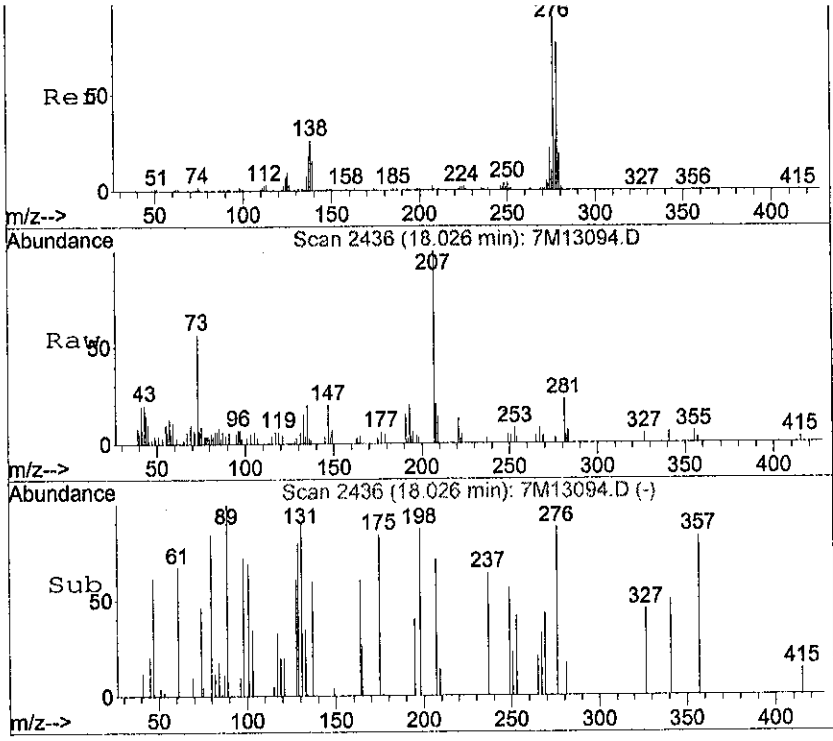
Data File : C:\MSDCHEM\1\DATA\052901\7M13094.D
Acq On : 29 May 2001 18:21
Sample : L0105526-02 SOIL
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 30 10:55 2001

Vial: 8
Operator: rdc
Inst : HPMS7
Multiplr: 50.00

Quant Results File: PAHLOW.RES

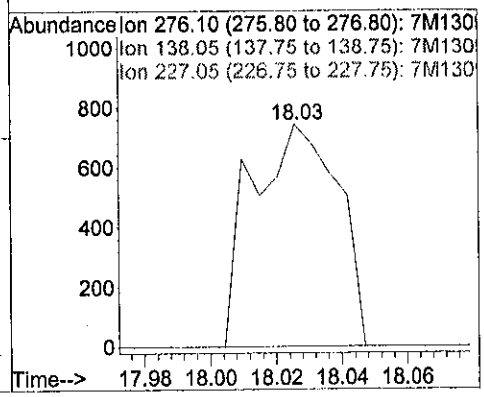
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration





Indeno[1,2,3-cd]pyrene
Concen: 6.60 ug/ml
RT: 18.03 min Scan# 2436
Delta R.T. -0.03 min
Lab File: 7M13094.D
Acq: 29 May 2001 18:21

Tgt Ion:276	Resp:	1348
Ion	Ratio	Lower	Upper
276	100		
138	0.0	22.5	33.7#
227	0.0	0.0	0.0



Data File : C:\HPCHEM\1\DATA\052901\3M22973.D Vial: 6
Acq On : 29 May 2001 12:02 Operator: CLK
Sample : L0105526-03 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

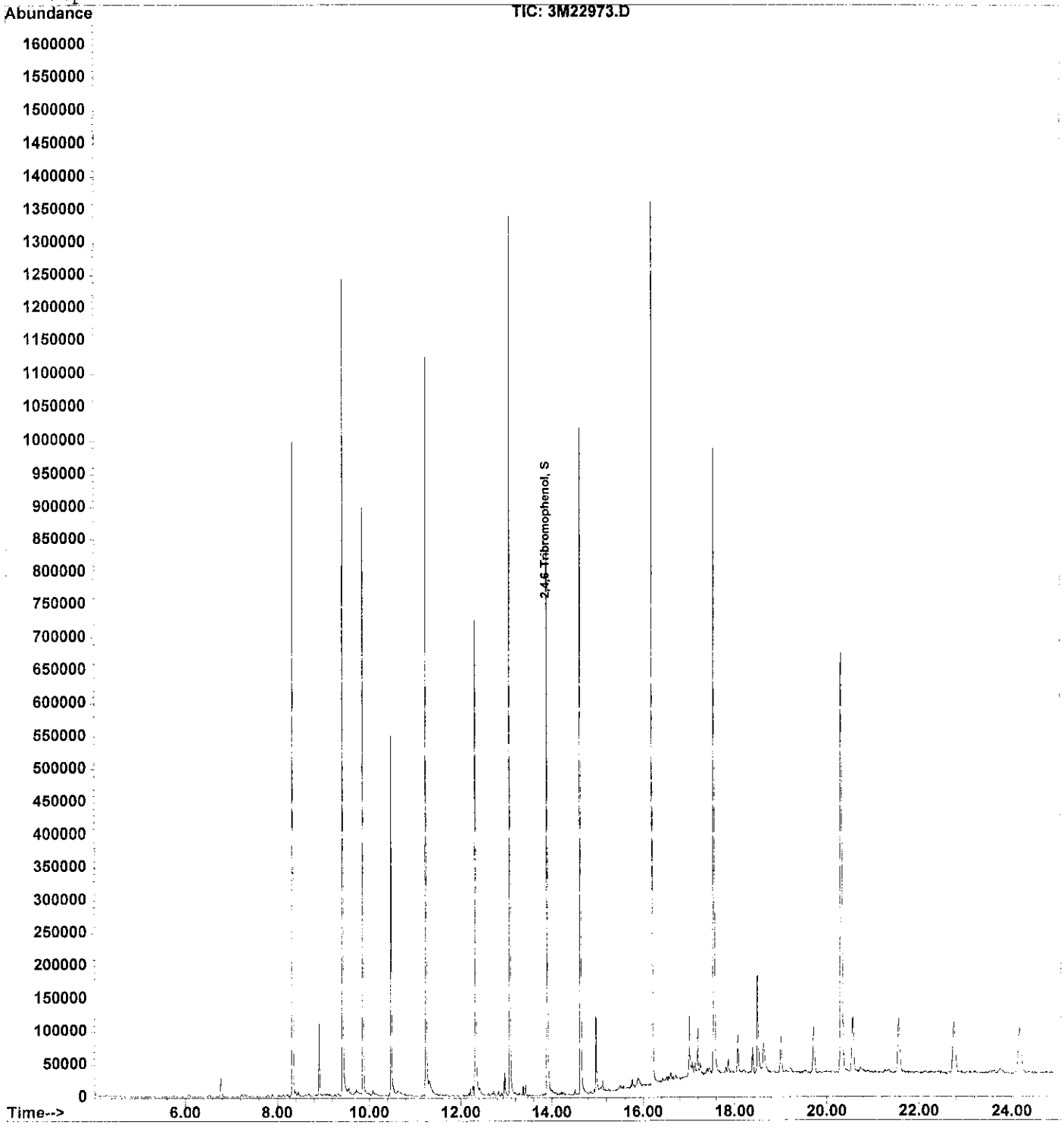
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

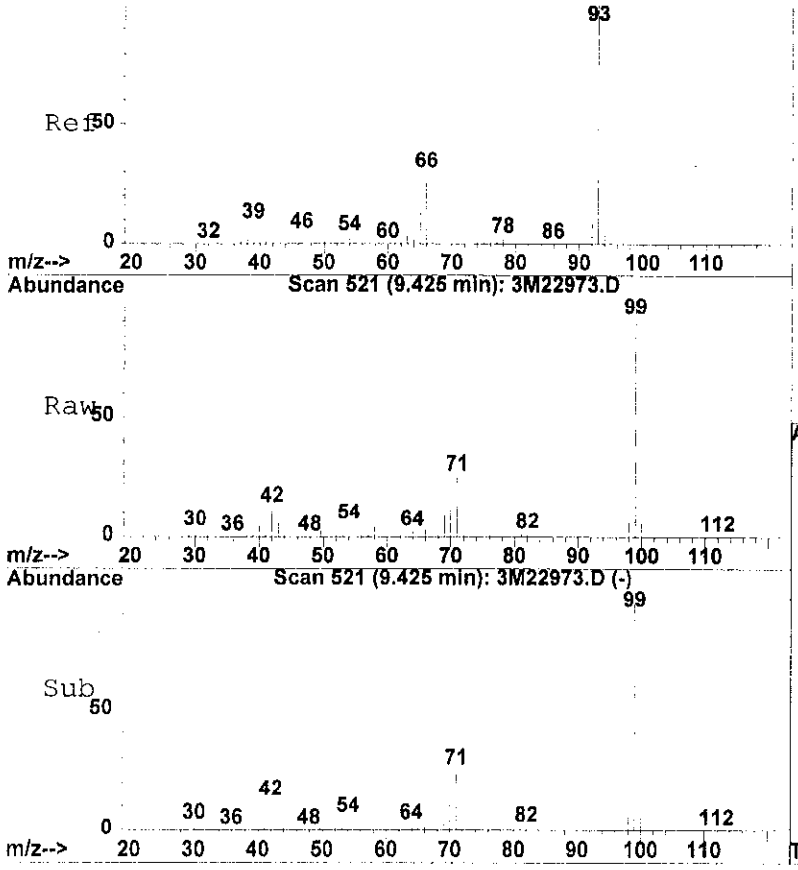
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.86	152	189482	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	658446	40.00	ug/L	0.00
34) Acenaphthene-d10	13.08	164	353161	40.00	ug/L	0.00
56) Phenanthrene-d10	14.64	188	483980	40.00	ug/L	0.00
67) Chrysene-d12	17.56	240	416212	40.00	ug/L	-0.02
76) Perylene-d12	20.33	264	521969	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	459175	50.60	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 50.60%			
6) Phenol-d5	9.42	99	636025	58.56	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 58.56%			
20) Nitrobenzene-d5	10.48	82	237168	31.12	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 62.24%			
38) 2-Fluorobiphenyl	12.34	172	345949	30.31	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 60.62%			
55) 2,4,6-Tribromophenol	13.91	330	114042	88.58	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 88.58%			
70) p-Terphenyl-d14	16.20	244	464707	46.77	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 93.54%			
Target Compounds						Qvalue
5) Aniline	9.42	66	20234	178.86	ug/L	# 1

(#) = qualifier out of range (m) = manual integration
3M22973.D BNA.M Tue May 29 14:59:09 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052901\3M22973.D Vial: 6
Acq On : 29 May 2001 12:02 Operator: CLK
Sample : L0105526-03 SOIL Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:59 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration

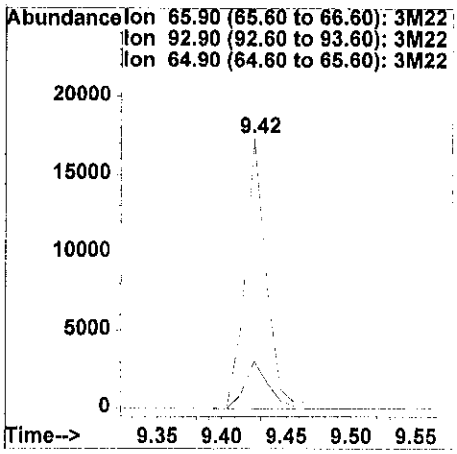




Aniline
Concen: 178.86 ug/L
RT: 9.42 min Scan# 521
Delta R.T. -0.09 min
Lab File: 3M22973.D
Acq: 29 May 2001 12:02

Tgt Ion: 66 Resp: 20234

Ion	Ratio	Lower	Upper
66	100		
93	0.0	272.8	409.2#
65	19.1	39.2	58.8#



Data File : C:\MSDCHEM\1\DATA\052901\7M13095.D Vial: 9
Acq On : 29 May 2001 18:47 Operator: rdc
Sample : L0105526-03 SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:56:03 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	449979	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	249483	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	408994	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	401368	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	424954	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	380893	2.65	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery =	106.00%		
7) 2-Fluorobiphenyl	7.60	172	842343	2.30	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery =	92.00%		
17) p-Terphenyl-d14	11.45	244	1212840	2.78	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery =	111.20%		
Target Compounds						Qvalue
24) Indeno[1,2,3-cd]pyrene	18.06	276	354	6.54	ug/ml#	47
25) Dibenz[ah]anthracene	18.02	278	162	6.64	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
7M13095.D PAHLOW.M Wed May 30 10:56:16 2001 Page 1

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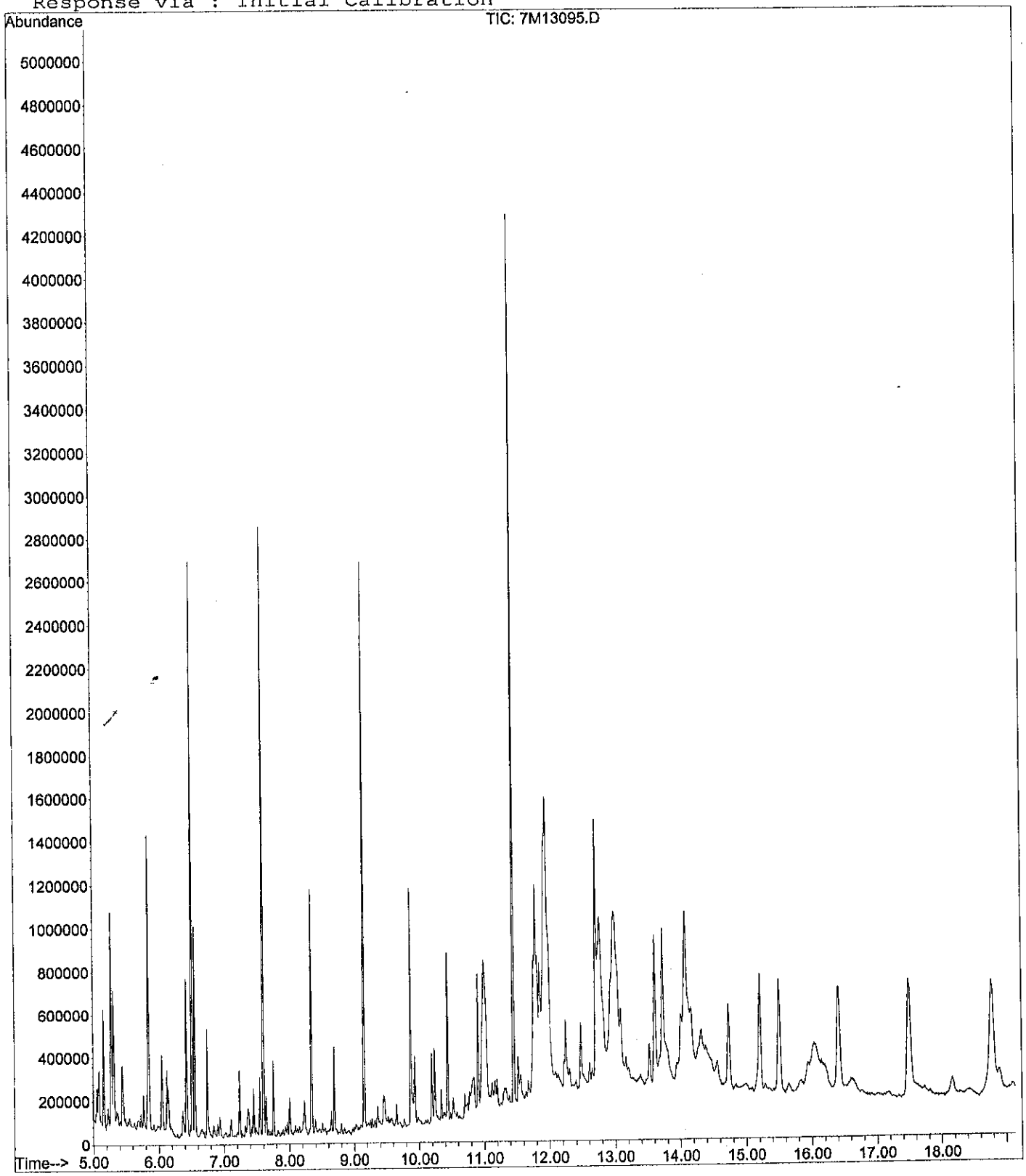
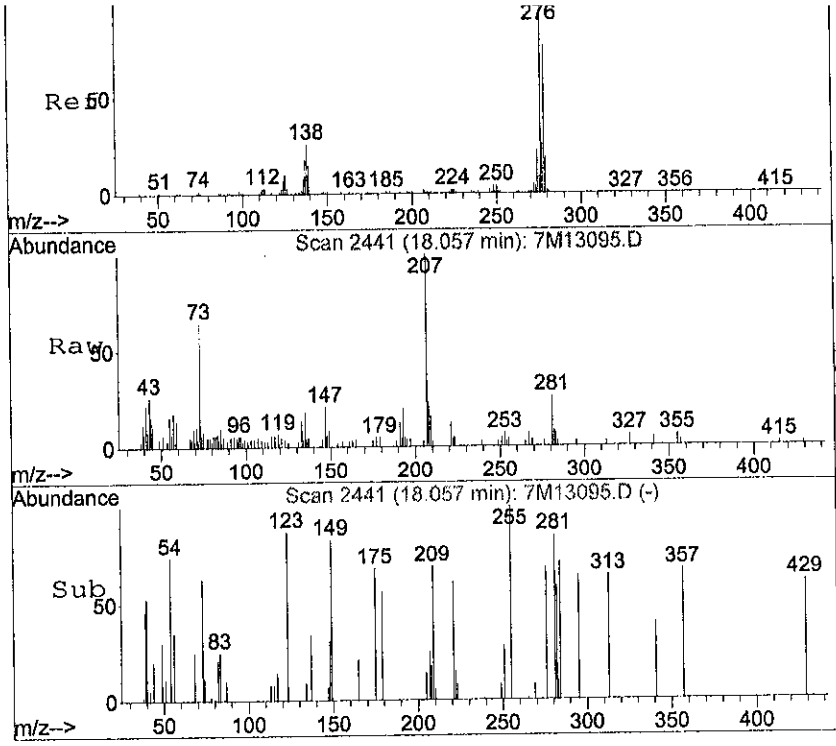
Data File : C:\MSDCHEM\1\DATA\052901\7M13095.D Vial: 9
Acq On : 29 May 2001 18:47 Operator: rdc
Sample : L0105526-03 SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:56 2001 Quant Results File: PAHLOW.RES

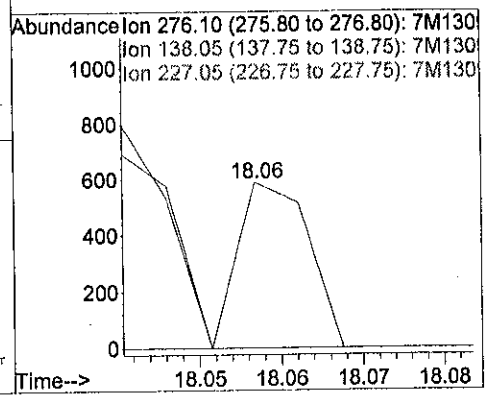
Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration

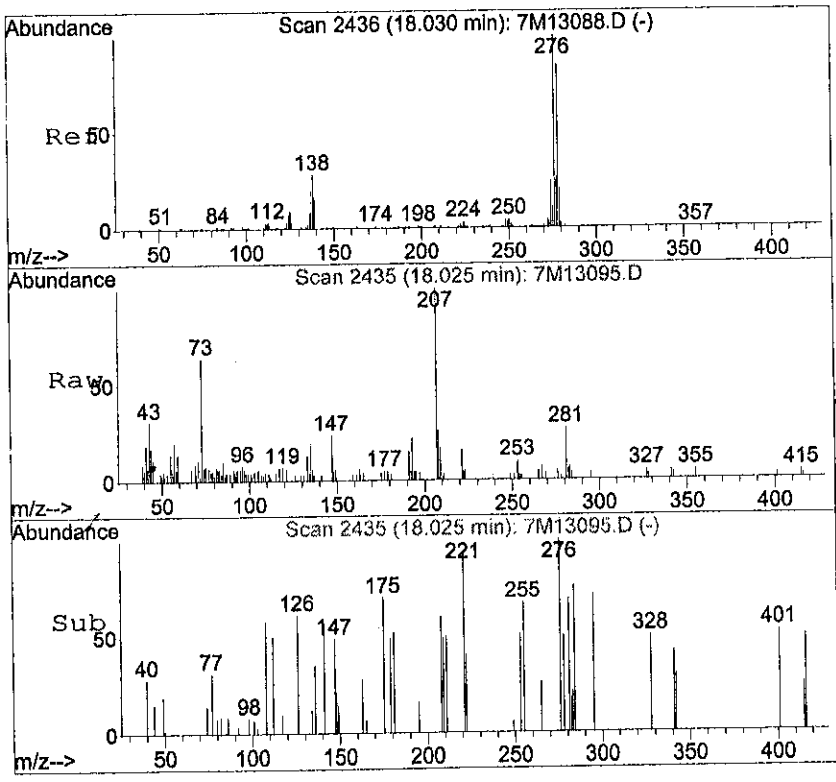




Indeno[1,2,3-cd]pyrene
Concen: 6.54 ug/ml
RT: 18.06 min Scan# 2441
Delta R.T. 0.01 min
Lab File: 7M13095.D
Acq: 29 May 2001 18:47

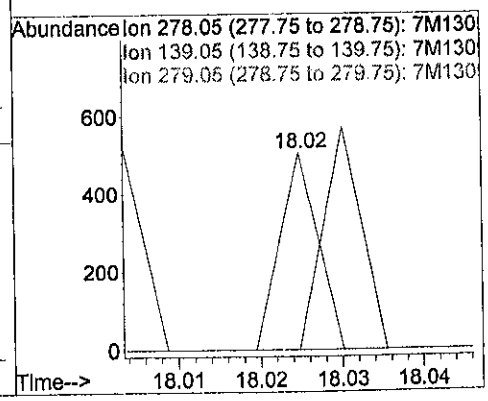
Tgt Ion:276	Resp:	354
Ion	Ratio	Lower	Upper
276	100		
138	0.0	22.5	33.7#
227	0.0	0.0	0.0





#25
Dibenz[ah]anthracene
Concen: 6.64 ug/ml
RT: 18.02 min Scan# 2435
Delta R.T. -0.03 min
Lab File: 7M13095.D
Acq: 29 May 2001 18:47

Tgt Ion:278	Resp:	162
Ion	Ratio	Lower	Upper
278	100		
139	113.0	15.4	23.0#
279	0.0	19.1	28.7#



Data File : C:\HPCHEM\1\DATA\052401\5M17067.D Vial: 22
Acq On : 24 May 2001 19:55 Operator: CLK
Sample : L0105526-04 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 10:05 2001 Quant Results File: BNA.RES

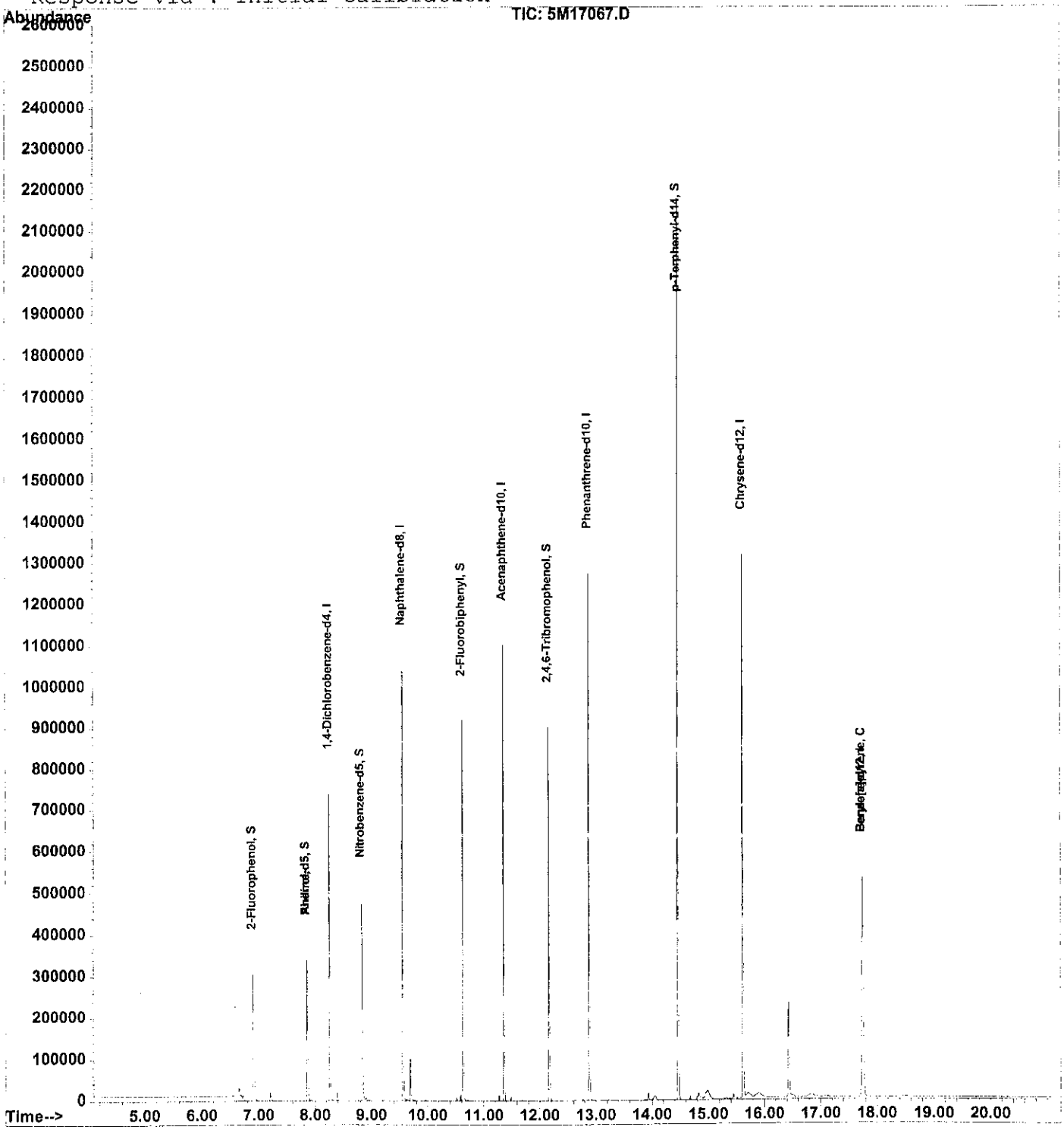
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration
DataAcq Meth : BNA

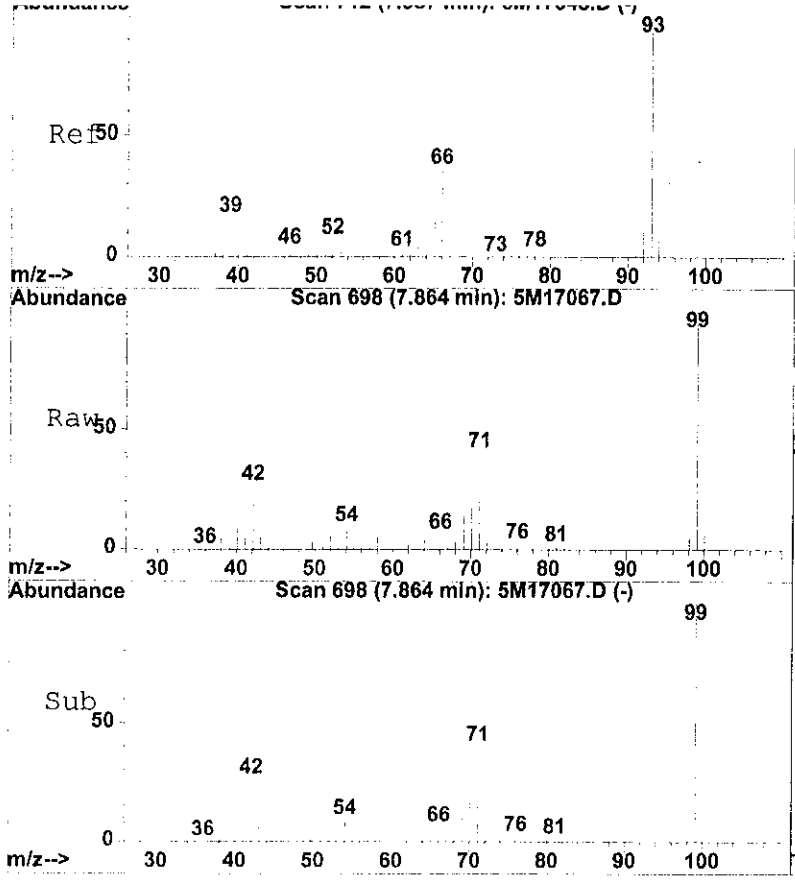
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	120916	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	444569	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	265072	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	453013	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	489704	40.00	ug/mL	0.00
76) Perylene-d12	17.75	264	398113	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	128201	35.01	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 35.01%			
6) Phenol-d5	7.86	99	122417	25.57	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 25.57%			
20) Nitrobenzene-d5	8.84	82	150511	34.11	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 68.22%			
38) 2-Fluorobiphenyl	10.64	172	295292	31.67	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 63.34%			
55) 2,4,6-Tribromophenol	12.17	330	87002	60.83	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 60.83%			
70) p-Terphenyl-d14	14.47	244	650743	51.42	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 102.84%			
Target Compounds						Qvalue
5) Aniline	7.86	66	7905	3.49	ug/mL#	1
80) Benzo[a]pyrene	17.75	252	779	3.51	ug/mL#	60

(#) = qualifier out of range (m) = manual integration
5M17067.D BNA.M Fri May 25 10:05:04 2001 HPMS5 Page 1

Data File : C:\HPCHEM\1\DATA\052401\5M17067.D Vial: 22
Acq On : 24 May 2001 19:55 Operator: CLK
Sample : L0105526-04 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 10:05 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration

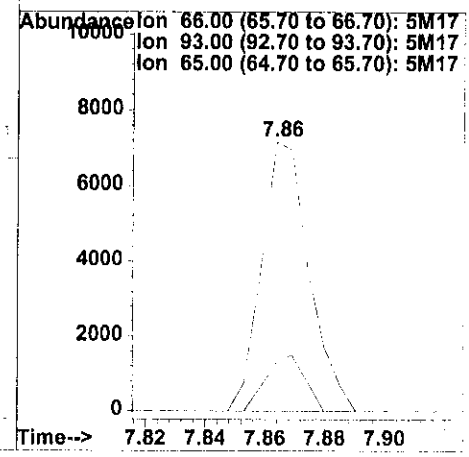


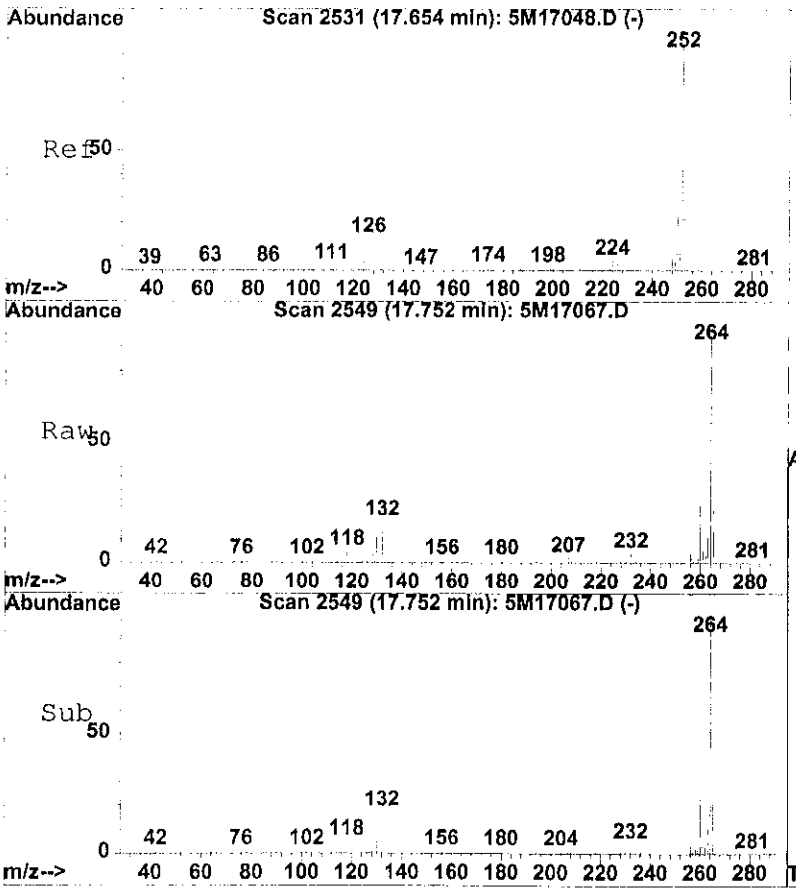


#5
Aniline
Concen: 3.49 ug/mL
RT: 7.86 min Scan# 698
Delta R.T. -0.07 min
Lab File: 5M17067.D
Acq: 24 May 2001 19:55

Tgt Ion: 66 Resp: 7905

Ion	Ratio	Lower	Upper
66	100		
93	0.0	213.0	319.6#
65	16.8	42.3	63.5#

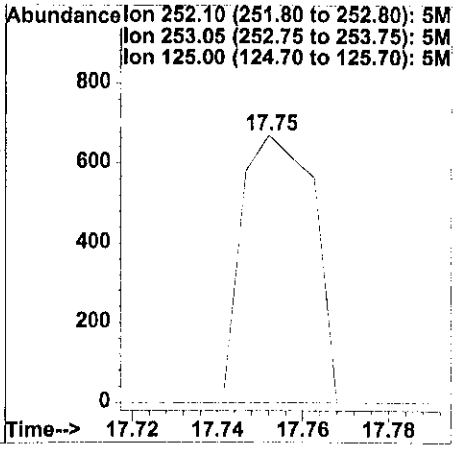




#80
Benzo[a]pyrene
Concen: 3.51 ug/mL
RT: 17.75 min Scan# 2549
Delta R.T. 0.10 min
Lab File: 5M17067.D
Acq: 24 May 2001 19:55

Tgt Ion:252 Resp: 779

Ion	Ratio	Lower	Upper
252	100		
253	0.0	17.5	26.3#
125	0.0	7.2	10.8#



Data File : C:\MSDCHEM\1\DATA\052401\7M13075.D
Acq On : 24 May 2001 14:32
Sample : L0105526-04 WATER
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 25 11:44:16 2001

Vial: 6
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

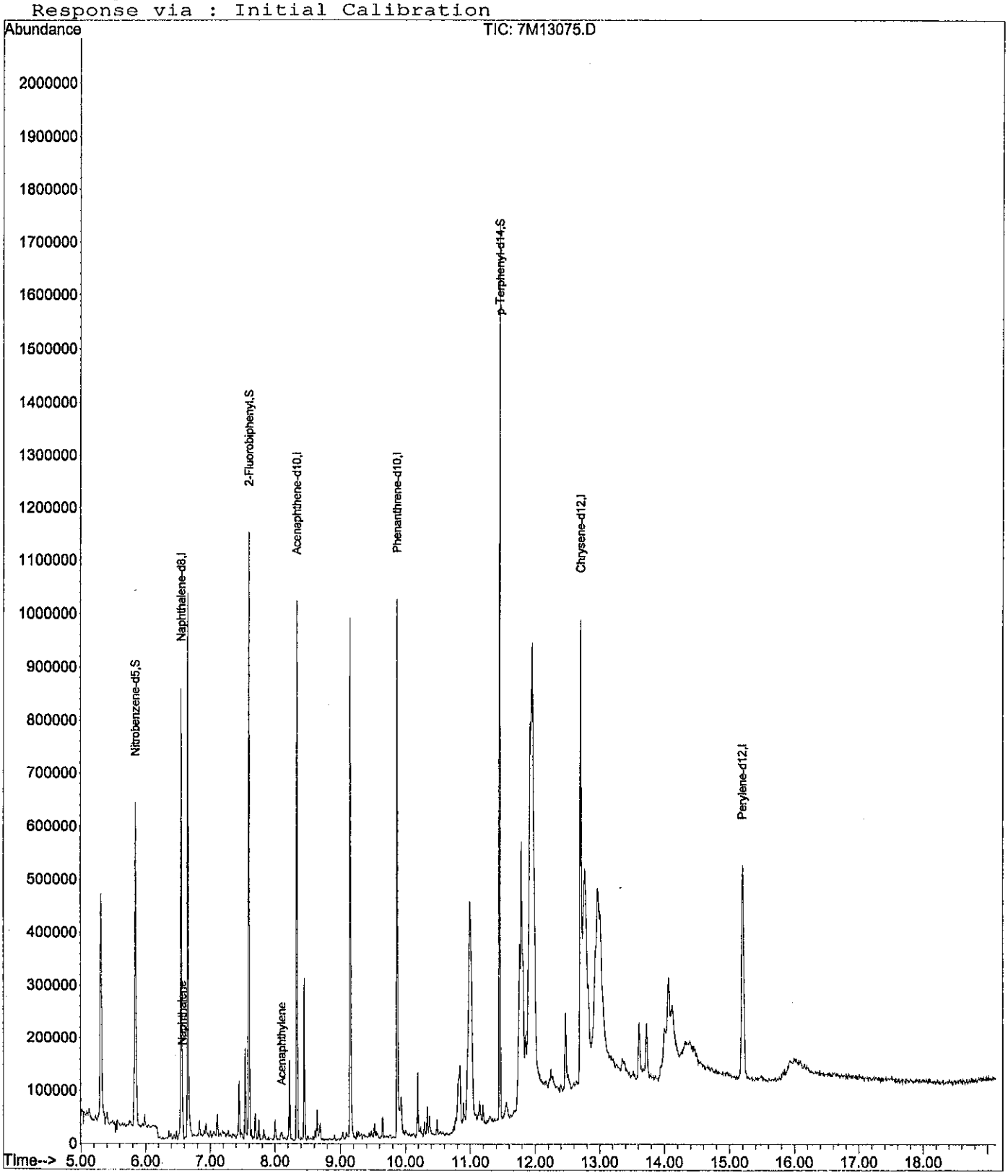
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

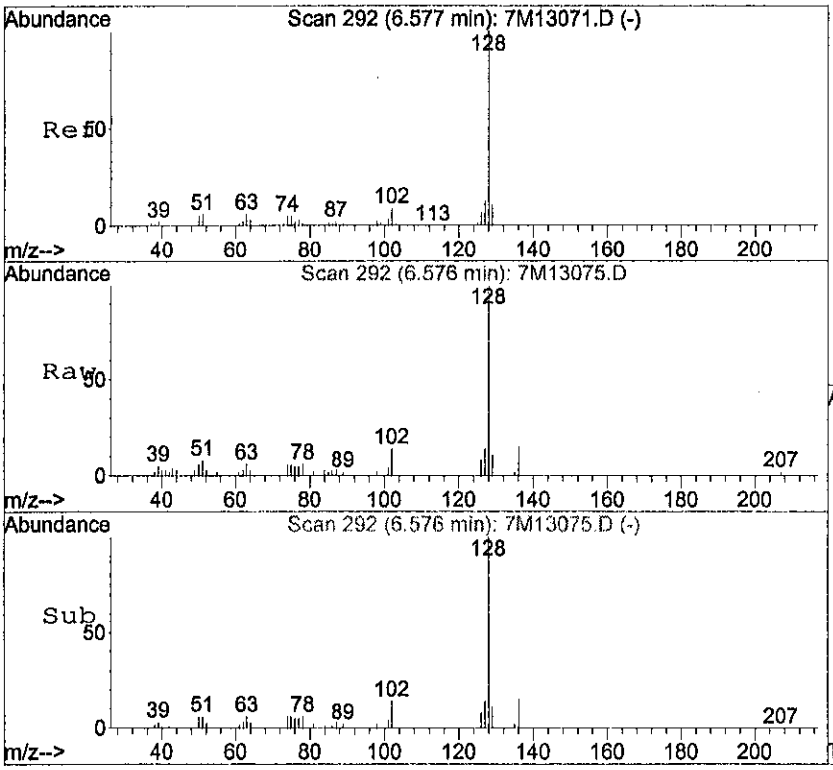
Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8		6.55	136	421140	1.00	ug/ml	0.00
6) Acenaphthene-d10		8.34	164	233488	1.00	ug/ml	0.00
11) Phenanthrene-d10		9.87	188	376096	1.00	ug/ml	0.00
15) Chrysene-d12		12.71	240	338501	1.00	ug/ml	0.00
20) Perylene-d12		15.20	264	329637	1.00	ug/ml	-0.02
System Monitoring Compounds							
2) Nitrobenzene-d5		5.84	82	187718	1.42	ug/ml	0.00
Spiked Amount	2.500	Range 35 - 114		Recovery	=	56.80%	
7) 2-Fluorobiphenyl		7.60	172	344613	1.00	ug/ml	0.00
Spiked Amount	2.500	Range 43 - 116		Recovery	=	40.00%#	
17) p-Terphenyl-d14		11.45	244	516923	1.40	ug/ml	0.00
Spiked Amount	2.500	Range 33 - 141		Recovery	=	56.00%	
Target Compounds							Qvalue
3) Naphthalene		6.58	128	29932	0.06	ug/ml	99
8) Acenaphthylene		8.10	152	163	0.08	ug/ml#	1

(#) = qualifier out of range (m) = manual integration
7M13075.D PAHLOW.M Fri May 25 11:44:54 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052401\7M13075.D Vial: 6
Acq On : 24 May 2001 14:32 Operator: rdc
Sample : L0105526-04 WATER Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 11:44 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration

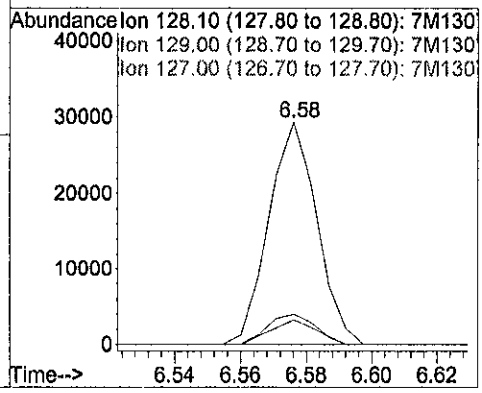


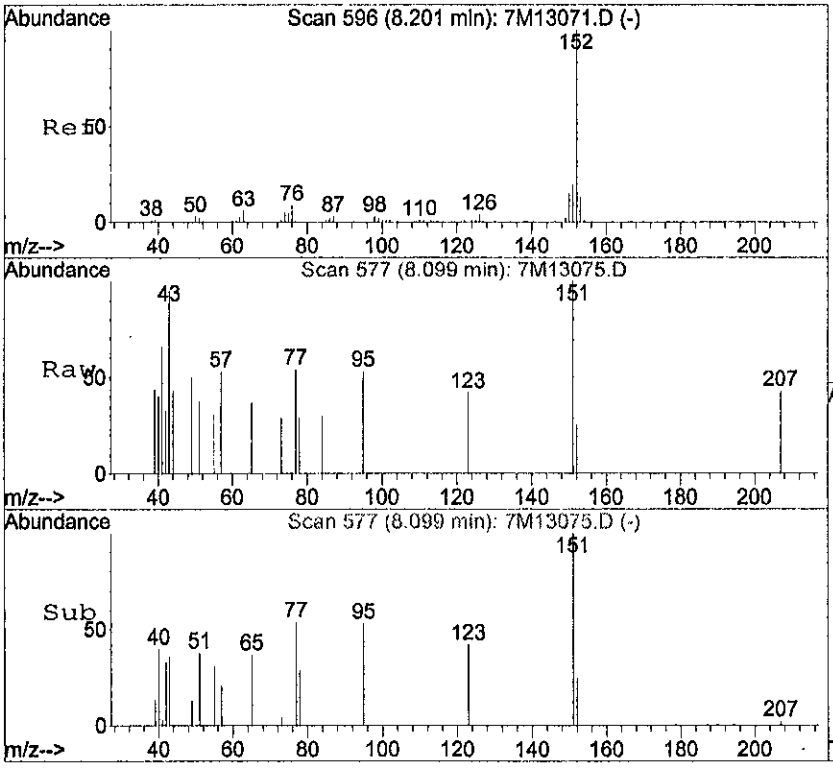


#3
Naphthalene
Concen: 0.06 ug/ml
RT: 6.58 min Scan# 292
Delta R.T. -0.01 min
Lab File: 7M13075.D
Acq: 24 May 2001 14:32

Tgt Ion:128 Resp: 29932

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.9	13.3
127	13.4	10.9	16.3

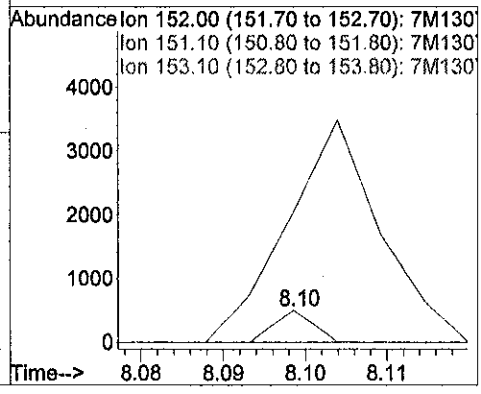




#8
Acenaphthylene
Concen: 0.08 ug/ml
RT: 8.10 min Scan# 577
Delta R.T. -0.11 min
Lab File: 7M13075.D
Acq: 24 May 2001 14:32

Tgt Ion:152 Resp: 163

Ion	Ratio	Lower	Upper
152	100		
151	1695.7	16.2	24.2#
153	0.0	10.2	15.2#



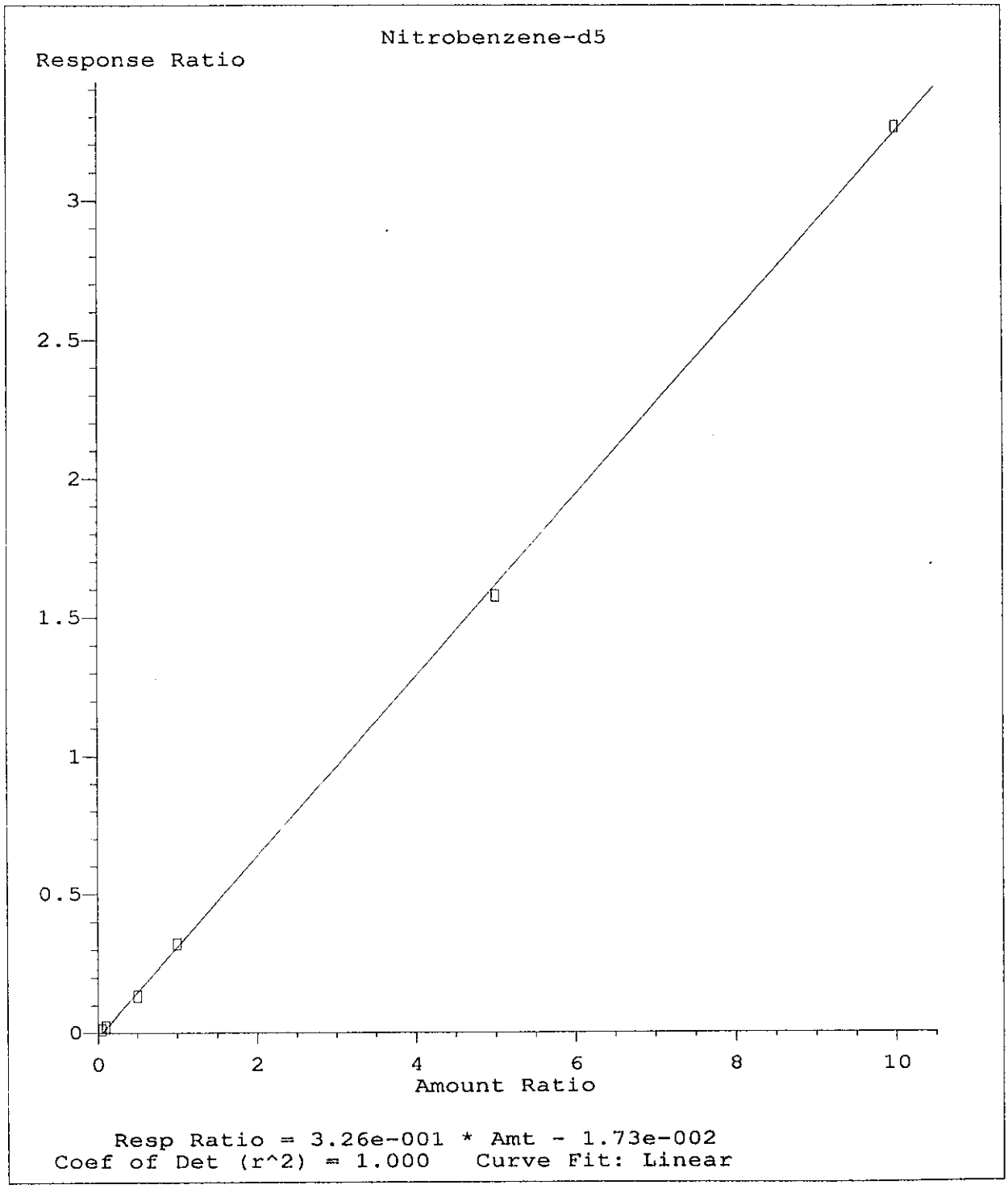
2.2.1.3 Standards Data

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration

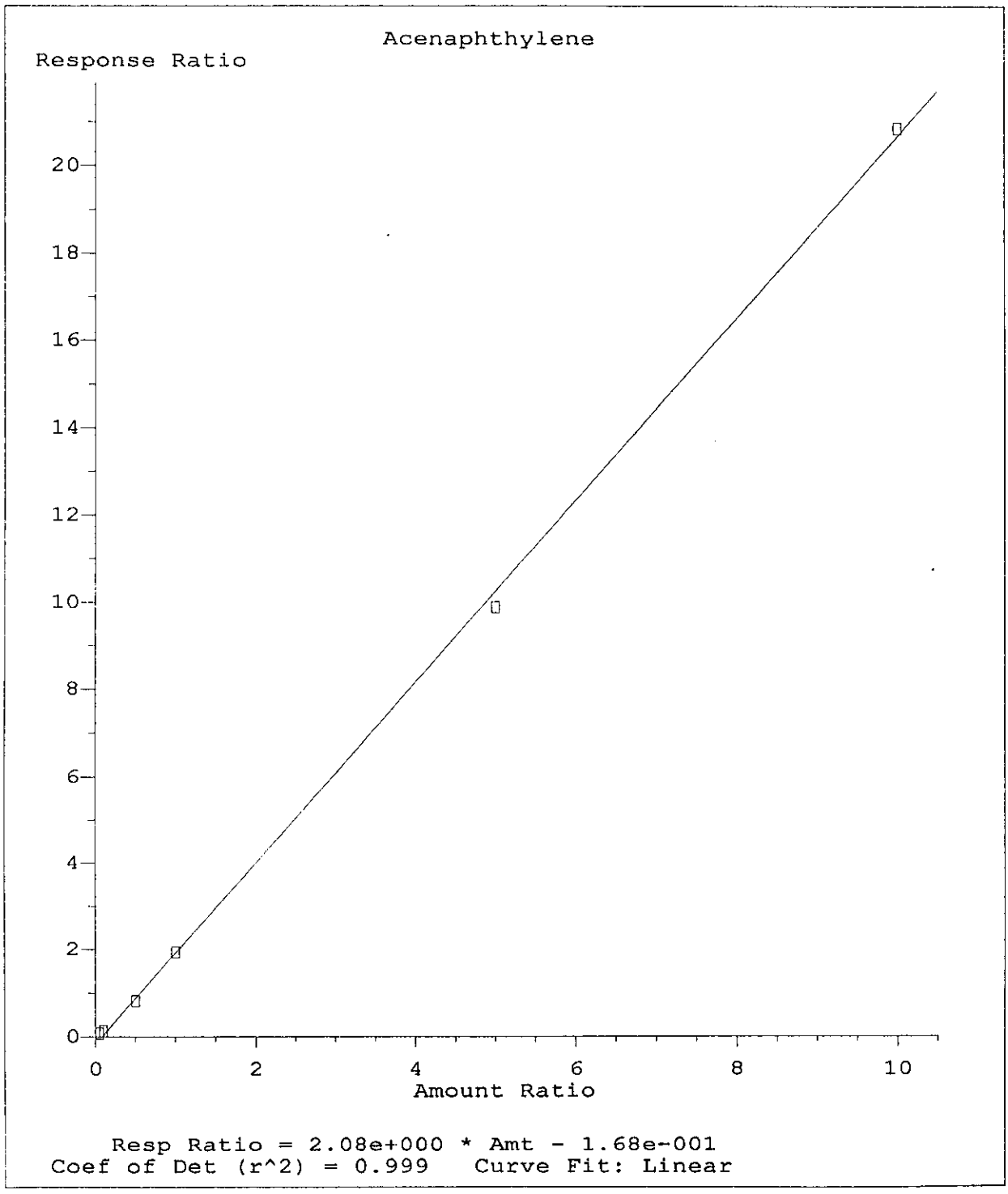
Calibration Files
.05 =7M13004.D .1 =7M13003.D .5 =7M13002.D
1 =7M12999.D 5 =7M13001.D 10 =7M13000.D

		Compound	.05	.1	.5	1	5	10	Avg	%RSD
1)	I	Naphthalene-d8	ISTD							
2)	S	Nitrobenzene-d5	0.242	0.231	0.265	0.321	0.315	0.326	0.283	15.03
3)		Naphthalene	1.259	1.100	1.104	1.116	1.057	1.081	1.119	6.39
4)		2-Methylnaphtha	0.739	0.669	0.701	0.711	0.702	0.736	0.710	3.59
5)		1-Methylnaphtha	0.781	0.650	0.668	0.674	0.657	0.690	0.687	7.02
6)	I	Acenaphthene-d10	ISTD							
7)	S	2-Fluorobipheny	1.648	1.359	1.424	1.472	1.432	1.488	1.471	6.64
8)		Acenaphthylene	1.526	1.286	1.635	1.927	1.976	2.084	1.739	17.66
9)	C	Acenaphthene	1.442	1.201	1.196	1.265	1.223	1.302	1.272	7.29
10)		Fluorene	1.446	1.180	1.296	1.407	1.421	1.518	1.378	8.75
11)	I	Phenanthrene-d10	ISTD							
12)		Phenanthrene	1.490	1.173	1.221	1.256	1.241	1.331	1.286	8.77
13)		Anthracene	0.976	0.910	1.045	1.168	1.198	1.294	1.099	13.29
14)	C	Fluoranthene	1.276	1.196	1.276	1.373	1.391	1.493	1.334	7.92
15)	I	Chrysene-d12	ISTD							
16)		Pyrene	1.735	1.378	1.490	1.561	1.490	1.560	1.536	7.70
17)	S	p-Terphenyl-d14	1.188	0.995	1.056	1.104	1.051	1.134	1.088	6.27
18)		Benzo[a]anthrac	1.241	1.061	1.198	1.320	1.321	1.418	1.260	9.79
19)		Chrysene	1.577	1.365	1.387	1.395	1.306	1.394	1.404	6.48
20)	I	Perylene-d12	ISTD							
21)		Benzo[b]fluoran	1.727	1.442	1.604	1.683	1.686	1.860	1.667	8.32
22)		Benzo[k]fluoran	1.832	1.376	1.510	1.573	1.647	1.786	1.621	10.57
23)	C	Benzo[a]pyrene	1.245	1.046	1.190	1.305	1.443	1.594	1.304	14.82
24)		Indeno[1,2,3-cd	1.139	1.121	1.422	1.617	1.734	1.927	1.493	21.80
25)		Dibenz[ah]anthr	1.015	0.922	1.156	1.293	1.374	1.543	1.217	19.03
26)		Benzo[ghi]peryl	1.253	1.233	1.352	1.436	1.420	1.513	1.368	8.01

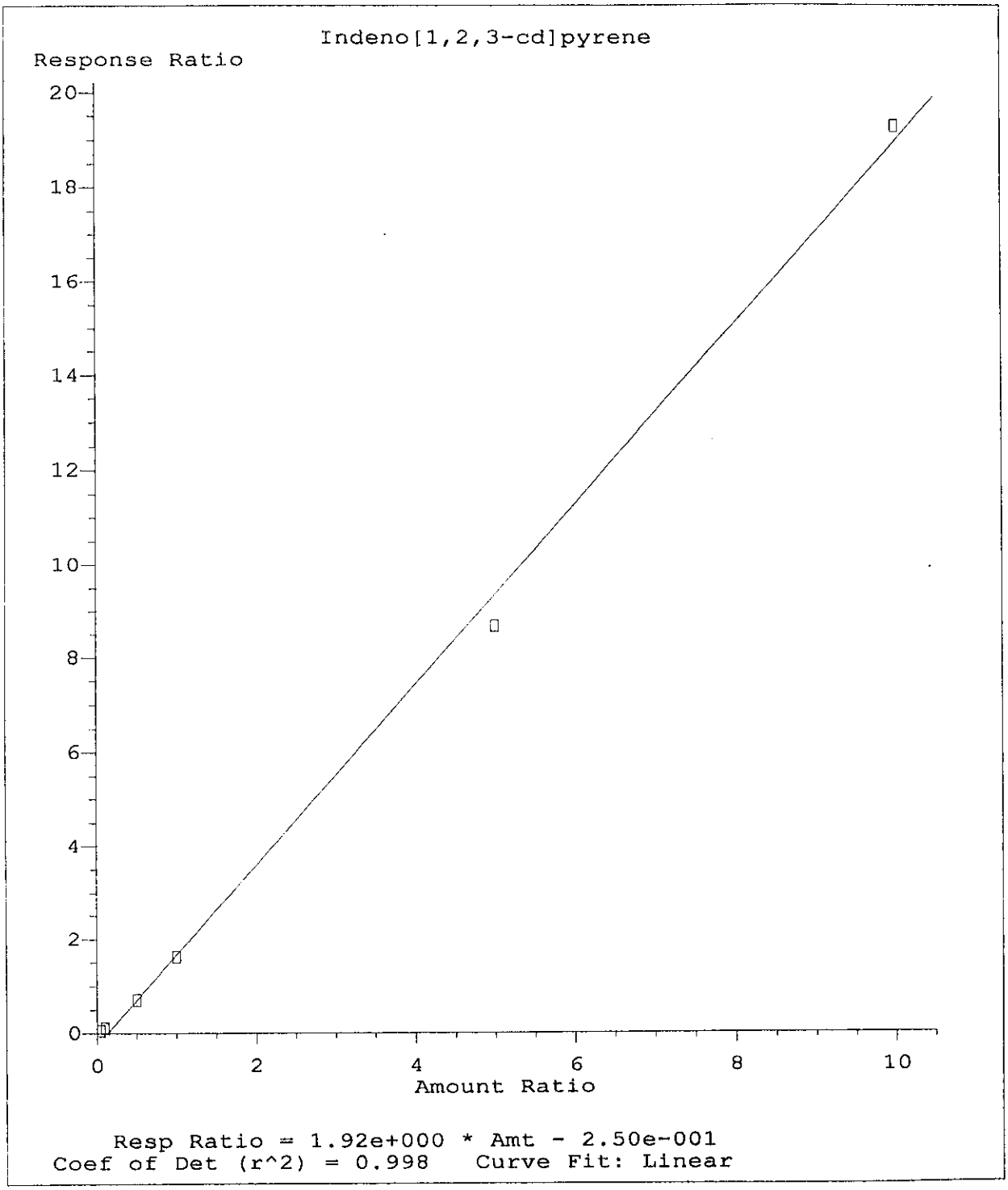
(#) = Out of Range



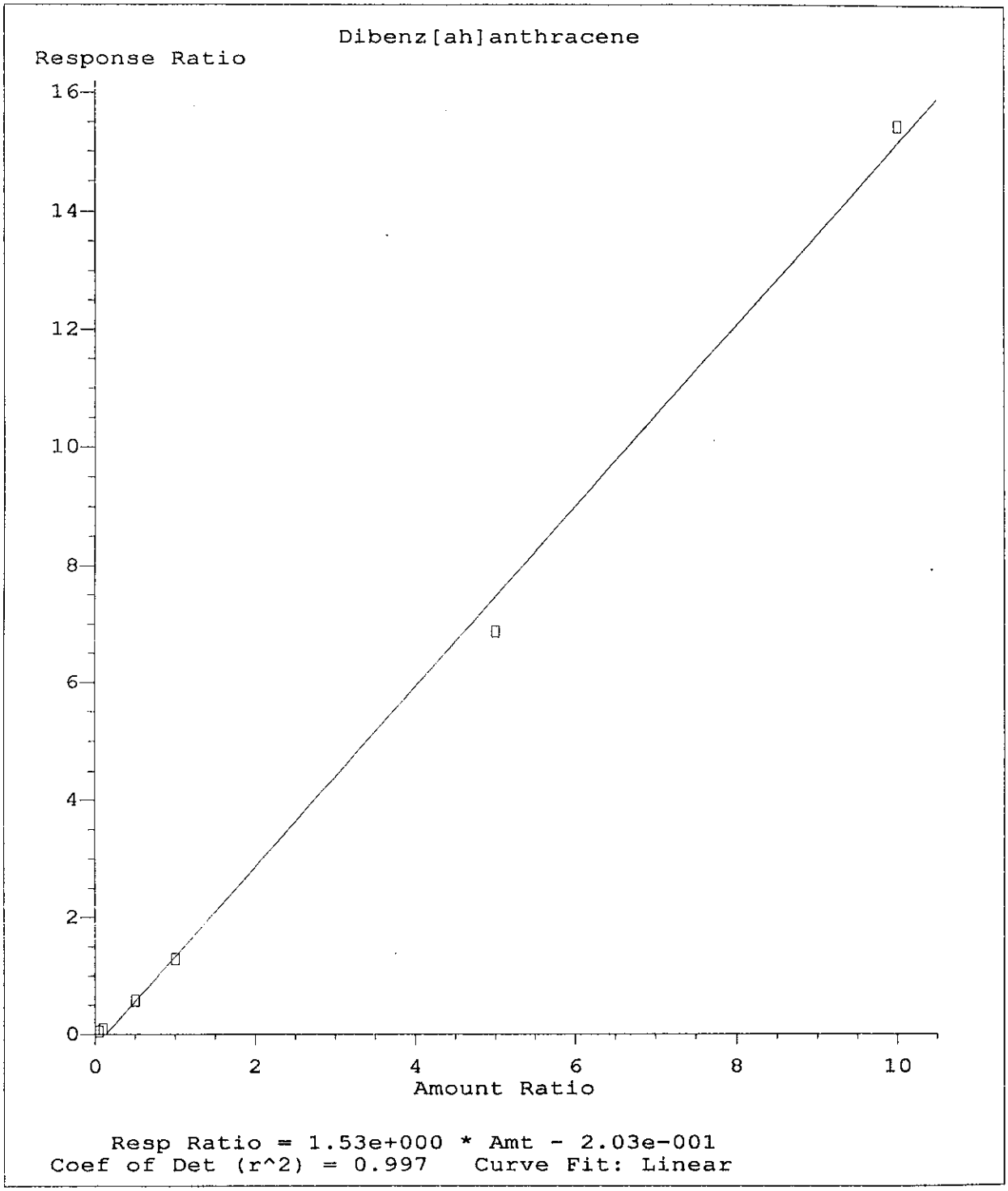
Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:51:56 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001



Method Name: C:\MSDCHEM\1\METHODS\PAHLOW.M
Calibration Table Last Updated: Tue May 22 07:52:26 2001

Acq On : 21 May 2001 18:14 Operator: mdc
Sample : 1ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 07:26:39 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:26:27 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	449212	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	229149	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	370678	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	339209	1.00	ug/ml	0.00
20) Perylene-d12	15.23	264	274829	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	144136	1.09	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 43.60%			
7) 2-Fluorobiphenyl	7.61	172	337310	1.02	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 40.80%#			
17) p-Terphenyl-d14	11.46	244	374599	0.99	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 39.60%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	501224	0.98	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	319508	0.99	ug/ml	100
5) 1-Methylnaphthalene	7.37	142	302966	0.92	ug/ml	99
8) Acenaphthylene	8.21	152	441540	1.09	ug/ml	100
9) Acenaphthene	8.38	154	289972	1.00	ug/ml	100
10) Fluorene	8.90	166	322453	1.01	ug/ml	100
12) Phenanthrene	9.90	178	465739	0.96	ug/ml	100
13) Anthracene	9.96	178	433084	1.03	ug/ml	100
14) Fluoranthene	11.14	202	509035	1.01	ug/ml	100
16) Pyrene	11.38	202	529606	0.99	ug/ml	100
18) Benzo[a]anthracene	12.69	228	447716	1.02	ug/ml	100
19) Chrysene	12.75	228	473364	0.99	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	462672	0.99	ug/ml	100
22) Benzo[k]fluoranthene	14.46	252	432198	0.95	ug/ml	100
23) Benzo[a]pyrene	15.10	252	358558	0.98	ug/ml	100
24) Indeno[1,2,3-cd]pyrene	18.05	276	444352	1.10	ug/ml#	100
25) Dibenz[ah]anthracene	18.05	278	355301	1.09	ug/ml	100
26) Benzo[ghi]perylene	18.95	276	394588	1.11	ug/ml	100

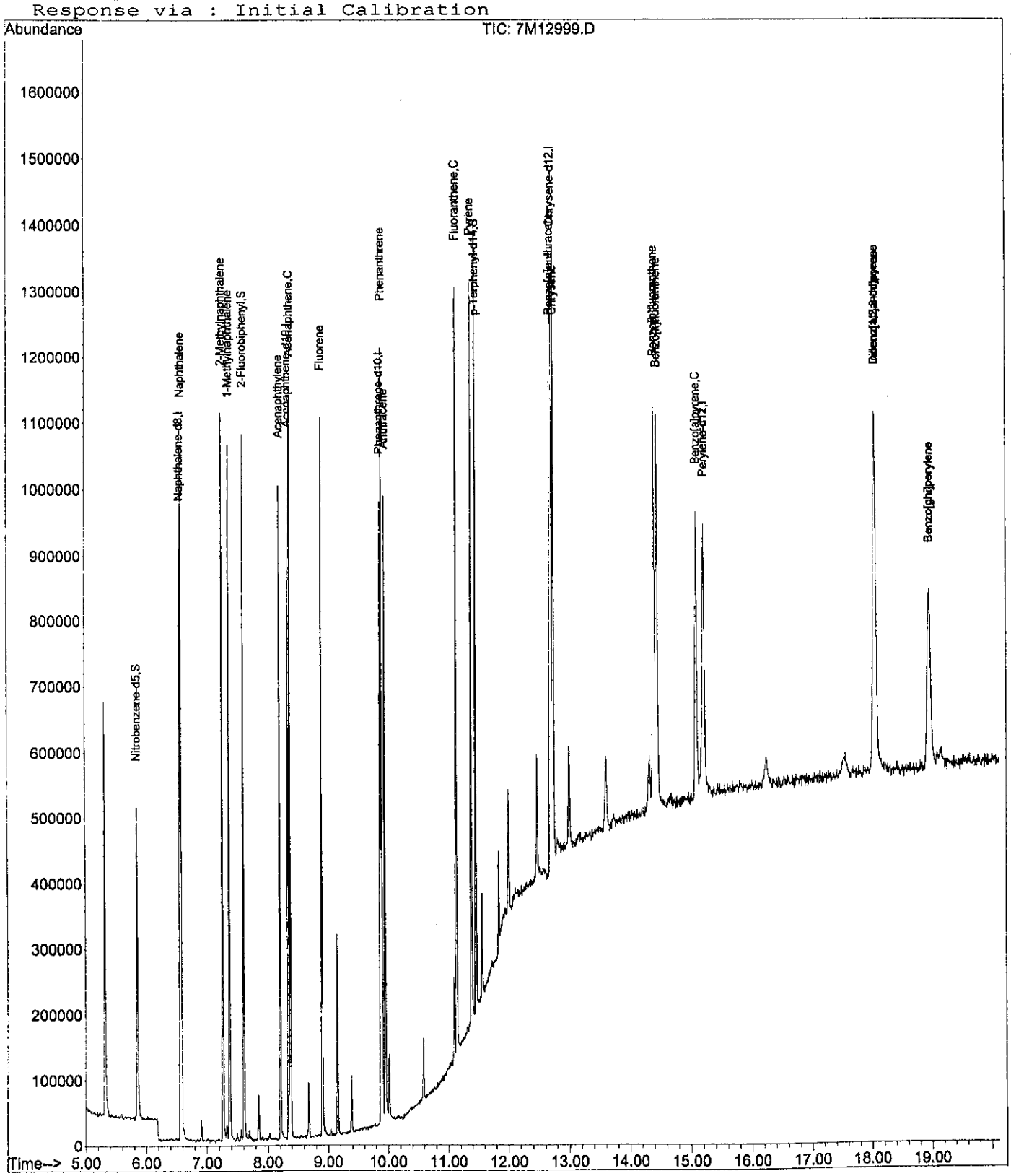
(#) = qualifier out of range (m) = manual integration
7M12999.D PAHLOW.M Tue May 22 07:51:12 2001 Page 1

Acq On : 21 May 2001 18:14
Sample : 1ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:26 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M12999.D PAHLOW.M Tue May 22 07:51:13 2001 Page 2

Acq On : 21 May 2001 18:41
Sample : 10ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:26:59 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:26:52 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	423163	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	222922	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	362737	1.00	ug/ml	0.00
15) Chrysene-d12	12.72	240	369478	1.00	ug/ml	0.00
20) Perylene-d12	15.23	264	279263	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	1380907	11.11	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	444.40%#		
7) 2-Fluorobiphenyl	7.61	172	3316778	10.27	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	410.80%#		
17) p-Terphenyl-d14	11.46	244	4188340	10.18	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	407.20%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	4573437	9.46	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	3112923	10.19	ug/ml	100
5) 1-Methylnaphthalene	7.37	142	2918700	9.38	ug/ml	97
8) Acenaphthylene	8.21	152	4646445	11.77	ug/ml	98
9) Acenaphthene	8.38	154	2902393	10.28	ug/ml	98
10) Fluorene	8.90	166	3383379	10.93	ug/ml	99
12) Phenanthrene	9.90	178	4828120	10.21	ug/ml	99
13) Anthracene	9.96	178	4695071	11.45	ug/ml	99
14) Fluoranthene	11.14	202	5416367	10.99	ug/ml	98
16) Pyrene	11.39	202	5763429	9.91	ug/ml	99
18) Benzo[a]anthracene	12.70	228	5240821	10.94	ug/ml	99
19) Chrysene	12.75	228	5152214	9.91	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	5194934	10.93	ug/ml	99
22) Benzo[k]fluoranthene	14.46	252	4987149	10.78	ug/ml	99
23) Benzo[a]pyrene	15.11	252	4450999	11.97	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.07	276	5380083	13.08	ug/ml#	99
25) Dibenz[ah]anthracene	18.07	278	4309029	13.04	ug/ml	100
26) Benzo[ghi]perylene	18.98	276	4224214	11.65	ug/ml	99

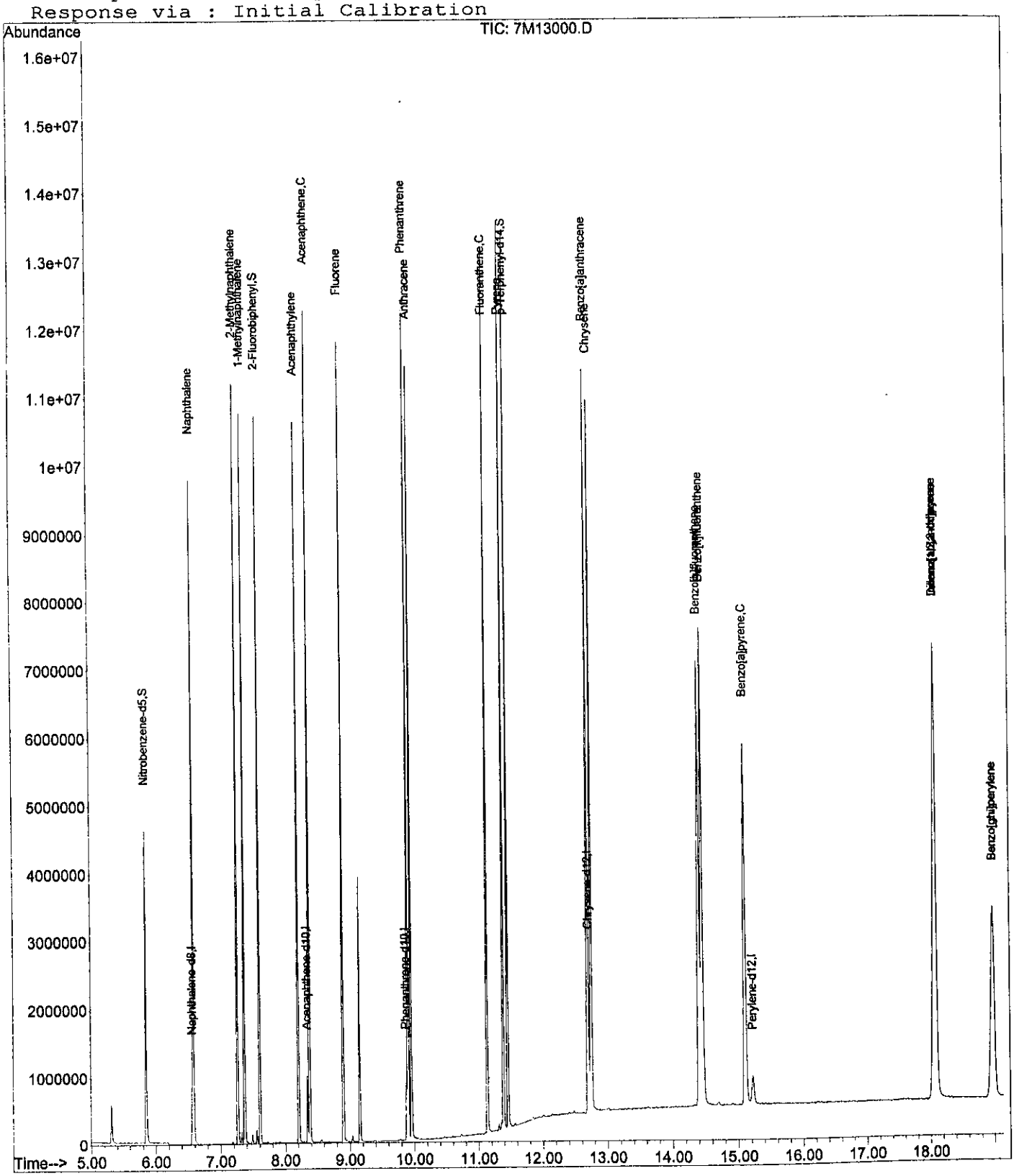
(#) = qualifier out of range (m) = manual integration
7M13000.D PAHLOW.M Tue May 22 07:51:15 2001

Acq On : 21 May 2001 18:41
Sample : 10ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:26 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



Acq On : 21 May 2001 19:08 Operator: mdc
Sample : 5ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 07:27:19 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:27:10 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	432768	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	227375	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	369912	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	363591	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	279817	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	682361	5.37	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	214.80%#		
7) 2-Fluorobiphenyl	7.61	172	1627761	4.94	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	197.60%#		
17) p-Terphenyl-d14	11.46	244	1910864	4.72	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	188.80%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	2286494	4.62	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	1519988	4.87	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	1421962	4.52	ug/ml	99
8) Acenaphthylene	8.21	152	2246457	5.58	ug/ml	99
9) Acenaphthene	8.38	154	1390667	4.83	ug/ml	98
10) Fluorene	8.90	166	1615892	5.12	ug/ml	98
12) Phenanthrene	9.90	178	2296084	4.76	ug/ml	100
13) Anthracene	9.95	178	2215334	5.30	ug/ml	100
14) Fluoranthene	11.14	202	2572454	5.12	ug/ml	99
16) Pyrene	11.38	202	2708059	4.73	ug/ml	99
18) Benzo[a]anthracene	12.70	228	2400696	5.09	ug/ml	100
19) Chrysene	12.75	228	2374714	4.64	ug/ml	100
21) Benzo[b]fluoranthene	14.41	252	2359034	4.95	ug/ml	100
22) Benzo[k]fluoranthene	14.46	252	2304767	4.97	ug/ml	99
23) Benzo[a]pyrene	15.11	252	2019572	5.42	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.06	276	2426262	5.89	ug/ml#	100
25) Dibenz[ah]anthracene	18.06	278	1922256	5.81	ug/ml	100
26) Benzo[ghi]perylene	18.96	276	1987341	5.47	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13001.D PAHLOW.M Tue May 22 07:51:18 2001 Page 1

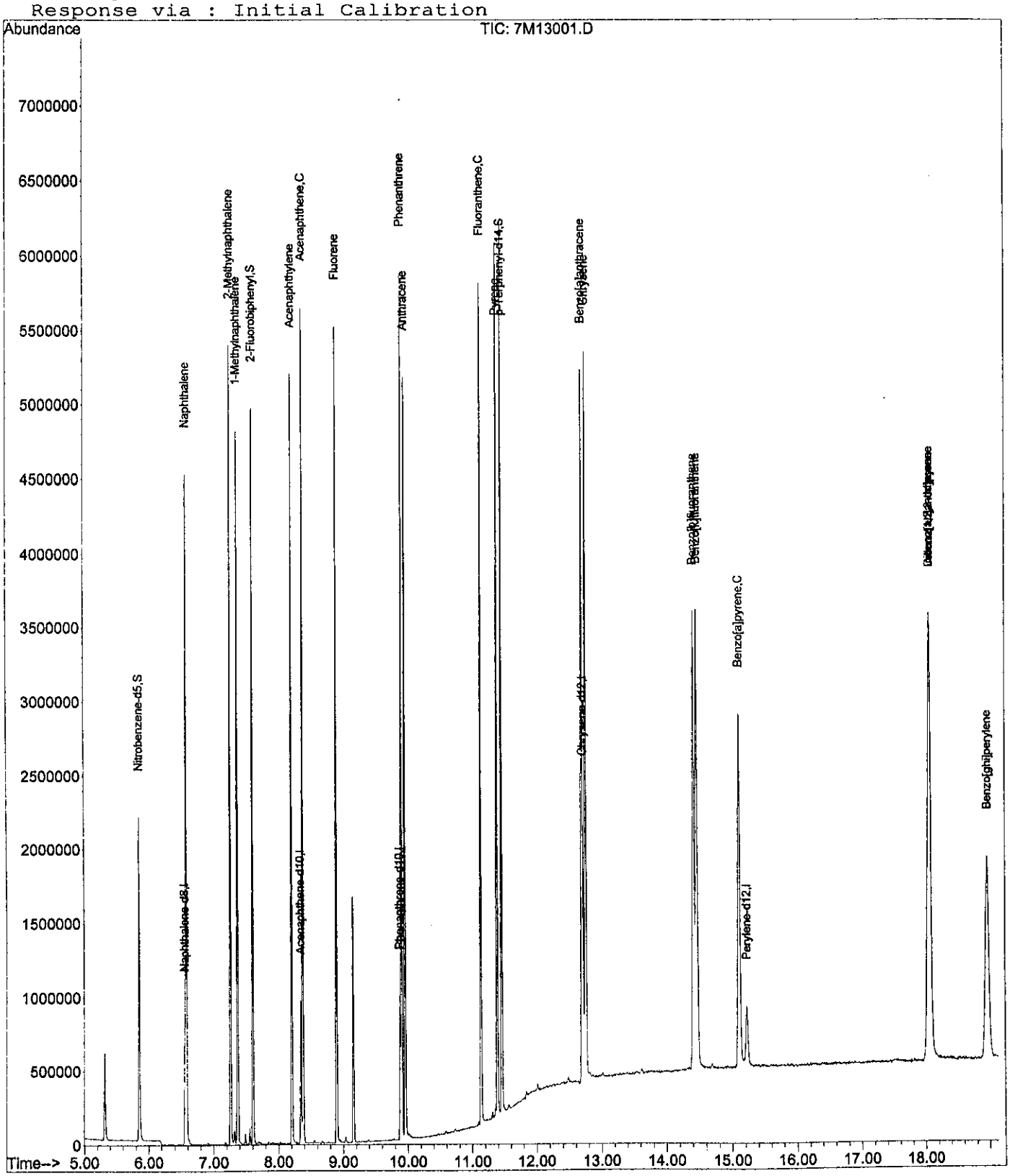
385

Acq On : 21 May 2001 19:08
Sample : 5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:27 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



Acq On : 21 May 2001 19:54
Sample : 0.5ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:04 2001

Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

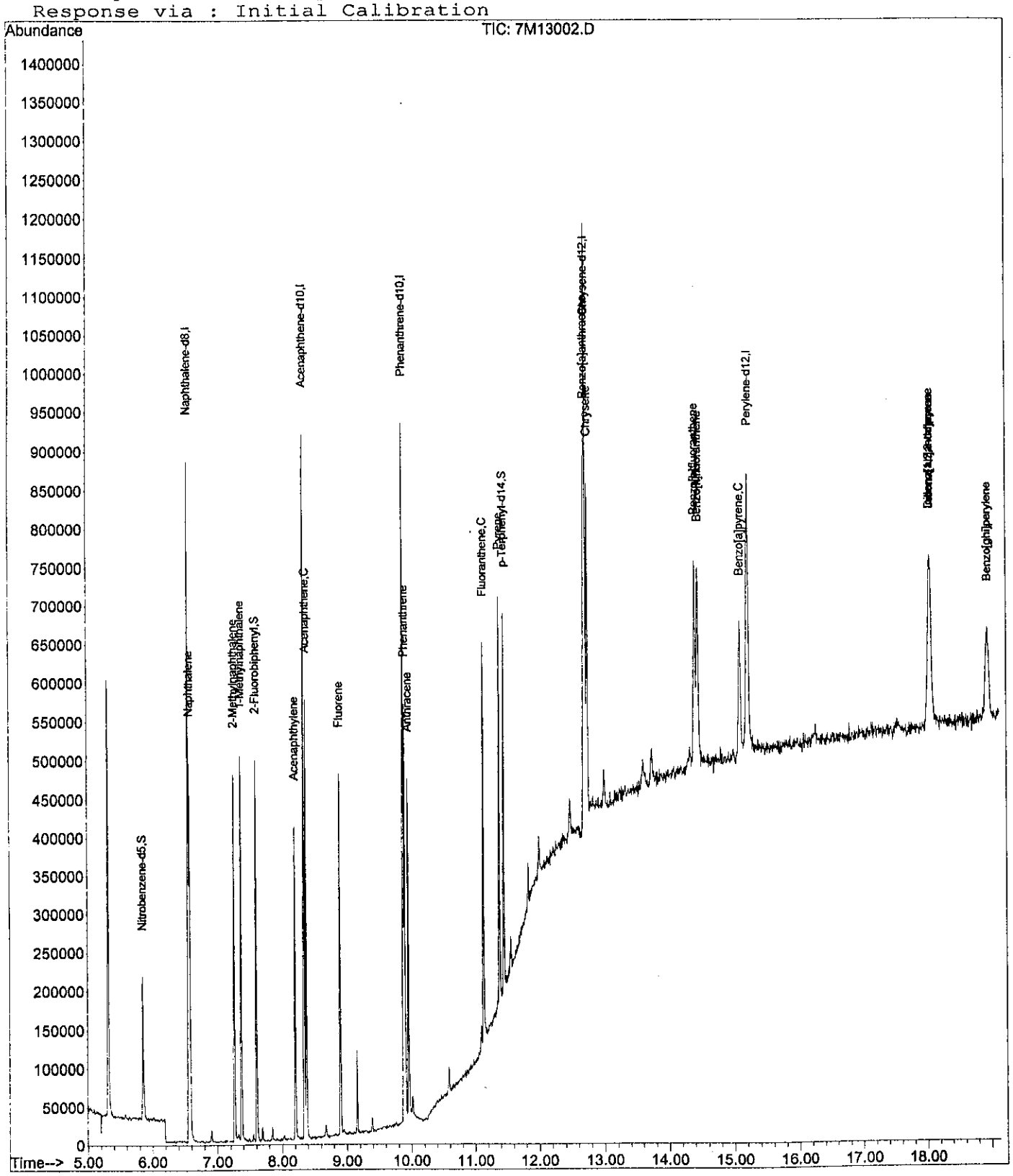
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:27:25 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	429669	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.35	164	224970	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	360831	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	320049	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	251014	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	56897	0.45	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	18.00%#		
7) 2-Fluorobiphenyl	7.60	172	160223	0.49	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	19.60%#		
17) p-Terphenyl-d14	11.46	244	168982	0.47	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	18.80%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	237256	0.48	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	150682	0.49	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	143427	0.46	ug/ml	99
8) Acenaphthylene	8.21	152	183941	0.46	ug/ml	100
9) Acenaphthene	8.38	154	134536	0.47	ug/ml	98
10) Fluorene	8.90	166	145766	0.47	ug/ml	98
12) Phenanthrene	9.90	178	220303	0.47	ug/ml	99
13) Anthracene	9.95	178	188581	0.46	ug/ml	99
14) Fluoranthene	11.13	202	230229	0.47	ug/ml	99
16) Pyrene	11.39	202	238415	0.47	ug/ml	99
18) Benzo[a]anthracene	12.69	228	191687	0.46	ug/ml	99
19) Chrysene	12.75	228	221900	0.49	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	201267	0.47	ug/ml	97
22) Benzo[k]fluoranthene	14.45	252	189553	0.46	ug/ml	98
23) Benzo[a]pyrene	15.10	252	149399	0.45	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.05	276	178428	0.48	ug/ml#	97
25) Dibenz[ah]anthracene	18.04	278	145073	0.49	ug/ml	98
26) Benzo[ghi]perylene	18.94	276	169661	0.52	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13002.D PAHLOW.M Tue May 22 07:51:21 2001

Sample : 0.5ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M13002.D PAHLOW.M Tue May 22 07:51:22 2001 Page 2

Acq On : 21 May 2001 20:01 Operator: mdc
Sample : 0.1ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:33 2001 Quant Results File: PAHLOW.RES

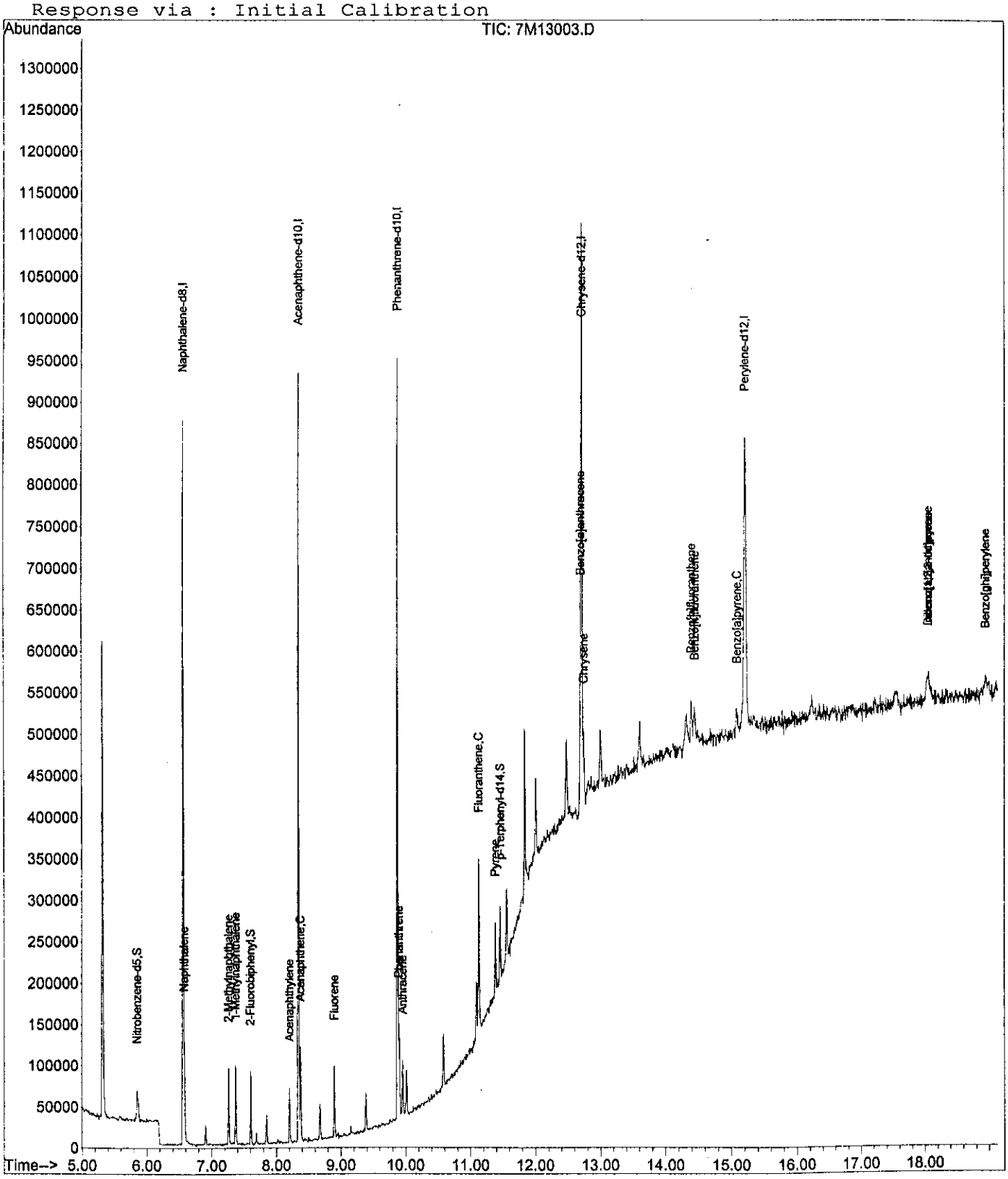
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:28:27 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	432011	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	225984	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	355476	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	309485	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	241352	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	9971	0.08	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	3.20%#		
7) 2-Fluorobiphenyl	7.60	172	30722	0.09	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	3.60%#		
17) p-Terphenyl-d14	11.46	244	30791	0.09	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	3.60%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	47508	0.10	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	28919	0.09	ug/ml	96
5) 1-Methylnaphthalene	7.37	142	28065	0.09	ug/ml	97
8) Acenaphthylene	8.21	152	29072	0.07	ug/ml	99
9) Acenaphthene	8.38	154	27135	0.09	ug/ml	99
10) Fluorene	8.90	166	26675	0.08	ug/ml	99
12) Phenanthrene	9.90	178	41697	0.09	ug/ml	96
13) Anthracene	9.95	178	32340	0.08	ug/ml	98
14) Fluoranthene	11.13	202	42511	0.09	ug/ml#	94
16) Pyrene	11.38	202	42643	0.09	ug/ml	97
18) Benzo[a]anthracene	12.69	228	32849	0.08	ug/ml	99
19) Chrysene	12.75	228	42247	0.10	ug/ml	95
21) Benzo[b]fluoranthene	14.40	252	34808	0.08	ug/ml#	89
22) Benzo[k]fluoranthene	14.46	252	33219	0.08	ug/ml#	92
23) Benzo[a]pyrene	15.10	252	25234	0.08	ug/ml#	90
24) Indeno[1,2,3-cd]pyrene	18.04	276	27058	0.08	ug/ml#	94
25) Dibenz[ah]anthracene	18.04	278	22245	0.08	ug/ml#	93
26) Benzo[ghi]perylene	18.94	276	29763	0.09	ug/ml	96

(#) = qualifier out of range (m) = manual integration
7M13003.D PAHLOW.M Tue May 22 07:51:24 2001 Page 1

Acq On : 21 May 2001 20:01 Operator: mdc
Sample : 0.1ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M13003.D PAHLOW.M Tue May 22 07:51:25 2001 Page 2

Acq On : 21 May 2001 20:27 Operator: mdc
Sample : 0.05ppm PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 07:28:57 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:28:50 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	425831	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	219617	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	344796	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	272350	1.00	ug/ml	0.00
20) Perylene-d12	15.22	264	207921	1.00	ug/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	5157	0.04	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	1.60%#		
7) 2-Fluorobiphenyl	7.60	172	18092	0.06	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	2.40%#		
17) p-Terphenyl-d14	11.45	244	16171	0.05	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	2.00%#		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	26812	0.06	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	15725	0.05	ug/ml	96
5) 1-Methylnaphthalene	7.37	142	16623	0.06	ug/ml	93
8) Acenaphthylene	8.20	152	16757	0.04	ug/ml#	93
9) Acenaphthene	8.38	154	15832	0.06	ug/ml	96
10) Fluorene	8.90	166	15877	0.05	ug/ml	92
12) Phenanthrene	9.90	178	25691	0.06	ug/ml	96
13) Anthracene	9.95	178	16820	0.04	ug/ml#	95
14) Fluoranthene	11.13	202	22001	0.05	ug/ml	99
16) Pyrene	11.39	202	23620	0.06	ug/ml	97
18) Benzo[a]anthracene	12.69	228	16893	0.05	ug/ml	98
19) Chrysene	12.75	228	21474	0.06	ug/ml	97
21) Benzo[b]fluoranthene	14.40	252	17956	0.05	ug/ml#	75
22) Benzo[k]fluoranthene	14.45	252	19045	0.06	ug/ml#	73
23) Benzo[a]pyrene	15.10	252	12945	0.05	ug/ml#	75
24) Indeno[1,2,3-cd]pyrene	18.04	276	11843	0.04	ug/ml#	100
25) Dibenz[ah]anthracene	18.05	278	10554	0.04	ug/ml#	64
26) Benzo[ghi]perylene	18.94	276	13025	0.05	ug/ml#	74

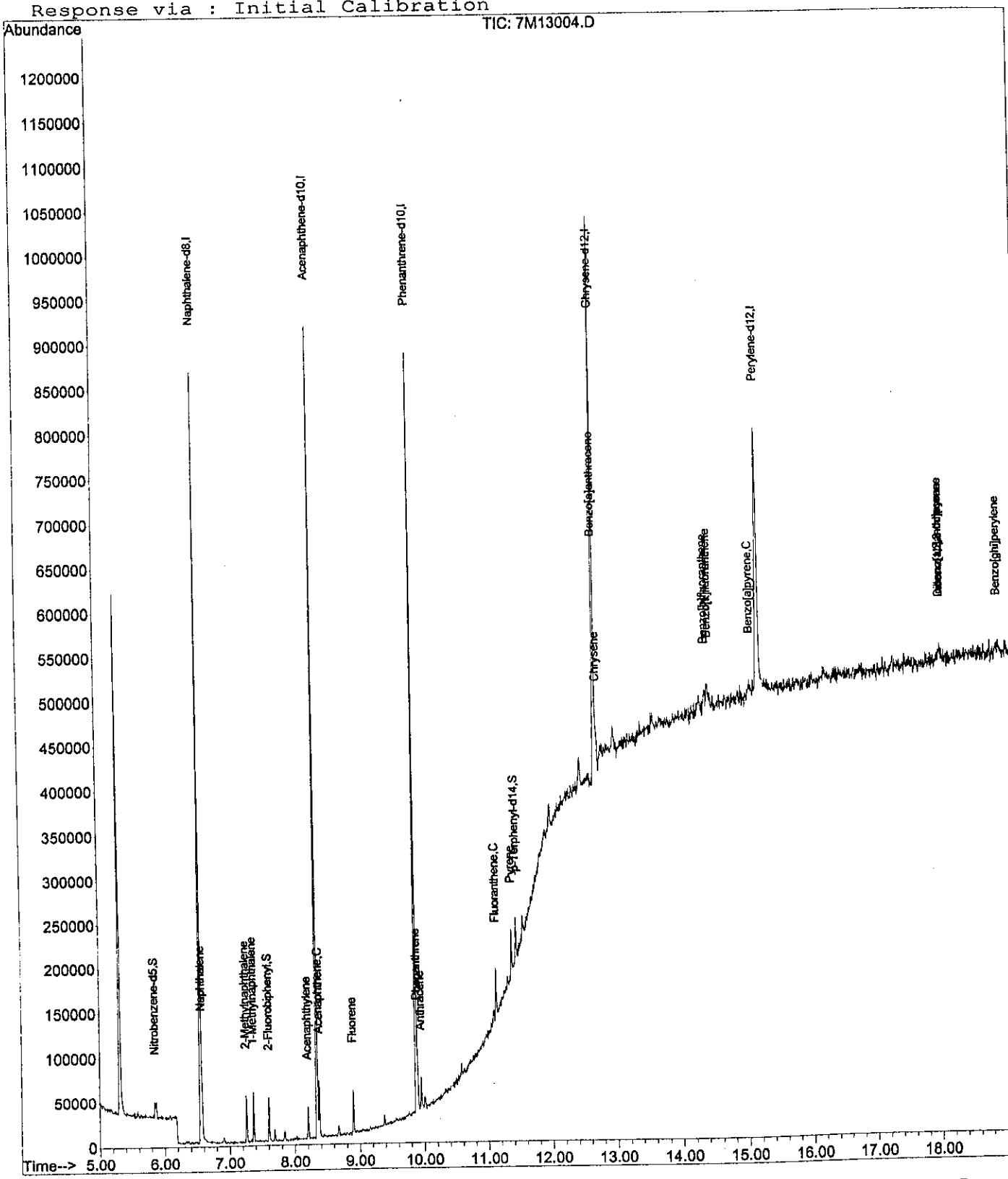
(#) = qualifier out of range (m) = manual integration
7M13004.D PAHLOW.M Tue May 22 07:51:27 2001 Page 1

Acq On : 21 May 2001 20:27
Sample : 0.05ppm PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 7:28 2001

Operator: mac
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration



7M13004.D PAHLOW.M Tue May 22 07:51:28 2001 Page 2

Acq On : 21 May 2001 20:54
Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:51:56 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
2	S	Nitrobenzene-d5	1.000	0.958	4.2	82	0.00
3		Naphthalene	1.000	0.918	8.2	89	0.00
4		2-Methylnaphthalene	1.000	0.958	4.2	92	0.00
5		1-Methylnaphthalene	1.000	0.981	1.9	97	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
7	S	2-Fluorobiphenyl	1.000	0.967	3.3	96	0.00
8		Acenaphthylene	1.000	0.858	14.2	84	0.00
9	C	Acenaphthene	1.000	0.933	6.7	93	0.00
10		Fluorene	1.000	0.939	6.1	91	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
12		Phenanthrene	1.000	0.902	9.8	90	0.00
13		Anthracene	1.000	0.968	3.2	89	0.00
14	C	Fluoranthene	1.000	0.939	6.1	89	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
16		Pyrene	1.000	0.933	6.7	90	0.00
17	S	p-Terphenyl-d14	1.000	0.937	6.3	91	0.00
18		Benzo[a]anthracene	1.000	0.913	8.7	86	0.00
19		Chrysene	1.000	0.906	9.4	90	0.00
20	I	Perylene-d12	1.000	1.000	0.0	93	-0.01
21		Benzo[b]fluoranthene	1.000	0.938	6.2	87	0.00
22		Benzo[k]fluoranthene	1.000	0.914	8.6	88	0.00
23	C	Benzo[a]pyrene	1.000	0.955	4.5	89	0.00
24		Indeno[1,2,3-cd]pyrene	1.000	0.884	11.6	83	-0.02
25		Dibenz[ah]anthracene	1.000	0.945	5.5	90	0.00
26		Benzo[ghi]perylene	1.000	0.959	4.1	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7M13005.D PAHLOW.M Tue May 22 07:52:53 2001 Page 1

Acq On : 21 May 2001 20:54
Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P

Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:51:56 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
2	S	Nitrobenzene-d5	0.283	0.272	3.9	82	0.00
3		Naphthalene	1.119	1.028	8.1	89	0.00
4		2-Methylnaphthalene	0.710	0.680	4.2	92	0.00
5		1-Methylnaphthalene	0.687	0.674	1.9	97	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
7	S	2-Fluorobiphenyl	1.471	1.422	3.3	96	0.00
8		Acenaphthylene	1.739	1.620	6.8	84	0.00
9	C	Acenaphthene	1.272	1.187	6.7	93	0.00
10		Fluorene	1.378	1.293	6.2	91	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
12		Phenanthrene	1.286	1.160	9.8	90	0.00
13		Anthracene	1.099	1.063	3.3	89	0.00
14	C	Fluoranthene	1.334	1.253	6.1	89	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
16		Pyrene	1.536	1.432	6.8	90	0.00
17	S	p-Terphenyl-d14	1.088	1.020	6.3	91	0.00
18		Benzo[a]anthracene	1.260	1.150	8.7	86	0.00
19		Chrysene	1.404	1.272	9.4	90	0.00
20	I	Perylene-d12	1.000	1.000	0.0	93	-0.01
21		Benzo[b]fluoranthene	1.667	1.564	6.2	87	0.00
22		Benzo[k]fluoranthene	1.621	1.481	8.6	88	0.00
23	C	Benzo[a]pyrene	1.304	1.245	4.5	89	0.00
24		Indeno[1,2,3-cd]pyrene	1.493	1.446	3.1	83	-0.02
25		Dibenz[ah]anthracene	1.217	1.246	-2.4	90	0.00
26		Benzo[ghi]perylene	1.368	1.311	4.2	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7M13005.D PAHLOW.M Tue May 22 07:52:59 2001 Page 1

Sample : 1ppm Alt source PAH STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 22 07:30:50 2001

Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

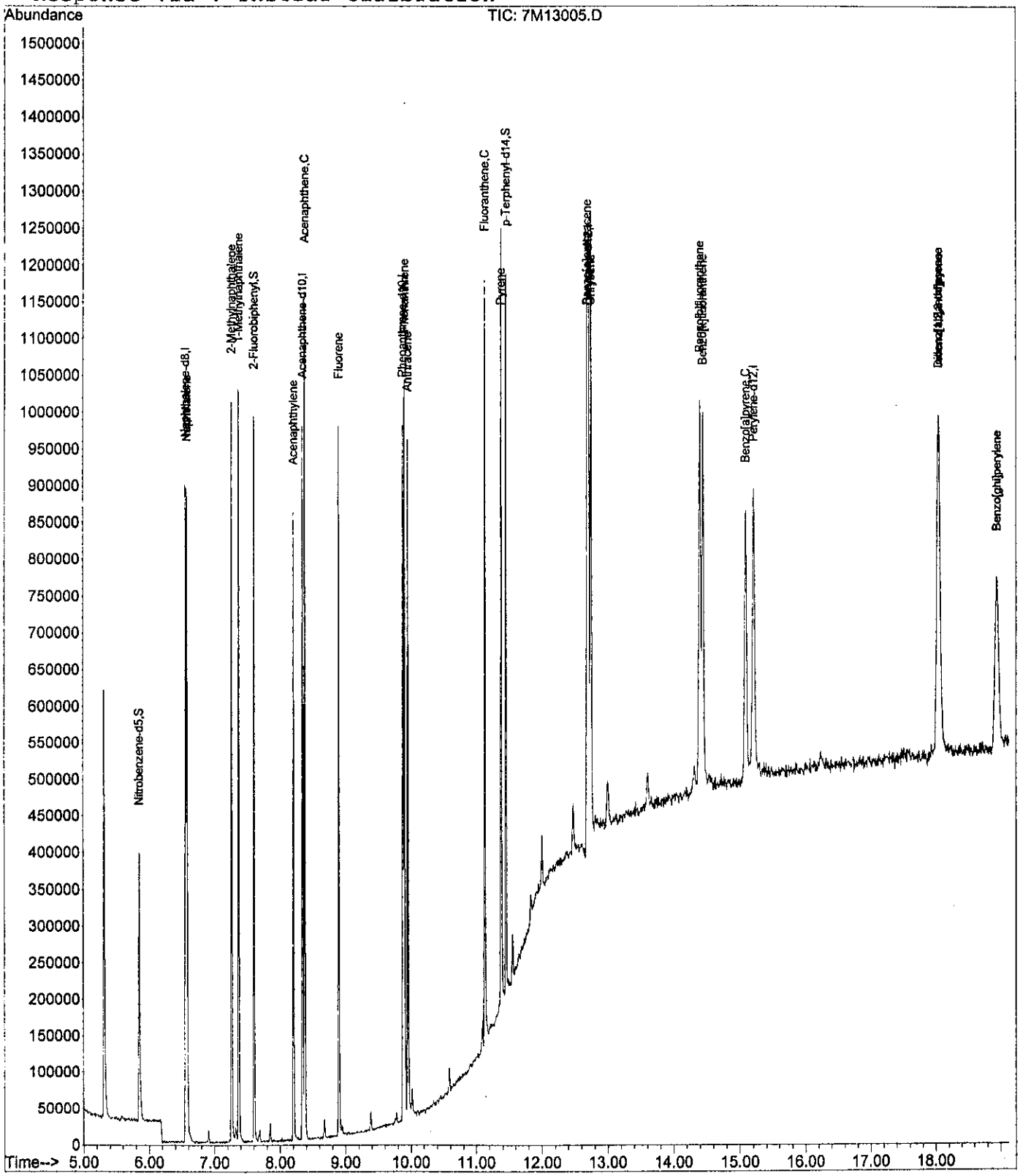
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:30:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	434266	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	228008	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	362733	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	334355	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	256418	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	117949	0.96	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery =	38.40%		
7) 2-Fluorobiphenyl	7.60	172	324126	0.97	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery =	38.80%#		
17) p-Terphenyl-d14	11.46	244	341003	0.94	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery =	37.60%		
Target Compounds						Qvalue
3) Naphthalene	6.58	128	446451	0.92	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	295384	0.96	ug/ml	97
5) 1-Methylnaphthalene	7.37	142	292480	0.98	ug/ml	99
8) Acenaphthylene	8.20	152	369402	0.86	ug/ml	100
9) Acenaphthene	8.38	154	270545	0.93	ug/ml	98
10) Fluorene	8.90	166	294888	0.94	ug/ml	97
12) Phenanthrene	9.90	178	420836	0.90	ug/ml	100
13) Anthracene	9.95	178	385586	0.97	ug/ml	99
14) Fluoranthene	11.13	202	454601	0.94	ug/ml	99
16) Pyrene	11.38	202	478920	0.93	ug/ml	100
18) Benzo[a]anthracene	12.69	228	384524	0.91	ug/ml	100
19) Chrysene	12.75	228	425188	0.91	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	401040	0.94	ug/ml	98
22) Benzo[k]fluoranthene	14.45	252	379778	0.91	ug/ml	99
23) Benzo[a]pyrene	15.10	252	319321	0.96	ug/ml	98
24) Indeno[1,2,3-cd]pyrene	18.03	276	370679	0.88	ug/ml#	98
25) Dibenz[ah]anthracene	18.05	278	319436	0.94	ug/ml	100
26) Benzo[ghi]perylene	18.95	276	336226	0.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13005.D PAHLOW.M Tue May 22 07:53:04 2001 Page 1

Sample : 1ppm Alt source PAH STD Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 7:30 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



Calibration Table Report
Method: BNA.M
Title: Method 8270/Initial calibration 05/22/01
Last Calibration: Tue May 22 16:41:14 2001
HPMS4
Calibration Files

	Compound	3 3M22910.D	20 3M22911.D	50 3M22909.D	80 3M22912.D	100 3M22913.D	120 3M22914.D	Avg.	%RSD	R^2 value
I	1,4-Dichlorobenzene-d4	ISTD								
	Pyridine	1.976	2.062	2.164	1.923	1.940	1.939	2.001	4.728	
	n-Nitrosodimethylamine	1.264	1.216	1.282	1.118	1.122	1.126	1.188	6.342	
S	2-Fluorophenol	2.026	1.971	1.979	1.817	1.855	1.846	1.916	4.528	
	Aniline	0.841	0.834	0.834	0.747	0.756	0.764	0.796	5.599	
S	Phenol-d5	2.343	2.364	2.405	2.181	2.223	2.242	2.293	3.918	
C	Phenol	2.373	2.401	2.468	2.223	2.255	2.260	2.330	4.200	
	bis(2-Chloroethyl)ether	1.161	0.999	1.103	0.878	0.885	0.895	0.987	12.363	
	2-Chlorophenol	1.757	1.726	1.718	1.587	1.626	1.610	1.671	4.269	
	1,3-Dichlorobenzene	1.832	1.754	1.689	1.556	1.553	1.543	1.655	7.399	
C	1,4-Dichlorobenzene	1.917	1.810	1.733	1.577	1.601	1.576	1.702	8.338	
	Benzyl Alcohol	1.119	1.160	1.213	1.138	1.146	1.160	1.156	2.754	
	1,2-Dichlorobenzene	1.778	1.651	1.612	1.480	1.493	1.482	1.583	7.609	
	2-Methylphenol	1.469	1.458	1.480	1.359	1.374	1.378	1.420	3.876	
	bis(2-Chloroisopropyl)ether	2.029	1.957	1.961	1.702	1.707	1.709	1.844	8.321	
	4-Methylphenol	2.147	2.160	2.203	2.025	2.058	2.047	2.107	3.453	
P	n-Nitrosodipropylamine	0.975	1.006	1.037	0.921	0.929	0.935	0.967	4.838	
	Hexachloroethane	0.972	0.957	0.941	0.860	0.875	0.864	0.912	5.561	
I	Naphthalene-d8	ISTD								
S	Nitrobenzene-d5	0.470	0.469	0.485	0.437	0.455	0.461	0.463	3.440	
	Nitrobenzene	0.459	0.447	0.468	0.417	0.428	0.433	0.442	4.430	
	Isophorone	0.941	0.890	0.893	0.803	0.824	0.827	0.863	6.162	
C	2-Nitrophenol	0.231	0.241	0.250	0.234	0.243	0.241	0.240	2.777	
	2,4-Dimethylphenol	0.420	0.425	0.416	0.382	0.392	0.390	0.404	4.490	
	bis(2-Chloroethoxy)methane	0.670	0.595	0.603	0.550	0.558	0.553	0.588	7.781	
	Benzoic Acid		0.215	0.267	0.256	0.273	0.275	0.257	9.641	
C	2,4-Dichlorophenol	0.340	0.334	0.329	0.306	0.315	0.310	0.323	4.381	
	1,2,4-Trichlorobenzene	0.358	0.337	0.324	0.301	0.307	0.305	0.322	6.921	
	Naphthalene	1.490	1.344	1.309	1.187	1.205	1.189	1.288	9.287	
	4-Chloroaniline	0.429	0.533	0.528	0.471	0.485	0.497	0.490	7.871	
C	Hexachlorobutadiene	0.157	0.150	0.139	0.133	0.136	0.134	0.142	6.858	
C	4-Chloro-3-Methylphenol	0.430	0.418	0.417	0.381	0.387	0.389	0.404	5.038	
	2-Methylnaphthalene	0.828	0.757	0.728	0.664	0.672	0.667	0.719	9.065	
I	Acenaphthene-d10	ISTD								
P	Hexachlorocyclopentadiene	0.104	0.201	0.236	0.236	0.252	0.258	0.214	26.949	LR=0.997
C	2,4,6-Trichlorophenol	0.311	0.349	0.343	0.323	0.339	0.333	0.333	4.159	
	2,4,5-Trichlorophenol	0.361	0.395	0.329	0.360	0.366	0.286	0.350	10.754	
S	2-Fluorobiphenyl	1.372	1.392	1.318	1.224	1.236	1.214	1.293	6.099	
	2-Chloronaphthalene	1.409	1.359	1.316	1.219	1.235	1.213	1.292	6.345	
	2-Nitroaniline	0.322	0.377	0.402	0.359	0.370	0.374	0.367	7.200	
	Dimethylphthalate	1.598	1.558	1.503	1.379	1.427	1.394	1.477	6.135	
	Acenaphthylene	2.128	2.119	2.062	1.889	1.910	1.878	1.998	5.913	
	2,6-Dinitrotoluene	0.302	0.363	0.386	0.364	0.369	0.369	0.359	8.040	
	3-Nitroaniline	0.379	0.442	0.433	0.404	0.413	0.405	0.413	5.453	
C	Acenaphthene	1.414	1.334	1.305	1.181	1.185	1.162	1.263	8.117	
P	2,4-Dinitrophenol		0.141	0.190	0.186	0.203	0.203	0.185	13.916	
P	4-Nitrophenol		0.249	0.264	0.244	0.254	0.255	0.253	3.016	

Calibration Table Report
Method: BNA.M
Title: Method 8270/Initial calibration 05/22/01
Last Calibration: Tue May 22 16:41:14 2001
HPMS4
Calibration Files

	Compound	3 3M22910.D	20 3M22911.D	50 3M22909.D	80 3M22912.D	100 3M22913.D	120 3M22914.D	Avg.	%RSD	R^2 value
	Dibenzofuran	1.943	1.823	1.758	1.616	1.628	1.598	1.727	8.003	
	2,4-Dinitrotoluene	0.404	0.483	0.500	0.463	0.471	0.473	0.466	7.088	
	Diethylphthalate	1.600	1.578	1.518	1.392	1.421	1.397	1.484	6.281	
	Fluorene	1.531	1.471	1.406	1.289	1.295	1.284	1.379	7.723	
	4-Chlorophenyl Phenyl Ether	0.560	0.555	0.527	0.492	0.501	0.493	0.521	5.920	
	4-Nitroaniline	0.393	0.468	0.443	0.411	0.416	0.409	0.423	6.458	
	1,2-Diphenylhydrazine	2.081	1.802	1.768	1.678	1.594	1.578	1.750	10.577	
S	2,4,6-Tribromophenol	0.129	0.149	0.144	0.146	0.152	0.156	0.146	6.441	
I	Phenanthrene-d10	ISTD								
	4,6-Dinitro-2-Methylphenol		0.168	0.190	0.183	0.191	0.189	0.184	5.212	
C	n-Nitrosodiphenylamine	0.783	0.759	0.741	0.669	0.684	0.666	0.717	7.021	
	4-Bromophenyl Phenyl Ether	0.234	0.222	0.220	0.205	0.208	0.204	0.215	5.466	
	Hexachlorobenzene	0.250	0.245	0.236	0.223	0.228	0.224	0.234	4.775	
C	Pentachlorophenol	0.089	0.145	0.157	0.154	0.162	0.161	0.145	19.175	LR=0.999
	Phenanthrene	1.522	1.452	1.384	1.259	1.271	1.244	1.355	8.518	
	Anthracene	1.496	1.445	1.402	1.269	1.288	1.262	1.360	7.402	
	Carbazole	1.580	1.526	1.369	1.202	1.173	1.139	1.332	14.238	
	Di-n-Butyl Phthalate	2.065	2.055	2.031	1.851	1.878	1.838	1.953	5.526	
C	Fluoranthene	1.388	1.351	1.306	1.193	1.208	1.193	1.273	6.785	
I	Chrysene-d12	ISTD								
	Benzidine	0.812	0.630	0.441	0.432	0.445	0.446	0.534	29.141	LR=0.995
	Pyrene	1.749	1.626	1.599	1.459	1.454	1.418	1.551	8.298	
S	p-Terphenyl-d14	1.030	1.004	0.990	0.909	0.909	0.888	0.955	6.254	
	Butyl Benzyl Phthalate	1.134	1.101	1.133	1.028	1.026	1.010	1.072	5.322	
	Benzo[a]anthracene	1.493	1.425	1.377	1.290	1.279	1.261	1.354	6.849	
	3,3'-Dichlorobenzidine	0.583	0.569	0.458	0.417	0.420	0.419	0.478	16.251	LR=0.997
	Chrysene	1.434	1.389	1.364	1.235	1.259	1.239	1.320	6.540	
	bis(2-Ethylhexyl)phthalate	1.382	1.446	1.491	1.348	1.359	1.339	1.394	4.382	
I	Perylene-d12	ISTD								
C	Di-n-Octyl Phthalate	1.880	2.105	2.144	1.928	1.973	1.933	1.994	5.328	
	Benzo[b]fluoranthene	1.258	1.233	1.318	1.134	1.150	1.121	1.202	6.577	
	Benzo[k]fluoranthene	1.237	1.273	1.119	1.127	1.131	1.127	1.169	5.803	
C	Benzo[a]pyrene	1.220	1.221	1.201	1.105	1.132	1.116	1.166	4.645	
	Indeno[1,2,3-cd]pyrene	1.276	1.279	1.275	1.182	1.212	1.213	1.240	3.410	
	Dibenz[ah]anthracene	0.791	0.789	0.781	0.723	0.742	0.741	0.761	3.815	
	Benzo[ghi]perylene	1.159	1.142	1.149	1.061	1.093	1.103	1.118	3.435	

Tue May 22 16:46:05 2001

Data File : C:\HPCHEM\1\DATA\052201\3M22909.D Vial: 2
Acq On : 22 May 2001 13:13 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 13:52 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.89	152	253217	40.00	ug/L	0.00
19) Naphthalene-d8	11.27	136	934868	40.00	ug/L	0.00
34) Acenaphthene-d10	13.11	164	474013	40.00	ug/L	0.00
56) Phenanthrene-d10	14.66	188	615150	40.00	ug/L	0.00
67) Chrysene-d12	17.60	240	512288	40.00	ug/L	0.00
76) Perylene-d12	20.38	264	646777	40.00	ug/L	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	8.37	112	626297	51.11	ug/L	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 51.11%			
6) Phenol-d5	9.46	99	761387	51.03	ug/L	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 51.03%			
20) Nitrobenzene-d5	10.50	82	566419	54.77	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 109.54%			
38) 2-Fluorobiphenyl	12.36	172	780888	50.88	ug/L	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 101.76%			
55) 2,4,6-Tribromophenol	13.93	330	85384	55.32	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 55.32%			
70) p-Terphenyl-d14	16.23	244	633727	47.31	ug/L	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 94.62%			
Target Compounds						Qvalue
2) Pyridine	5.89	79	685067	55.39	ug/L	97
3) n-Nitrosodimethylamine	5.87	74	405630	55.35	ug/L	98
5) Aniline	9.54	66	264044	77.83	ug/L	96
7) Phenol	9.47	94	781198	49.72	ug/L	99
8) bis(2-Chloroethyl)ether	9.58	63	349122	59.08	ug/L	94
9) 2-Chlorophenol	9.67	128	543796	49.60	ug/L	99
10) 1,3-Dichlorobenzene	9.84	146	534550	52.72	ug/L	99
11) 1,4-Dichlorobenzene	9.91	146	548380	52.40	ug/L	99
12) Benzyl Alcohol	10.02	108	383992	51.66	ug/L	99
13) 1,2-Dichlorobenzene	10.10	146	510385	52.09	ug/L	99
14) 2-Methylphenol	10.13	107	468564	52.27	ug/L	99
15) bis(2-Chloroisopropyl)ethe	10.15	45	620734	55.80	ug/L	97
16) 4-Methylphenol	10.27	107	697418	51.01	ug/L	100
17) n-Nitrosodipropylamine	10.29	70	328098	54.93	ug/L	98
18) Hexachloroethane	10.45	117	298000	54.26	ug/L	100
21) Nitrobenzene	10.53	77	546633	56.05	ug/L	98
22) Isophorone	10.75	82	1043719	57.54	ug/L	100
23) 2-Nitrophenol	10.86	139	291658	53.12	ug/L	98
24) 2,4-Dimethylphenol	10.84	122	486394	52.36	ug/L	98

(#) = qualifier out of range (m) = manual integration
3M22909.D BNA.M Tue May 22 13:52:31 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052201\3M22909.D Vial: 2
Acq On : 22 May 2001 13:13 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 13:52 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.94	93	704093	55.11	ug/L		100
26)	Benzoic Acid	10.91	122	311806	54.62	ug/L		98
27)	2,4-Dichlorophenol	11.10	162	384876	52.87	ug/L		98
28)	1,2,4-Trichlorobenzene	11.20	180	378170	53.88	ug/L		99
29)	Naphthalene	11.29	128	1530189	53.52	ug/L		100
30)	4-Chloroaniline	11.33	127	617167	61.02	ug/L		97
31)	Hexachlorobutadiene	11.38	225	162991	56.06	ug/L		98
32)	4-Chloro-3-Methylphenol	11.79	107	486847	52.64	ug/L		98
33)	2-Methylnaphthalene	12.00	142	850565	52.54	ug/L		99
35)	Hexachlorocyclopentadiene	12.16	237	139750	56.21	ug/L		99
36)	2,4,6-Trichlorophenol	12.28	196	203496	50.02	ug/L		99
37)	2,4,5-Trichlorophenol	12.33	196	195139	44.34	ug/L		97
39)	2-Chloronaphthalene	12.52	162	779720	51.61	ug/L		100
40)	2-Nitroaniline	12.62	65	238305	53.50	ug/L		99
41)	Dimethylphthalate	12.75	163	890536	52.52	ug/L		100
42)	Acenaphthylene	12.97	152	1222048	49.63	ug/L		100
43)	2,6-Dinitrotoluene	12.85	165	228450	56.44	ug/L		98
44)	3-Nitroaniline	13.05	138	256286	53.12	ug/L		99
45)	Acenaphthene	13.14	154	773136	52.75	ug/L		98
46)	2,4-Dinitrophenol	13.14	184	112874	66.96	ug/L	#	54
47)	4-Nitrophenol	13.16	65	156569	52.54	ug/L		96
48)	Dibenzofuran	13.31	168	1041421	50.47	ug/L		100
49)	2,4-Dinitrotoluene	13.28	165	296521	56.75	ug/L		98
50)	Diethylphthalate	13.44	149	899145	52.37	ug/L		99
51)	Fluorene	13.67	166	833228	51.56	ug/L		100
52)	4-Chlorophenyl Phenyl Ethe	13.62	204	312343	50.89	ug/L		99
53)	4-Nitroaniline	13.69	138	262341	52.15	ug/L		97
54)	1,2-Diphenylhydrazine	13.79	77	1047622	52.96	ug/L		99
57)	4,6-Dinitro-2-Methylphenol	13.69	198	146348	60.98	ug/L		97
58)	n-Nitrosodiphenylamine	13.74	169	569511	51.86	ug/L		100
59)	4-Bromophenyl Phenyl Ether	14.13	248	169182	55.79	ug/L		97
60)	Hexachlorobenzene	14.26	284	181529	56.83	ug/L		96
61)	Pentachlorophenol	14.45	266	120341	61.48	ug/L		99
62)	Phenanthrene	14.68	178	1063921	52.52	ug/L		100
63)	Anthracene	14.73	178	1077789	54.29	ug/L		99
64)	Carbazole	14.87	167	1052365	53.90	ug/L	#	100
65)	Di-n-Butyl Phthalate	15.09	149	1561724	54.79	ug/L		100
66)	Fluoranthene	15.92	202	1004239	54.11	ug/L		98
68)	Benzidine	16.00	184	282479	434.96	ug/L		99
69)	Pyrene	16.17	202	1024182	46.21	ug/L		99
71)	Butyl Benzyl Phthalate	16.68	149	725239	47.77	ug/L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22909.D Vial: 2
Acq On : 22 May 2001 13:13 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 13:52 2001 Quant Results File: BNA.RES

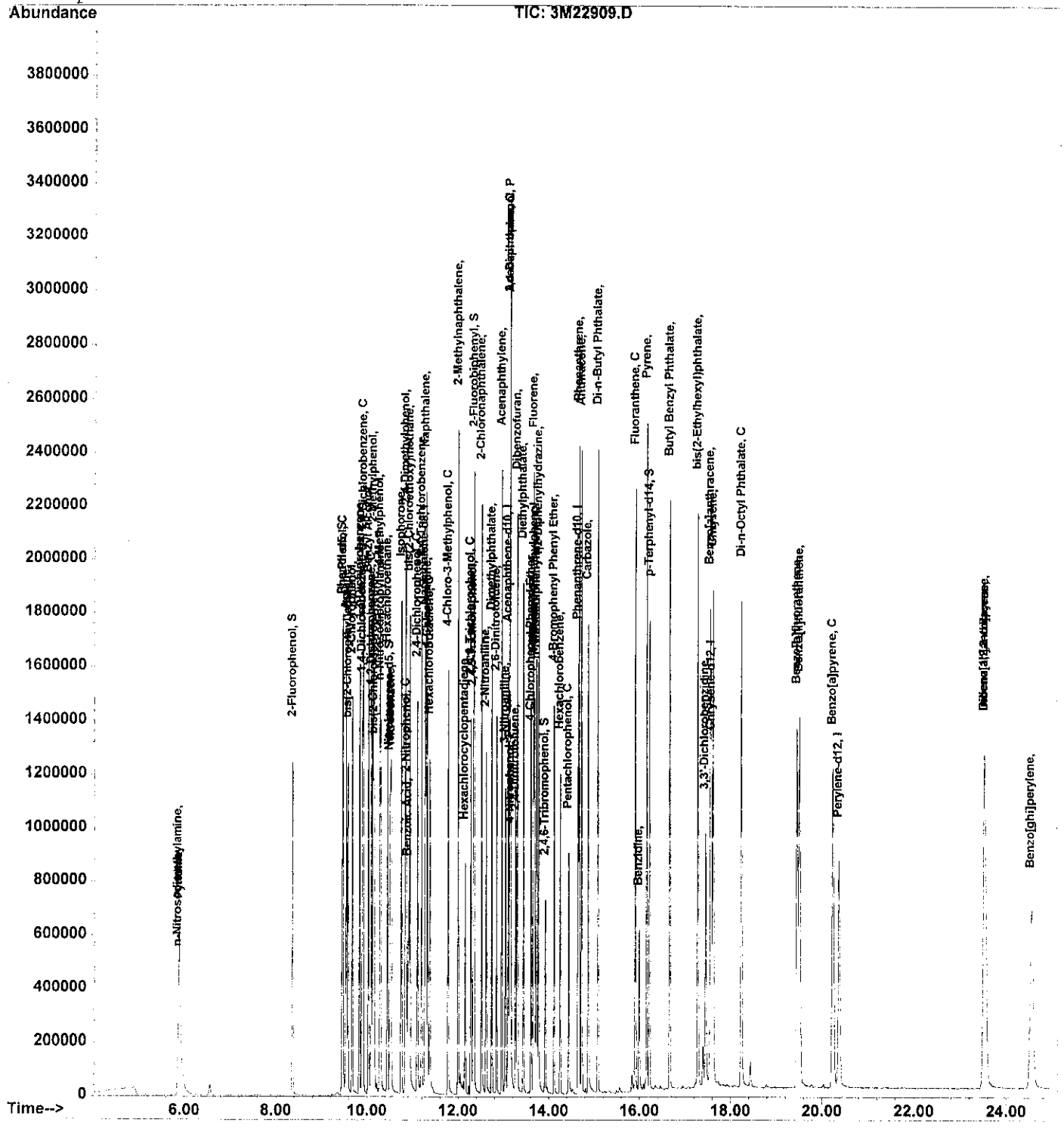
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	17.57	228	882095	50.60	ug/L	100
73)	3,3'-Dichlorobenzidine	17.46	252	293246	50.76	ug/L	98
74)	Chrysene	17.63	228	873286	51.92	ug/L	100
75)	bis(2-Ethylhexyl)phthalate	17.29	149	954861	47.91	ug/L	99
77)	Di-n-Octyl Phthalate	18.25	149	1733359	40.07	ug/L	98
78)	Benzo[b]fluoranthene	19.47	252	1065336	49.12	ug/L	96
79)	Benzo[k]fluoranthene	19.52	252	904458	43.17	ug/L	96
80)	Benzo[a]pyrene	20.25	252	970603	47.01	ug/L	97
81)	Indeno[1,2,3-cd]pyrene	23.55	276	1031055	38.55	ug/L	91
82)	Dibenz[ah]anthracene	23.55	278	631262	30.62	ug/L	96
83)	Benzo[ghi]perylene	24.57	276	929304	39.17	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22909.D Vial: 2
Acq On : 22 May 2001 13:13 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 13:52 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:45:40 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\3M22910.D Vial: 3
Acq On : 22 May 2001 13:52 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 14:17 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.89	152	256877	40.00	ug/L	0.00
19) Naphthalene-d8	11.27	136	915518	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	489554	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.64	188	646267	40.00	ug/L	-0.01
67) Chrysene-d12	17.59	240	536985	40.00	ug/L	-0.01
76) Perylene-d12	20.37	264	670090	40.00	ug/L	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	8.36	112	39036	3.14	ug/L	-0.01
Spiked Amount 100.000	Range 21 - 100		Recovery =	3.14%#		
6) Phenol-d5	9.44	99	45135	2.98	ug/L	-0.01
Spiked Amount 100.000	Range 10 - 94		Recovery =	2.98%#		
20) Nitrobenzene-d5	10.50	82	32239	3.18	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery =	6.36%#		
38) 2-Fluorobiphenyl	12.34	172	50384	3.18	ug/L	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery =	6.36%#		
55) 2,4,6-Tribromophenol	13.93	330	4725	2.96	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	2.96%#		
70) p-Terphenyl-d14	16.22	244	41481	2.95	ug/L	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery =	5.90%#		
Target Compounds						Qvalue
2) Pyridine	5.96	79	38074	3.03	ug/L	98
3) n-Nitrosodimethylamine	5.87	74	24358	3.28	ug/L #	95
5) Aniline	9.54	66	16202	4.71	ug/L	87
7) Phenol	9.46	94	45726	2.87	ug/L	98
8) bis(2-Chloroethyl)ether	9.57	63	22361	3.73	ug/L	81
9) 2-Chlorophenol	9.67	128	33856	3.04	ug/L	99
10) 1,3-Dichlorobenzene	9.83	146	35295	3.43	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	36939	3.48	ug/L	94
12) Benzyl Alcohol	10.02	108	21565	2.86	ug/L	99
13) 1,2-Dichlorobenzene	10.09	146	34263	3.45	ug/L	99
14) 2-Methylphenol	10.12	107	28304	3.11	ug/L	97
15) bis(2-Chloroisopropyl)ethe	10.14	45	39090	3.46	ug/L	98
16) 4-Methylphenol	10.27	107	41373	2.98	ug/L	100
17) n-Nitrosodipropylamine	10.29	70	18778	3.10	ug/L	97
18) Hexachloroethane	10.45	117	18725	3.36	ug/L	99
21) Nitrobenzene	10.52	77	31547	3.30	ug/L	96
22) Isophorone	10.75	82	64598	3.64	ug/L	100
23) 2-Nitrophenol	10.85	139	15848	2.95	ug/L	99
24) 2,4-Dimethylphenol	10.83	122	28821	3.17	ug/L	95

(#) = qualifier out of range (m) = manual integration
3M22910.D BNA.M Tue May 22 14:18:05 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052201\3M22910.D Vial: 3
Acq On : 22 May 2001 13:52 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 14:17 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	10.94	93	45974	3.67 ug/L	96
26) Benzoic Acid	10.89	122	8893	1.59 ug/L #	90
27) 2,4-Dichlorophenol	11.10	162	23379	3.28 ug/L	91
28) 1,2,4-Trichlorobenzene	11.19	180	24566	3.57 ug/L	100
29) Naphthalene	11.29	128	102342	3.66 ug/L	100
30) 4-Chloroaniline	11.33	127	29447	2.97 ug/L #	86
31) Hexachlorobutadiene	11.38	225	10755	3.78 ug/L	98
32) 4-Chloro-3-Methylphenol	11.79	107	29535	3.26 ug/L	96
33) 2-Methylnaphthalene	11.99	142	56861	3.59 ug/L	100
35) Hexachlorocyclopentadiene	12.16	237	3805	1.48 ug/L	91
36) 2,4,6-Trichlorophenol	12.28	196	11435	2.72 ug/L	99
37) 2,4,5-Trichlorophenol	12.33	196	13271	2.92 ug/L	97
39) 2-Chloronaphthalene	12.52	162	51716	3.31 ug/L	99
40) 2-Nitroaniline	12.62	65	11814	2.57 ug/L	99
41) Dimethylphthalate	12.74	163	58686	3.35 ug/L	99
42) Acenaphthylene	12.97	152	78135	3.07 ug/L	100
43) 2,6-Dinitrotoluene	12.85	165	11100	2.66 ug/L	94
44) 3-Nitroaniline	13.05	138	13914	2.79 ug/L	88
45) Acenaphthene	13.13	154	51916	3.43 ug/L	99
46) 2,4-Dinitrophenol	13.15	184	1145	0.66 ug/L #	1
47) 4-Nitrophenol	13.17	65	6122	1.99 ug/L	94
48) Dibenzofuran	13.31	168	71325	3.35 ug/L	100
49) 2,4-Dinitrotoluene	13.27	165	14820	2.75 ug/L	88
50) Diethylphthalate	13.44	149	58756	3.31 ug/L	96
51) Fluorene	13.66	166	56215	3.37 ug/L	99
52) 4-Chlorophenyl Phenyl Ethe	13.61	204	20565	3.24 ug/L	99
53) 4-Nitroaniline	13.69	138	14418	2.78 ug/L	92
54) 1,2-Diphenylhydrazine	13.77	77	76392	3.74 ug/L	94
57) 4,6-Dinitro-2-Methylphenol	13.69	198	3573	1.42 ug/L #	66
58) n-Nitrosodiphenylamine	13.73	169	37949	3.29 ug/L	95
59) 4-Bromophenyl Phenyl Ether	14.13	248	11343	3.56 ug/L	95
60) Hexachlorobenzene	14.25	284	12108	3.61 ug/L	96
61) Pentachlorophenol	14.45	266	4337	2.11 ug/L	98
62) Phenanthrene	14.68	178	73772	3.47 ug/L	99
63) Anthracene	14.73	178	72506	3.48 ug/L	99
64) Carbazole	14.87	167	76587	3.73 ug/L #	99
65) Di-n-Butyl Phthalate	15.09	149	100080	3.34 ug/L	100
66) Fluoranthene	15.91	202	67258	3.45 ug/L	98
68) Benzidine	16.00	184	32707	48.05 ug/L	99
69) Pyrene	16.17	202	70446	3.03 ug/L	98
71) Butyl Benzyl Phthalate	16.67	149	45670	2.87 ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22910.D Vial: 3
Acq On : 22 May 2001 13:52 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 14:17 2001 Quant Results File: BNA.RES

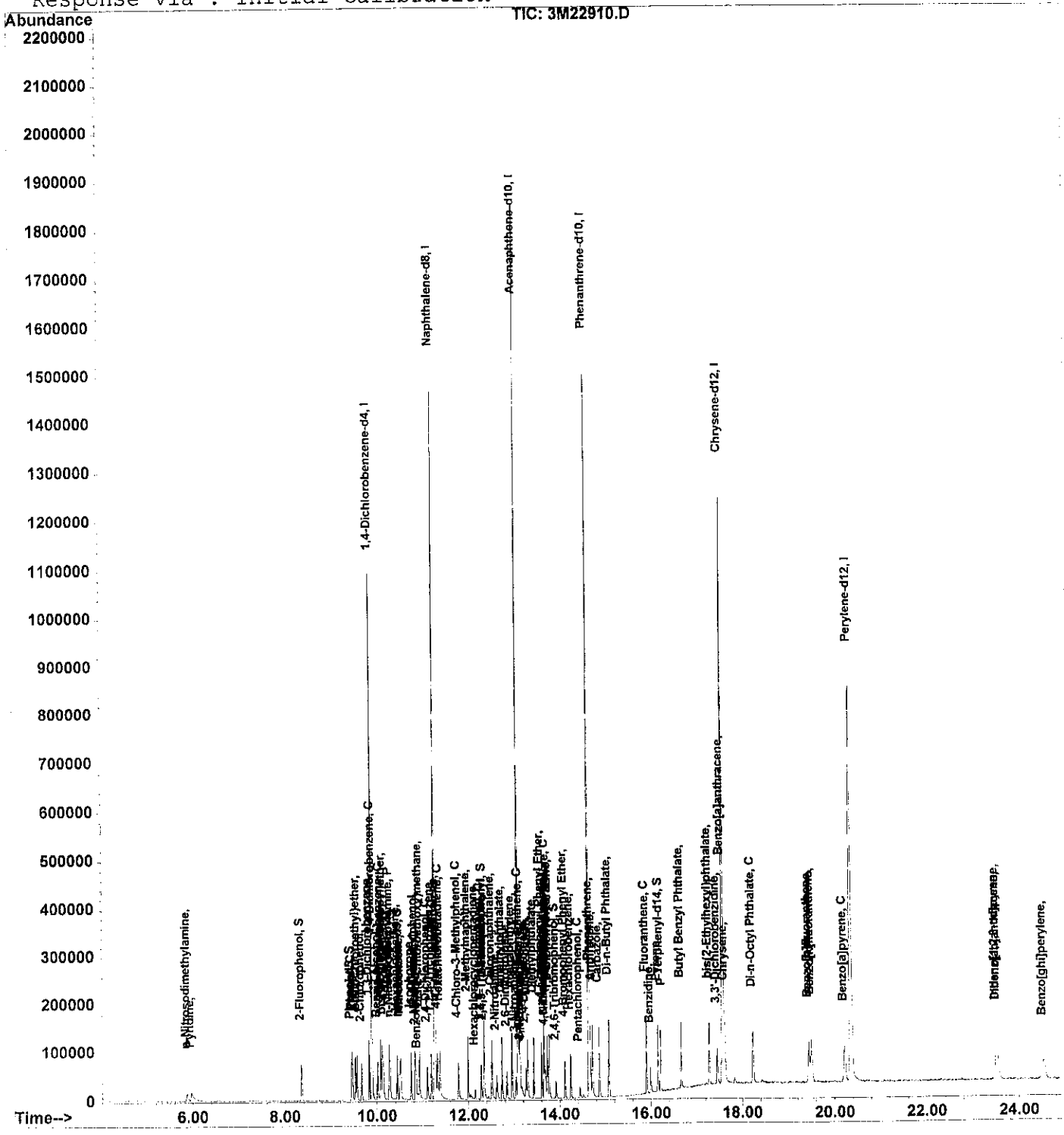
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
72)	Benzo[a]anthracene	17.57	228	60110	3.29	ug/L		99
73)	3,3'-Dichlorobenzidine	17.46	252	23468	3.88	ug/L		97
74)	Chrysene	17.63	228	57757	3.28	ug/L		100
75)	bis(2-Ethylhexyl)phthalate	17.29	149	55663	2.66	ug/L		99
77)	Di-n-Octyl Phthalate	18.24	149	94472	2.11	ug/L	#	98
78)	Benzo[b]fluoranthene	19.46	252	63202	2.81	ug/L		98
79)	Benzo[k]fluoranthene	19.51	252	62187	2.86	ug/L		100
80)	Benzo[a]pyrene	20.23	252	61335	2.87	ug/L		99
81)	Indeno[1,2,3-cd]pyrene	23.52	276	64144	2.31	ug/L		91
82)	Dibenz[ah]anthracene	23.53	278	39755	1.86	ug/L		95
83)	Benzo[ghi]perylene	24.54	276	58266	2.37	ug/L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22910.D Vial: 3
Acq On : 22 May 2001 13:52 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 14:17 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:45:40 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\3M22911.D Vial: 4
Acq On : 22 May 2001 14:28 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:22 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.89	152	254264	40.00	ug/L	0.00
19) Naphthalene-d8	11.26	136	936844	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	479117	40.00	ug/L	-0.02
56) Phenanthrene-d10	14.65	188	632468	40.00	ug/L	0.00
67) Chrysene-d12	17.58	240	549801	40.00	ug/L	-0.02
76) Perylene-d12	20.37	264	681499	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.35	112	250569	20.36	ug/L	-0.02
Spiked Amount 100.000	Range 21 - 100		Recovery = 20.36%#			
6) Phenol-d5	9.44	99	300510	20.06	ug/L	-0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 20.06%			
20) Nitrobenzene-d5	10.50	82	219757	21.21	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 42.42%			
38) 2-Fluorobiphenyl	12.35	172	333551	21.50	ug/L	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 43.00%			
55) 2,4,6-Tribromophenol	13.93	330	35643	22.85	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 22.85%			
70) p-Terphenyl-d14	16.21	244	275885	19.19	ug/L	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 38.38%			
Target Compounds						Qvalue
2) Pyridine	5.89	79	262206	21.11	ug/L	98
3) n-Nitrosodimethylamine	5.85	74	154611	21.01	ug/L #	99
5) Aniline	9.52	66	105966	31.11	ug/L	93
7) Phenol	9.46	94	305199	19.34	ug/L	99
8) bis(2-Chloroethyl)ether	9.56	63	127034	21.41	ug/L	95
9) 2-Chlorophenol	9.67	128	219451	19.94	ug/L	99
10) 1,3-Dichlorobenzene	9.82	146	222992	21.90	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	230066	21.89	ug/L	98
12) Benzyl Alcohol	10.02	108	147411	19.75	ug/L	99
13) 1,2-Dichlorobenzene	10.08	146	209950	21.34	ug/L	98
14) 2-Methylphenol	10.11	107	185380	20.59	ug/L	98
15) bis(2-Chloroisopropyl)ethe	10.13	45	248786	22.27	ug/L	98
16) 4-Methylphenol	10.27	107	274629	20.01	ug/L	99
17) n-Nitrosodipropylamine	10.29	70	127868	21.32	ug/L	99
18) Hexachloroethane	10.44	117	121709	22.07	ug/L	99
21) Nitrobenzene	10.52	77	209171	21.40	ug/L	99
22) Isophorone	10.75	82	416823	22.93	ug/L	99
23) 2-Nitrophenol	10.85	139	112849	20.51	ug/L	97
24) 2,4-Dimethylphenol	10.83	122	199148	21.39	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22911.D Vial: 4
Acq On : 22 May 2001 14:28 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:22 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.93	93	278538	21.76	ug/L		98
26)	Benzoic Acid	10.89	122	100623	17.59	ug/L		98
27)	2,4-Dichlorophenol	11.10	162	156612	21.47	ug/L		94
28)	1,2,4-Trichlorobenzene	11.19	180	158055	22.47	ug/L		100
29)	Naphthalene	11.28	128	629668	21.98	ug/L		100
30)	4-Chloroaniline	11.33	127	249560	24.62	ug/L		96
31)	Hexachlorobutadiene	11.38	225	70358	24.15	ug/L		99
32)	4-Chloro-3-Methylphenol	11.78	107	195613	21.11	ug/L		98
33)	2-Methylnaphthalene	12.00	142	354506	21.85	ug/L		100
35)	Hexachlorocyclopentadiene	12.15	237	48123	19.15	ug/L		99
36)	2,4,6-Trichlorophenol	12.28	196	83579	20.33	ug/L		99
37)	2,4,5-Trichlorophenol	12.33	196	94536m	21.25	ug/L		
39)	2-Chloronaphthalene	12.52	162	325667	21.33	ug/L		99
40)	2-Nitroaniline	12.62	65	90235	20.04	ug/L		97
41)	Dimethylphthalate	12.73	163	373297	21.78	ug/L		100
42)	Acenaphthylene	12.96	152	507573	20.40	ug/L		100
43)	2,6-Dinitrotoluene	12.85	165	87056	21.28	ug/L		99
44)	3-Nitroaniline	13.04	138	105965	21.73	ug/L		96
45)	Acenaphthene	13.14	154	319460	21.56	ug/L		99
46)	2,4-Dinitrophenol	13.14	184	33758	19.81	ug/L		87
47)	4-Nitrophenol	13.16	65	59722	19.83	ug/L		95
48)	Dibenzofuran	13.30	168	436727	20.94	ug/L		100
49)	2,4-Dinitrotoluene	13.26	165	115696	21.90	ug/L		92
50)	Diethylphthalate	13.44	149	378068	21.79	ug/L		99
51)	Fluorene	13.66	166	352488	21.58	ug/L		100
52)	4-Chlorophenyl Phenyl Ethe	13.60	204	132993	21.44	ug/L		100
53)	4-Nitroaniline	13.68	138	112143	22.05	ug/L		96
54)	1,2-Diphenylhydrazine	13.77	77	431736	21.59	ug/L		99
57)	4,6-Dinitro-2-Methylphenol	13.69	198	53169	21.55	ug/L		97
58)	n-Nitrosodiphenylamine	13.73	169	239911	21.25	ug/L		96
59)	4-Bromophenyl Phenyl Ether	14.12	248	70092	22.48	ug/L		97
60)	Hexachlorobenzene	14.25	284	77328	23.55	ug/L		94
61)	Pentachlorophenol	14.44	266	45900	22.81	ug/L		99
62)	Phenanthrene	14.67	178	459044	22.04	ug/L		99
63)	Anthracene	14.72	178	456965	22.39	ug/L		99
64)	Carbazole	14.87	167	482681	24.04	ug/L	#	99
65)	Di-n-Butyl Phthalate	15.09	149	650002	22.18	ug/L		99
66)	Fluoranthene	15.90	202	427279	22.39	ug/L		98
68)	Benzidine	16.00	184	173260	248.58	ug/L		99
69)	Pyrene	16.16	202	446977	18.79	ug/L		100
71)	Butyl Benzyl Phthalate	16.67	149	302701	18.58	ug/L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22911.D Vial: 4
Acq On : 22 May 2001 14:28 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:22 2001 Quant Results File: BNA.RES

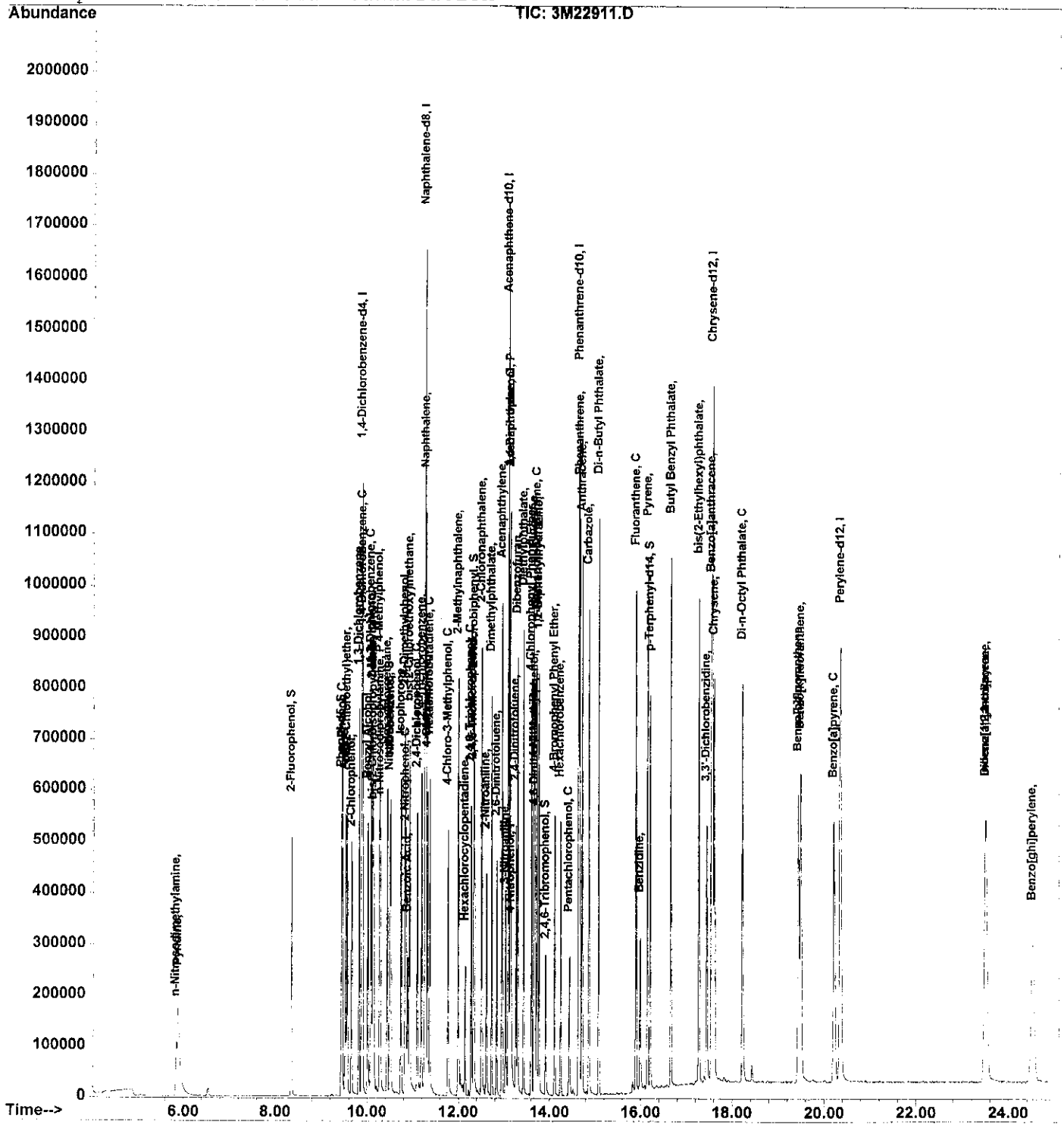
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	17.56	228	391662	20.93	ug/L	100
73)	3,3'-Dichlorobenzidine	17.46	252	156485	25.24	ug/L	98
74)	Chrysene	17.62	228	381707	21.15	ug/L	99
75)	bis(2-Ethylhexyl)phthalate	17.28	149	397641	18.59	ug/L	100
77)	Di-n-Octyl Phthalate	18.23	149	717248	15.74	ug/L	99
78)	Benzo[b]fluoranthene	19.46	252	420133	18.39	ug/L	100
79)	Benzo[k]fluoranthene	19.51	252	433891	19.65	ug/L	96
80)	Benzo[a]pyrene	20.23	252	416013	19.12	ug/L	96
81)	Indeno[1,2,3-cd]pyrene	23.52	276	435832	15.46	ug/L	90
82)	Dibenz[ah]anthracene	23.52	278	268752	12.37	ug/L	94
83)	Benzo[ghi]perylene	24.53	276	389084	15.57	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22911.D Vial: 4
Acq On : 22 May 2001 14:28 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:22 2001 Quant Results File: BNA.RES

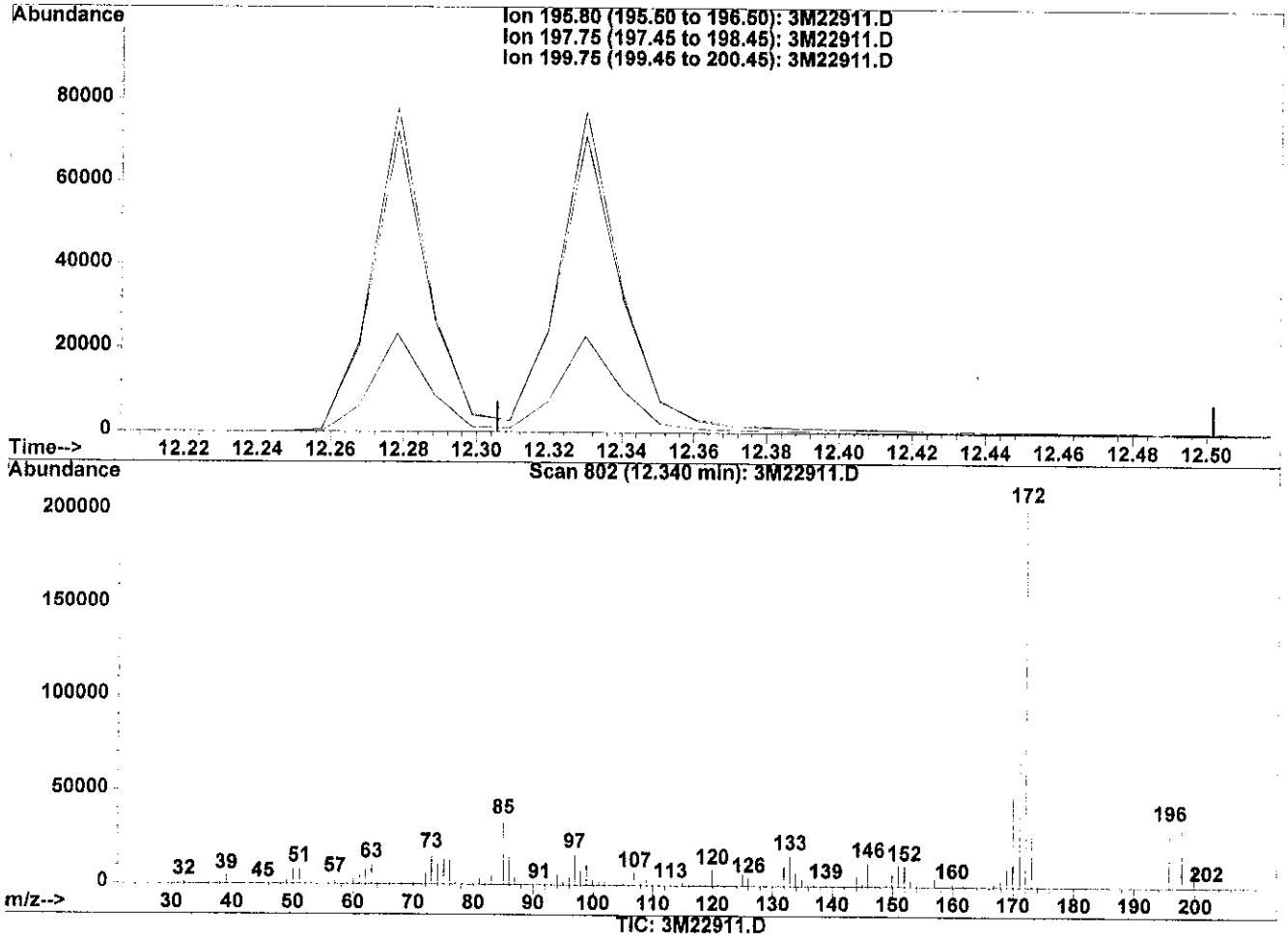
Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\3M22911.D
Acq On : 22 May 2001 14:28
Sample : 20PPM BNA STD
Misc : WATER,1
Quant Time: May 22 14:53 2001

Vial: 4
Operator: CLK
Inst : HPMS3
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:45:40 2001
Response via : Multiple Level Calibration



(37) 2,4,5-Trichlorophenol

12.34min 0.00ug/L

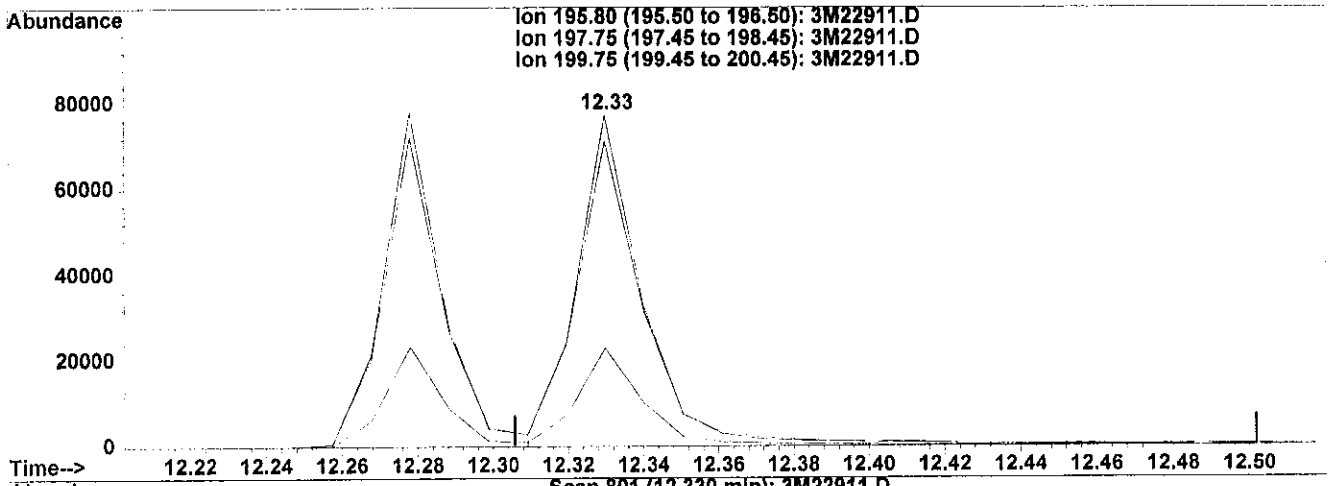
response 0

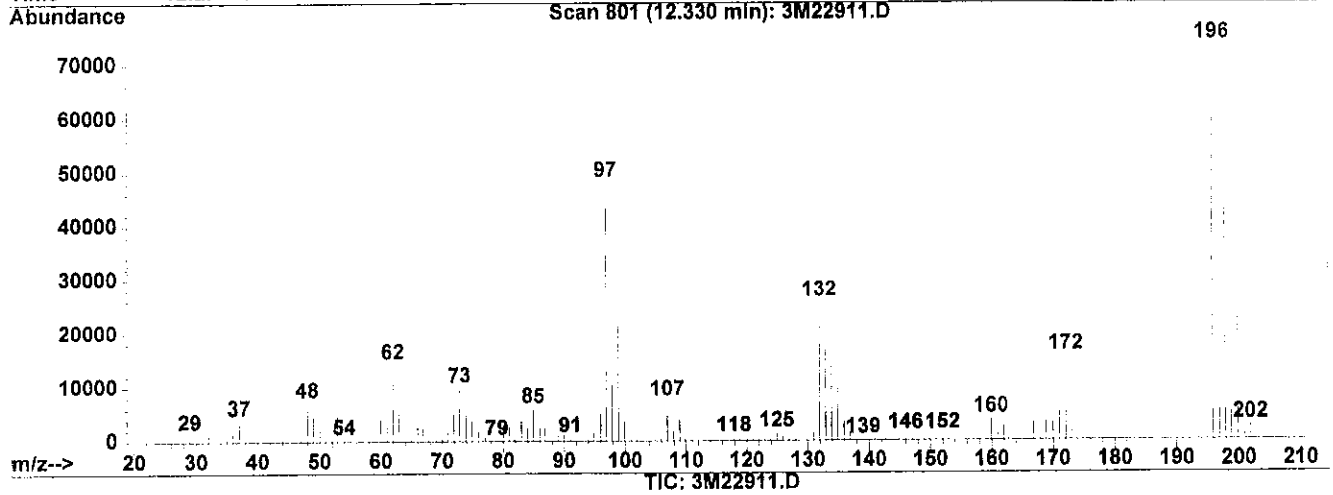
Ion	Exp%	Act%
195.80	100	0.00
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

3M22911.D BNA.M Tue May 22 16:22:13 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052201\3M22911.D Vial: 4
Acq On : 22 May 2001 14:28 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:22 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:45:40 2001
Response via : Multiple Level Calibration





TIC: 3M22911.D

(37) 2,4,5-Trichlorophenol

12.33min 21.25ug/L m

response 94536

Ion	Exp%	Act%
195.80	100	100
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

CLK 5/22/01
mle 5/23/01

3M22911.D BNA.M Tue May 22 16:22:20 2001 HPMS3

412

Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:23 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.88	152	249814	40.00	ug/L	-0.01
19) Naphthalene-d8	11.26	136	933656	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	473275	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.64	188	628257	40.00	ug/L	-0.01
67) Chrysene-d12	17.58	240	530269	40.00	ug/L	-0.01
76) Perylene-d12	20.36	264	680714	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.35	112	907641	75.08	ug/L	-0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 75.08%			
6) Phenol-d5	9.44	99	1089448	74.01	ug/L	-0.01
Spiked Amount 100.000	Range 10 - 94		Recovery = 74.01%			
20) Nitrobenzene-d5	10.50	82	816878	79.09	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 158.18%#			
38) 2-Fluorobiphenyl	12.34	172	1158533	75.60	ug/L	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 151.20%#			
55) 2,4,6-Tribromophenol	13.92	330	137778	89.40	ug/L	-0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 89.40%			
70) p-Terphenyl-d14	16.22	244	964452	69.55	ug/L	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 139.10%			
Target Compounds						Qvalue
2) Pyridine	5.86	79	960802	78.74	ug/L	99
3) n-Nitrosodimethylamine	5.85	74	558589	77.26	ug/L	97
5) Aniline	9.52	66	373013	111.45	ug/L	97
7) Phenol	9.46	94	1110682	71.65	ug/L	100
8) bis(2-Chloroethyl)ether	9.57	63	438653	75.24	ug/L	88
9) 2-Chlorophenol	9.66	128	793151	73.33	ug/L	99
10) 1,3-Dichlorobenzene	9.82	146	777411	77.71	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	787712	76.29	ug/L	99
12) Benzyl Alcohol	10.01	108	568397	77.51	ug/L	99
13) 1,2-Dichlorobenzene	10.08	146	739597	76.52	ug/L	100
14) 2-Methylphenol	10.11	107	678928	76.76	ug/L	98
15) bis(2-Chloroisopropyl)ethe	10.13	45	850512	77.50	ug/L	100
16) 4-Methylphenol	10.27	107	1011705	75.01	ug/L	100
17) n-Nitrosodipropylamine	10.29	70	460188	78.10	ug/L	99
18) Hexachloroethane	10.44	117	429772	79.31	ug/L	97
21) Nitrobenzene	10.52	77	778413	79.92	ug/L	100
22) Isophorone	10.75	82	1498697	82.73	ug/L	100
23) 2-Nitrophenol	10.85	139	436882	79.67	ug/L	97
24) 2,4-Dimethylphenol	10.83	122	714234	76.99	ug/L	98

(#) = qualifier out of range (m) = manual integration
3M22912.D BNA.M Tue May 22 16:23:44 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:23 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25) bis(2-Chloroethoxy)methane	10.93	93	1026202	80.43	ug/L		100
26) Benzoic Acid	10.91	122	477626	83.78	ug/L		98
27) 2,4-Dichlorophenol	11.10	162	571132	78.55	ug/L		98
28) 1,2,4-Trichlorobenzene	11.18	180	561547	80.11	ug/L		100
29) Naphthalene	11.28	128	2216514	77.62	ug/L		98
30) 4-Chloroaniline	11.33	127	879880	87.11	ug/L		97
31) Hexachlorobutadiene	11.38	225	248462	85.57	ug/L		99
32) 4-Chloro-3-Methylphenol	11.77	107	710630	76.94	ug/L		99
33) 2-Methylnaphthalene	11.99	142	1240241	76.71	ug/L		99
35) Hexachlorocyclopentadiene	12.14	237	223090	89.88	ug/L		98
36) 2,4,6-Trichlorophenol	12.28	196	305963	75.33	ug/L		99
37) 2,4,5-Trichlorophenol	12.33	196	340868m	77.58	ug/L		
39) 2-Chloronaphthalene	12.52	162	1153579	76.48	ug/L		100
40) 2-Nitroaniline	12.62	65	339985	76.44	ug/L		97
41) Dimethylphthalate	12.73	163	1305314	77.10	ug/L		99
42) Acenaphthylene	12.96	152	1787714	72.72	ug/L		100
43) 2,6-Dinitrotoluene	12.85	165	344699	85.30	ug/L		96
44) 3-Nitroaniline	13.04	138	382860	79.48	ug/L		99
45) Acenaphthene	13.14	154	1118001	76.40	ug/L		98
46) 2,4-Dinitrophenol	13.14	184	176524	104.88	ug/L	#	42
47) 4-Nitrophenol	13.15	65	230562	77.49	ug/L		96
48) Dibenzofuran	13.30	168	1529707	74.26	ug/L		100
49) 2,4-Dinitrotoluene	13.26	165	438529	84.05	ug/L		93
50) Diethylphthalate	13.44	149	1317726	76.88	ug/L		99
51) Fluorene	13.66	166	1219730	75.59	ug/L		99
52) 4-Chlorophenyl Phenyl Ethe	13.60	204	465693	75.99	ug/L		100
53) 4-Nitroaniline	13.68	138	388785	77.40	ug/L		93
54) 1,2-Diphenylhydrazine	13.77	77	1588459	80.42	ug/L		97
57) 4,6-Dinitro-2-Methylphenol	13.69	198	229393	93.59	ug/L		94
58) n-Nitrosodiphenylamine	13.73	169	840031	74.90	ug/L		95
59) 4-Bromophenyl Phenyl Ether	14.12	248	257788	83.23	ug/L		96
60) Hexachlorobenzene	14.25	284	279884	85.80	ug/L		93
61) Pentachlorophenol	14.43	266	193403	96.75	ug/L		99
62) Phenanthrene	14.67	178	1581683	76.45	ug/L		99
63) Anthracene	14.72	178	1594029	78.61	ug/L		99
64) Carbazole	14.87	167	1510653	75.75	ug/L	#	99
65) Di-n-Butyl Phthalate	15.09	149	2325775	79.90	ug/L		100
66) Fluoranthene	15.90	202	1499452	79.11	ug/L		96
68) Benzidine	15.99	184	458547	682.12	ug/L		99
69) Pyrene	16.16	202	1547345	67.45	ug/L		100
71) Butyl Benzyl Phthalate	16.67	149	1090185	69.37	ug/L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:23 2001 Quant Results File: BNA.RES

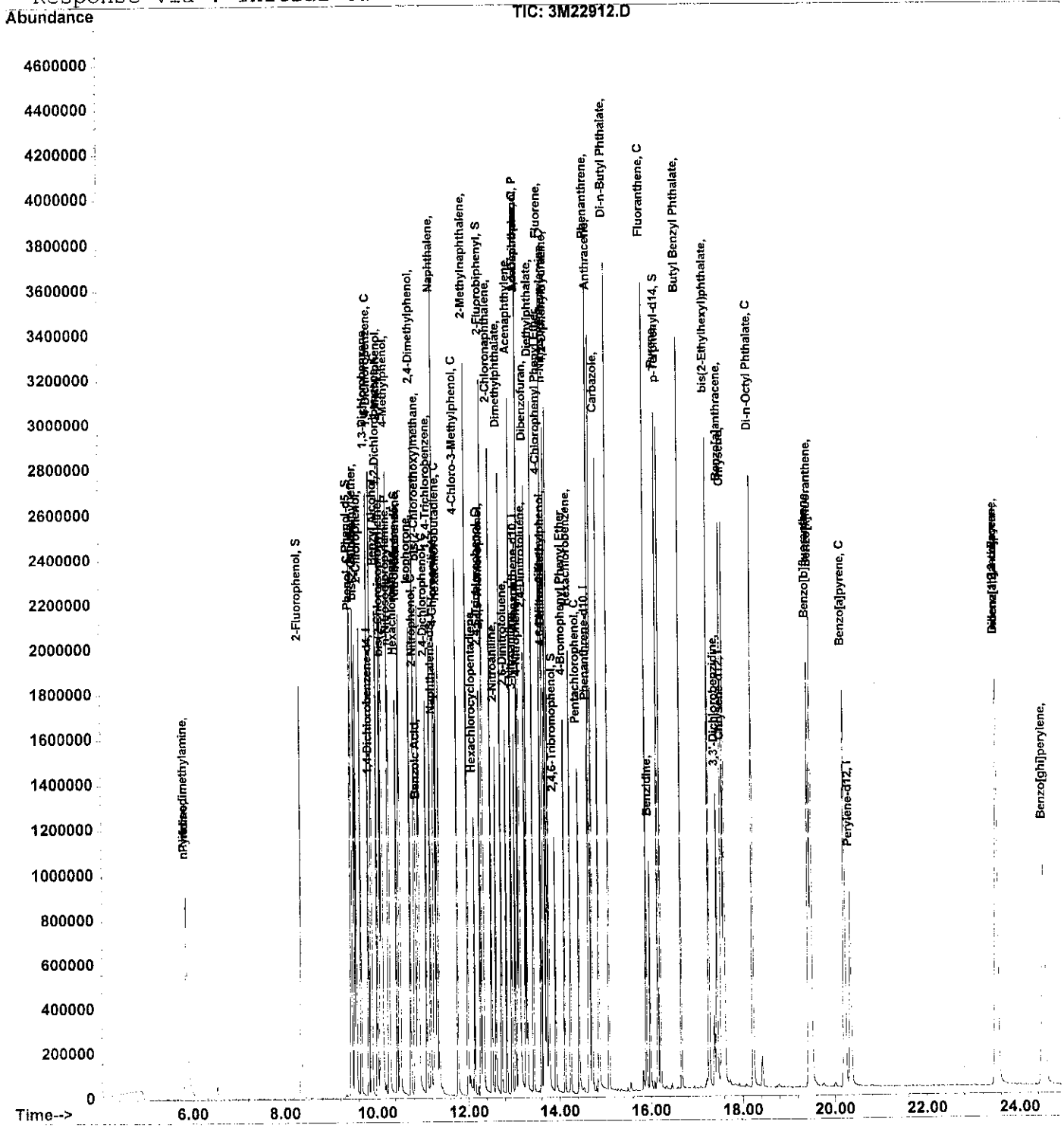
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72) Benzo[a]anthracene	17.56	228	1367816	75.80 ug/L	100
73) 3,3'-Dichlorobenzidine	17.46	252	442527	74.00 ug/L	97
74) Chrysene	17.62	228	1309396	75.21 ug/L	99
75) bis(2-Ethylhexyl)phthalate	17.28	149	1430091	69.32 ug/L	99
77) Di-n-Octyl Phthalate	18.24	149	2624593	57.65 ug/L	98
78) Benzo[b]fluoranthene	19.46	252	1544349	67.66 ug/L	99
79) Benzo[k]fluoranthene	19.51	252	1534720	69.60 ug/L	97
80) Benzo[a]pyrene	20.22	252	1503705	69.19 ug/L	96
81) Indeno[1,2,3-cd]pyrene	23.53	276	1609742	57.18 ug/L	89
82) Dibenz[ah]anthracene	23.53	278	984917	45.39 ug/L	93
83) Benzo[ghi]perylene	24.54	276	1444276	57.85 ug/L	97

(#) = qualifier out of range (m) = manual integration
3M22912.D BNA.M Tue May 22 16:23:48 2001 HPMS3 Page 3

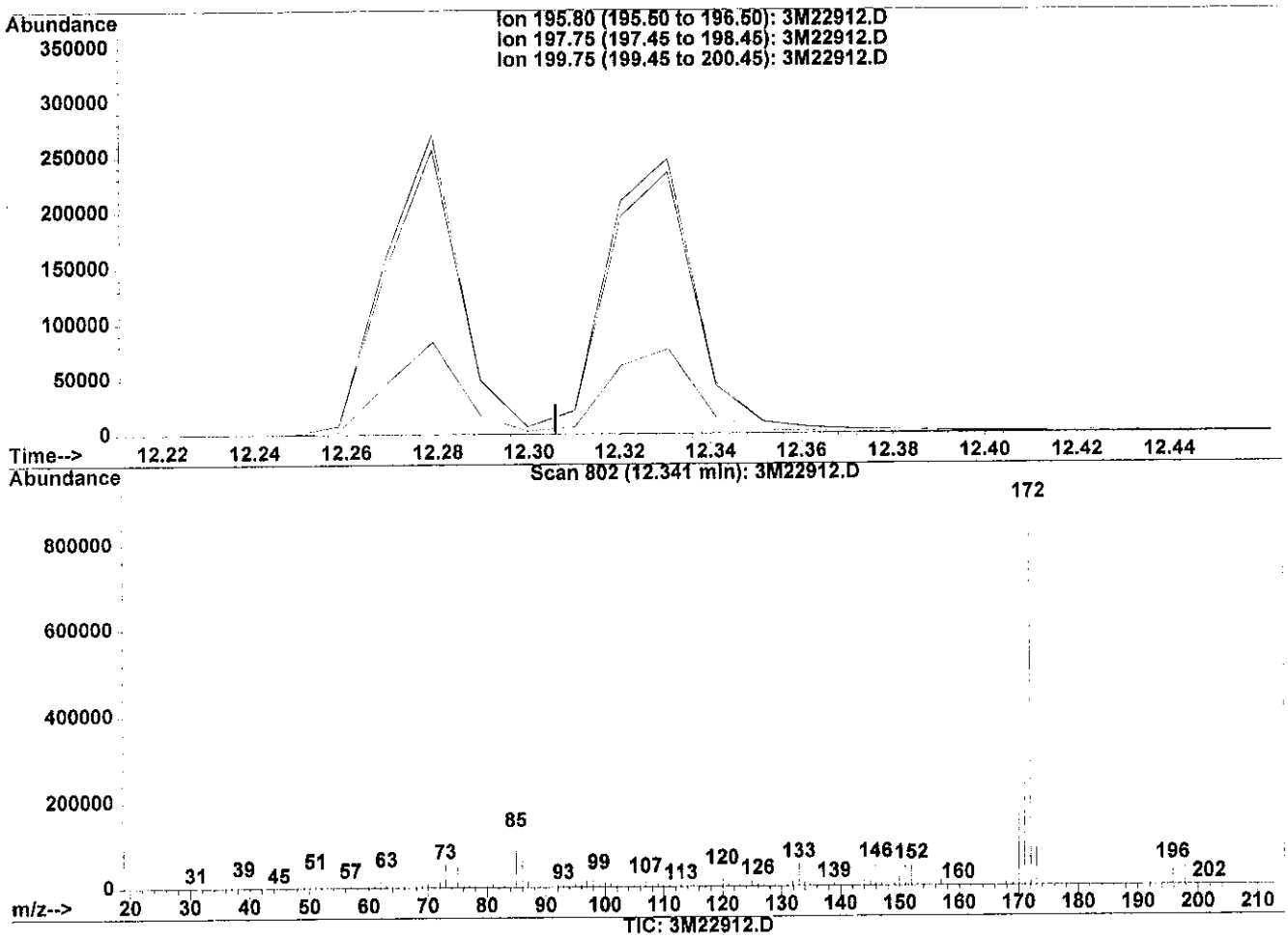
Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:23 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 15:28 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration



(37) 2,4,5-Trichlorophenol

12.34min 0.00ug/L

response 0

Ion	Exp%	Act%
195.80	100	0.00
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

3M22912.D BNA.M Tue May 22 16:23:28 2001 HPMS3

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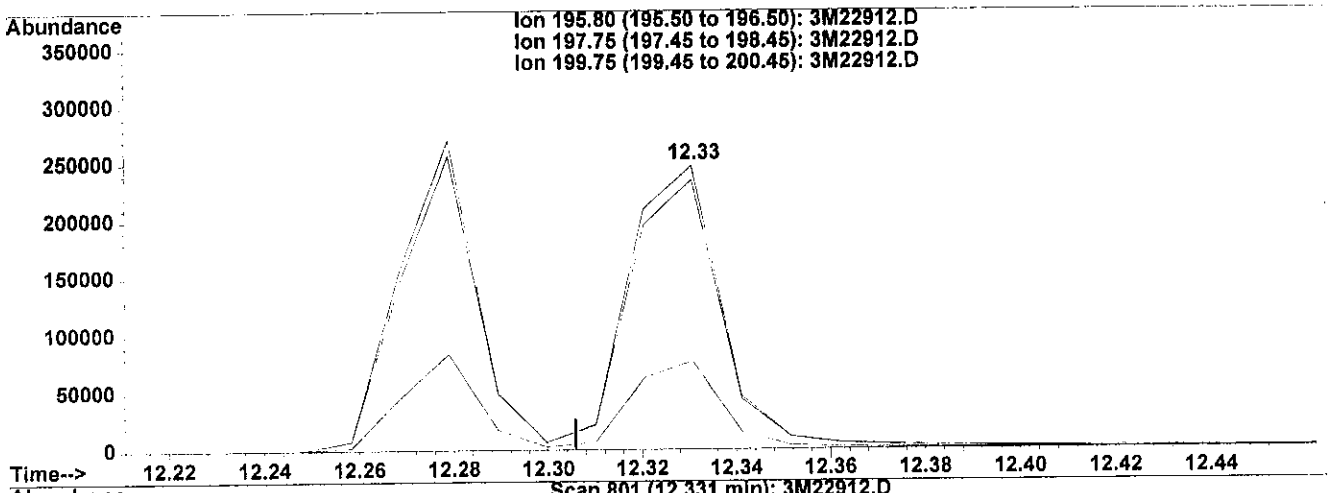
Data File : C:\HPCHEM\1\DATA\052201\3M22912.D Vial: 5
Acq On : 22 May 2001 15:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:23 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration



(37) 2,4,5-Trichlorophenol

12.33min 77.58ug/L m

response 340868

Ion	Exp%	Act%
195.80	100	100
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

CLK 5/22/01

3M22912.D BNA.M Tue May 22 16:23:32 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:28 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.88	152	248408	40.00	ug/L	-0.01
19) Naphthalene-d8	11.26	136	914669	40.00	ug/L	-0.01
34) Acenaphthene-d10	13.10	164	461097	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.64	188	612124	40.00	ug/L	-0.01
67) Chrysene-d12	17.59	240	520619	40.00	ug/L	-0.01
76) Perylene-d12	20.36	264	666749	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.36	112	1152018	95.83	ug/L	-0.01
Spiked Amount 100.000	Range 21 - 100		Recovery = 95.83%			
6) Phenol-d5	9.44	99	1380393	94.31	ug/L	-0.01
Spiked Amount 100.000	Range 10 - 94		Recovery = 94.31%#			
20) Nitrobenzene-d5	10.50	82	1040712	102.86	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 205.72%#			
38) 2-Fluorobiphenyl	12.34	172	1424412	95.41	ug/L	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 190.82%#			
55) 2,4,6-Tribromophenol	13.92	330	175328	116.77	ug/L	-0.01
Spiked Amount 100.000	Range 10 - 123		Recovery = 116.77%			
70) p-Terphenyl-d14	16.22	244	1183543	86.94	ug/L	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 173.88%#			
Target Compounds						Qvalue
2) Pyridine	5.85	79	1204920	99.30	ug/L	99
3) n-Nitrosodimethylamine	5.85	74	696907	96.94	ug/L	98
5) Aniline	9.53	66	469509	141.08	ug/L	99
7) Phenol	9.45	94	1400543	90.86	ug/L	100
8) bis(2-Chloroethyl)ether	9.57	63	549903	94.86	ug/L	91
9) 2-Chlorophenol	9.66	128	1009663	93.88	ug/L	98
10) 1,3-Dichlorobenzene	9.83	146	964578	96.97	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	994488	96.87	ug/L	100
12) Benzyl Alcohol	10.01	108	711883	97.62	ug/L	99
13) 1,2-Dichlorobenzene	10.08	146	927457	96.50	ug/L	100
14) 2-Methylphenol	10.12	107	853431	97.04	ug/L	98
15) bis(2-Chloroisopropyl)ethe	10.14	45	1060248	97.15	ug/L	100
16) 4-Methylphenol	10.26	107	1278160	95.30	ug/L	100
17) n-Nitrosodipropylamine	10.29	70	577199	98.51	ug/L	99
18) Hexachloroethane	10.44	117	543407	100.85	ug/L	96
21) Nitrobenzene	10.52	77	977797	102.47	ug/L	100
22) Isophorone	10.74	82	1884767	106.20	ug/L	100
23) 2-Nitrophenol	10.85	139	555012	103.31	ug/L	98
24) 2,4-Dimethylphenol	10.83	122	897192	98.72	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:28 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	10.93	93	1276310	102.11 ug/L	100
26) Benzoic Acid	10.91	122	625369	111.97 ug/L	99
27) 2,4-Dichlorophenol	11.09	162	720511	101.15 ug/L	98
28) 1,2,4-Trichlorobenzene	11.18	180	701471	102.14 ug/L	99
29) Naphthalene	11.29	128	2754772	98.47 ug/L #	83
30) 4-Chloroaniline	11.32	127	1108229m	112.00 ug/L	
31) Hexachlorobutadiene	11.38	225	311471	109.50 ug/L	100
32) 4-Chloro-3-Methylphenol	11.77	107	885595	97.87 ug/L	99
33) 2-Methylnaphthalene	11.99	142	1536948	97.04 ug/L	99
35) Hexachlorocyclopentadiene	12.15	237	290591	120.16 ug/L	99
36) 2,4,6-Trichlorophenol	12.27	196	391078	98.82 ug/L	99
37) 2,4,5-Trichlorophenol	12.32	196	422230m	98.64 ug/L	
39) 2-Chloronaphthalene	12.51	162	1423699	96.88 ug/L	99
40) 2-Nitroaniline	12.61	65	426189	98.35 ug/L	97
41) Dimethylphthalate	12.74	163	1645257	99.74 ug/L	100
42) Acenaphthylene	12.96	152	2201923	91.94 ug/L	100
43) 2,6-Dinitrotoluene	12.84	165	425557	108.08 ug/L	96
44) 3-Nitroaniline	13.04	138	475567	101.34 ug/L	99
45) Acenaphthene	13.13	154	1365560	95.78 ug/L	98
46) 2,4-Dinitrophenol	13.14	184	234356	142.91 ug/L #	32
47) 4-Nitrophenol	13.15	65	293189	101.14 ug/L	96
48) Dibenzofuran	13.30	168	1876124	93.48 ug/L	99
49) 2,4-Dinitrotoluene	13.27	165	543008	106.83 ug/L	97
50) Diethylphthalate	13.44	149	1637857	98.08 ug/L	100
51) Fluorene	13.66	166	1492760	94.96 ug/L	99
52) 4-Chlorophenyl Phenyl Ethe	13.61	204	577293	96.69 ug/L	99
53) 4-Nitroaniline	13.68	138	479775	98.04 ug/L	94
54) 1,2-Diphenylhydrazine	13.77	77	1837990	95.51 ug/L	100
57) 4,6-Dinitro-2-Methylphenol	13.69	198	291988	122.27 ug/L	93
58) n-Nitrosodiphenylamine	13.73	169	1047346	95.84 ug/L	99
59) 4-Bromophenyl Phenyl Ether	14.12	248	317562	105.24 ug/L	96
60) Hexachlorobenzene	14.25	284	348905	109.78 ug/L	93
61) Pentachlorophenol	14.44	266	247995	127.33 ug/L	100
62) Phenanthrene	14.66	178	1944931	96.48 ug/L	100
63) Anthracene	14.72	178	1970882	99.76 ug/L	99
64) Carbazole	14.87	167	1795553	92.41 ug/L #	100
65) Di-n-Butyl Phthalate	15.08	149	2874572	101.35 ug/L	100
66) Fluoranthene	15.91	202	1848747	100.11 ug/L	96
68) Benzidine	15.99	184	579240	877.63 ug/L	99
69) Pyrene	16.16	202	1893081	84.05 ug/L	100
71) Butyl Benzyl Phthalate	16.66	149	1335554	86.55 ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:28 2001 Quant Results File: BNA.RES

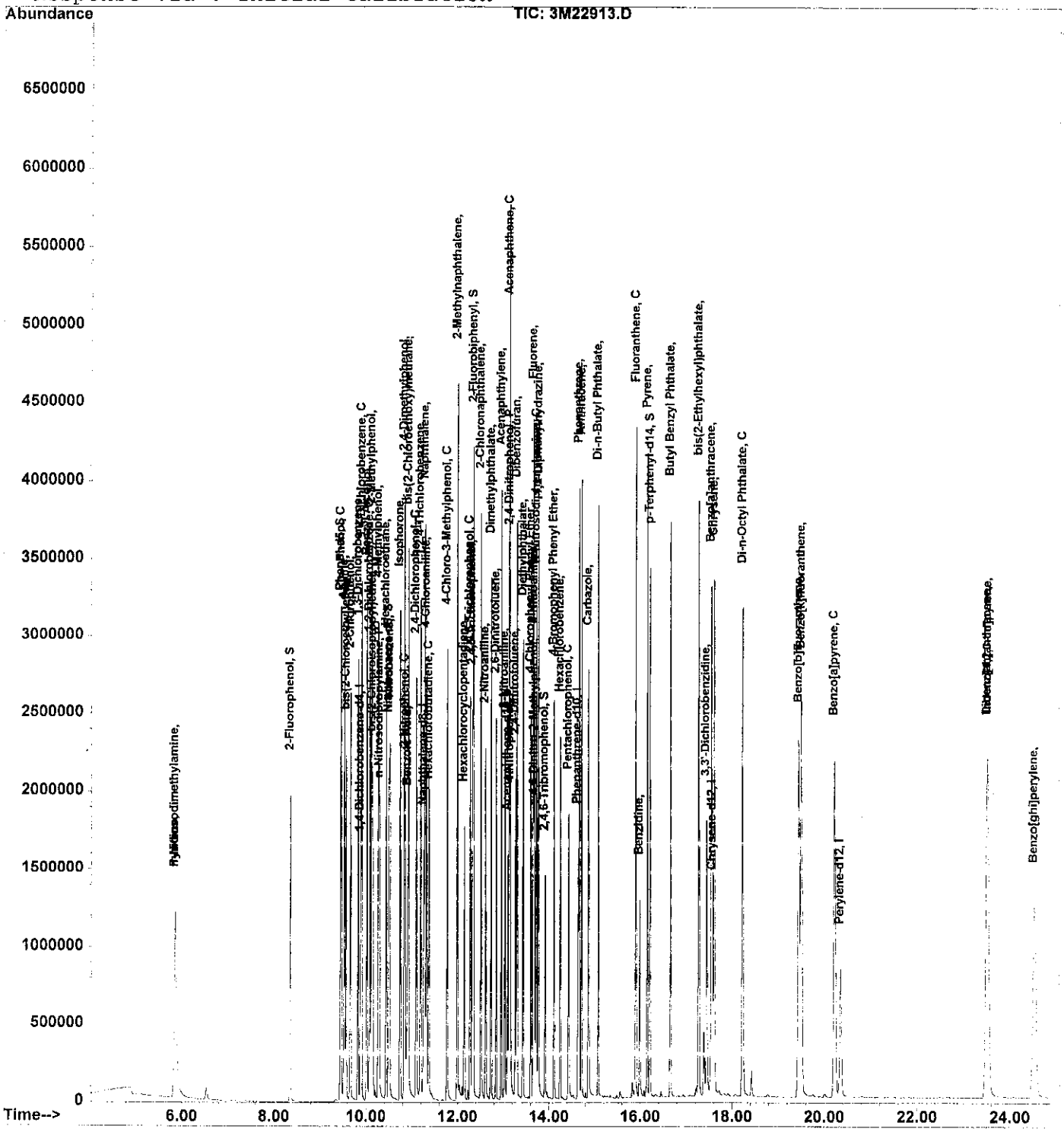
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
72) Benzo[a]anthracene	17.55	228	1665112	93.99	ug/L		99
73) 3,3'-Dichlorobenzidine	17.45	252	547246	93.21	ug/L		97
74) Chrysene	17.62	228	1638781	95.88	ug/L		100
75) bis(2-Ethylhexyl)phthalate	17.28	149	1768360	87.31	ug/L		99
77) Di-n-Octyl Phthalate	18.24	149	3287996	73.73	ug/L		98
78) Benzo[b]fluoranthene	19.46	252	1916591	85.73	ug/L		99
79) Benzo[k]fluoranthene	19.51	252	1886064	87.32	ug/L		96
80) Benzo[a]pyrene	20.23	252	1886150	88.61	ug/L		95
81) Indeno[1,2,3-cd]pyrene	23.54	276	2019492	73.24	ug/L	#	88
82) Dibenz[ah]anthracene	23.53	278	1237055	58.21	ug/L		92
83) Benzo[ghi]perylene	24.55	276	1822372	74.52	ug/L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:28 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration

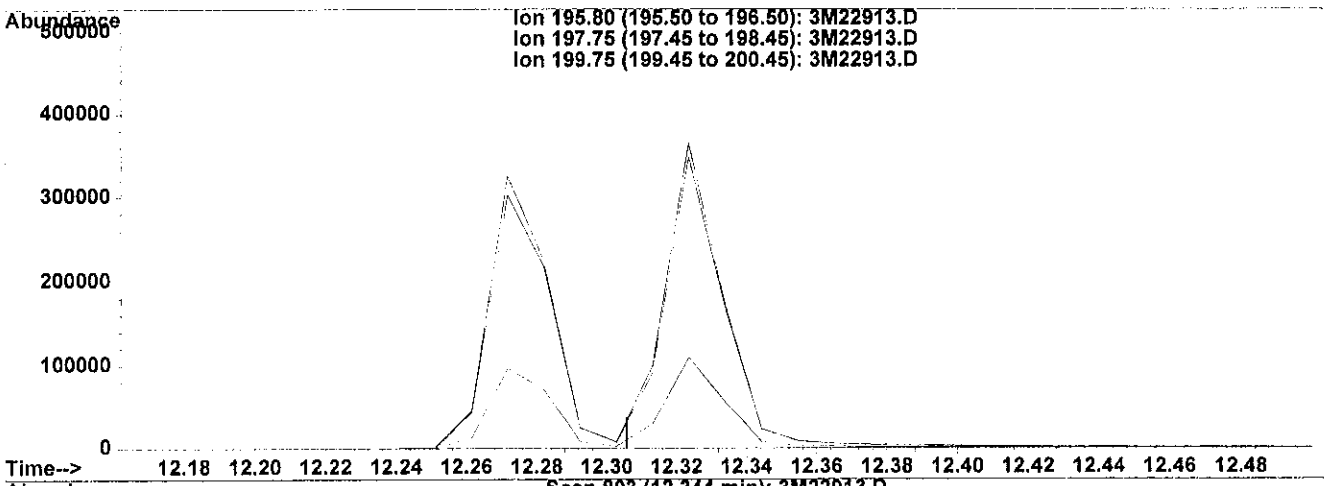


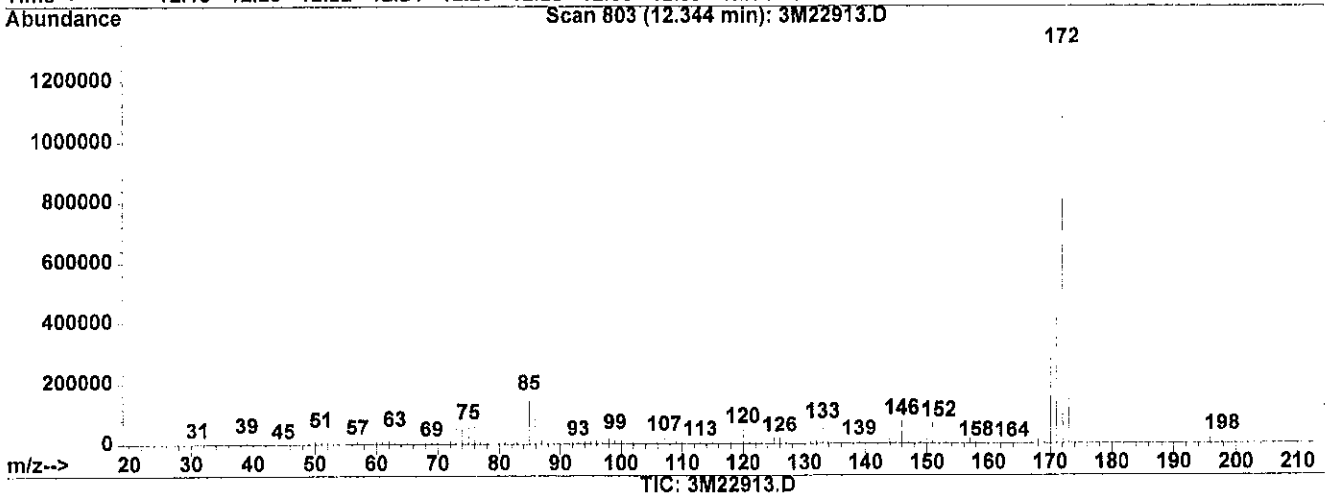
3M22913.D BNA.M Tue May 22 16:29:18 2001 HPMS3 Page 4

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:03 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration





(37) 2,4,5-Trichlorophenol

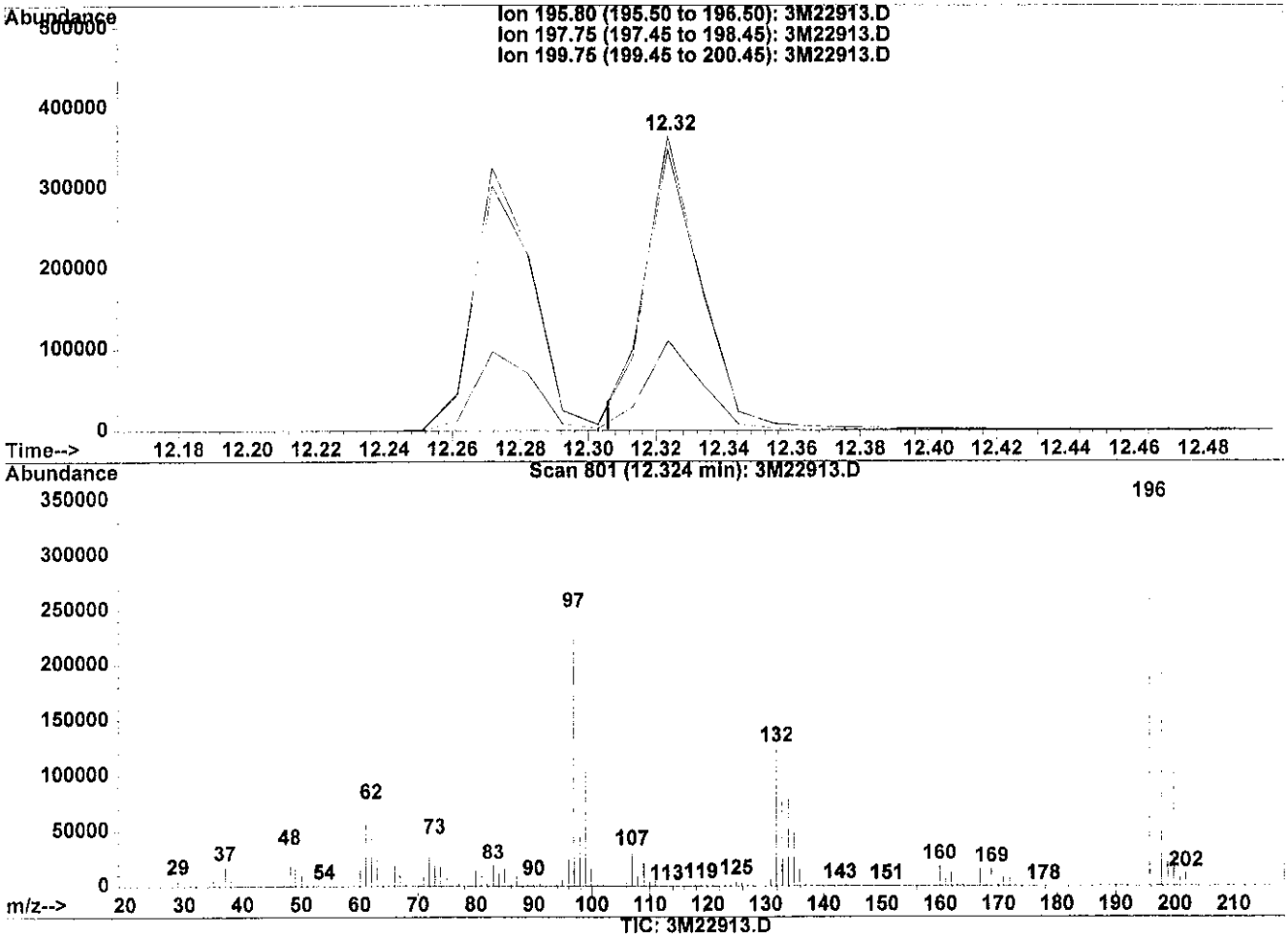
12.34min 0.00ug/L

response 0

Ion	Exp%	Act%
195.80	100	0.00
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:24 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration



(37) 2,4,5-Trichlorophenol

12.32min 98.64ug/L m

response 422230

Ion	Exp%	Act%
195.80	100	100
197.75	94.20	0.00#
199.75	30.10	0.00#
0.00	0.00	0.00

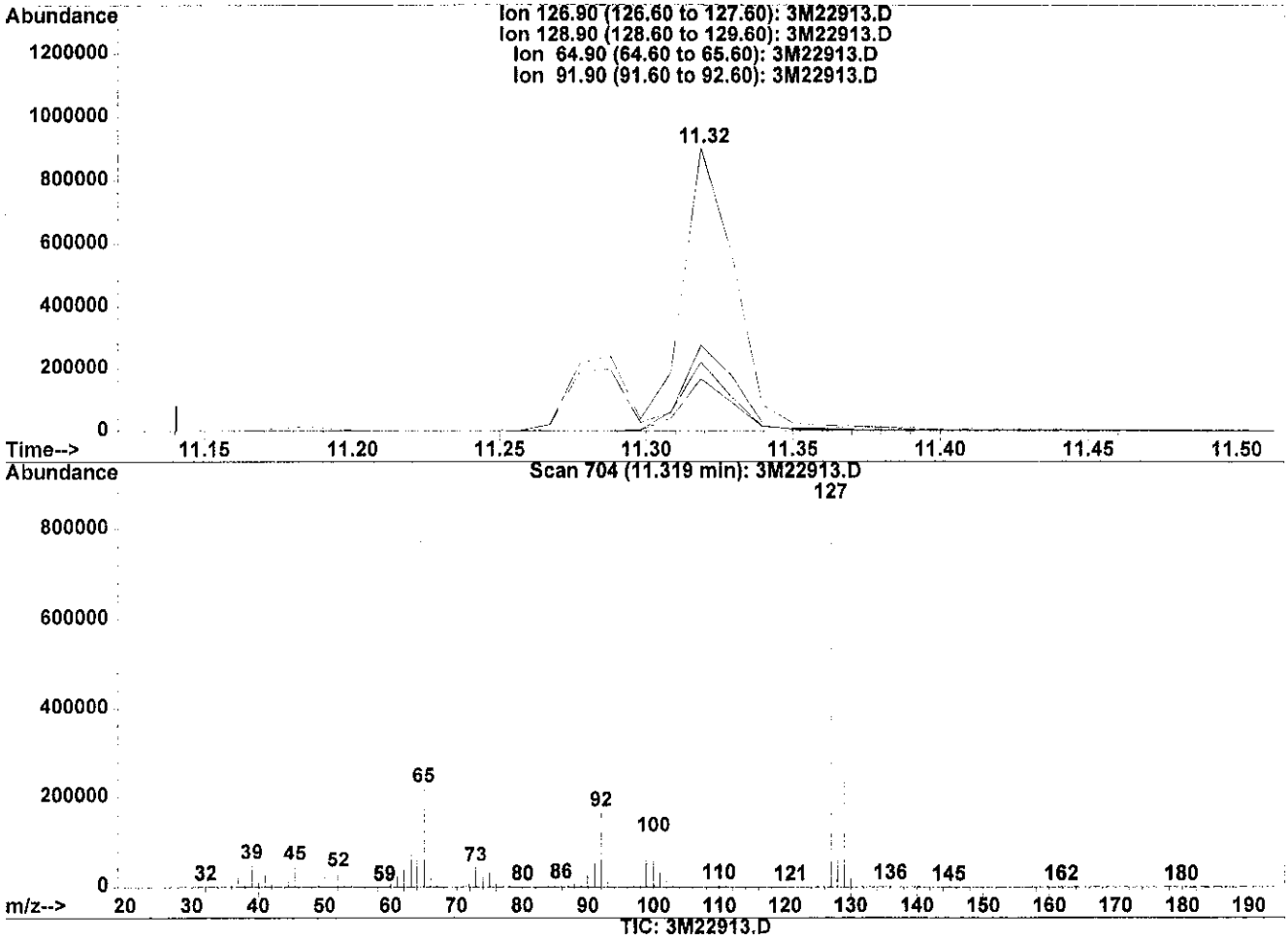
CLK 5/22/01

3M22913.D BNA.M Tue May 22 16:24:41 2001 HPMS3

424

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:24 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration



(30) 4-Chloroaniline

11.32min 149.55ug/L

response 1479785

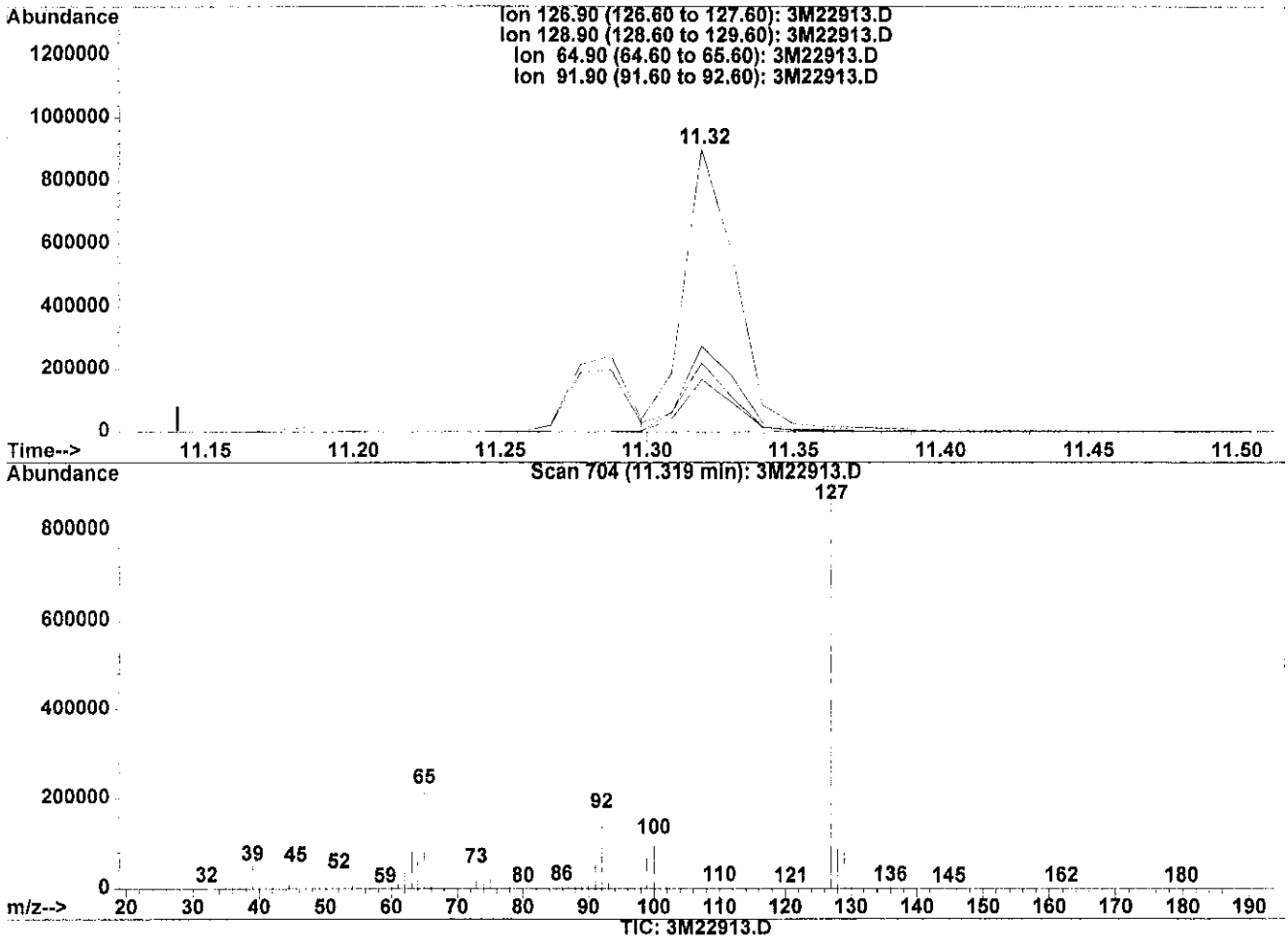
Ion	Exp%	Act%
126.90	100	100
128.90	30.20	23.17#
64.90	21.80	18.49
91.90	17.30	13.97

3M22913.D BNA.M Tue May 22 16:28:49 2001 HPMS3

425

Data File : C:\HPCHEM\1\DATA\052201\3M22913.D Vial: 6
Acq On : 22 May 2001 15:38 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 16:28 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Multiple Level Calibration



(30) 4-Chloroaniline

11.32min 112.00ug/L m

response 1108229

Ion	Exp%	Act%
126.90	100	100
128.90	30.20	30.93
64.90	21.80	24.69
91.90	17.30	18.65

CLK 5/22/01

3M22913.D BNA.M Tue May 22 16:28:56 2001 HPMS3

426

Data File : C:\HPCHEM\1\DATA\052201\3M22914.D Vial: 7
Acq On : 22 May 2001 16:14 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:39 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.88	152	238677	40.00	ug/L	0.00
19) Naphthalene-d8	11.26	136	872472	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	443392	40.00	ug/L	0.00
56) Phenanthrene-d10	14.65	188	590492	40.00	ug/L	0.00
67) Chrysene-d12	17.59	240	505569	40.00	ug/L	0.00
76) Perylene-d12	20.36	264	656894	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.35	112	1321623	115.88	ug/L	-0.02
Spiked Amount 100.000	Range 21 - 100		Recovery = 115.88%#			
6) Phenol-d5	9.45	99	1605068	117.63	ug/L	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 117.63%#			
20) Nitrobenzene-d5	10.49	82	1207831	121.35	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 242.70%#			
38) 2-Fluorobiphenyl	12.35	172	1614722	113.01	ug/L	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 226.02%#			
55) 2,4,6-Tribromophenol	13.92	330	207025	131.22	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 131.22%#			
70) p-Terphenyl-d14	16.22	244	1346857	110.06	ug/L	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 220.12%#			
Target Compounds						Qvalue
2) Pyridine	5.85	79	1388112	117.72	ug/L	97
3) n-Nitrosodimethylamine	5.84	74	806529	114.75	ug/L	100
5) Aniline	9.53	66	547318	122.42	ug/L	93
7) Phenol	9.46	94	1618182	116.05	ug/L	99
8) bis(2-Chloroethyl)ether	9.56	63	640831	109.33	ug/L	89
9) 2-Chlorophenol	9.66	128	1152822	115.28	ug/L	97
10) 1,3-Dichlorobenzene	9.82	146	1105010	112.77	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	1128171	111.80	ug/L	99
12) Benzyl Alcohol	10.02	108	830313	120.99	ug/L	99
13) 1,2-Dichlorobenzene	10.08	146	1061103	113.17	ug/L	99
14) 2-Methylphenol	10.12	107	986398	117.01	ug/L	99
15) bis(2-Chloroisopropyl)ethe	10.14	45	1223552	112.60	ug/L	96
16) 4-Methylphenol	10.26	107	1465808	116.83	ug/L	100
17) n-Nitrosodipropylamine	10.28	70	669510	117.47	ug/L	99
18) Hexachloroethane	10.44	117	618792	114.96	ug/L	97
21) Nitrobenzene	10.51	77	1132467	119.64	ug/L	99
22) Isophorone	10.74	82	2164235	117.43	ug/L	100
23) 2-Nitrophenol	10.85	139	630706	121.19	ug/L	96
24) 2,4-Dimethylphenol	10.83	122	1019934	116.12	ug/L	100

(#) = qualifier out of range (m) = manual integration
3M22914.D BNA.M Tue May 22 16:39:14 2001 HPMS3 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\3M22914.D Vial: 7
Acq On : 22 May 2001 16:14 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:39 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
25) bis(2-Chloroethoxy)methane	10.93	93	1448650	114.62 ug/L		100
26) Benzoic Acid	10.92	122	718609	129.15 ug/L		99
27) 2,4-Dichlorophenol	11.09	162	811445	116.10 ug/L		100
28) 1,2,4-Trichlorobenzene	11.19	180	799182	115.36 ug/L		99
29) Naphthalene	11.28	128	3113056	111.90 ug/L		100
30) 4-Chloroaniline	11.32	127	1300357	125.83 ug/L		99
31) Hexachlorobutadiene	11.37	225	349600	115.76 ug/L		99
32) 4-Chloro-3-Methylphenol	11.78	107	1019272	116.49 ug/L		99
33) 2-Methylnaphthalene	11.99	142	1747115	112.35 ug/L		100
35) Hexachlorocyclopentadiene	12.15	237	343148	144.89 ug/L		99
36) 2,4,6-Trichlorophenol	12.27	196	443503	119.69 ug/L		99
37) 2,4,5-Trichlorophenol	12.32	196	379864	94.79 ug/L		98
39) 2-Chloronaphthalene	12.51	162	1613203	113.07 ug/L		100
40) 2-Nitroaniline	12.62	65	497592	122.59 ug/L		98
41) Dimethylphthalate	12.74	163	1853797	113.90 ug/L		100
42) Acenaphthylene	12.96	152	2497905	112.39 ug/L		100
43) 2,6-Dinitrotoluene	12.84	165	490496	124.50 ug/L		100
44) 3-Nitroaniline	13.04	138	539131	118.57 ug/L		100
45) Acenaphthene	13.13	154	1545605	111.04 ug/L		100
46) 2,4-Dinitrophenol	13.13	184	270539	136.85 ug/L		70
47) 4-Nitrophenol	13.15	65	338821	120.65 ug/L		97
48) Dibenzofuran	13.30	168	2125245	111.04 ug/L		99
49) 2,4-Dinitrotoluene	13.27	165	629685	122.89 ug/L		99
50) Diethylphthalate	13.44	149	1858630	113.81 ug/L		100
51) Fluorene	13.66	166	1707396	112.12 ug/L		99
52) 4-Chlorophenyl Phenyl Ethe	13.61	204	655838	113.96 ug/L		99
53) 4-Nitroaniline	13.68	138	544118	116.62 ug/L		99
54) 1,2-Diphenylhydrazine	13.78	77	2098793	108.78 ug/L		99
57) 4,6-Dinitro-2-Methylphenol	13.69	198	335493	125.63 ug/L		96
58) n-Nitrosodiphenylamine	13.73	169	1179585	112.08 ug/L		98
59) 4-Bromophenyl Phenyl Ether	14.12	248	362214	115.69 ug/L		99
60) Hexachlorobenzene	14.25	284	396986	117.26 ug/L		97
61) Pentachlorophenol	14.44	266	285774	136.82 ug/L		99
62) Phenanthrene	14.67	178	2204236	111.01 ug/L		100
63) Anthracene	14.72	178	2234807	112.61 ug/L		100
64) Carbazole	14.87	167	2018504	103.88 ug/L	#	99
65) Di-n-Butyl Phthalate	15.08	149	3256159	114.28 ug/L		99
66) Fluoranthene	15.91	202	2113214	113.95 ug/L		97
68) Benzidine	15.99	184	676037	114.65 ug/L		100
69) Pyrene	16.16	202	2150046	107.54 ug/L		100
71) Butyl Benzyl Phthalate	16.67	149	1531526	111.69 ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22914.D Vial: 7
Acq On : 22 May 2001 16:14 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:39 2001 Quant Results File: BNA.RES

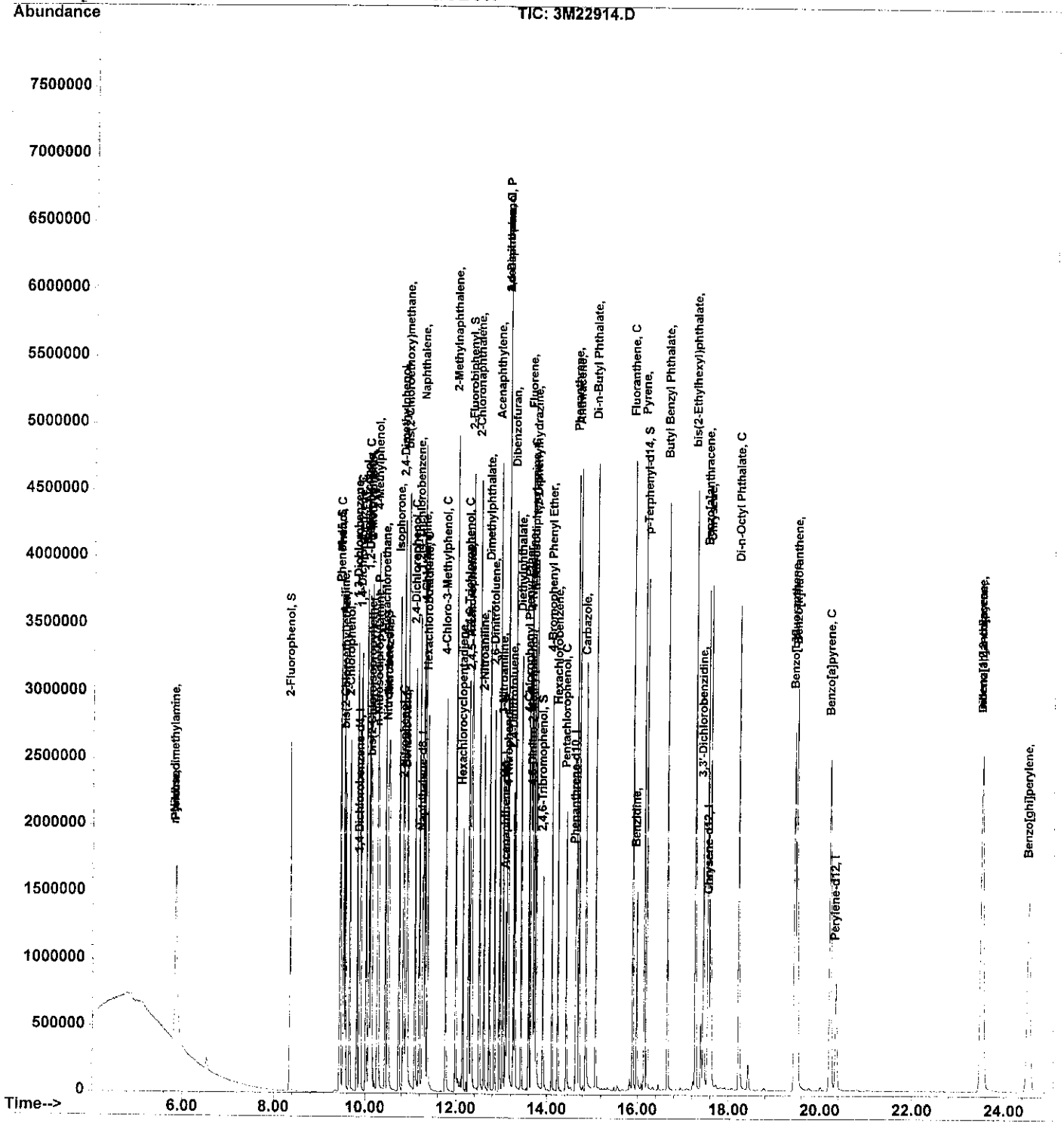
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 13:50:26 2001
Response via : Initial Calibration
DataAcq Meth : BNA

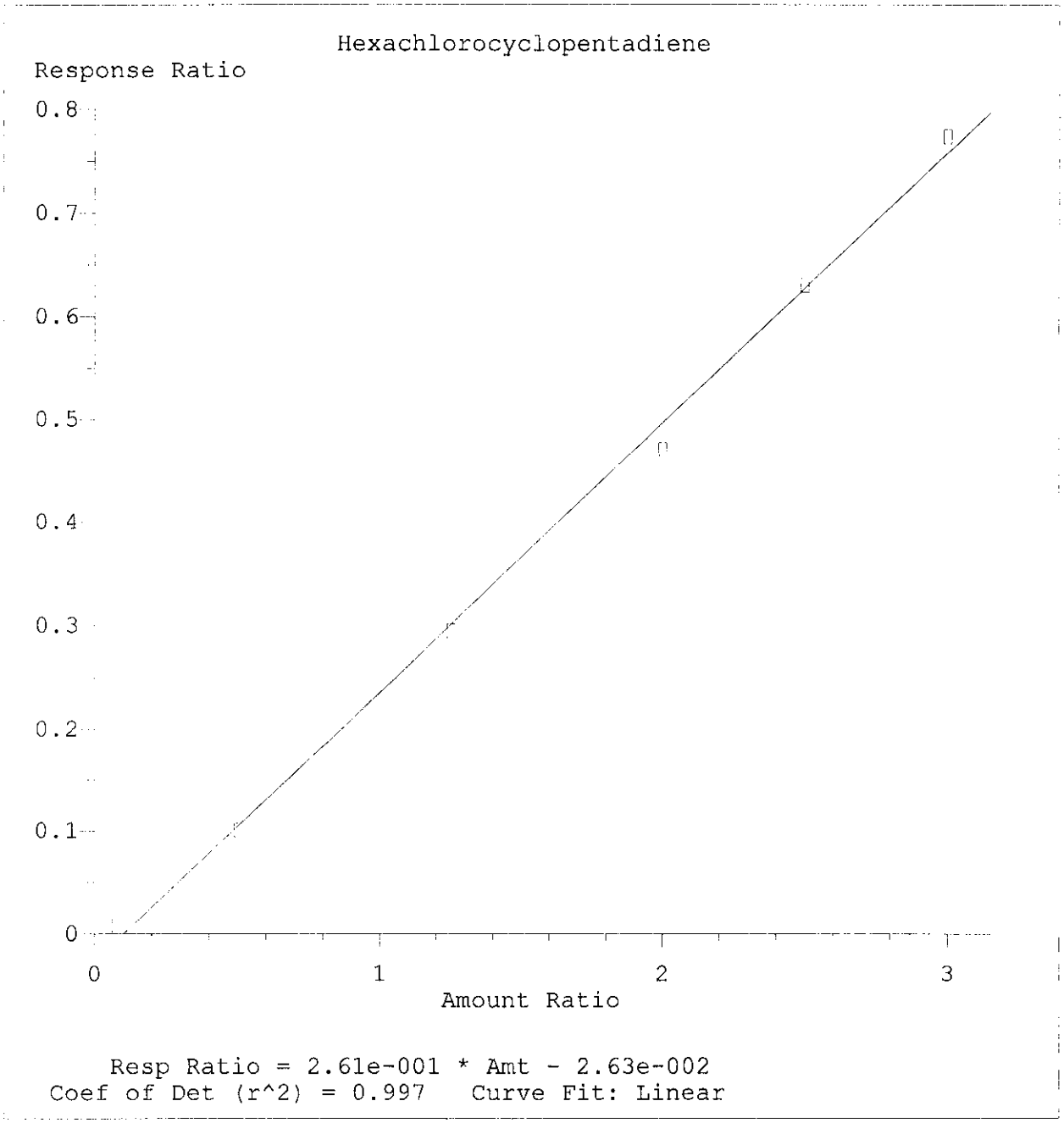
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72)	Benzo[a]anthracene	17.56	228	1913242	111.90 ug/L	99
73)	3,3'-Dichlorobenzidine	17.45	252	635853	107.06 ug/L	99
74)	Chrysene	17.62	228	1878523	113.03 ug/L	100
75)	bis(2-Ethylhexyl)phthalate	17.28	149	2031089	113.66 ug/L	100
77)	Di-n-Octyl Phthalate	18.24	149	3809097	110.45 ug/L	99
78)	Benzo[b]fluoranthene	19.46	252	2209598	109.79 ug/L	96
79)	Benzo[k]fluoranthene	19.51	252	2220688	113.71 ug/L	93
80)	Benzo[a]pyrene	20.24	252	2198865	113.12 ug/L	98
81)	Indeno[1,2,3-cd]pyrene	23.54	276	2390997	111.13 ug/L	95
82)	Dibenz[ah]anthracene	23.54	278	1460840	105.07 ug/L	96
83)	Benzo[ghi]perylene	24.56	276	2173558	112.04 ug/L	96

(#) = qualifier out of range (m) = manual integration

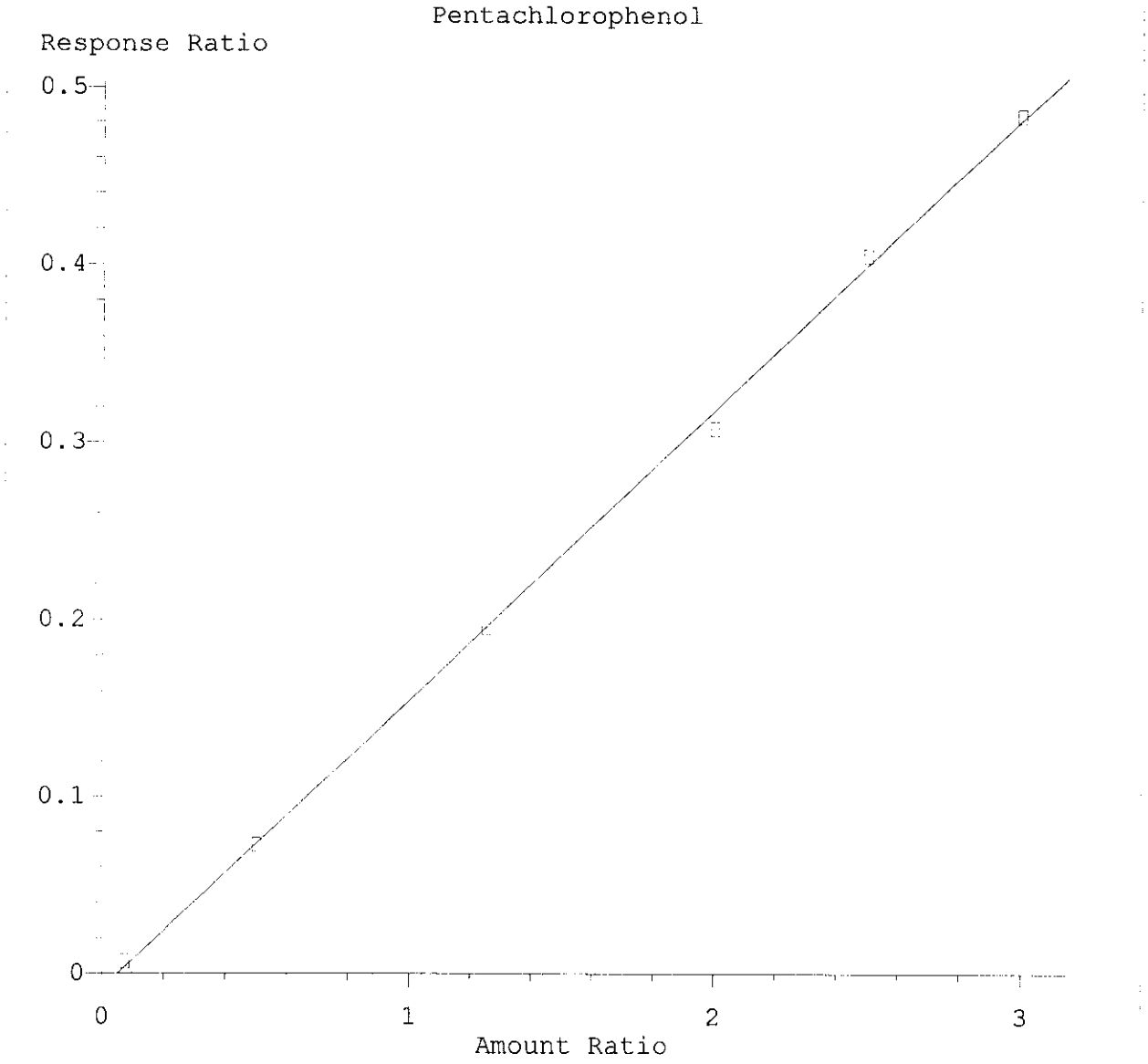
Data File : C:\HPCHEM\1\DATA\052201\3M22914.D Vial: 7
Acq On : 22 May 2001 16:14 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 16:39 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:34:55 2001
Response via : Initial Calibration



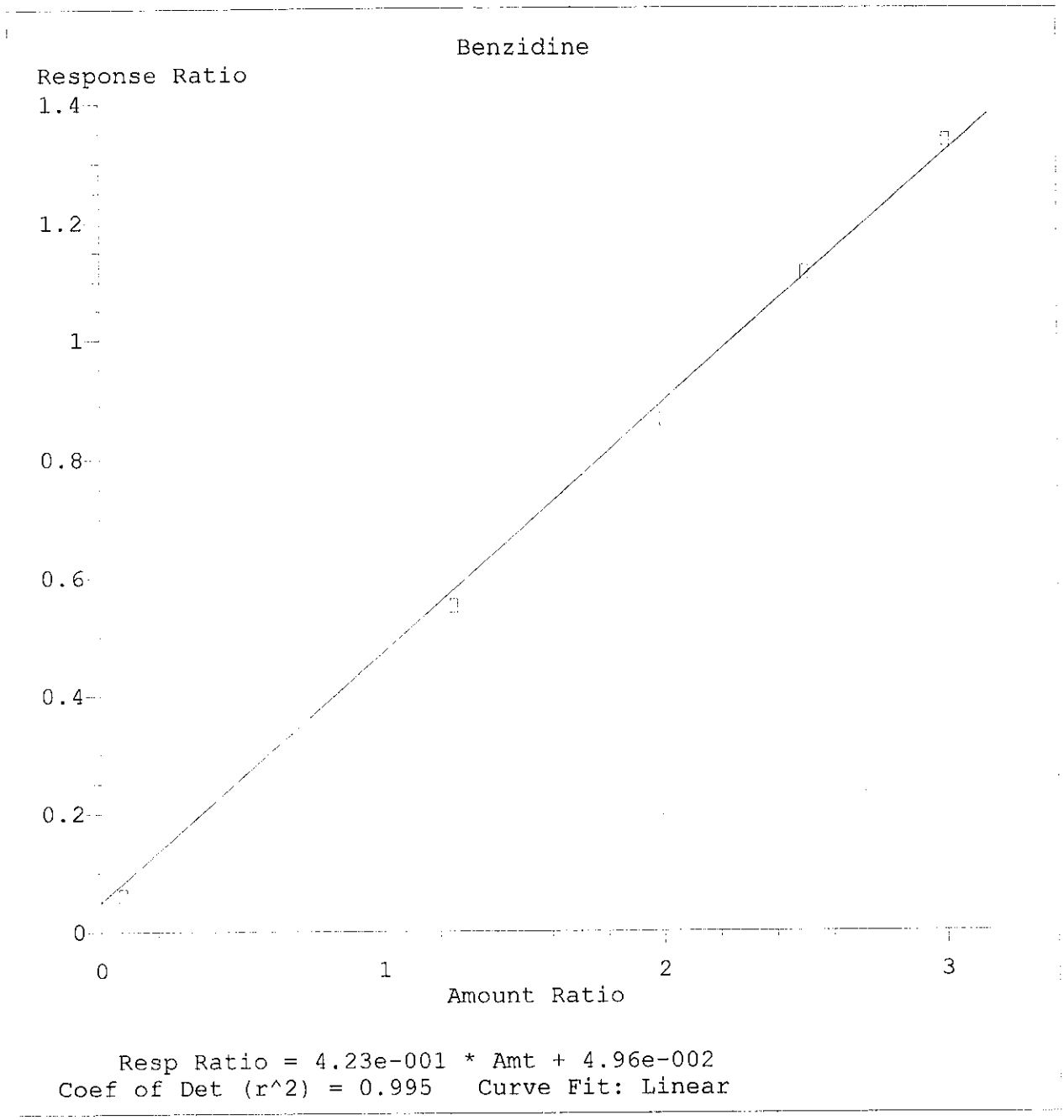


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 13:50:26 2001



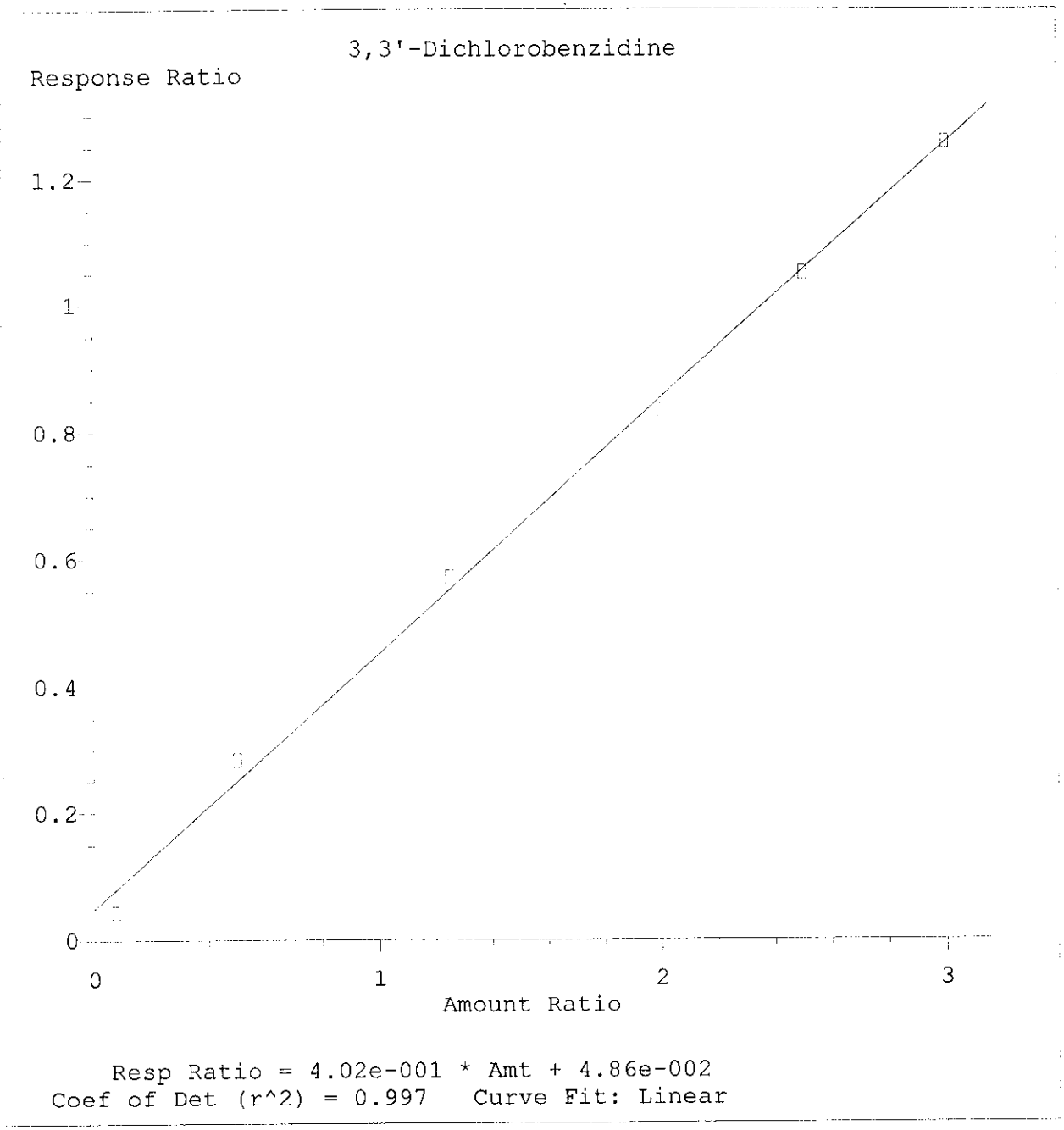
Resp Ratio = 1.63e-001 * Amt - 8.59e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 16:42:01 2001



Resp Ratio = 4.23e-001 * Amt + 4.96e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 16:42:25 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Tue May 22 16:42:43 2001

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 17:18 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	214978	40.00	ug/L	-0.02
19) Naphthalene-d8	11.26	136	800699	40.00	ug/L	0.00
34) Acenaphthene-d10	13.10	164	405651	40.00	ug/L	-0.02
56) Phenanthrene-d10	14.64	188	549753	40.00	ug/L	-0.02
67) Chrysene-d12	17.58	240	478201	40.00	ug/L	-0.02
76) Perylene-d12	20.36	264	602315	40.00	ug/L	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	8.35	112	578971	56.24	ug/L	-0.02
Spiked Amount 100.000	Range 21 - 100		Recovery = 56.24%			
6) Phenol-d5	9.44	99	690299	56.02	ug/L	-0.02
Spiked Amount 100.000	Range 10 - 94		Recovery = 56.02%			
20) Nitrobenzene-d5	10.50	82	517324	55.83	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 111.66%			
38) 2-Fluorobiphenyl	12.34	172	776288	59.22	ug/L	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 118.44%#			
55) 2,4,6-Tribromophenol	13.91	330	86511	58.50	ug/L	-0.02
Spiked Amount 100.000	Range 10 - 123		Recovery = 58.50%			
70) p-Terphenyl-d14	16.21	244	634567	55.58	ug/L	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 111.16%			
Target Compounds						Qvalue
2) Pyridine	5.86	79	620006	57.66	ug/L	98
3) n-Nitrosodimethylamine	5.83	74	353663	55.39	ug/L	99
5) Aniline	9.52	66	231811	54.19	ug/L	98
7) Phenol	9.45	94	696347	55.61	ug/L	98
8) bis(2-Chloroethyl)ether	9.56	63	285704	53.87	ug/L	82
9) 2-Chlorophenol	9.66	128	491660	54.75	ug/L	99
10) 1,3-Dichlorobenzene	9.82	146	474418	53.35	ug/L	99
11) 1,4-Dichlorobenzene	9.90	146	494535	54.06	ug/L	99
12) Benzyl Alcohol	10.01	108	344851	55.51	ug/L	99
13) 1,2-Dichlorobenzene	10.08	146	462888	54.41	ug/L	99
14) 2-Methylphenol	10.11	107	425318	55.74	ug/L	97
15) bis(2-Chloroisopropyl)ethe	10.13	45	483960	48.83	ug/L #	86
16) 4-Methylphenol	10.27	107	627387	55.41	ug/L	100
17) n-Nitrosodipropylamine	10.29	70	307094	59.08	ug/L	98
18) Hexachloroethane	10.43	117	249823	50.99	ug/L	96
21) Nitrobenzene	10.52	77	478567	54.11	ug/L	100
22) Isophorone	10.73	82	1035510	59.95	ug/L	100
23) 2-Nitrophenol	10.85	139	266936	55.60	ug/L	97
24) 2,4-Dimethylphenol	10.83	122	455911	56.34	ug/L	99

(#) = qualifier out of range (m) = manual integration
3M22915.D BNA.M Tue May 22 17:19:02 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 17:18 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.93	93	663404	56.36	ug/L		99
26)	Benzoic Acid	10.90	122	288060	55.97	ug/L		99
27)	2,4-Dichlorophenol	11.10	162	351420	54.43	ug/L		98
28)	1,2,4-Trichlorobenzene	11.18	180	340305	52.81	ug/L		100
29)	Naphthalene	11.28	128	1374254	53.32	ug/L		99
30)	4-Chloroaniline	11.32	127	556619	56.70	ug/L		98
31)	Hexachlorobutadiene	11.38	225	168832	59.60	ug/L		97
32)	4-Chloro-3-Methylphenol	11.77	107	446933	55.32	ug/L		99
33)	2-Methylnaphthalene	11.99	142	762526	52.95	ug/L		99
35)	Hexachlorocyclopentadiene	12.14	237	154847	62.47	ug/L		99
36)	2,4,6-Trichlorophenol	12.28	196	188994	55.92	ug/L		99
37)	2,4,5-Trichlorophenol	12.33	196	214021m	60.37	ug/L		
39)	2-Chloronaphthalene	12.52	162	709423	54.15	ug/L		99
40)	2-Nitroaniline	12.61	65	209900	56.36	ug/L		96
41)	Dimethylphthalate	12.73	163	811701	54.21	ug/L		100
42)	Acenaphthylene	12.96	152	1182569	58.37	ug/L		100
43)	2,6-Dinitrotoluene	12.85	165	209386	57.53	ug/L		99
44)	3-Nitroaniline	13.03	138	244617	58.45	ug/L		99
45)	Acenaphthene	13.13	154	720984	56.27	ug/L		98
46)	2,4-Dinitrophenol	13.14	184	105007	55.99	ug/L		99
47)	4-Nitrophenol	13.15	65	144559	56.29	ug/L		95
48)	Dibenzofuran	13.30	168	969723	55.35	ug/L		99
49)	2,4-Dinitrotoluene	13.26	165	272518	57.69	ug/L		92
50)	Diethylphthalate	13.44	149	844805	56.12	ug/L		100
51)	Fluorene	13.66	166	773036	55.26	ug/L		99
52)	4-Chlorophenyl Phenyl Ethe	13.60	204	292886	55.39	ug/L		100
53)	4-Nitroaniline	13.68	138	242593	56.52	ug/L		96
54)	1,2-Diphenylhydrazine	13.77	77	1006203	56.69	ug/L		98
57)	4,6-Dinitro-2-Methylphenol	13.69	198	149369	58.99	ug/L		96
58)	n-Nitrosodiphenylamine	13.73	169	528443	53.64	ug/L		95
59)	4-Bromophenyl Phenyl Ether	14.12	248	144774	48.89	ug/L		99
60)	Hexachlorobenzene	14.25	284	177052	55.00	ug/L		97
61)	Pentachlorophenol	14.43	266	117269	54.33	ug/L		99
62)	Phenanthrene	14.67	178	987291	53.01	ug/L		99
63)	Anthracene	14.72	178	1028990	55.05	ug/L		99
64)	Carbazole	14.87	167	971600	53.09	ug/L	#	100
65)	Di-n-Butyl Phthalate	15.08	149	1446326	53.88	ug/L		100
66)	Fluoranthene	15.90	202	926428	52.94	ug/L		98
68)	Benzidine	15.99	184	340172	62.58	ug/L		100
69)	Pyrene	16.15	202	970842	52.36	ug/L		99
71)	Butyl Benzyl Phthalate	16.67	149	701212	54.72	ug/L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 17:18 2001 Quant Results File: BNA.RES

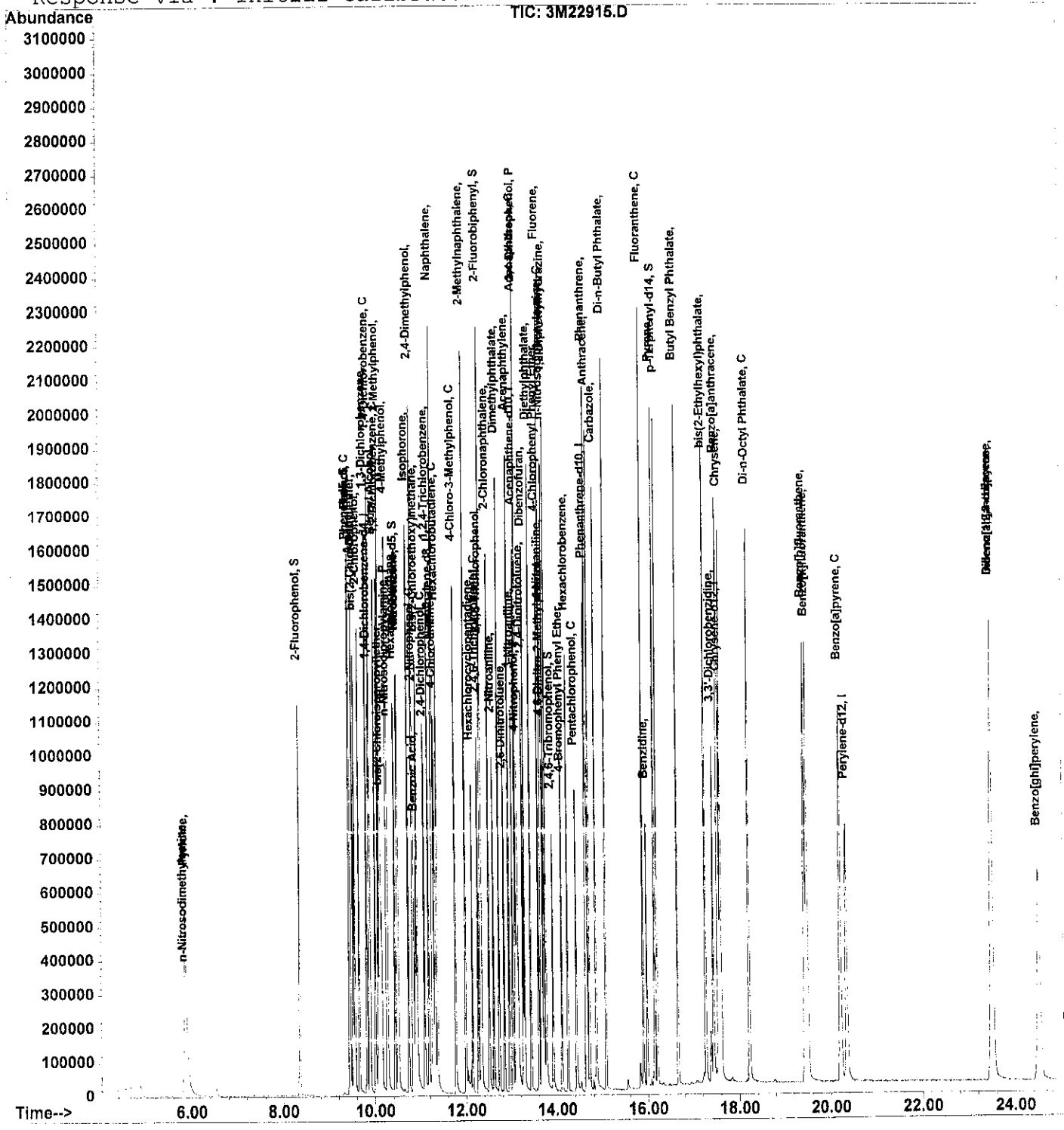
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72)	Benzo[a]anthracene	17.55	228	853020	52.69 ug/L	100
73)	3,3'-Dichlorobenzidine	17.45	252	304770	58.52 ug/L	99
74)	Chrysene	17.61	228	769997	48.80 ug/L	100
75)	bis(2-Ethylhexyl)phthalate	17.28	149	907941	54.47 ug/L	99
77)	Di-n-Octyl Phthalate	18.23	149	1656707	55.19 ug/L	99
78)	Benzo[b]fluoranthene	19.45	252	1007347	55.64 ug/L	96
79)	Benzo[k]fluoranthene	19.51	252	926326	52.62 ug/L	93
80)	Benzo[a]pyrene	20.22	252	926627	52.79 ug/L	98
81)	Indeno[1,2,3-cd]pyrene	23.52	276	1055674	56.55 ug/L	99
82)	Dibenz[ah]anthracene	23.52	278	865603	75.52 ug/L	96
83)	Benzo[ghi]perylene	24.53	276	911065	54.12 ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 22 17:18 2001 Quant Results File: BNA.RES

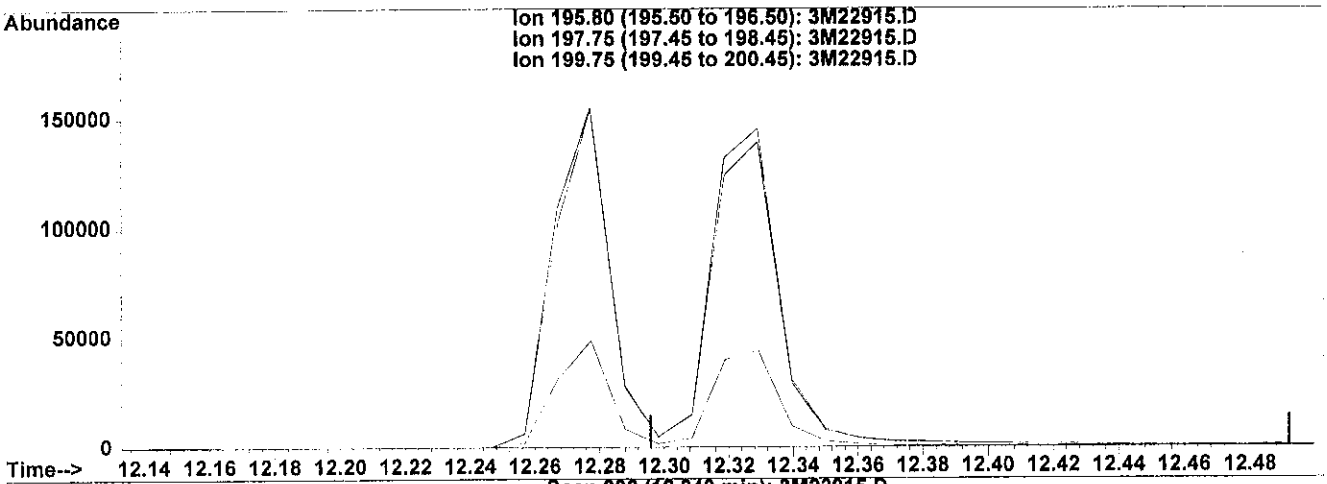
Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Initial Calibration

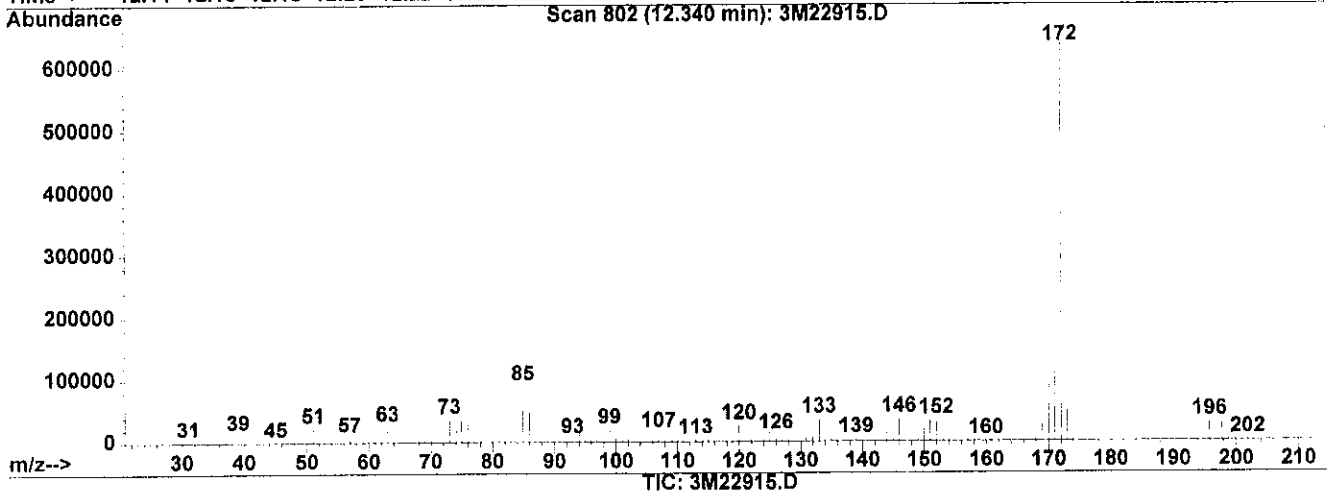


3M22915.D BNA.M Tue May 22 17:19:14 2001 HPMS3 Page 4

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 17:14 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:41:14 2001
Response via : Multiple Level Calibration





(37) 2,4,5-Trichlorophenol

12.33min 0.00ug/L

response 0

Ion	Exp%	Act%
195.80	100	0.00
197.75	97.50	0.00#
199.75	31.10	0.00#
0.00	0.00	0.00

3M22915.D BNA.M Tue May 22 17:18:45 2001 HPMS3

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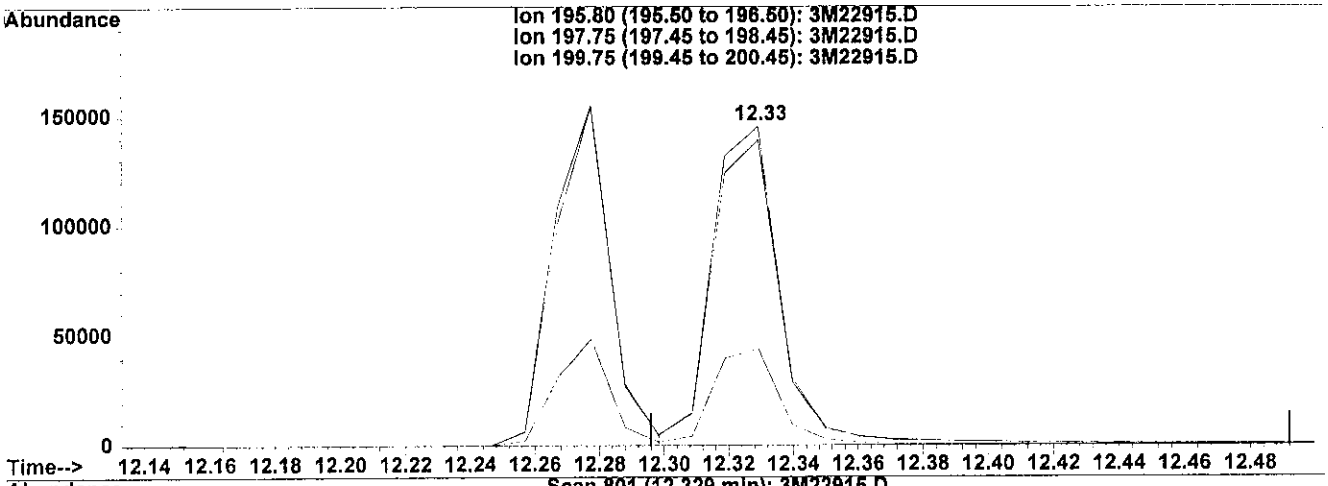
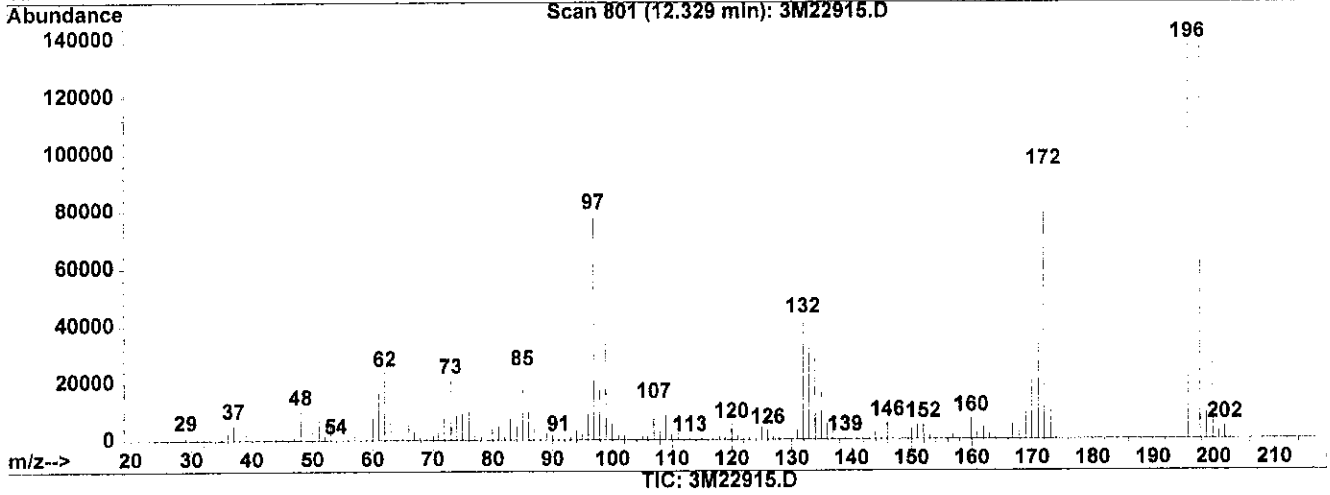
Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 17:18 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:41:14 2001
Response via : Multiple Level Calibration





(37) 2,4,5-Trichlorophenol

12.33min 60.37ug/L m

response 214021

Ion	Exp%	Act%
195.80	100	100
197.75	97.50	0.00#
199.75	31.10	0.00#
0.00	0.00	0.00

CLK 5/22/01

BNC 5/22/01

3M22915.D BNA.M Tue May 22 17:18:51 2001 HPMS3

440

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	85	-0.02
2		Pyridine	50.000	57.657	-15.3	91	-0.04
3		n-Nitrosodimethylamine	50.000	55.386	-10.8	87	-0.04
4	S	2-Fluorophenol	50.000	56.238	-12.5	92	-0.02
5		Aniline	50.000	54.190	-8.4	88	-0.02
6	S	Phenol-d5	50.000	56.019	-12.0	91	-0.02
7	C	Phenol	50.000	55.606	-11.2	89	-0.02
8		bis(2-Chloroethyl)ether	50.000	53.866	-7.7	82	-0.02
9		2-Chlorophenol	50.000	54.753	-9.5	90	-0.02
10		1,3-Dichlorobenzene	50.000	53.352	-6.7	89	-0.02
11	C	1,4-Dichlorobenzene	50.000	54.058	-8.1	90	-0.02
12		Benzyl Alcohol	50.000	55.509	-11.0	90	-0.02
13	C	1,2-Dichlorobenzene	50.000	54.408	-8.8	91	-0.02
14		2-Methylphenol	50.000	55.741	-11.5	91	-0.02
15		bis(2-Chloroisopropyl)ether	50.000	48.827	2.3	78	-0.02
16		4-Methylphenol	50.000	55.407	-10.8	90	0.00
17	P	n-Nitrosodipropylamine	50.000	59.084	-18.2	94	0.00
18		Hexachloroethane	50.000	50.986	-2.0	84	-0.02
19	I	Naphthalene-d8	40.000	40.000	0.0	86	0.00
20	S	Nitrobenzene-d5	50.000	55.830	-11.7	91	0.00
21		Nitrobenzene	50.000	54.112	-8.2	88	-0.02
22		Isophorone	50.000	59.948	-19.9	99	-0.02
23	C	2-Nitrophenol	50.000	55.604	-11.2	92	-0.02
24		2,4-Dimethylphenol	50.000	56.337	-12.7	94	-0.02
25		bis(2-Chloroethoxy)methane	50.000	56.365	-12.7	94	0.00
26		Benzoic Acid	50.000	55.974	-11.9	92	0.00
27	C	2,4-Dichlorophenol	50.000	54.432	-8.9	91	0.00
28		1,2,4-Trichlorobenzene	50.000	52.806	-5.6	90	-0.02
29		Naphthalene	50.000	53.321	-6.6	90	0.00
30		4-Chloroaniline	50.000	56.702	-13.4	90	0.00
31	C	Hexachlorobutadiene	50.000	59.595	-19.2	104	0.00
32	C	4-Chloro-3-Methylphenol	50.000	55.320	-10.6	92	-0.02
33		2-Methylnaphthalene	50.000	52.949	-5.9	90	-0.02
34	I	Acenaphthene-d10	40.000	40.000	0.0	86	-0.02
35		Hexachlorocyclopentadiene	50.000	62.468	-24.9	111	-0.02
36	C	2,4,6-Trichlorophenol	50.000	55.917	-11.8	93	0.00
37		2,4,5-Trichlorophenol	50.000	60.372	-20.7	110	0.00
38	S	2-Fluorobiphenyl	50.000	59.216	-18.4	99	-0.02
39		2-Chloronaphthalene	50.000	54.155	-8.3	91	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	56.356	-12.7	88	-0.02
41		Dimethylphthalate	50.000	54.206	-8.4	91	-0.02
42		Acenaphthylene	50.000	58.373	-16.7	97	0.00
43		2,6-Dinitrotoluene	50.000	57.530	-15.1	92	0.00
44		3-Nitroaniline	50.000	58.447	-16.9	95	-0.02
45	C	Acenaphthene	50.000	56.275	-12.6	93	-0.02
46	P	2,4-Dinitrophenol	50.000	55.994	-12.0	93	0.00
47	P	4-Nitrophenol	50.000	56.289	-12.6	92	-0.02
48		Dibenzofuran	50.000	55.355	-10.7	93	0.00
49		2,4-Dinitrotoluene	50.000	57.691	-15.4	92	-0.02
50		Diethylphthalate	50.000	56.121	-12.2	94	0.00
51		Fluorene	50.000	55.264	-10.5	93	-0.02
52		4-Chlorophenyl Phenyl Ether	50.000	55.393	-10.8	94	-0.02
53		4-Nitroaniline	50.000	56.517	-13.0	92	-0.02
54		1,2-Diphenylhydrazine	50.000	56.689	-13.4	96	-0.02
55	S	2,4,6-Tribromophenol	50.000	58.504	-17.0	101	-0.02
56	I	Phenanthrene-d10	40.000	40.000	0.0	89	-0.02
57		4,6-Dinitro-2-Methylphenol	50.000	58.988	-18.0	102	0.00
58	C	n-Nitrosodiphenylamine	50.000	53.637	-7.3	93	-0.02
59		4-Bromophenyl Phenyl Ether	50.000	48.887	2.2	86	0.00
60		Hexachlorobenzene	50.000	55.004	-10.0	98	-0.02
61	C	Pentachlorophenol	50.000	54.333	-8.7	97	-0.02
62		Phenanthrene	50.000	53.007	-6.0	93	0.00
63		Anthracene	50.000	55.047	-10.1	95	0.00
64		Carbazole	50.000	53.086	-6.2	92	0.00
65		Di-n-Butyl Phthalate	50.000	53.880	-7.8	93	0.00
66	C	Fluoranthene	50.000	52.943	-5.9	92	-0.02
67	I	Chrysene-d12	40.000	40.000	0.0	93	-0.02
68		Benzidine	50.000	62.579	-25.2	120	-0.02
69		Pyrene	50.000	52.361	-4.7	95	-0.02
70	S	p-Terphenyl-d14	50.000	55.581	-11.2	100	-0.02
71		Butyl Benzyl Phthalate	50.000	54.719	-9.4	97	0.00
72		Benzo[a]anthracene	50.000	52.689	-5.4	97	-0.02
73		3,3'-Dichlorobenzidine	50.000	58.519	-17.0	104	-0.02
74		Chrysene	50.000	48.802	2.4	88	-0.02
75		bis(2-Ethylhexyl)phthalate	50.000	54.468	-8.9	95	0.00
76	I	Perylene-d12	40.000	40.000	0.0	93	-0.03
77	C	Di-n-Octyl Phthalate	50.000	55.186	-10.4	96	-0.02

(#)=Out of Range
3M22915.D BNA.M Tue May 22 17:19:40 2001 HPMS3 Page 2

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	55.643	-11.3	95	-0.03
79		Benzo[k]fluoranthene	50.000	52.616	-5.2	102	-0.02
80	C	Benzo[a]pyrene	50.000	52.794	-5.6	95	-0.03
81		Indeno[1,2,3-cd]pyrene	50.000	56.554	-13.1	102	-0.04
82		Dibenz[ah]anthracene	50.000	75.515	-51.0#	137	-0.04
83		Benzo[ghi]perylene	50.000	54.120	-8.2	98	-0.04

(#)=Out of Range I=ISTD S=SURR P=SPCC(0 out) C=CCC(0 out)
3M22915.D BNA.M Tue May 22 17:19:40 2001 HPMS3 Page 3

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	-0.02
2		Pyridine	2.001	2.307	-15.3	91	-0.04
3		n-Nitrosodimethylamine	1.188	1.316	-10.8	87	-0.04
4	S	2-Fluorophenol	1.916	2.155	-12.5	92	-0.02
5		Aniline	0.796	0.863	-8.4	88	-0.02
6	S	Phenol-d5	2.293	2.569	-12.0	91	-0.02
7	C	Phenol	2.330	2.591	-11.2	89	-0.02
8		bis(2-Chloroethyl)ether	0.987	1.063	-7.7	82	-0.02
9		2-Chlorophenol	1.671	1.830	-9.5	90	-0.02
10		1,3-Dichlorobenzene	1.655	1.765	-6.6	89	-0.02
11	C	1,4-Dichlorobenzene	1.702	1.840	-8.1	90	-0.02
12		Benzyl Alcohol	1.156	1.283	-11.0	90	-0.02
13	C	1,2-Dichlorobenzene	1.583	1.723	-8.8	91	-0.02
14		2-Methylphenol	1.420	1.583	-11.5	91	-0.02
15		bis(2-Chloroisopropyl)ether	1.844	1.801	2.3	78	-0.02
16		4-Methylphenol	2.107	2.335	-10.8	90	0.00
17	P	n-Nitrosodipropylamine	0.967	1.143	-18.2	94	0.00
18		Hexachloroethane	0.912	0.930	-2.0	84	-0.02
19	I	Naphthalene-d8	1.000	1.000	0.0	86	0.00
20	S	Nitrobenzene-d5	0.463	0.517	-11.7	91	0.00
21		Nitrobenzene	0.442	0.478	-8.1	88	-0.02
22		Isophorone	0.863	1.035	-19.9	99	-0.02
23	C	2-Nitrophenol	0.240	0.267	-11.3	92	-0.02
24		2,4-Dimethylphenol	0.404	0.456	-12.9	94	-0.02
25		bis(2-Chloroethoxy)methane	0.588	0.663	-12.8	94	0.00
26		Benzoic Acid	0.257	0.288	-12.1	92	0.00
27	C	2,4-Dichlorophenol	0.323	0.351	-8.7	91	0.00
28		1,2,4-Trichlorobenzene	0.322	0.340	-5.6	90	-0.02
29		Naphthalene	1.288	1.373	-6.6	90	0.00
30		4-Chloroaniline	0.490	0.556	-13.5	90	0.00
31	C	Hexachlorobutadiene	0.142	0.169	-19.0	104	0.00
32	C	4-Chloro-3-Methylphenol	0.404	0.447	-10.6	92	-0.02
33		2-Methylnaphthalene	0.719	0.762	-6.0	90	-0.02
34	I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.02
35		Hexachlorocyclopentadiene	0.214	0.305	-42.5#	111	-0.02
36	C	2,4,6-Trichlorophenol	0.333	0.373	-12.0	93	0.00
37		2,4,5-Trichlorophenol	0.350	0.422	-20.6	110	0.00
38	S	2-Fluorobiphenyl	1.293	1.531	-18.4	99	-0.02
39		2-Chloronaphthalene	1.292	1.399	-8.3	91	0.00

(#)=Out of Range
3M22915.D BNA.M Tue May 22 17:19:56 2001 HPMS3 Page 1

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Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.367	0.414	-12.8	88	-0.02
41		Dimethylphthalate	1.477	1.601	-8.4	91	-0.02
42		Acenaphthylene	1.998	2.332	-16.7	97	0.00
43		2,6-Dinitrotoluene	0.359	0.413	-15.0	92	0.00
44		3-Nitroaniline	0.413	0.482	-16.7	95	-0.02
45	C	Acenaphthene	1.263	1.422	-12.6	93	-0.02
46	P	2,4-Dinitrophenol	0.185	0.207	-11.9	93	0.00
47	P	4-Nitrophenol	0.253	0.285	-12.6	92	-0.02
48		Dibenzofuran	1.727	1.912	-10.7	93	0.00
49		2,4-Dinitrotoluene	0.466	0.537	-15.2	92	-0.02
50		Diethylphthalate	1.484	1.666	-12.3	94	0.00
51		Fluorene	1.379	1.525	-10.6	93	-0.02
52		4-Chlorophenyl Phenyl Ether	0.521	0.578	-10.9	94	-0.02
53		4-Nitroaniline	0.423	0.478	-13.0	92	-0.02
54		1,2-Diphenylhydrazine	1.750	1.984	-13.4	96	-0.02
55	S	2,4,6-Tribromophenol	0.146	0.171	-17.1	101	-0.02
56	I	Phenanthrene-d10	1.000	1.000	0.0	89	-0.02
57		4,6-Dinitro-2-Methylphenol	0.184	0.217	-17.9	102	0.00
58	C	n-Nitrosodiphenylamine	0.717	0.769	-7.3	93	-0.02
59		4-Bromophenyl Phenyl Ether	0.215	0.211	1.9	86	0.00
60		Hexachlorobenzene	0.234	0.258	-10.3	98	-0.02
61	C	Pentachlorophenol	0.145	0.171	-17.9	97	-0.02
62		Phenanthrene	1.355	1.437	-6.1	93	0.00
63		Anthracene	1.360	1.497	-10.1	95	0.00
64		Carbazole	1.332	1.414	-6.2	92	0.00
65		Di-n-Butyl Phthalate	1.953	2.105	-7.8	93	0.00
66	C	Fluoranthene	1.273	1.348	-5.9	92	-0.02
67	I	Chrysene-d12	1.000	1.000	0.0	93	-0.02
68		Benzidine	0.534	0.569	-6.6	120	-0.02
69		Pyrene	1.551	1.624	-4.7	95	-0.02
70	S	p-Terphenyl-d14	0.955	1.062	-11.2	100	-0.02
71		Butyl Benzyl Phthalate	1.072	1.173	-9.4	97	0.00
72		Benzo[a]anthracene	1.354	1.427	-5.4	97	-0.02
73		3,3'-Dichlorobenzidine	0.478	0.510	-6.7	104	-0.02
74		Chrysene	1.320	1.288	2.4	88	-0.02
75		bis(2-Ethylhexyl)phthalate	1.394	1.519	-9.0	95	0.00
76	I	Perylene-d12	1.000	1.000	0.0	93	-0.03
77	C	Di-n-Octyl Phthalate	1.994	2.200	-10.3	96	-0.02

(#)=Out of Range
3M22915.D BNA.M Tue May 22 17:20:03 2001 HPMS3 Page 2

Data File : C:\HPCHEM\1\DATA\052201\3M22915.D Vial: 8
Acq On : 22 May 2001 16:49 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 22 16:42:59 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.202	1.338	-11.3	95	-0.03
79		Benzo[k]fluoranthene	1.169	1.230	-5.2	102	-0.02
80	C	Benzo[a]pyrene	1.166	1.231	-5.6	95	-0.03
81		Indeno[1,2,3-cd]pyrene	1.240	1.402	-13.1	102	-0.04
82		Dibenz[ah]anthracene	0.761	1.150	-51.1#	137	-0.04
83		Benzo[ghi]perylene	1.118	1.210	-8.2	98	-0.04

Calibration Table Report
Method: BNA.M
Title: M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Calibration: Thu May 24 13:28:39 2001
HPMS5
Calibration Files

	Compound	3 5M17049.	10 5M17050.	20 5M17051.	50 5M17048.	80 5M17052.	100 5M17053.	120 5M17054.D	Avg	%RSD	R^2 value
I	1,4-Dichlorobenzene-d4	ISTD									
	Pyridine	0.920	1.162	1.318	1.344	1.297	1.342	1.328	1.245	12.6	
	n-Nitrosodimethylamine	0.613	0.668	0.737	0.756	0.734	0.758	0.753	0.717	7.7	
S	2-Fluorophenol	1.073	1.094	1.208	1.266	1.243	1.296	1.299	1.211	7.7	
	Aniline	0.724	0.723	0.769	0.774	0.734	0.759	0.759	0.749	2.8	
S	Phenol-d5	1.459	1.446	1.571	1.651	1.604	1.665	1.689	1.584	6.2	
C	Phenol	1.590	1.549	1.673	1.722	1.646	1.733	1.774	1.670	4.8	
	bis(2-Chloroethyl)ether	0.925	0.868	0.922	0.910	0.862	0.891	0.890	0.895	2.8	
	2-Chlorophenol	1.298	1.251	1.379	1.459	1.389	1.469	1.496	1.392	6.6	
	1,3-Dichlorobenzene	1.681	1.543	1.641	1.714	1.684	1.764	1.826	1.693	5.3	
C	1,4-Dichlorobenzene	1.735	1.640	1.746	1.789	1.747	1.856	1.910	1.775	5.0	
	Benzyl Alcohol	0.668	0.732	0.820	0.893	0.873	0.902	0.922	0.830	11.6	
	1,2-Dichlorobenzene	1.628	1.480	1.578	1.644	1.575	1.670	1.710	1.612	4.7	
	2-Methylphenol	0.908	0.950	1.014	1.047	1.012	1.072	1.093	1.014	6.5	
	bis(2-Chloroisopropyl)ether	1.623	1.482	1.544	1.503	1.444	1.496	1.501	1.513	3.7	
	4-Methylphenol	1.332	1.347	1.489	1.582	1.546	1.638	1.688	1.517	9.0	
P	n-Nitrosodipropylamine	0.861	0.858	0.925	0.920	0.871	0.905	0.907	0.892	3.2	
	Hexachloroethane	0.735	0.689	0.727	0.741	0.715	0.745	0.748	0.728	2.8	
I	Naphthalene-d8	ISTD									
S	Nitrobenzene-d5	0.377	0.385	0.411	0.414	0.389	0.400	0.404	0.397	3.4	
	Nitrobenzene	0.398	0.389	0.416	0.411	0.384	0.405	0.408	0.402	2.9	
	Isophorone	0.632	0.620	0.664	0.663	0.614	0.620	0.604	0.631	3.7	
C	2-Nitrophenol	0.168	0.175	0.204	0.220	0.233	0.263	0.275	0.220	18.6	QR=0.999
	2,4-Dimethylphenol	0.301	0.304	0.337	0.361	0.378	0.422	0.432	0.362	14.4	
	bis(2-Chloroethoxy)methane	0.400	0.389	0.414	0.421	0.407	0.437	0.451	0.417	5.1	
	Benzoic Acid		0.061	0.107	0.167	0.153	0.175	0.189	0.142	34.2	QR=0.994
C	2,4-Dichlorophenol	0.282	0.294	0.328	0.352	0.346	0.369	0.385	0.337	11.2	
	1,2,4-Trichlorobenzene	0.388	0.371	0.399	0.416	0.414	0.448	0.464	0.414	7.9	
	Naphthalene	1.109	1.049	1.131	1.169	1.170	1.272	1.322	1.175	8.0	
	4-Chloroaniline	0.385	0.412	0.451	0.469	0.470	0.500	0.519	0.458	10.2	
C	Hexachlorobutadiene	0.248	0.231	0.251	0.251	0.254	0.275	0.285	0.256	7.0	
C	4-Chloro-3-Methylphenol	0.251	0.268	0.297	0.312	0.296	0.307	0.309	0.291	7.9	
	2-Methylnaphthalene	0.699	0.678	0.741	0.793	0.821	0.894	0.925	0.793	11.9	
I	Acenaphthene-d10	ISTD									
P	Hexachlorocyclopentadiene	0.070	0.141	0.214	0.309	0.332	0.360	0.377	0.258	45.8	LR=0.995
C	2,4,6-Trichlorophenol	0.319	0.352	0.402	0.448	0.431	0.452	0.456	0.408	13.2	
	2,4,5-Trichlorophenol	0.355	0.380	0.430	0.475	0.442	0.465	0.479	0.432	11.2	
S	2-Fluorobiphenyl	1.312	1.241	1.340	1.426	1.434	1.539	1.558	1.407	8.3	
	2-Chloronaphthalene	1.197	1.144	1.258	1.329	1.335	1.426	1.460	1.307	8.8	
	2-Nitroaniline	0.292	0.325	0.343	0.356	0.349	0.355	0.359	0.340	7.1	
	Dimethylphthalate	1.236	1.195	1.294	1.442	1.442	1.519	1.566	1.385	10.4	
	Acenaphthylene	1.666	1.622	1.778	1.894	1.850	1.958	2.029	1.828	8.2	
	2,6-Dinitrotoluene	0.230	0.256	0.281	0.319	0.316	0.325	0.333	0.294	13.4	
	3-Nitroaniline	0.227	0.262	0.303	0.336	0.319	0.328	0.334	0.301	13.8	
C	Acenaphthene	1.081	1.060	1.170	1.288	1.317	1.432	1.476	1.261	13.0	
P	2,4-Dinitrophenol		0.035	0.081	0.149	0.164	0.184	0.196	0.135	46.9	QR=0.999
P	4-Nitrophenol		0.188	0.231	0.246	0.248	0.253	0.257	0.237	10.8	
	Dibenzofuran	1.621	1.542	1.678	1.726	1.794	1.956	2.070	1.770	10.6	
	2,4-Dinitrotoluene	0.286	0.336	0.390	0.430	0.423	0.445	0.461	0.396	16.1	LR=0.998
	Diethylphthalate	1.211	1.216	1.341	1.422	1.427	1.516	1.584	1.388	10.2	
	Fluorene	1.269	1.235	1.366	1.484	1.594	1.723	1.773	1.492	14.3	
	4-Chlorophenyl Phenyl Ether	0.627	0.607	0.666	0.746	0.792	0.873	0.914	0.746	16.1	QR=1.000
	4-Nitroaniline		0.263	0.305	0.328	0.329	0.330	0.328	0.314	8.5	
	1,2-Diphenylhydrazine	1.347	1.321	1.423	1.442	1.454	1.495	1.514	1.428	5.0	
S	2,4,6-Tribromophenol	0.117	0.134	0.166	0.218	0.230	0.259	0.285	0.201	31.7	QR=0.999
I	Phenanthrene-d10	ISTD									
	4,6-Dinitro-2-Methylphenol			0.118	0.151	0.150	0.164	0.172	0.151	13.7	

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Calibration Table Report
Method: BNA.M
Title: M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Calibration: Thu May 24 13:28:39 2001
HPMS5
Calibration Files

	Compound	3 5M17049.	10 5M17050.	20 5M17051.	50 5M17048.	80 5M17052.	100 5M17053.	120 5M17054.D	Avg	%RSD	R^2 value
C	n-Nitrosodiphenylamine	0.516	0.502	0.580	0.602	0.583	0.624	0.644	0.579	9.1	
	4-Bromophenyl Phenyl Ether	0.220	0.213	0.242	0.275	0.274	0.303	0.319	0.264	15.4	QR=0.999
	Hexachlorobenzene	0.240	0.236	0.270	0.308	0.309	0.354	0.368	0.298	17.4	QR=0.998
C	Pentachlorophenol		0.068	0.105	0.150	0.146	0.159	0.170	0.133	29.1	LR=0.995
	Phenanthrene	1.235	1.171	1.314	1.361	1.353	1.460	1.473	1.338	8.2	
	Anthracene	1.173	1.139	1.290	1.329	1.321	1.423	1.450	1.304	8.9	
	Carbazole	1.074	1.030	1.119	1.142	1.112	1.209	1.232	1.131	6.3	
	Di-n-Butyl Phthalate	1.249	1.248	1.391	1.474	1.421	1.500	1.533	1.402	8.2	
C	Fluoranthene	1.345	1.331	1.526	1.623	1.649	1.738	1.702	1.559	10.6	
I	Chrysene-d12	ISTD									
	Benzidine	0.402	0.386	0.363	0.393	0.333	0.353	0.340	0.367	7.3	
	Pyrene	1.328	1.276	1.402	1.543	1.523	1.584	1.533	1.456	8.2	
S	p-Terphenyl-d14	0.860	0.853	0.981	1.127	1.130	1.166	1.120	1.034	13.0	
	Butyl Benzyl Phthalate	0.507	0.517	0.565	0.614	0.563	0.585	0.592	0.563	7.0	
	Benzo[a]anthracene	1.258	1.193	1.303	1.457	1.382	1.440	1.432	1.352	7.5	
	3,3'-Dichlorobenzidine	0.313	0.259	0.248	0.319	0.323	0.338	0.357	0.308	13.0	
	Chrysene	1.117	1.095	1.239	1.334	1.309	1.363	1.359	1.259	9.0	
	bis(2-Ethylhexyl)phthalate	0.724	0.677	0.738	0.811	0.740	0.756	0.770	0.745	5.6	
I	Perylene-d12	ISTD									
C	Di-n-Octyl Phthalate	1.114	1.184	1.375	1.570	1.504	1.547	1.566	1.408	13.5	
	Benzo[b]fluoranthene	1.073	1.059	1.284	1.550	1.506	1.499	1.542	1.359	16.1	LR=0.999
	Benzo[k]fluoranthene	1.113	1.131	1.250	1.442	1.444	1.519	1.603	1.357	14.2	
C	Benzo[a]pyrene	0.940	0.960	1.095	1.295	1.295	1.383	1.407	1.197	16.4	LR=0.998
	Indeno[1,2,3-cd]pyrene	0.745	0.812	0.966	1.198	0.998	1.019	1.015	0.965	15.4	QR=0.995
	Dibenz[ah]anthracene	0.458	0.497	0.606	0.764	0.654	0.669	0.674	0.617	17.3	LR=0.995
	Benzo[ghi]perylene	0.638	0.677	0.779	0.889	0.682	0.698	0.675	0.720	12.0	

Thu May 24 13:41:27 2001

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Data File : C:\HPCHEM\1\DATA\052401\5M17048.D Vial: 3
Acq On : 24 May 2001 10:03 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:45 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	126688	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	477449	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	277570	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	478035	40.00	ug/mL	0.00
67) Chrysene-d12	15.62	240	524436	40.00	ug/mL	0.00
76) Perylene-d12	17.75	264	419169	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	200410	53.06	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 53.06%			
6) Phenol-d5	7.87	99	261421	53.91	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 53.91%			
20) Nitrobenzene-d5	8.84	82	246833	53.13	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 106.26%			
38) 2-Fluorobiphenyl	10.64	172	494874	50.57	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 101.14%			
55) 2,4,6-Tribromophenol	12.18	330	75492	55.94	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 55.94%			
70) p-Terphenyl-d14	14.47	244	738767	56.18	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 112.36%			
Target Compounds						Qvalue
2) Pyridine	5.13	79	212898	55.68	ug/mL	99
3) n-Nitrosodimethylamine	5.12	74	119729	53.43	ug/mL#	97
5) Aniline	7.94	66	122509	50.94	ug/mL	98
7) Phenol	7.88	94	272754	53.66	ug/mL	99
8) bis(2-Chloroethyl)ether	7.98	63	144084	51.31	ug/mL	99
9) 2-Chlorophenol	8.06	128	231081	53.57	ug/mL	99
10) 1,3-Dichlorobenzene	8.21	146	271491	50.87	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	283326	50.17	ug/mL	100
12) Benzyl Alcohol	8.39	108	141481	57.87	ug/mL	98
13) 1,2-Dichlorobenzene	8.45	146	260416	50.94	ug/mL	100
14) 2-Methylphenol	8.49	107	165799	53.16	ug/mL	94
15) bis(2-Chloroisopropyl)ethe	8.51	45	237962	49.34	ug/mL	98
16) 4-Methylphenol	8.63	107	250540	53.97	ug/mL	99
17) n-Nitrosodipropylamine	8.65	70	145641	53.23	ug/mL	100
18) Hexachloroethane	8.78	117	117398	50.45	ug/mL	99
21) Nitrobenzene	8.86	77	245393	52.12	ug/mL	100
22) Isophorone	9.08	82	395481	52.54	ug/mL	99
23) 2-Nitrophenol	9.18	139	131121	52.99	ug/mL	99
24) 2,4-Dimethylphenol	9.17	122	215536	52.50	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17048.D Vial: 3
Acq On : 24 May 2001 10:03 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:45 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	bis(2-Chloroethoxy)methane	9.27	93	251480	51.16	ug/mL	100
26)	Benzoic Acid	9.25	122	99854	60.29	ug/mL	98
27)	2,4-Dichlorophenol	9.41	162	209784	54.69	ug/mL	100
28)	1,2,4-Trichlorobenzene	9.50	180	248416	51.03	ug/mL	100
29)	Naphthalene	9.59	128	697642	50.39	ug/mL	100
30)	4-Chloroaniline	9.64	127	279958	51.62	ug/mL	100
31)	Hexachlorobutadiene	9.69	225	149845	48.37	ug/mL	100
32)	4-Chloro-3-Methylphenol	10.08	107	186049	55.38	ug/mL	99
33)	2-Methylnaphthalene	10.28	142	472980	50.51	ug/mL	100
35)	Hexachlorocyclopentadiene	10.44	237	107330	67.44	ug/mL	99
36)	2,4,6-Trichlorophenol	10.57	196	155476	57.72	ug/mL	100
37)	2,4,5-Trichlorophenol	10.61	196	164893	56.82	ug/mL	100
39)	2-Chloronaphthalene	10.79	162	461191	51.31	ug/mL	100
40)	2-Nitroaniline	10.90	65	123533	53.89	ug/mL	99
41)	Dimethylphthalate	11.04	163	500218	52.05	ug/mL	100
42)	Acenaphthylene	11.23	152	657180	51.63	ug/mL	100
43)	2,6-Dinitrotoluene	11.14	165	110769	55.32	ug/mL	99
44)	3-Nitroaniline	11.32	138	116426	57.40	ug/mL	100
45)	Acenaphthene	11.40	154	446781	51.44	ug/mL	100
46)	2,4-Dinitrophenol	11.42	184	51640	51.01	ug/mL#	99
47)	4-Nitrophenol	11.45	65	85204	62.19	ug/mL	98
48)	Dibenzofuran	11.57	168	598805	48.60	ug/mL	100
49)	2,4-Dinitrotoluene	11.55	165	149263	54.23	ug/mL	99
50)	Diethylphthalate	11.74	149	493461	51.20	ug/mL	100
51)	Fluorene	11.92	166	514777	49.79	ug/mL	100
52)	4-Chlorophenyl Phenyl Ethe	11.88	204	258685	50.90	ug/mL	99
53)	4-Nitroaniline	11.95	138	113705	58.14	ug/mL	95
54)	1,2-Diphenylhydrazine	12.05	77	500154	50.34	ug/mL	100
57)	4,6-Dinitro-2-Methylphenol	11.97	198	90470	56.98	ug/mL	99
58)	n-Nitrosodiphenylamine	12.01	169	359597	52.28	ug/mL	100
59)	4-Bromophenyl Phenyl Ether	12.39	248	164327	53.45	ug/mL	100
60)	Hexachlorobenzene	12.50	284	184076	52.47	ug/mL	100
61)	Pentachlorophenol	12.69	266	89762	63.35	ug/mL	100
62)	Phenanthrene	12.92	178	813368	51.09	ug/mL	100
63)	Anthracene	12.96	178	794026	50.92	ug/mL	100
64)	Carbazole	13.12	167	682359	53.09	ug/mL	100
65)	Di-n-Butyl Phthalate	13.38	149	880770	52.30	ug/mL	100
66)	Fluoranthene	14.14	202	969981	52.20	ug/mL	100
68)	Benzidine	14.24	184	257607	62.70	ug/mL	100
69)	Pyrene	14.39	202	1011663	55.01	ug/mL	100
71)	Butyl Benzyl Phthalate	14.92	149	402506	54.65	ug/mL	99

(#) = qualifier out of range (m) = manual integration
5M17048.D BNA.M Thu May 24 10:46:03 2001 HPMS5 Page 2

Data File : C:\HPCHEM\1\DATA\052401\5M17048.D
Acq On : 24 May 2001 10:03
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 24 10:45 2001

Vial: 3
Operator: CLK
Inst : HPMS5
Multiplr: 1.00

Quant Results File: BNA.RES

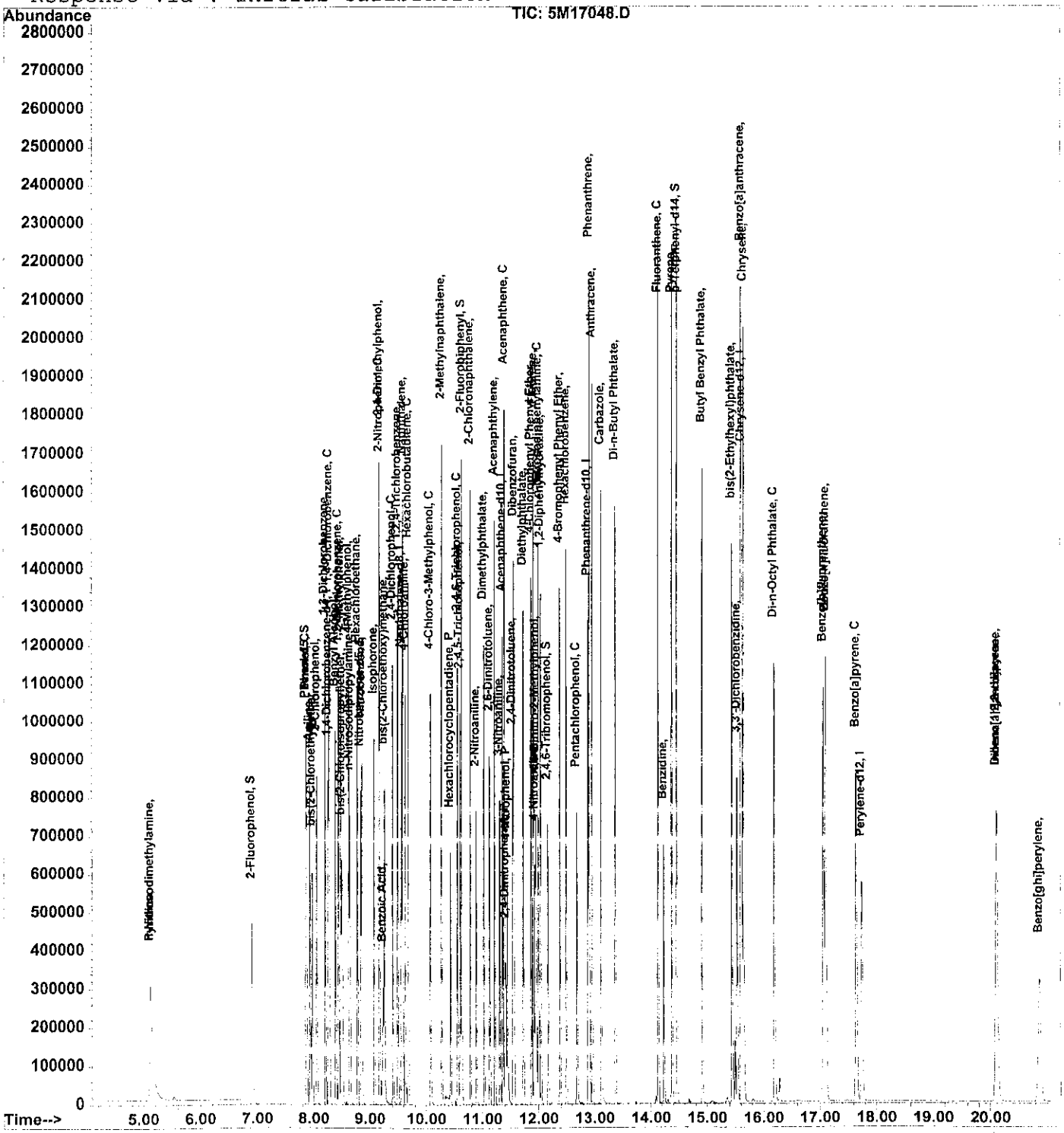
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo[a]anthracene	15.61	228	955206	54.02	ug/mL	100
73) 3,3'-Dichlorobenzidine	15.54	252	209036	45.63	ug/mL	99
74) Chrysene	15.66	228	874422	53.11	ug/mL	100
75) bis(2-Ethylhexyl)phthalate	15.45	149	531755	54.35	ug/mL	100
77) Di-n-Octyl Phthalate	16.20	149	822484	54.62	ug/mL	98
78) Benzo[b]fluoranthene	17.07	252	812401	55.42	ug/mL	98
79) Benzo[k]fluoranthene	17.11	252	755663	52.62	ug/mL	97
80) Benzo[a]pyrene	17.65	252	678747	53.74	ug/mL	99
81) Indeno[1,2,3-cd]pyrene	20.12	276	627914	59.00	ug/mL	99
82) Dibenz[ah]anthracene	20.13	278	400053	59.02	ug/mL	100
83) Benzo[ghi]perylene	20.88	276	465878	58.69	ug/mL	99

(#) = qualifier out of range (m) = manual integration
5M17048.D BNA.M Thu May 24 10:46:03 2001 HPMS5

Data File : C:\HPCHEM\1\DATA\052401\5M17048.D Vial: 3
Acq On : 24 May 2001 10:03 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:45 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17049.D Vial: 4
Acq On : 24 May 2001 10:33 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:54 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	126216	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	474734	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	277023	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	458341	40.00	ug/mL	0.00
67) Chrysene-d12	15.62	240	485537	40.00	ug/mL	0.00
76) Perylene-d12	17.75	264	397601	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.92	112	10161	2.70	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery =	2.70%#		
6) Phenol-d5	7.87	99	13807	2.86	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery =	2.86%#		
20) Nitrobenzene-d5	8.84	82	13434	2.91	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery =	5.82%#		
38) 2-Fluorobiphenyl	10.64	172	27265	2.79	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	5.58%#		
55) 2,4,6-Tribromophenol	12.18	330	2423	1.80	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery =	1.80%#		
70) p-Terphenyl-d14	14.47	244	31317	2.57	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery =	5.14%#		
Target Compounds						Qvalue
2) Pyridine	5.22	79	8712	2.29	ug/mL#	86
3) n-Nitrosodimethylamine	5.13	74	5800	2.60	ug/mL#	88
5) Aniline	7.94	66	6854	2.86	ug/mL	96
7) Phenol	7.88	94	15050	2.97	ug/mL	98
8) bis(2-Chloroethyl)ether	7.98	63	8758	3.13	ug/mL	95
9) 2-Chlorophenol	8.06	128	12284	2.86	ug/mL	97
10) 1,3-Dichlorobenzene	8.21	146	15917	2.99	ug/mL	99
11) 1,4-Dichlorobenzene	8.28	146	16427	2.92	ug/mL#	93
12) Benzyl Alcohol	8.39	108	6325	2.60	ug/mL	93
13) 1,2-Dichlorobenzene	8.45	146	15413	3.03	ug/mL	99
14) 2-Methylphenol	8.49	107	8600	2.77	ug/mL#	86
15) bis(2-Chloroisopropyl)ethe	8.51	45	15364	3.20	ug/mL	96
16) 4-Methylphenol	8.63	107	12609	2.73	ug/mL	98
17) n-Nitrosodipropylamine	8.65	70	8149	2.99	ug/mL#	95
18) Hexachloroethane	8.78	117	6953	3.00	ug/mL	97
21) Nitrobenzene	8.86	77	14165	3.03	ug/mL	93
22) Isophorone	9.08	82	22502	3.01	ug/mL	97
23) 2-Nitrophenol	9.18	139	5992	2.44	ug/mL	92
24) 2,4-Dimethylphenol	9.17	122	10733	2.63	ug/mL	97

(#) = qualifier out of range (m) = manual integration
5M17049.D BNA.M Thu May 24 10:54:46 2001 HPMS5 Page 1

Data File : C:\HPCHEM\1\DATA\052401\5M17049.D
Acq On : 24 May 2001 10:33
Sample : 3PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 24 10:54 2001

Vial: 4
Operator: CLK
Inst : HPMS5
Multiplr: 1.00
Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	14239	2.91 ug/mL#	95
~~26) Benzoic Acid~~	~~9.17~~	~~122~~	~~10733~~	~~6.52 ug/mL#~~	15
27) 2,4-Dichlorophenol	9.42	162	10057	2.64 ug/mL	96
28) 1,2,4-Trichlorobenzene	9.50	180	13819	2.85 ug/mL	98
29) Naphthalene	9.59	128	39481	2.87 ug/mL	100
30) 4-Chloroaniline	9.64	127	13713	2.54 ug/mL	97
31) Hexachlorobutadiene	9.69	225	8834	2.87 ug/mL	99
32) 4-Chloro-3-Methylphenol	10.09	107	8954	2.68 ug/mL	98
33) 2-Methylnaphthalene	10.28	142	24898	2.67 ug/mL	99
35) Hexachlorocyclopentadiene	10.44	237	1451	0.91 ug/mL#	86
36) 2,4,6-Trichlorophenol	10.57	196	6628	2.47 ug/mL	97
37) 2,4,5-Trichlorophenol	10.61	196	7381	2.55 ug/mL	97
39) 2-Chloronaphthalene	10.79	162	24862	2.77 ug/mL	99
40) 2-Nitroaniline	10.90	65	6062	2.65 ug/mL	91
41) Dimethylphthalate	11.04	163	25690	2.68 ug/mL	99
42) Acenaphthylene	11.22	152	34605	2.72 ug/mL	98
43) 2,6-Dinitrotoluene	11.13	165	4780	2.39 ug/mL	92
44) 3-Nitroaniline	11.32	138	4715	2.33 ug/mL#	91
45) Acenaphthene	11.40	154	22456	2.59 ug/mL	93
47) 4-Nitrophenol	11.46	65	2153	1.57 ug/mL#	78
48) Dibenzofuran	11.56	168	33687	2.74 ug/mL	98
49) 2,4-Dinitrotoluene	11.55	165	5939	2.16 ug/mL#	75
50) Diethylphthalate	11.74	149	25161	2.62 ug/mL	98
51) Fluorene	11.92	166	26365	2.56 ug/mL	99
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	13022	2.57 ug/mL	96
53) 4-Nitroaniline	11.94	138	4182	2.14 ug/mL#	83
54) 1,2-Diphenylhydrazine	12.05	77	27981	2.82 ug/mL	94
57) 4,6-Dinitro-2-Methylphenol	11.97	198	1188	0.78 ug/mL#	80
58) n-Nitrosodiphenylamine	12.01	169	17740	2.69 ug/mL	99
59) 4-Bromophenyl Phenyl Ether	12.39	248	7564	2.57 ug/mL	94
60) Hexachlorobenzene	12.50	284	8255	2.45 ug/mL	93
61) Pentachlorophenol	12.70	266	1060	0.78 ug/mL#	57
62) Phenanthrene	12.92	178	42466	2.78 ug/mL	100
63) Anthracene	12.96	178	40331	2.70 ug/mL	99
64) Carbazole	13.12	167	36917	3.00 ug/mL	98
65) Di-n-Butyl Phthalate	13.38	149	42944	2.66 ug/mL	99
66) Fluoranthene	14.14	202	46233	2.59 ug/mL	98
68) Benzidine	14.24	184	14629	3.85 ug/mL	100
69) Pyrene	14.38	202	48361	2.84 ug/mL	98
71) Butyl Benzyl Phthalate	14.92	149	18446	2.71 ug/mL	96
72) Benzo[a]anthracene	15.61	228	45828	2.80 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17049.D Vial: 4
Acq On : 24 May 2001 10:33 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:54 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
73) 3,3'-Dichlorobenzidine	15.54	252	11382	2.68	ug/mL	100
74) Chrysene	15.65	228	40682	2.67	ug/mL	99
75) bis(2-Ethylhexyl)phthalate	15.45	149	26360	2.91	ug/mL#	97
77) Di-n-Octyl Phthalate	16.20	149	33211	2.33	ug/mL#	97
78) Benzo[b]fluoranthene	17.06	252	31992	2.30	ug/mL	98
79) Benzo[k]fluoranthene	17.10	252	33181	2.44	ug/mL	99
80) Benzo[a]pyrene	17.64	252	28042	2.34	ug/mL	100
81) Indeno[1,2,3-cd]pyrene	20.11	276	22211	2.20	ug/mL	95
82) Dibenz[ah]anthracene	20.12	278	13649	2.12	ug/mL#	89
83) Benzo[ghi]perylene	20.86	276	19022	2.53	ug/mL	95

(#) = qualifier out of range (m) = manual integration
5M17049.D BNA.M Thu May 24 10:54:47 2001 HPMS5 Page 3

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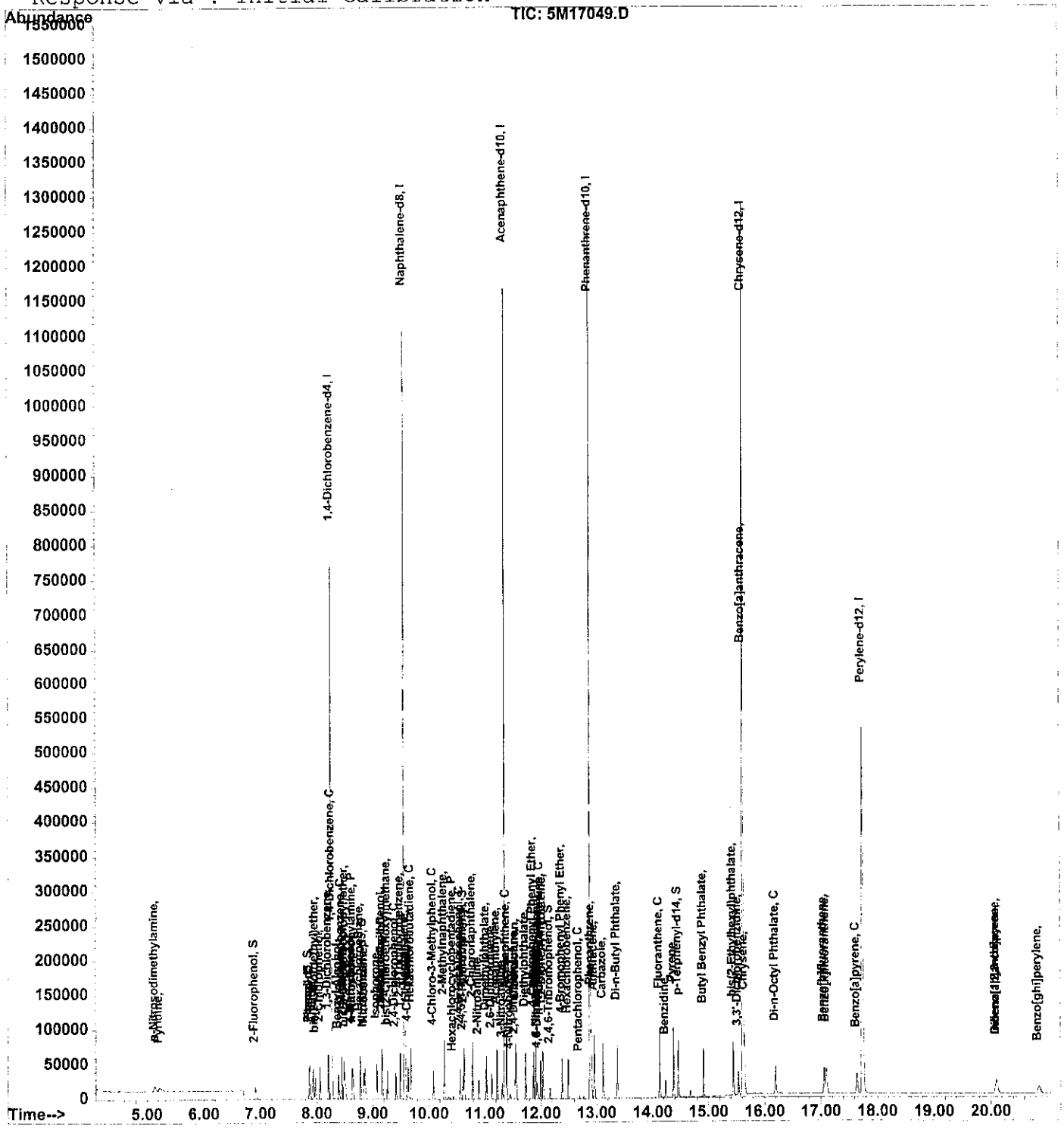
Data File : C:\HPCHEM\1\DATA\052401\5M17049.D Vial: 4
Acq On : 24 May 2001 10:33 Operator: CLK
Sample : 3PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 10:54 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17050.D Vial: 5
Acq On : 24 May 2001 11:03 Operator: CLK
Sample : 10PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:24 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	121713	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	455302	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	269340	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	453476	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	490531	40.00	ug/mL	0.00
76) Perylene-d12	17.75	264	400201	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	33274	9.17	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 9.17%#			
6) Phenol-d5	7.87	99	44007	9.45	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 9.45%#			
20) Nitrobenzene-d5	8.84	82	43810	9.89	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 19.78%#			
38) 2-Fluorobiphenyl	10.64	172	83530	8.80	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 17.60%#			
55) 2,4,6-Tribromophenol	12.17	330	9039	6.90	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 6.90%#			
70) p-Terphenyl-d14	14.47	244	104637	8.51	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 17.02%#			
Target Compounds						Qvalue
2) Pyridine	5.17	79	35361	9.63	ug/mL	98
3) n-Nitrosodimethylamine	5.13	74	20331	9.44	ug/mL#	93
5) Aniline	7.94	66	22009	9.53	ug/mL	98
7) Phenol	7.88	94	47129	9.65	ug/mL	97
8) bis(2-Chloroethyl)ether	7.98	63	26418	9.79	ug/mL	99
9) 2-Chlorophenol	8.06	128	38056	9.18	ug/mL	97
10) 1,3-Dichlorobenzene	8.21	146	46940	9.15	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	49890	9.19	ug/mL	99
12) Benzyl Alcohol	8.39	108	22288	9.49	ug/mL	96
13) 1,2-Dichlorobenzene	8.45	146	45044	9.17	ug/mL	99
14) 2-Methylphenol	8.49	107	28922	9.65	ug/mL	94
15) bis(2-Chloroisopropyl)ethe	8.51	45	45099	9.73	ug/mL	98
16) 4-Methylphenol	8.63	107	40976	9.19	ug/mL	99
17) n-Nitrosodipropylamine	8.65	70	26122	9.94	ug/mL	98
18) Hexachloroethane	8.78	117	20977	9.38	ug/mL	97
21) Nitrobenzene	8.86	77	44295	9.86	ug/mL	96
22) Isophorone	9.08	82	70522	9.82	ug/mL	98
23) 2-Nitrophenol	9.18	139	19890	8.43	ug/mL	89
24) 2,4-Dimethylphenol	9.17	122	34556	8.83	ug/mL	98

(#) = qualifier out of range (m) = manual integration
5M17050.D BNA.M Thu May 24 11:24:41 2001 HPMS5 Page 1

Data File : C:\HPCHEM\1\DATA\052401\5M17050.D Vial: 5
Acq On : 24 May 2001 11:03 Operator: CLK
Sample : 10PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:24 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	bis(2-Chloroethoxy)methane	9.27	93	44258	9.44	ug/mL#	97
26)	Benzoic Acid	9.23	122	6954	4.40	ug/mL	98
27)	2,4-Dichlorophenol	9.41	162	33479	9.15	ug/mL	99
28)	1,2,4-Trichlorobenzene	9.50	180	42184	9.09	ug/mL	100
29)	Naphthalene	9.59	128	119385	9.04	ug/mL	99
30)	4-Chloroaniline	9.64	127	46880	9.06	ug/mL	99
31)	Hexachlorobutadiene	9.69	225	26343	8.92	ug/mL	99
32)	4-Chloro-3-Methylphenol	10.09	107	30483	9.52	ug/mL	97
33)	2-Methylnaphthalene	10.28	142	77192	8.64	ug/mL	98
35)	Hexachlorocyclopentadiene	10.44	237	9527	6.17	ug/mL	97
36)	2,4,6-Trichlorophenol	10.57	196	23723	9.08	ug/mL	99
37)	2,4,5-Trichlorophenol	10.61	196	25567	9.08	ug/mL	97
39)	2-Chloronaphthalene	10.79	162	77018	8.83	ug/mL	100
40)	2-Nitroaniline	10.90	65	21861	9.83	ug/mL	93
41)	Dimethylphthalate	11.04	163	80437	8.63	ug/mL	100
42)	Acenaphthylene	11.22	152	109218	8.84	ug/mL	99
43)	2,6-Dinitrotoluene	11.13	165	17211	8.86	ug/mL	93
44)	3-Nitroaniline	11.31	138	17663	8.97	ug/mL	93
45)	Acenaphthene	11.40	154	71394	8.47	ug/mL	96
46)	2,4-Dinitrophenol	11.43	184	2387	2.43	ug/mL#	1
47)	4-Nitrophenol	11.45	65	12682	9.54	ug/mL	89
48)	Dibenzofuran	11.57	168	103811	8.68	ug/mL	98
49)	2,4-Dinitrotoluene	11.55	165	22608	8.47	ug/mL	86
50)	Diethylphthalate	11.74	149	81848	8.75	ug/mL	99
51)	Fluorene	11.92	166	83134	8.29	ug/mL	100
52)	4-Chlorophenyl Phenyl Ethe	11.88	204	40878	8.29	ug/mL	98
53)	4-Nitroaniline	11.94	138	17695	9.32	ug/mL	96
54)	1,2-Diphenylhydrazine	12.05	77	88924	9.22	ug/mL	96
57)	4,6-Dinitro-2-Methylphenol	11.97	198	9396	6.24	ug/mL#	89
58)	n-Nitrosodiphenylamine	12.00	169	56904	8.72	ug/mL	100
59)	4-Bromophenyl Phenyl Ether	12.39	248	24104	8.26	ug/mL	95
60)	Hexachlorobenzene	12.50	284	26761	8.04	ug/mL	93
61)	Pentachlorophenol	12.70	266	7738	5.76	ug/mL	97
62)	Phenanthrene	12.92	178	132799	8.79	ug/mL	100
63)	Anthracene	12.96	178	129075	8.73	ug/mL	100
64)	Carbazole	13.12	167	116796	9.58	ug/mL	99
65)	Di-n-Butyl Phthalate	13.38	149	141460	8.85	ug/mL	100
66)	Fluoranthene	14.13	202	150845	8.56	ug/mL	99
68)	Benzidine	14.24	184	47379	12.33	ug/mL	100
69)	Pyrene	14.38	202	156443	9.09	ug/mL	99
71)	Butyl Benzyl Phthalate	14.92	149	63394	9.20	ug/mL	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17050.D Vial: 5
Acq On : 24 May 2001 11:03 Operator: CLK
Sample : 10PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:24 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72) Benzo[a]anthracene	15.61	228	146340	8.85 ug/mL	99
73) 3,3'-Dichlorobenzidine	15.54	252	31776	7.42 ug/mL	98
74) Chrysene	15.65	228	134285	8.72 ug/mL	99
75) bis(2-Ethylhexyl)phthalate	15.45	149	82963	9.07 ug/mL	98
77) Di-n-Octyl Phthalate	16.20	149	118473	8.24 ug/mL	98
78) Benzo[b]fluoranthene	17.07	252	105968	7.57 ug/mL	99
79) Benzo[k]fluoranthene	17.10	252	113143	8.25 ug/mL	100
80) Benzo[a]pyrene	17.65	252	96062	7.97 ug/mL	99
81) Indeno[1,2,3-cd]pyrene	20.11	276	81275	8.00 ug/mL	99
82) Dibenz[ah]anthracene	20.11	278	49773	7.69 ug/mL	99
83) Benzo[ghi]perylene	20.87	276	67723	8.94 ug/mL	98

(#) = qualifier out of range (m) = manual integration
5M17050.D BNA.M Thu May 24 11:24:42 2001 HPMS5 Page 3

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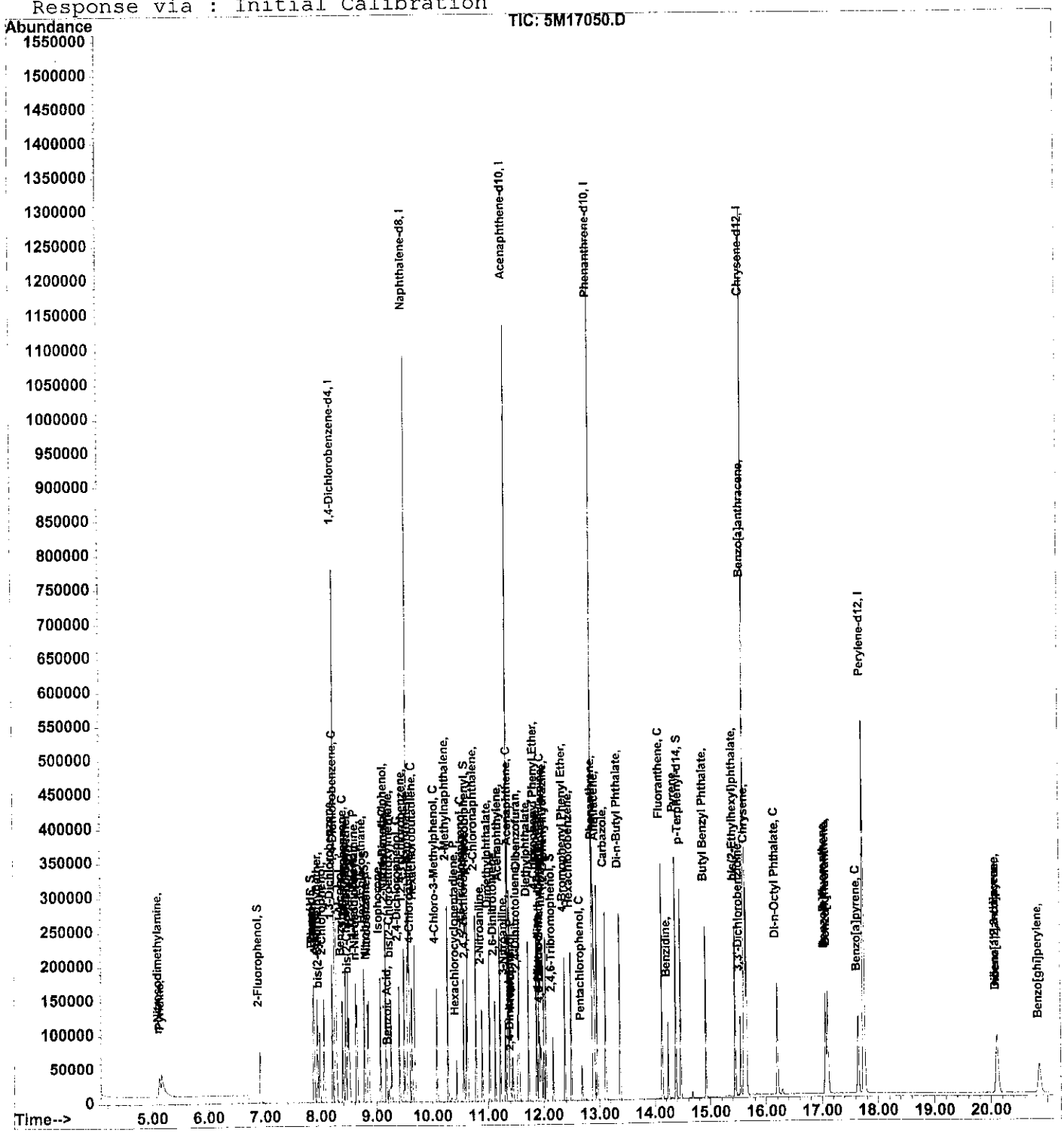
Data File : C:\HPCHEM\1\DATA\052401\5M17050.D Vial: 5
Acq On : 24 May 2001 11:03 Operator: CLK
Sample : 10PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:24 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17051.D Vial: 6
Acq On : 24 May 2001 11:33 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:54 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 11:30:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	125843	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	473129	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	278605	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	459341	40.00	ug/mL	0.00
67) Chrysene-d12	15.62	240	519926	40.00	ug/mL	0.00
76) Perylene-d12	17.75	264	412762	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	75992	20.25	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 20.25%#			
6) Phenol-d5	7.87	99	98832	20.52	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 20.52%			
20) Nitrobenzene-d5	8.84	82	97137	21.10	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 42.20%			
38) 2-Fluorobiphenyl	10.64	172	186660	19.00	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 38.00%#			
55) 2,4,6-Tribromophenol	12.17	330	23094	17.05	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 17.05%			
70) p-Terphenyl-d14	14.47	244	255101	19.57	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 39.14%			
Target Compounds						Qvalue
2) Pyridine	5.15	79	82942	21.84	ug/mL	99
3) n-Nitrosodimethylamine	5.12	74	46396	20.84	ug/mL	94
5) Aniline	7.94	66	48376	20.25	ug/mL	99
7) Phenol	7.88	94	105253	20.84	ug/mL	97
8) bis(2-Chloroethyl)ether	7.98	63	57994	20.79	ug/mL	99
9) 2-Chlorophenol	8.06	128	86787	20.25	ug/mL	98
10) 1,3-Dichlorobenzene	8.21	146	103250	19.48	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	109833	19.58	ug/mL	100
12) Benzyl Alcohol	8.39	108	51612	21.25	ug/mL	97
13) 1,2-Dichlorobenzene	8.45	146	99314	19.56	ug/mL	99
14) 2-Methylphenol	8.49	107	63830	20.60	ug/mL	92
15) bis(2-Chloroisopropyl)ethe	8.51	45	97181	20.28	ug/mL#	88
16) 4-Methylphenol	8.63	107	93709	20.32	ug/mL	99
17) n-Nitrosodipropylamine	8.65	70	58203	21.42	ug/mL	98
18) Hexachloroethane	8.78	117	45728	19.78	ug/mL	99
21) Nitrobenzene	8.86	77	98349	21.08	ug/mL	97
22) Isophorone	9.08	82	157077	21.06	ug/mL	99
23) 2-Nitrophenol	9.18	139	48191	19.65	ug/mL	94
24) 2,4-Dimethylphenol	9.17	122	79751	19.60	ug/mL	99

(#) = qualifier out of range (m) = manual integration
5M17051.D BNA.M Thu May 24 11:54:40 2001 HPMS5 Page 1

Data File : C:\HPCHEM\1\DATA\052401\5M17051.D Vial: 6
Acq On : 24 May 2001 11:33 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:54 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 11:30:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	97993	20.12	ug/mL#	97
26) Benzoic Acid	9.23	122	25361	15.45	ug/mL	97
27) 2,4-Dichlorophenol	9.41	162	77597	20.42	ug/mL	100
28) 1,2,4-Trichlorobenzene	9.50	180	94301	19.55	ug/mL	100
29) Naphthalene	9.59	128	267506	19.50	ug/mL	100
30) 4-Chloroaniline	9.64	127	106807	19.87	ug/mL	99
31) Hexachlorobutadiene	9.69	225	59312	19.32	ug/mL	99
32) 4-Chloro-3-Methylphenol	10.09	107	70352	21.13	ug/mL	98
33) 2-Methylnaphthalene	10.28	142	175341	18.90	ug/mL	99
35) Hexachlorocyclopentadiene	10.44	237	29865	18.70	ug/mL	99
36) 2,4,6-Trichlorophenol	10.57	196	55994	20.71	ug/mL	100
37) 2,4,5-Trichlorophenol	10.61	196	59912	20.57	ug/mL	100
39) 2-Chloronaphthalene	10.79	162	175254	19.43	ug/mL	100
40) 2-Nitroaniline	10.90	65	47842	20.79	ug/mL	96
41) Dimethylphthalate	11.04	163	180283	18.69	ug/mL	100
42) Acenaphthylene	11.22	152	247690	19.39	ug/mL	100
43) 2,6-Dinitrotoluene	11.13	165	39123	19.47	ug/mL	94
44) 3-Nitroaniline	11.31	138	42140	20.70	ug/mL	96
45) Acenaphthene	11.40	154	162939	18.69	ug/mL	99
46) 2,4-Dinitrophenol	11.42	184	11233	11.06	ug/mL#	78
47) 4-Nitrophenol	11.45	65	32193	23.41	ug/mL	90
48) Dibenzofuran	11.56	168	233732	18.90	ug/mL	100
49) 2,4-Dinitrotoluene	11.55	165	54331	19.67	ug/mL	90
50) Diethylphthalate	11.74	149	186736	19.30	ug/mL	99
51) Fluorene	11.92	166	190262	18.33	ug/mL	100
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	92822	18.20	ug/mL	98
53) 4-Nitroaniline	11.94	138	42459	21.63	ug/mL	95
54) 1,2-Diphenylhydrazine	12.05	77	198183	19.87	ug/mL	97
57) 4,6-Dinitro-2-Methylphenol	11.97	198	27032	17.72	ug/mL	92
58) n-Nitrosodiphenylamine	12.01	169	133176	20.15	ug/mL	99
59) 4-Bromophenyl Phenyl Ether	12.39	248	55545	18.80	ug/mL	96
60) Hexachlorobenzene	12.51	284	62020	18.40	ug/mL	95
61) Pentachlorophenol	12.69	266	24055	17.67	ug/mL	97
62) Phenanthrene	12.92	178	301894	19.73	ug/mL	100
63) Anthracene	12.96	178	296263	19.77	ug/mL	100
64) Carbazole	13.12	167	257058	20.81	ug/mL	99
65) Di-n-Butyl Phthalate	13.38	149	319518	19.74	ug/mL	99
66) Fluoranthene	14.14	202	350519	19.63	ug/mL	99
68) Benzidine	14.24	184	94263	23.14	ug/mL	100
69) Pyrene	14.38	202	364444	19.99	ug/mL	100
71) Butyl Benzyl Phthalate	14.93	149	146848	20.11	ug/mL	96

(#) = qualifier out of range (m) = manual integration
5M17051.D BNA.M Thu May 24 11:54:41 2001 HPMS5 Page 2

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Data File : C:\HPCHEM\1\DATA\052401\5M17051.D Vial: 6
Acq On : 24 May 2001 11:33 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:54 2001 Quant Results File: BNA.RES

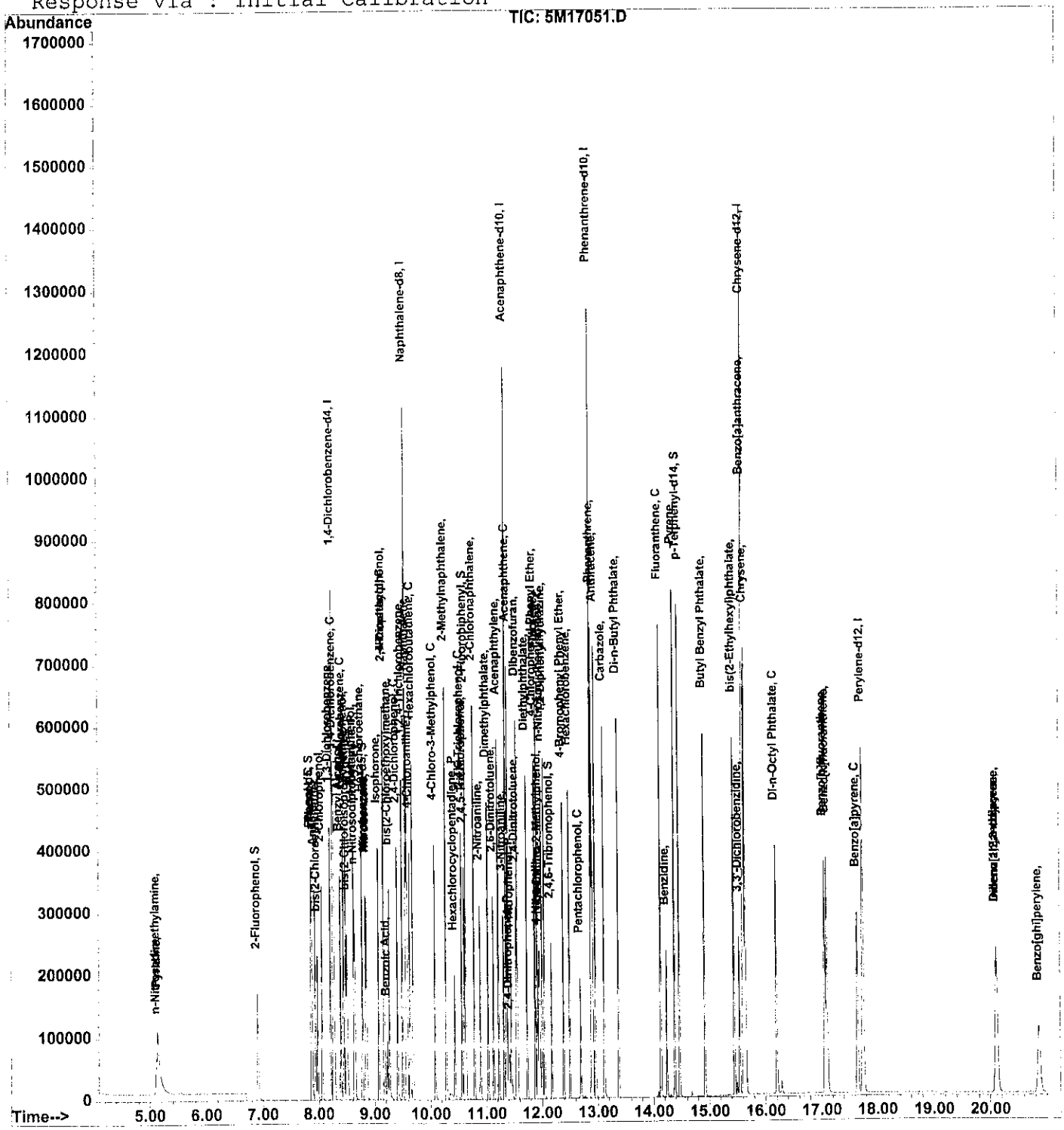
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 11:30:36 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	15.61	228	338698	19.32	ug/mL	100
73)	3,3'-Dichlorobenzidine	15.54	252	64433	14.19	ug/mL	100
74)	Chrysene	15.66	228	322037	19.73	ug/mL	100
75)	bis(2-Ethylhexyl)phthalate	15.45	149	191764	19.77	ug/mL	99
77)	Di-n-Octyl Phthalate	16.20	149	283784	19.14	ug/mL	99
78)	Benzo[b]fluoranthene	17.07	252	265068	18.36	ug/mL	99
79)	Benzo[k]fluoranthene	17.11	252	257893	18.24	ug/mL	100
80)	Benzo[a]pyrene	17.65	252	226084	18.18	ug/mL	100
81)	Indeno[1,2,3-cd]pyrene	20.11	276	199430	19.03	ug/mL	100
82)	Dibenz[ah]anthracene	20.12	278	125130	18.75	ug/mL	99
83)	Benzo[ghi]perylene	20.87	276	160763	20.57	ug/mL	99

(#) = qualifier out of range (m) = manual integration
5M17051.D BNA.M Thu May 24 11:54:42 2001 HPMS5 Page 3

Data File : C:\HPCHEM\1\DATA\052401\5M17051.D Vial: 6
Acq On : 24 May 2001 11:33 Operator: CLK
Sample : 20PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:54 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17052.D Vial: 7
Acq On : 24 May 2001 12:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:24 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	126083	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	475984	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	274932	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	503137	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	566342	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	438556	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	313389	83.37	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 83.37%			
6) Phenol-d5	7.87	99	404564	83.82	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 83.82%			
20) Nitrobenzene-d5	8.85	82	370373	79.97	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 159.94%#			
38) 2-Fluorobiphenyl	10.64	172	788398	81.33	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 162.66%#			
55) 2,4,6-Tribromophenol	12.18	330	126451	94.60	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 94.60%			
70) p-Terphenyl-d14	14.48	244	1279455	90.10	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 180.20%#			
Target Compounds						Qvalue
2) Pyridine	5.13	79	326982	85.93	ug/mL	100
3) n-Nitrosodimethylamine	5.12	74	185031	82.97	ug/mL#	97
5) Aniline	7.94	66	185108	77.34	ug/mL	97
7) Phenol	7.88	94	415143	82.06	ug/mL	99
8) bis(2-Chloroethyl)ether	7.98	63	217348	77.77	ug/mL	98
9) 2-Chlorophenol	8.06	128	350321	81.60	ug/mL	99
10) 1,3-Dichlorobenzene	8.21	146	424692	79.96	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	440596	78.39	ug/mL	99
12) Benzyl Alcohol	8.40	108	220218	90.50	ug/mL	96
13) 1,2-Dichlorobenzene	8.45	146	397109	78.06	ug/mL	100
14) 2-Methylphenol	8.49	107	255234	82.22	ug/mL	96
15) bis(2-Chloroisopropyl)ethe	8.51	45	364203	75.88	ug/mL	99
16) 4-Methylphenol	8.64	107	389799	84.37	ug/mL	99
17) n-Nitrosodipropylamine	8.65	70	219597	80.65	ug/mL	99
18) Hexachloroethane	8.78	117	180193	77.80	ug/mL	99
21) Nitrobenzene	8.86	77	365828	77.93	ug/mL	98
22) Isophorone	9.08	82	584916	77.95	ug/mL	98
23) 2-Nitrophenol	9.18	139	221460	89.77	ug/mL	98
24) 2,4-Dimethylphenol	9.18	122	360003	87.96	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17052.D Vial: 7
Acq On : 24 May 2001 12:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:24 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	387347	79.04	ug/mL	100
26) Benzoic Acid	9.26	122	145467	88.11	ug/mL	96
27) 2,4-Dichlorophenol	9.41	162	329587	86.19	ug/mL	99
28) 1,2,4-Trichlorobenzene	9.50	180	394343	81.26	ug/mL	99
29) Naphthalene	9.59	128	1113379	80.66	ug/mL	100
30) 4-Chloroaniline	9.64	127	447387	82.75	ug/mL	99
31) Hexachlorobutadiene	9.69	225	241457	78.19	ug/mL	100
32) 4-Chloro-3-Methylphenol	10.09	107	282168	84.25	ug/mL	98
33) 2-Methylnaphthalene	10.29	142	781399	83.71	ug/mL	100
35) Hexachlorocyclopentadiene	10.44	237	182662	115.88	ug/mL	100
36) 2,4,6-Trichlorophenol	10.57	196	236935	88.81	ug/mL	99
37) 2,4,5-Trichlorophenol	10.61	196	242784	84.47	ug/mL	99
39) 2-Chloronaphthalene	10.80	162	733885	82.43	ug/mL	100
40) 2-Nitroaniline	10.90	65	192130	84.61	ug/mL	98
41) Dimethylphthalate	11.04	163	792794	83.29	ug/mL	100
42) Acenaphthylene	11.23	152	1017377	80.69	ug/mL	100
43) 2,6-Dinitrotoluene	11.14	165	173528	87.49	ug/mL	100
44) 3-Nitroaniline	11.32	138	175608	87.41	ug/mL	98
45) Acenaphthene	11.40	154	723963	84.16	ug/mL	99
46) 2,4-Dinitrophenol	11.43	184	89940	89.70	ug/mL#	90
47) 4-Nitrophenol	11.45	65	136528	100.61	ug/mL	99
48) Dibenzofuran	11.57	168	986553	80.84	ug/mL	100
49) 2,4-Dinitrotoluene	11.55	165	232677	85.35	ug/mL	99
50) Diethylphthalate	11.74	149	784792	82.20	ug/mL	100
51) Fluorene	11,92	166	876710	85.61	ug/mL	100
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	435464	86.51	ug/mL	100
53) 4-Nitroaniline	11.95	138	180766	93.31	ug/mL	97
54) 1,2-Diphenylhydrazine	12.05	77	799542	81.25	ug/mL	98
57) 4,6-Dinitro-2-Methylphenol	11.97	198	151296	90.54	ug/mL	98
58) n-Nitrosodiphenylamine	12.01	169	586679	81.03	ug/mL	100
59) 4-Bromophenyl Phenyl Ether	12.39	248	275275	85.07	ug/mL	99
60) Hexachlorobenzene	12.50	284	310679	84.14	ug/mL	98
61) Pentachlorophenol	12.70	266	147299	98.77	ug/mL	99
62) Phenanthrene	12.92	178	1361785	81.27	ug/mL	99
63) Anthracene	12.97	178	1329757	81.03	ug/mL	100
64) Carbazole	13.12	167	1118735	82.70	ug/mL	100
65) Di-n-Butyl Phthalate	13.38	149	1429862	80.66	ug/mL	100
66) Fluoranthene	14.14	202	1659843	84.86	ug/mL	100
68) Benzidine	14.24	184	377635	85.11	ug/mL	100
69) Pyrene	14.38	202	1724996	86.86	ug/mL	99
71) Butyl Benzyl Phthalate	14.92	149	637612	80.16	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17052.D
Acq On : 24 May 2001 12:03
Sample : 80PPM BNA STD
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:24 2001

Vial: 7
Operator: CLK
Inst : HPMS5
Multiplr: 1.00

Quant Results File: BNA.RES

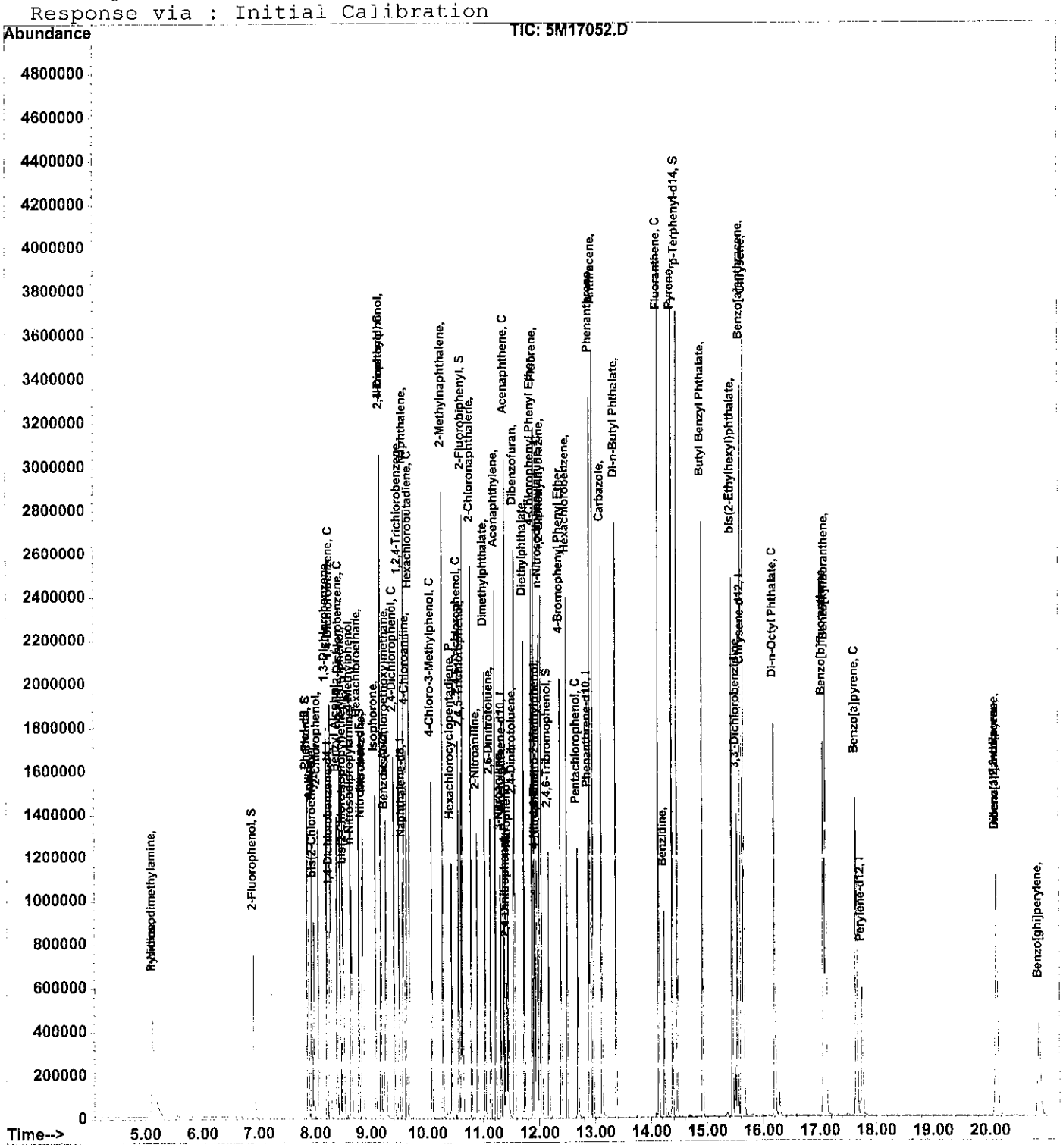
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo[a]anthracene	15.61	228	1565016	81.95	ug/mL	99
73) 3,3'-Dichlorobenzidine	15.55	252	365788	73.94	ug/mL	100
74) Chrysene	15.66	228	1482848	83.40	ug/mL	99
75) bis(2-Ethylhexyl)phthalate	15.45	149	838429	79.36	ug/mL	100
77) Di-n-Octyl Phthalate	16.21	149	1319359	83.74	ug/mL	98
78) Benzo[b]fluoranthene	17.08	252	1321100	86.13	ug/mL	100
79) Benzo[k]fluoranthene	17.12	252	1266763	84.31	ug/mL	99
80) Benzo[a]pyrene	17.66	252	1135561	85.94	ug/mL	100
81) Indeno[1,2,3-cd]pyrene	20.13	276	875560	78.64	ug/mL	99
82) Dibenz[ah]anthracene	20.13	278	573425	80.86	ug/mL	100
83) Benzo[ghi]perylene	20.89	276	598594	72.07	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17052.D Vial: 7
Acq On : 24 May 2001 12:03 Operator: CLK
Sample : 80PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:24 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17053.D Vial: 8
Acq On : 24 May 2001 12:34 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:55 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	128791	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	481966	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	282299	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	514326	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	586252	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	439077	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	417374	108.69	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 108.69%#			
6) Phenol-d5	7.87	99	536218	108.76	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 108.76%#			
20) Nitrobenzene-d5	8.85	82	482325	102.85	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 205.70%#			
38) 2-Fluorobiphenyl	10.64	172	1086092	109.12	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 218.24%#			
55) 2,4,6-Tribromophenol	12.18	330	182790	133.18	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 133.18%#			
70) p-Terphenyl-d14	14.48	244	1708757	116.24	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 232.48%#			
Target Compounds						Qvalue
2) Pyridine	5.12	79	432241	111.20	ug/mL	99
3) n-Nitrosodimethylamine	5.12	74	243905	107.07	ug/mL#	99
5) Aniline	7.94	66	244279	99.92	ug/mL	97
7) Phenol	7.88	94	558026	107.98	ug/mL	100
8) bis(2-Chloroethyl)ether	7.98	63	286915	100.51	ug/mL	98
9) 2-Chlorophenol	8.06	128	472855	107.83	ug/mL	98
10) 1,3-Dichlorobenzene	8.21	146	567959	104.68	ug/mL	99
11) 1,4-Dichlorobenzene	8.28	146	597457	104.06	ug/mL	99
12) Benzyl Alcohol	8.40	108	290485	116.87	ug/mL	96
13) 1,2-Dichlorobenzene	8.45	146	537686	103.47	ug/mL	100
14) 2-Methylphenol	8.49	107	345299	108.90	ug/mL	97
15) bis(2-Chloroisopropyl)ethe	8.51	45	481839	98.27	ug/mL	99
16) 4-Methylphenol	8.64	107	527480	111.77	ug/mL	99
17) n-Nitrosodipropylamine	8.66	70	291452	104.78	ug/mL	98
18) Hexachloroethane	8.78	117	239747	101.34	ug/mL	100
21) Nitrobenzene	8.87	77	487405	102.54	ug/mL	98
22) Isophorone	9.08	82	746833	98.29	ug/mL	98
23) 2-Nitrophenol	9.18	139	316339	126.64	ug/mL	94
24) 2,4-Dimethylphenol	9.18	122	508113	122.61	ug/mL	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17053.D Vial: 8
Acq On : 24 May 2001 12:34 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:55 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	526641	106.12 ug/mL	99
26) Benzoic Acid	9.27	122	210435	125.87 ug/mL	97
27) 2,4-Dichlorophenol	9.42	162	445110	114.96 ug/mL	100
28) 1,2,4-Trichlorobenzene	9.50	180	539326	109.75 ug/mL	99
29) Naphthalene	9.59	128	1532987	109.69 ug/mL	99
30) 4-Chloroaniline	9.64	127	602003	109.96 ug/mL	99
31) Hexachlorobutadiene	9.69	225	331108	105.89 ug/mL	99
32) 4-Chloro-3-Methylphenol	10.09	107	369705	109.02 ug/mL	97
33) 2-Methylnaphthalene	10.29	142	1076995	113.94 ug/mL	99
35) Hexachlorocyclopentadiene	10.44	237	254165	157.04 ug/mL	99
36) 2,4,6-Trichlorophenol	10.57	196	318683	116.33 ug/mL	99
37) 2,4,5-Trichlorophenol	10.61	196	328348	111.25 ug/mL	100
39) 2-Chloronaphthalene	10.80	162	1006310	110.09 ug/mL	99
40) 2-Nitroaniline	10.90	65	250844	107.59 ug/mL	96
41) Dimethylphthalate	11.04	163	1071740	109.66 ug/mL	100
42) Acenaphthylene	11.23	152	1381913	106.75 ug/mL	100
43) 2,6-Dinitrotoluene	11.14	165	229274	112.58 ug/mL	98
44) 3-Nitroaniline	11.32	138	231135	112.05 ug/mL	96
45) Acenaphthene	11.40	154	1010674	114.42 ug/mL	100
46) 2,4-Dinitrophenol	11.43	184	129659	125.94 ug/mL#	63
47) 4-Nitrophenol	11.45	65	178368	128.01 ug/mL	98
48) Dibenzofuran	11.57	168	1380219	110.15 ug/mL	99
49) 2,4-Dinitrotoluene	11.55	165	314362	112.30 ug/mL	98
50) Diethylphthalate	11.75	149	1069980	109.15 ug/mL	99
51) Fluorene	11.92	166	1215756	115.62 ug/mL	99
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	616272	119.23 ug/mL	99
53) 4-Nitroaniline	11.96	138	233033	117.15 ug/mL	99
54) 1,2-Diphenylhydrazine	12.05	77	1055367	104.45 ug/mL	96
57) 4,6-Dinitro-2-Methylphenol	11.97	198	211204	123.64 ug/mL	96
58) n-Nitrosodiphenylamine	12.01	169	802600	108.45 ug/mL	99
59) 4-Bromophenyl Phenyl Ether	12.39	248	389749	117.83 ug/mL	97
60) Hexachlorobenzene	12.51	284	454546	120.43 ug/mL	95
61) Pentachlorophenol	12.70	266	205063	134.51 ug/mL	99
62) Phenanthrene	12.92	178	1877071	109.58 ug/mL	99
63) Anthracene	12.97	178	1830356	109.10 ug/mL	99
64) Carbazole	13.12	167	1555172	112.46 ug/mL	100
65) Di-n-Butyl Phthalate	13.38	149	1929288	106.47 ug/mL	100
66) Fluoranthene	14.14	202	2234224	111.74 ug/mL	99
68) Benzidine	14.25	184	517188	112.61 ug/mL	100
69) Pyrene	14.39	202	2322183	112.96 ug/mL	99
71) Butyl Benzyl Phthalate	14.92	149	857813	104.18 ug/mL	98

(#) = qualifier out of range (m) = manual integration
5M17053.D BNA.M Thu May 24 12:55:23 2001 HPMS5 Page 2

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Data File : C:\HPCHEM\1\DATA\052401\5M17053.D Vial: 8
Acq On : 24 May 2001 12:34 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:55 2001 Quant Results File: BNA.RES

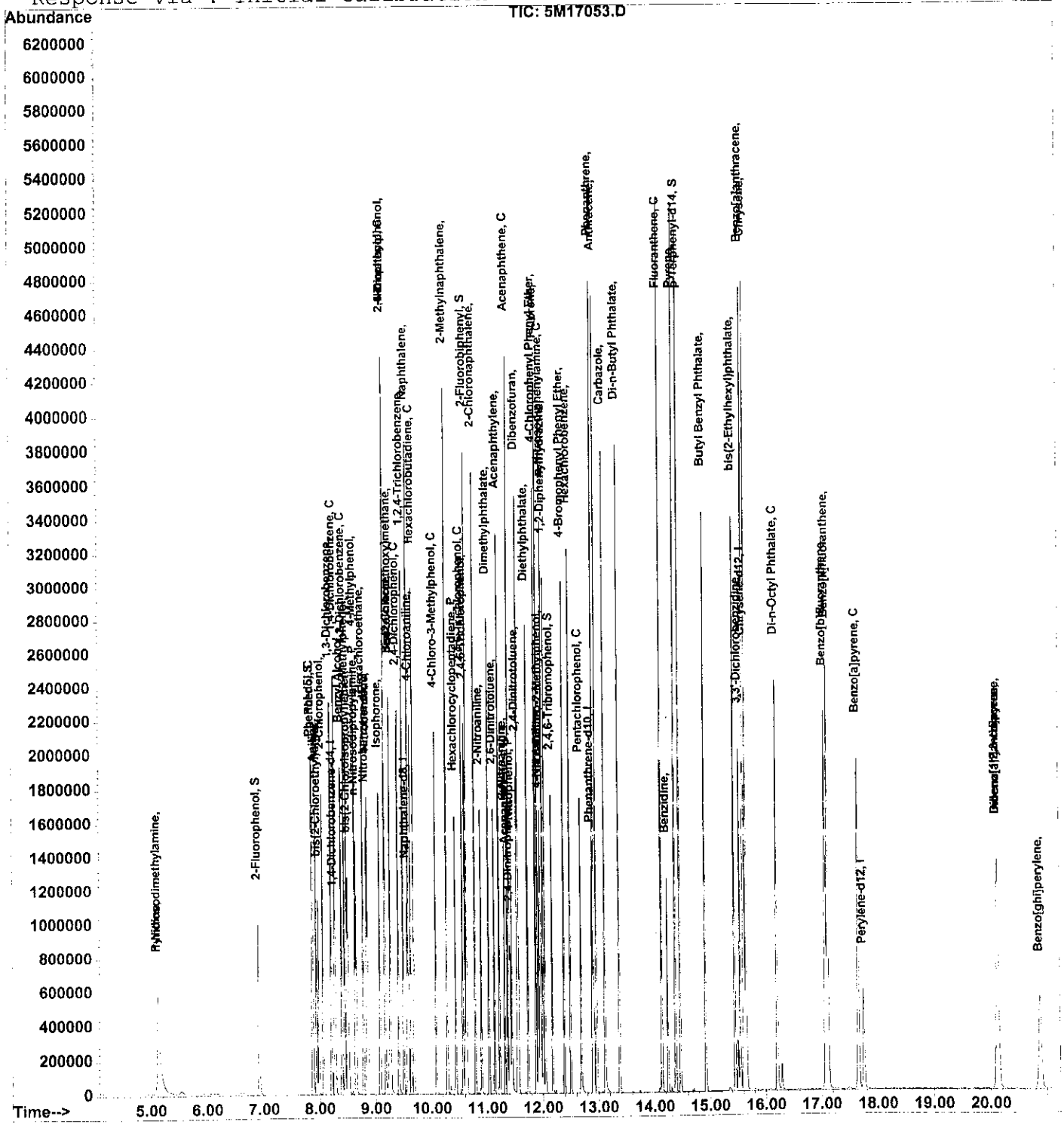
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	15.61	228	2110707	106.78	ug/mL	99
73)	3,3'-Dichlorobenzidine	15.55	252	494811	96.62	ug/mL	100
74)	Chrysene	15.66	228	1998137	108.57	ug/mL	98
75)	bis(2-Ethylhexyl)phthalate	15.45	149	1107822	101.29	ug/mL	99
77)	Di-n-Octyl Phthalate	16.21	149	1697754	107.63	ug/mL	97
78)	Benzo[b]fluoranthene	17.08	252	1645096	107.13	ug/mL	99
79)	Benzo[k]fluoranthene	17.12	252	1667559	110.86	ug/mL	99
80)	Benzo[a]pyrene	17.67	252	1518363	114.78	ug/mL	100
81)	Indeno[1,2,3-cd]pyrene	20.14	276	1119049	100.39	ug/mL	99
82)	Dibenz[ah]anthracene	20.14	278	733966	103.37	ug/mL	100
83)	Benzo[ghi]perylene	20.89	276	765938	92.11	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17053.D Vial: 8
Acq On : 24 May 2001 12:34 Operator: CLK
Sample : 100PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:55 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 10:45:48 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17054.D Vial: 9
Acq On : 24 May 2001 13:04 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:25 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	129119	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	478730	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	281626	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.90	188	517112	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	597328	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	442776	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	503279	128.93	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 128.93%#			
6) Phenol-d5	7.87	99	654106	128.27	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 128.27%#			
20) Nitrobenzene-d5	8.85	82	579616	122.23	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 244.46%#			
38) 2-Fluorobiphenyl	10.64	172	1316352	132.73	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 265.46%#			
55) 2,4,6-Tribromophenol	12.18	330	240913	170.17	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 170.17%#			
70) p-Terphenyl-d14	14.48	244	2006630	130.64	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 261.28%#			
Target Compounds						Qvalue
2) Pyridine	5.12	79	514476	128.15	ug/mL	100
3) n-Nitrosodimethylamine	5.13	74	291749	126.20	ug/mL	98
5) Aniline	7.94	66	293972	121.34	ug/mL	98
7) Phenol	7.88	94	687192	127.89	ug/mL	99
8) bis(2-Chloroethyl)ether	7.98	63	344677	119.33	ug/mL	99
9) 2-Chlorophenol	8.06	128	579404	129.25	ug/mL	99
10) 1,3-Dichlorobenzene	8.21	146	707246	129.62	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	739889	129.28	ug/mL	99
12) Benzyl Alcohol	8.40	108	357328	134.07	ug/mL	97
13) 1,2-Dichlorobenzene	8.45	146	662494	127.34	ug/mL	100
14) 2-Methylphenol	8.49	107	423203	129.56	ug/mL	97
15) bis(2-Chloroisopropyl)ethe	8.51	45	581539	118.90	ug/mL	99
16) 4-Methylphenol	8.64	107	653773	134.11	ug/mL	99
17) n-Nitrosodipropylamine	8.66	70	351480	122.22	ug/mL	99
18) Hexachloroethane	8.78	117	289628	123.21	ug/mL	98
21) Nitrobenzene	8.87	77	586320	122.12	ug/mL	97
22) Isophorone	9.09	82	867600	115.05	ug/mL	98
23) 2-Nitrophenol	9.18	139	395015	151.26	ug/mL	92
24) 2,4-Dimethylphenol	9.18	122	620234	143.62	ug/mL	96

(#) = qualifier out of range (m) = manual integration
5M17054.D BNA.M Thu May 24 13:25:42 2001 HPMS5 Page 1

Data File : C:\HPCHEM\1\DATA\052401\5M17054.D Vial: 9
Acq On : 24 May 2001 13:04 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:25 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	647288	129.96 ug/mL	98
26) Benzoic Acid	9.27	122	272123	160.99 ug/mL	98
27) 2,4-Dichlorophenol	9.42	162	553422	138.31 ug/mL	99
28) 1,2,4-Trichlorobenzene	9.50	180	666190	134.65 ug/mL	100
29) Naphthalene	9.59	128	1899308	135.48 ug/mL	100
30) 4-Chloroaniline	9.64	127	745096	136.29 ug/mL	99
31) Hexachlorobutadiene	9.69	225	409399	133.50 ug/mL	99
32) 4-Chloro-3-Methylphenol	10.09	107	443406	127.56 ug/mL	97
33) 2-Methylnaphthalene	10.29	142	1329010	140.81 ug/mL	99
35) Hexachlorocyclopentadiene	10.44	237	318312	177.55 ug/mL	98
36) 2,4,6-Trichlorophenol	10.57	196	384889	134.21 ug/mL	99
37) 2,4,5-Trichlorophenol	10.61	196	405054	133.47 ug/mL	99
39) 2-Chloronaphthalene	10.80	162	1233664	134.33 ug/mL	99
40) 2-Nitroaniline	10.90	65	302981	126.52 ug/mL	96
41) Dimethylphthalate	11.04	163	1322795	135.43 ug/mL	99
42) Acenaphthylene	11.23	152	1714090	133.09 ug/mL	99
43) 2,6-Dinitrotoluene	11.14	165	281535	135.50 ug/mL	95
44) 3-Nitroaniline	11.32	138	282548	132.86 ug/mL	95
45) Acenaphthene	11.40	154	1247380	140.76 ug/mL	100
46) 2,4-Dinitrophenol	11.43	184	165661	153.28 ug/mL#	65
47) 4-Nitrophenol	11.45	65	217380	142.88 ug/mL	97
48) Dibenzofuran	11.57	168	1748845	140.21 ug/mL	98
49) 2,4-Dinitrotoluene	11.55	165	389132	138.86 ug/mL	95
50) Diethylphthalate	11.75	149	1337937	136.72 ug/mL	99
51) Fluorene	11.92	166	1498122	142.73 ug/mL	99
52) 4-Chlorophenyl Phenyl Ethe	11.89	204	772440	147.38 ug/mL	98
53) 4-Nitroaniline	11.96	138	277002	131.87 ug/mL	96
54) 1,2-Diphenylhydrazine	12.05	77	1278880	127.17 ug/mL	95
57) 4,6-Dinitro-2-Methylphenol	11.97	198	266397	147.99 ug/mL	94
58) n-Nitrosodiphenylamine	12.01	169	999689	133.38 ug/mL	99
59) 4-Bromophenyl Phenyl Ether	12.39	248	495364	145.37 ug/mL	96
60) Hexachlorobenzene	12.51	284	570591	148.51 ug/mL	93
61) Pentachlorophenol	12.70	266	262960	173.68 ug/mL	99
62) Phenanthrene	12.92	178	2285853	132.22 ug/mL	99
63) Anthracene	12.97	178	2249040	133.38 ug/mL	99
64) Carbazole	13.13	167	1911972	131.50 ug/mL	99
65) Di-n-Butyl Phthalate	13.38	149	2378401	131.09 ug/mL	99
66) Fluoranthene	14.15	202	2640824	131.06 ug/mL	98
68) Benzidine	14.25	184	608678	112.18 ug/mL	100
69) Pyrene	14.39	202	2746981	127.19 ug/mL	98
71) Butyl Benzyl Phthalate	14.93	149	1061292	126.27 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17054.D Vial: 9
Acq On : 24 May 2001 13:04 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:25 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 12:11:25 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo[a]anthracene	15.61	228	2565704	127.33	ug/mL	98
73) 3,3'-Dichlorobenzidine	15.55	252	640610	136.10	ug/mL	99
74) Chrysene	15.66	228	2435503	129.80	ug/mL	98
75) bis(2-Ethylhexyl)phthalate	15.45	149	1379404	123.51	ug/mL#	98
77) Di-n-Octyl Phthalate	16.21	149	2079545	131.61	ug/mL	99
78) Benzo[b]fluoranthene	17.08	252	2048309	133.64	ug/mL	97
79) Benzo[k]fluoranthene	17.13	252	2129171	141.38	ug/mL	98
80) Benzo[a]pyrene	17.67	252	1868846	140.71	ug/mL	99
81) Indeno[1,2,3-cd]pyrene	20.14	276	1348377	124.02	ug/mL	100
82) Dibenz[ah]anthracene	20.14	278	895726	128.98	ug/mL	100
83) Benzo[ghi]perylene	20.89	276	896914	110.40	ug/mL	99

(#) = qualifier out of range (m) = manual integration
5M17054.D BNA.M Thu May 24 13:25:44 2001 HPMS5 Page 3

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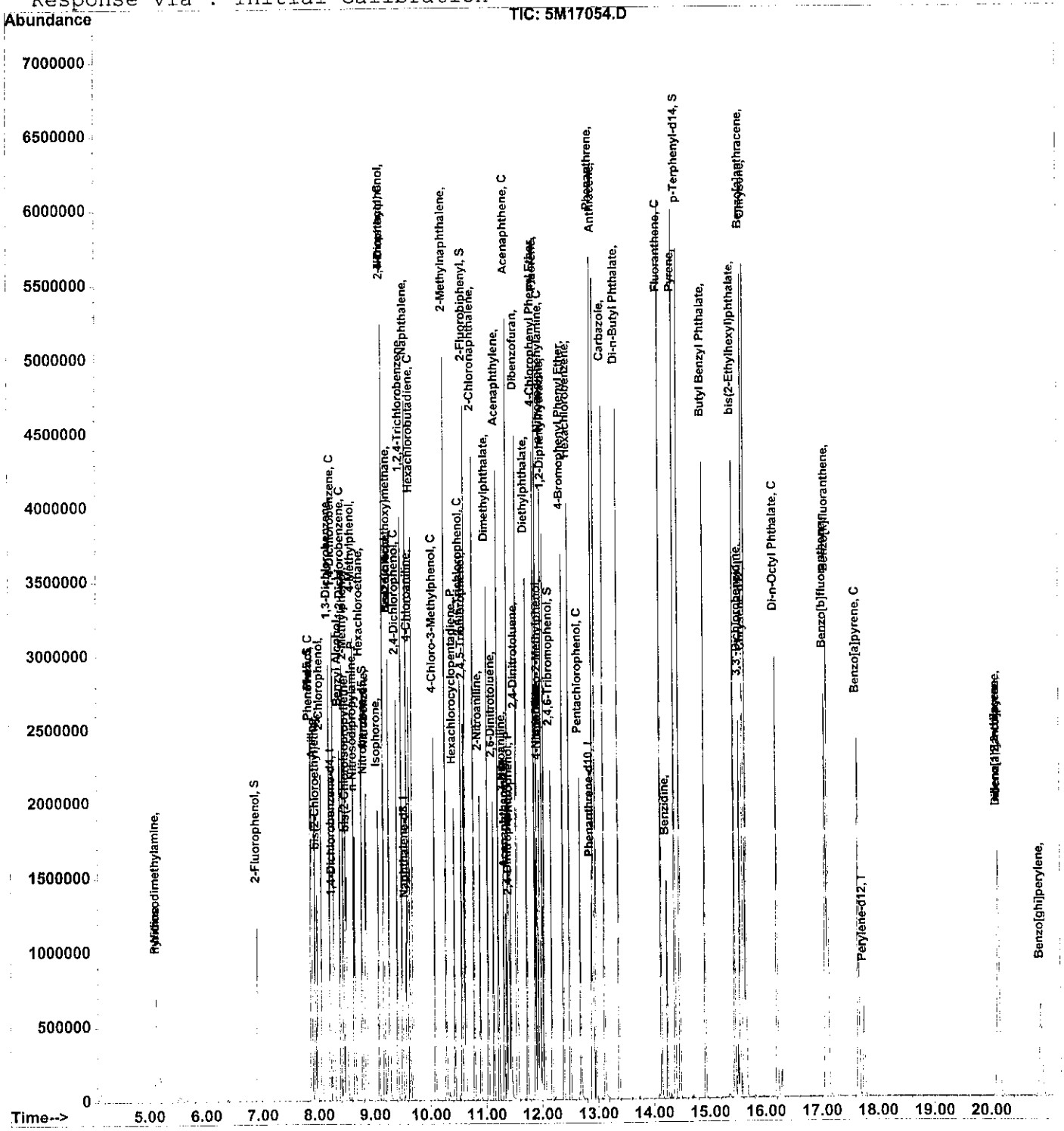
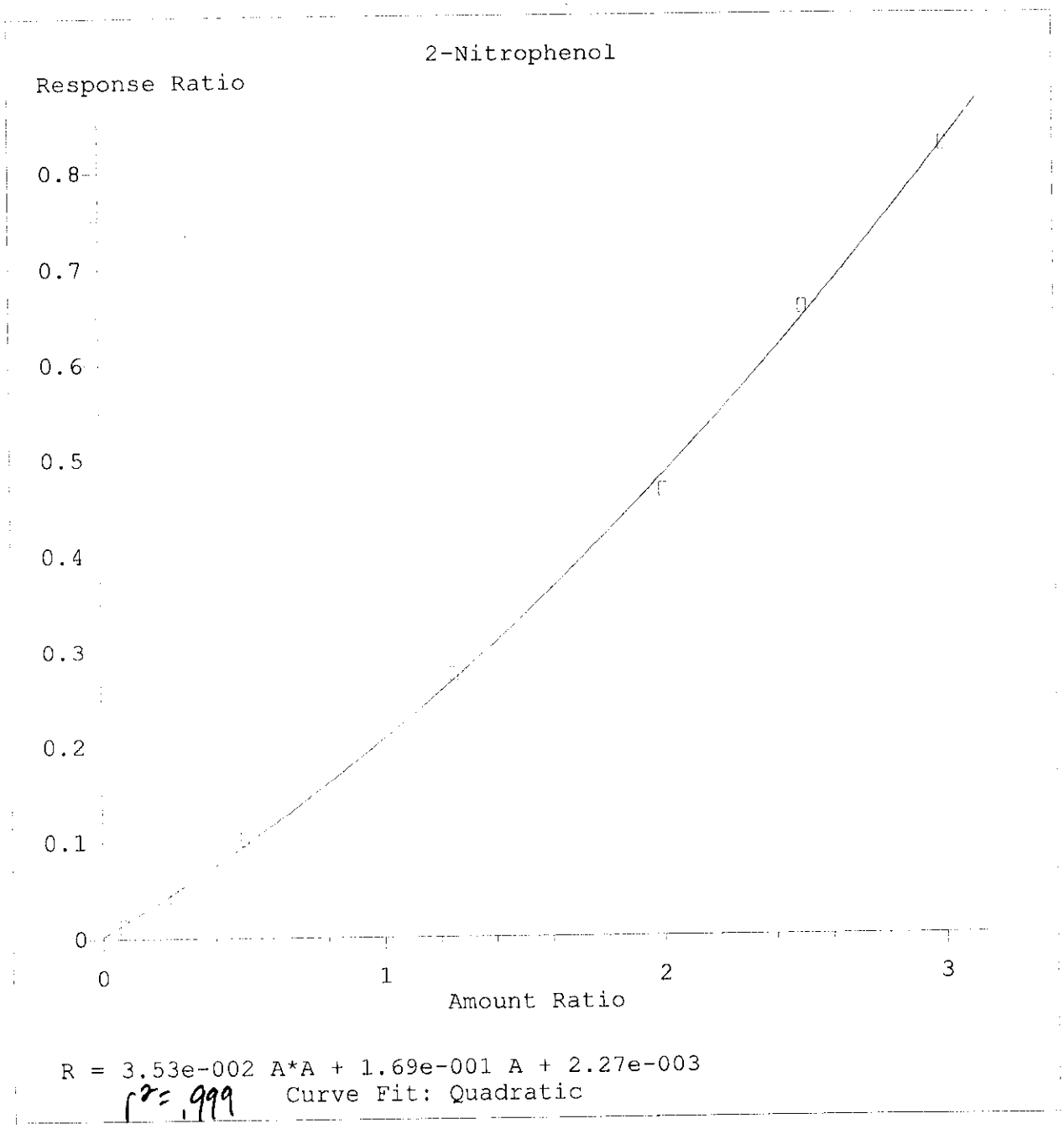
Data File : C:\HPCHEM\1\DATA\052401\5M17054.D Vial: 9
Acq On : 24 May 2001 13:04 Operator: CLK
Sample : 120PPM BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:25 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:23:47 2001
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 12:11:25 2001

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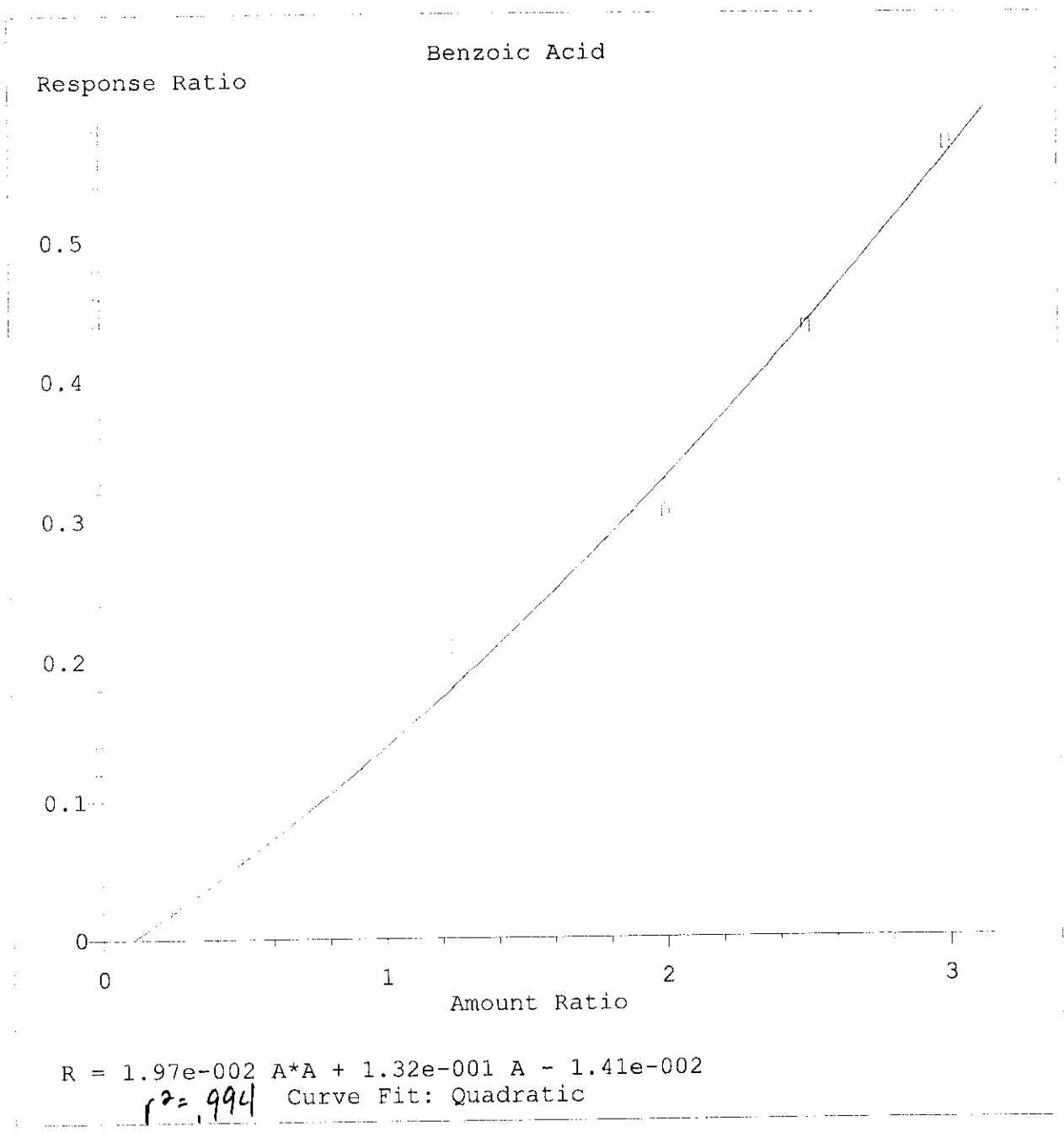
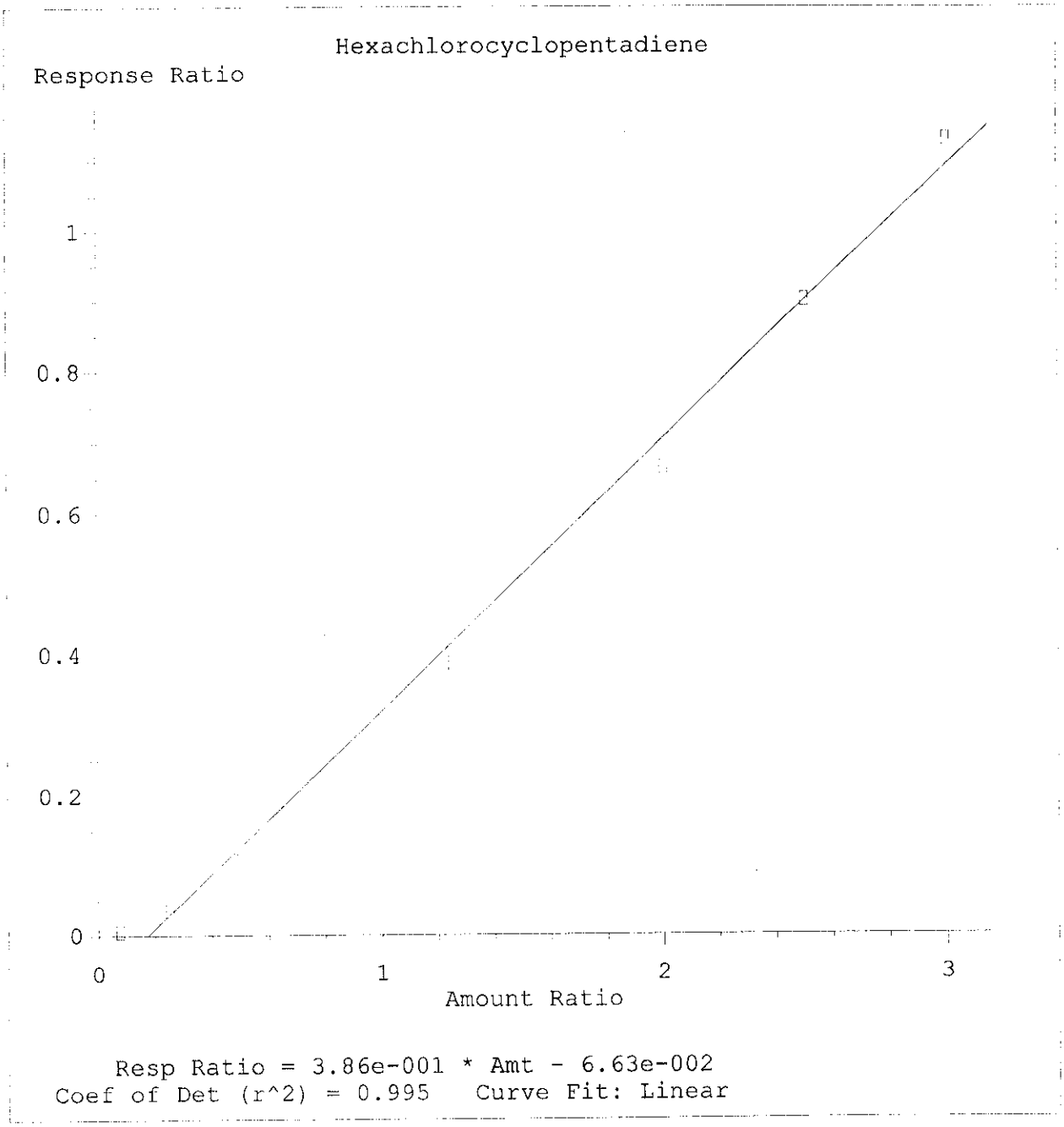


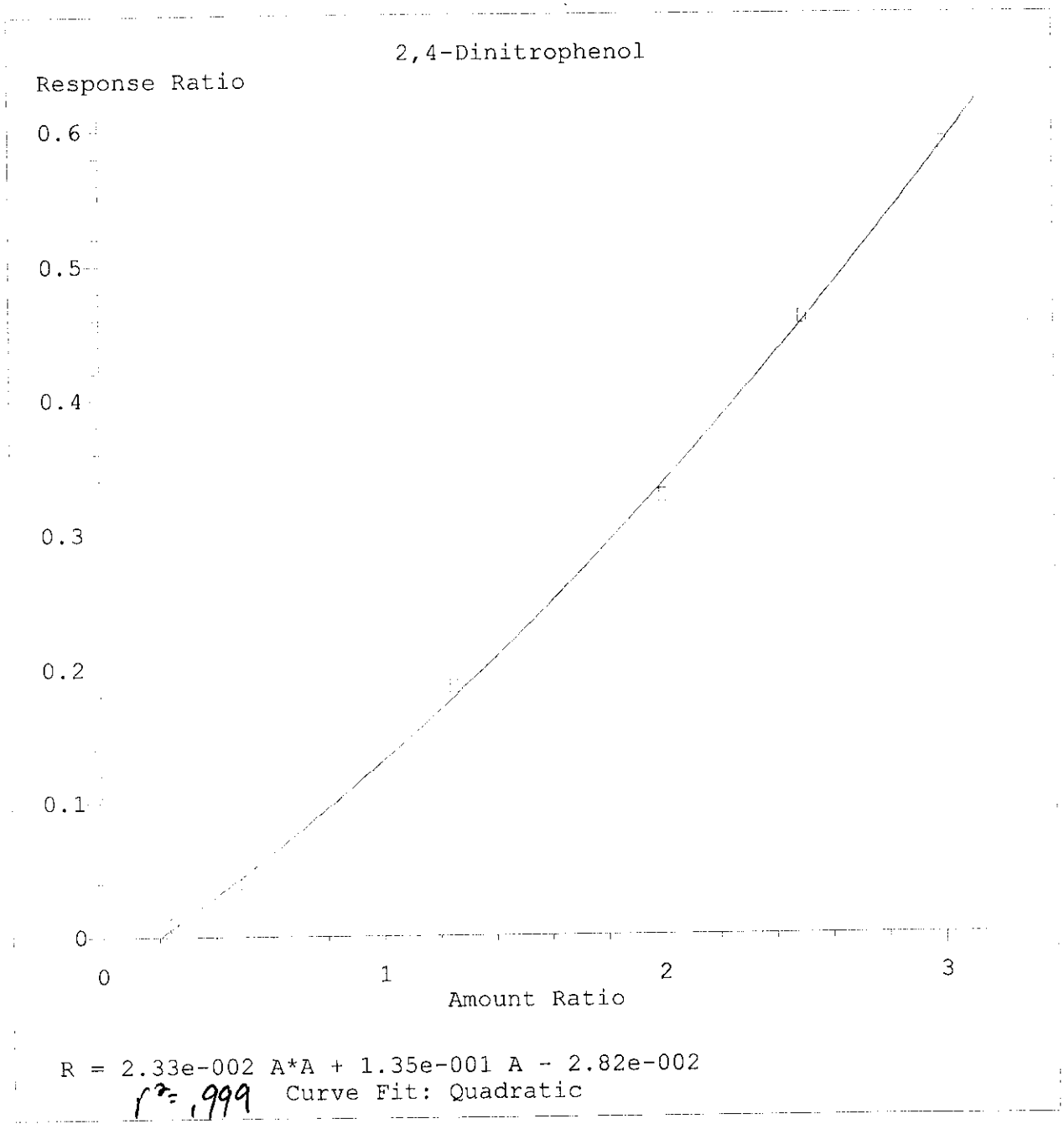
R = 1.97e-002 A*A + 1.32e-001 A - 1.41e-002

$r^2 = .994$ Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:29:21 2001

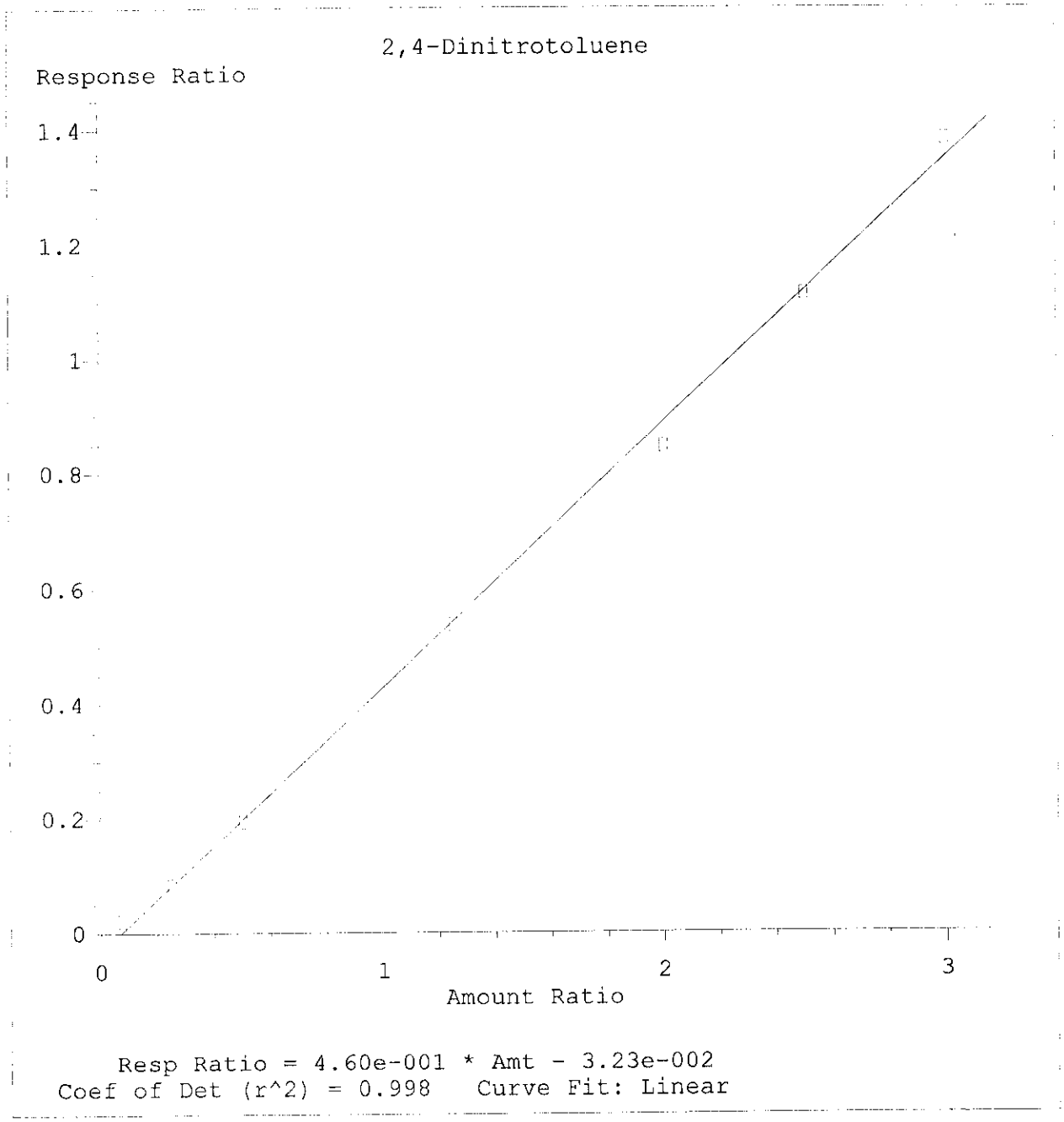


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:29:58 2001

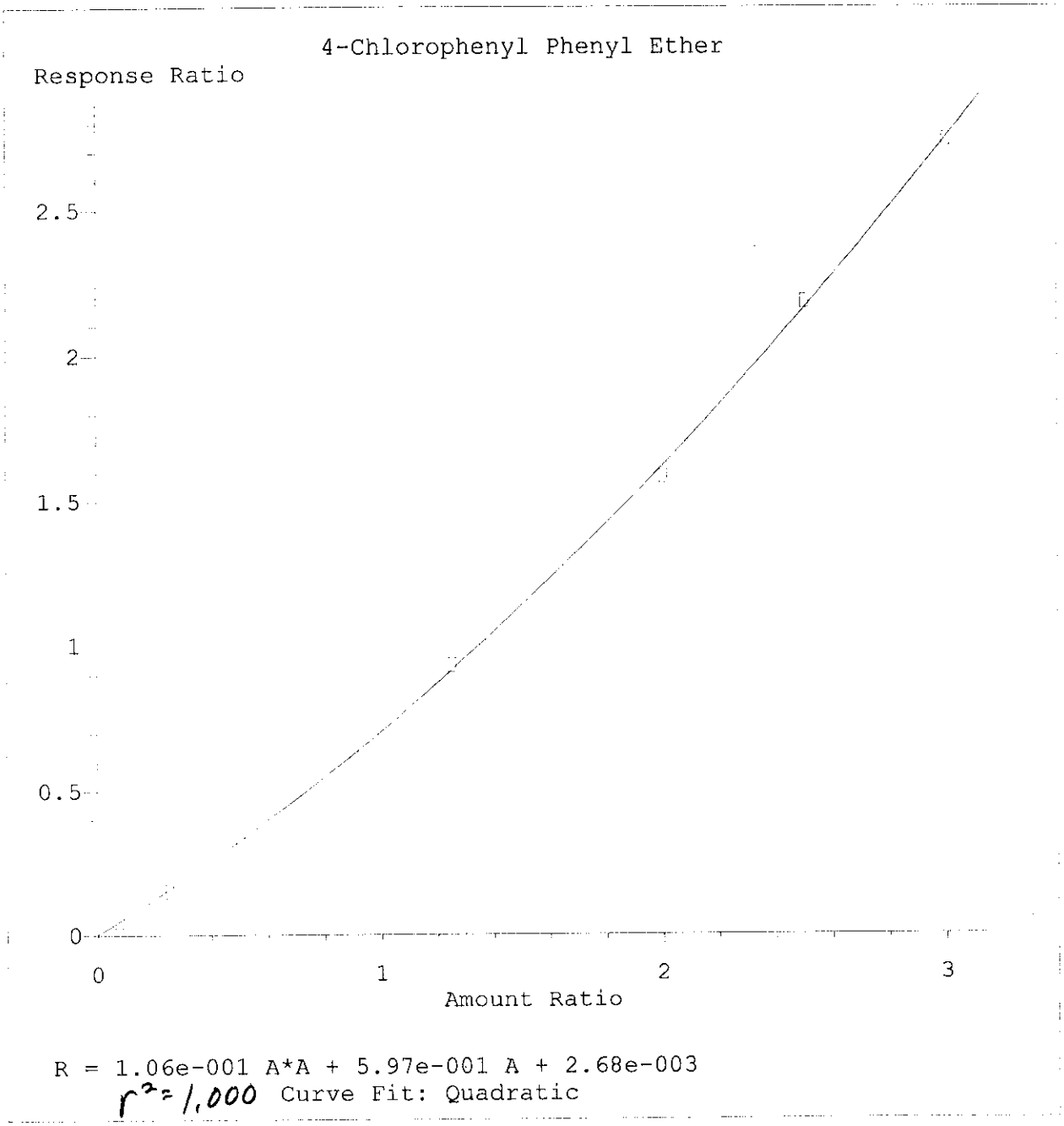


Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:30:33 2001

480



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:31:15 2001

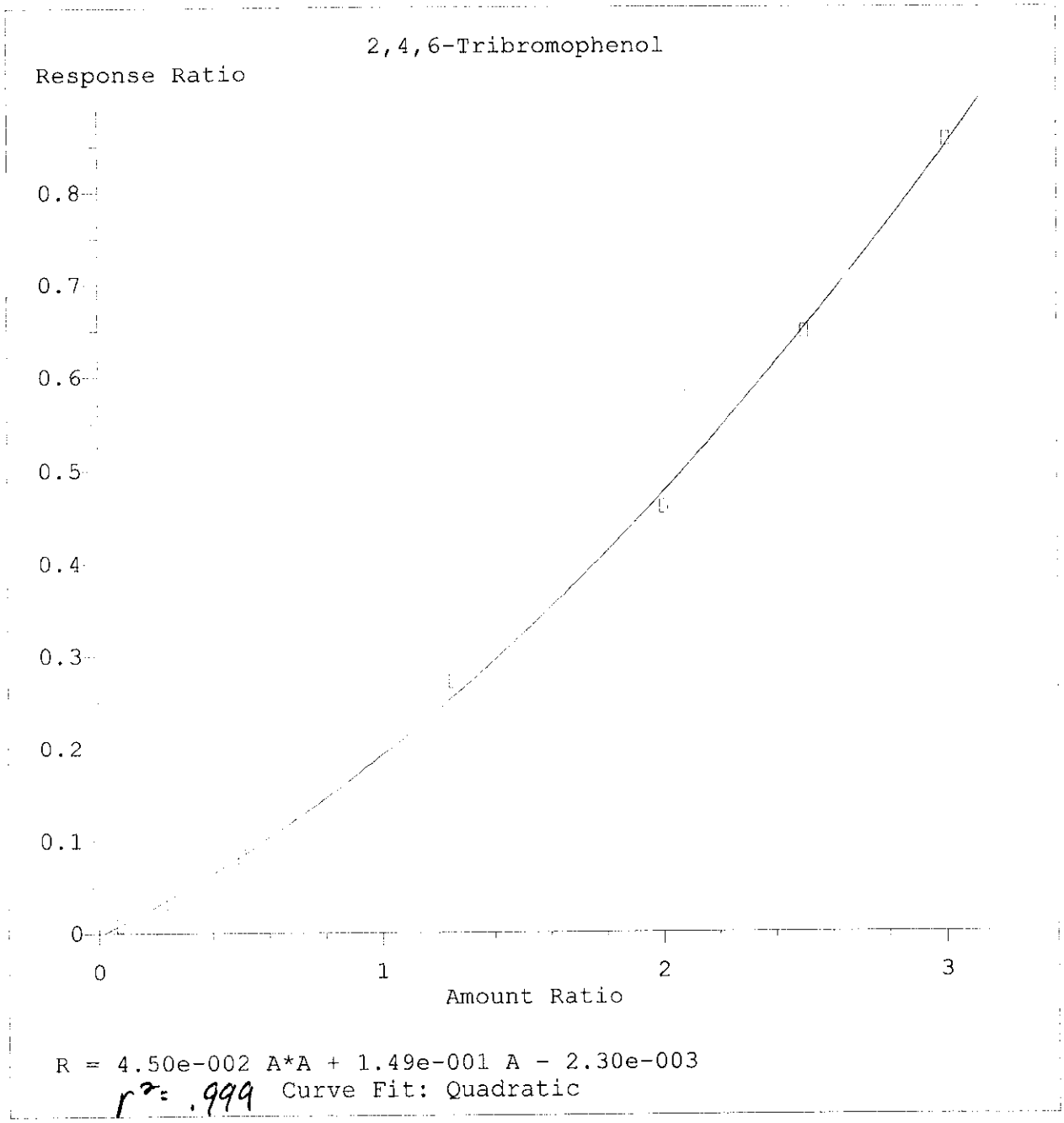


R = 1.06e-001 A*A + 5.97e-001 A + 2.68e-003

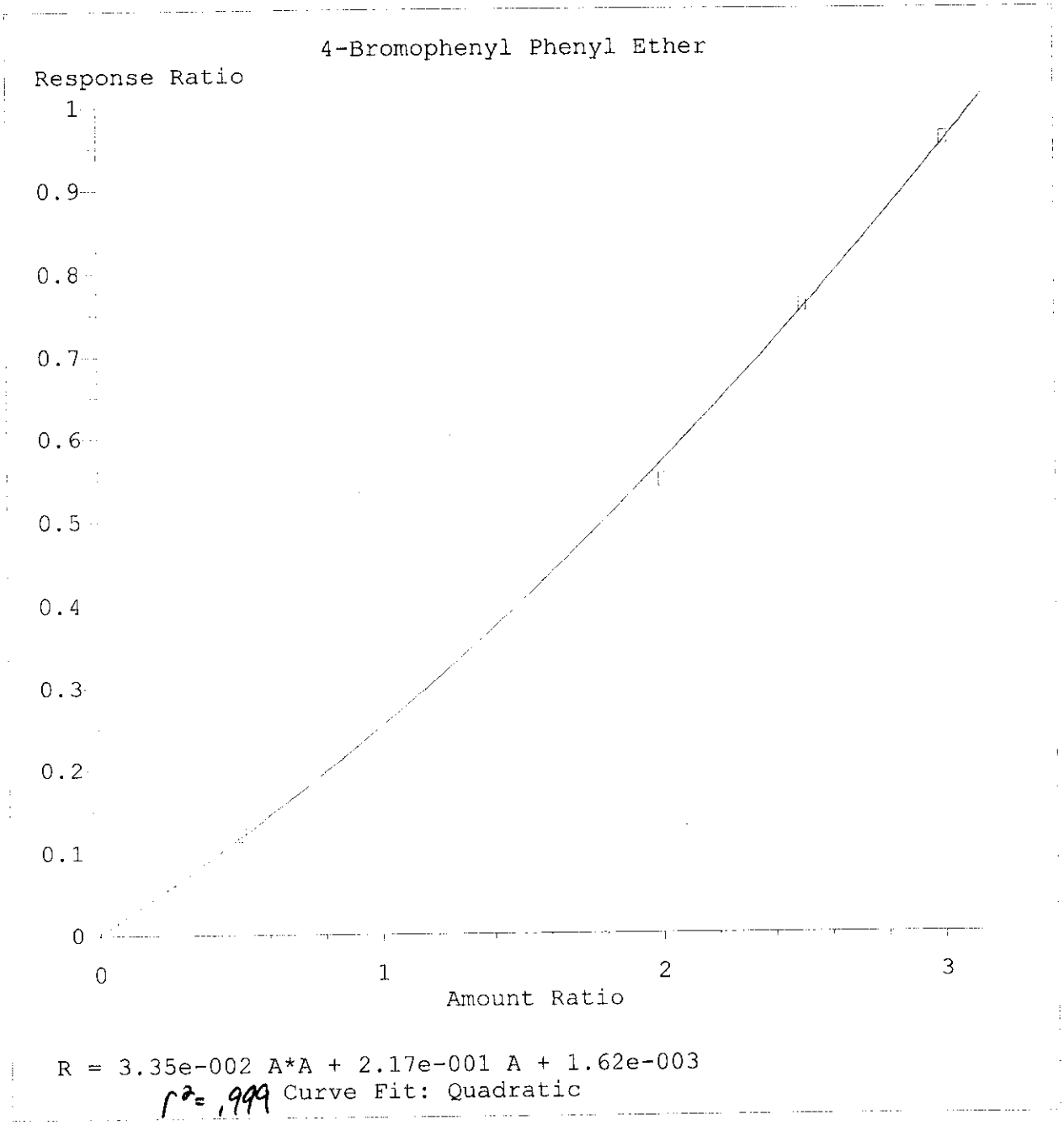
$r^2 = 1.000$ Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:31:23 2001

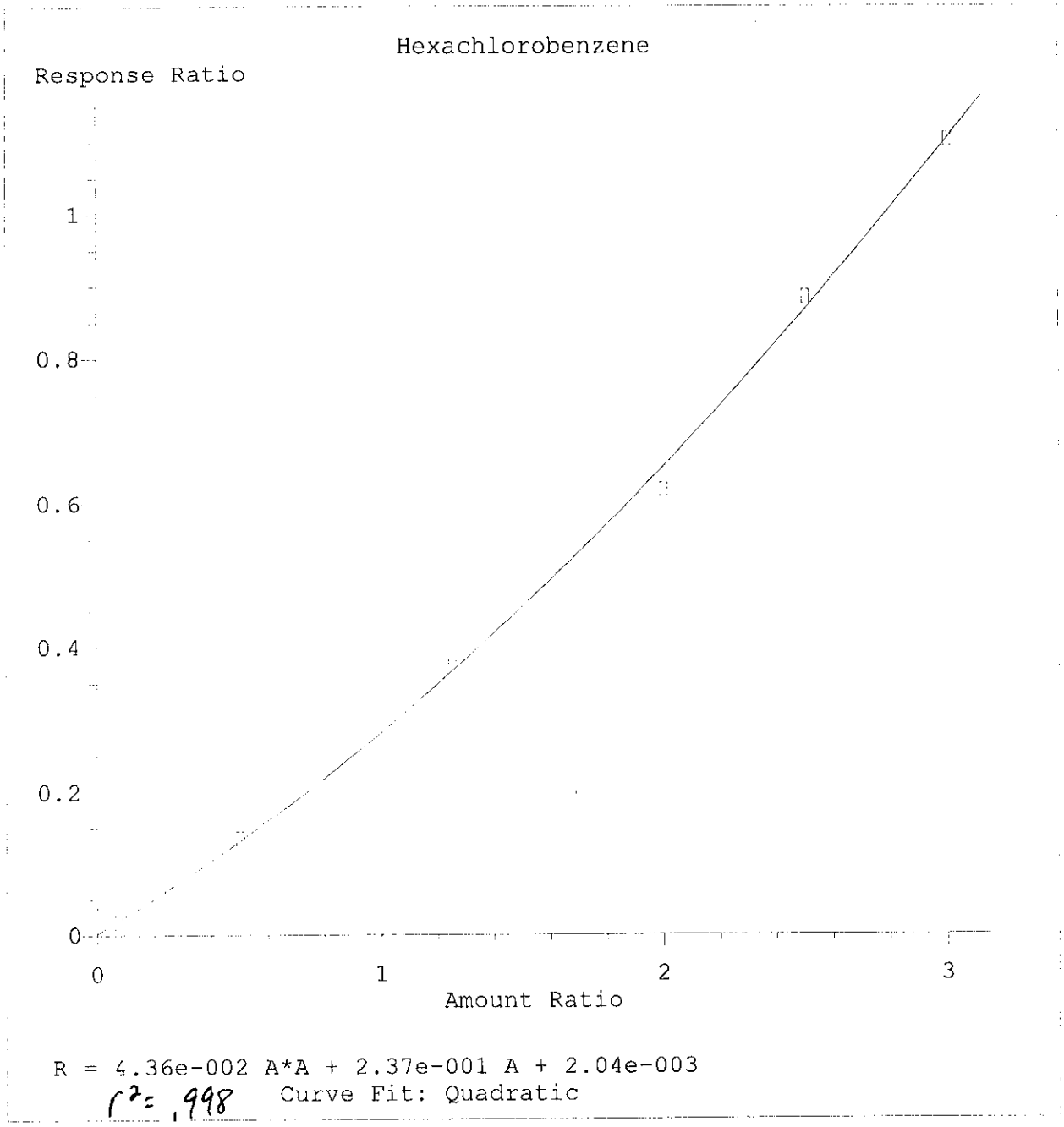
482



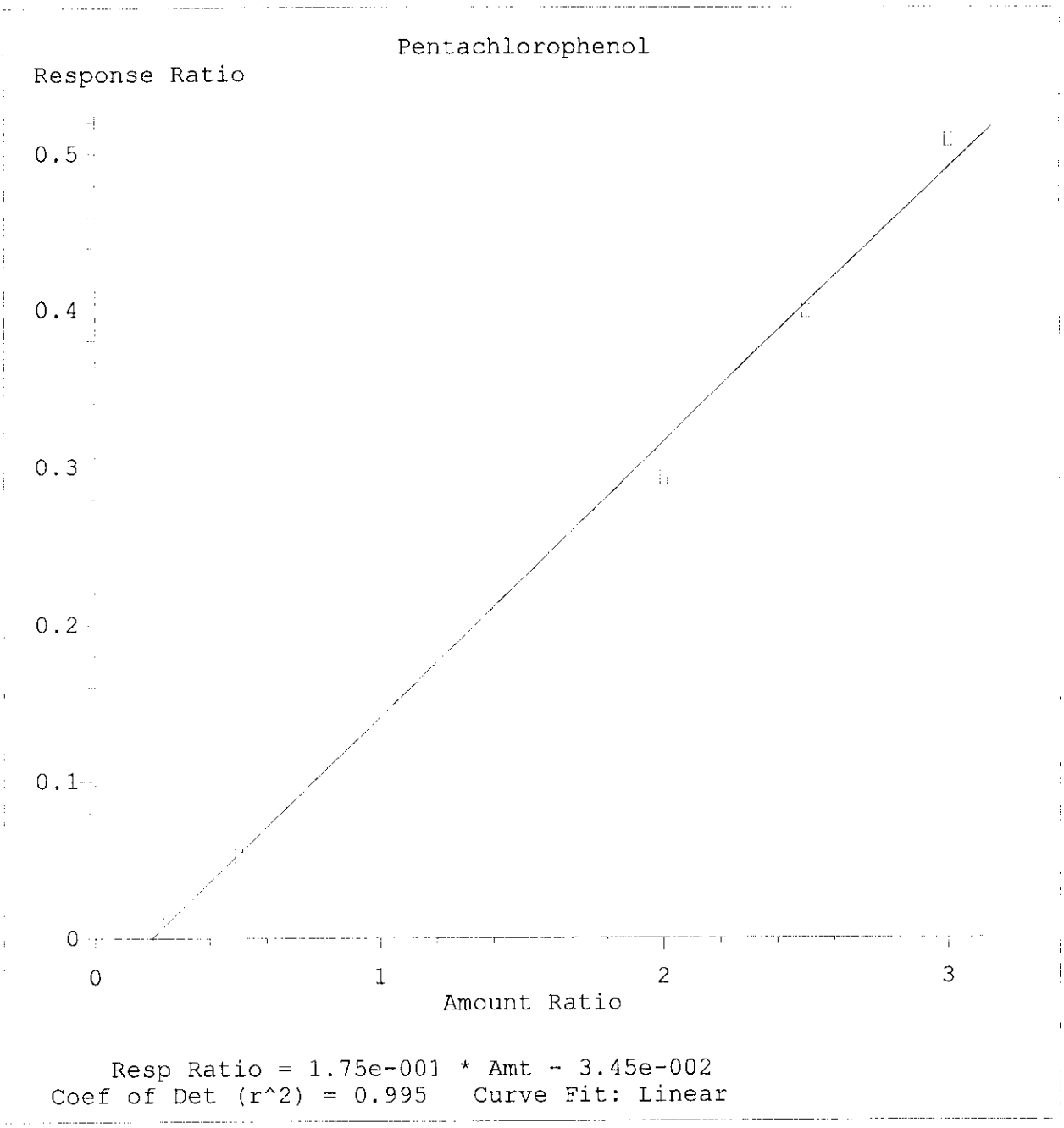
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:31:42 2001



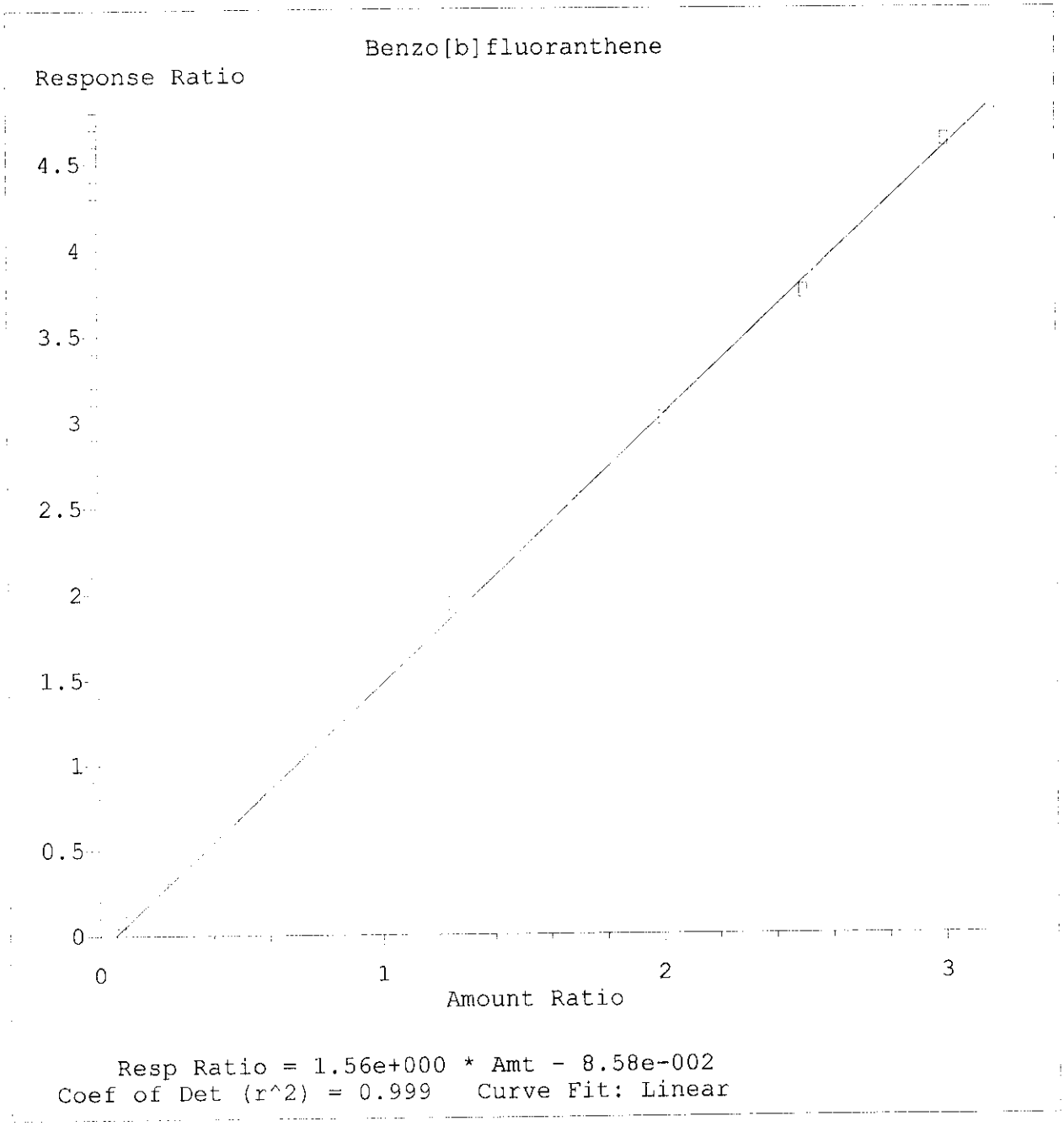
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:32:03 2001



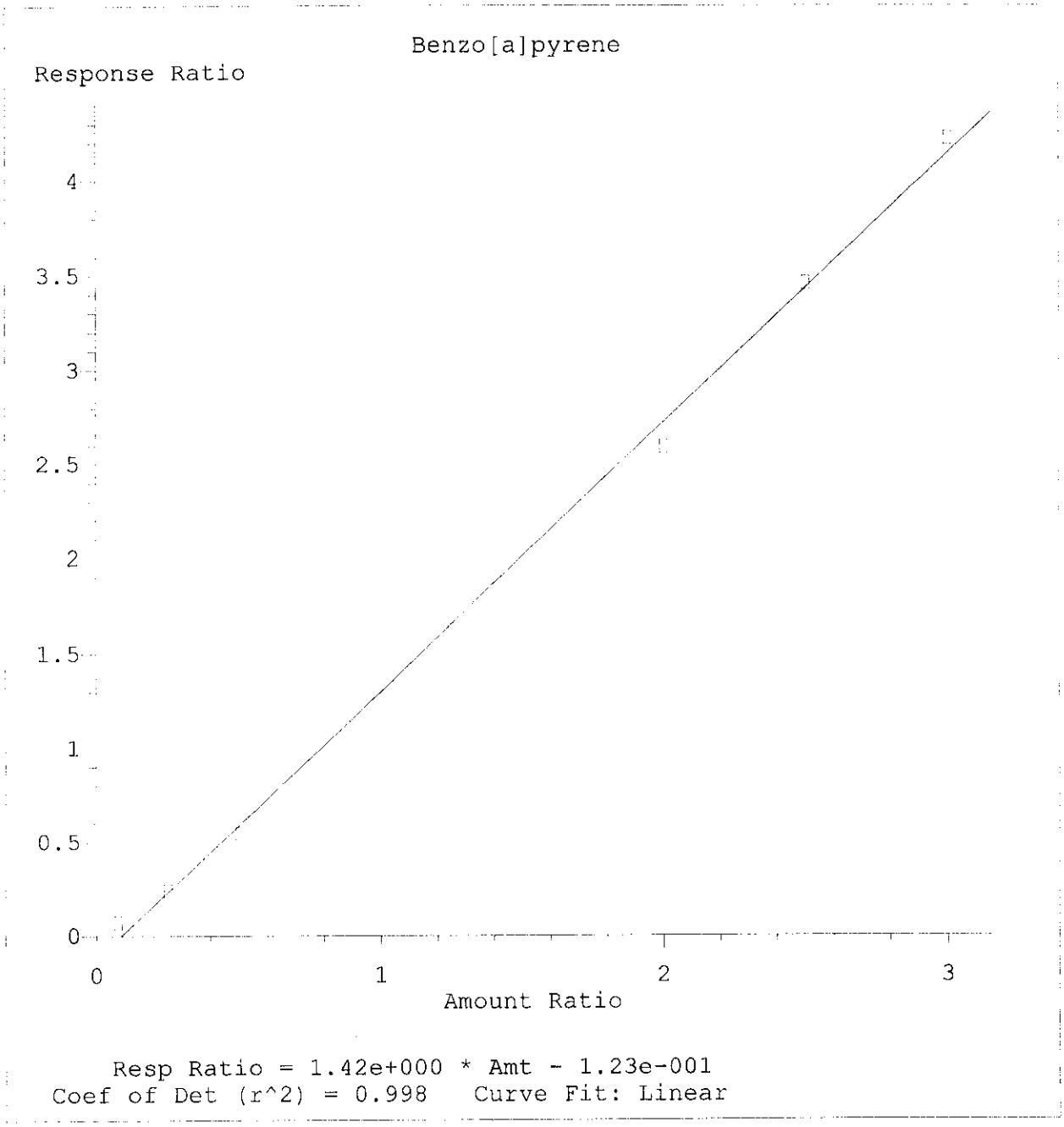
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:32:13 2001



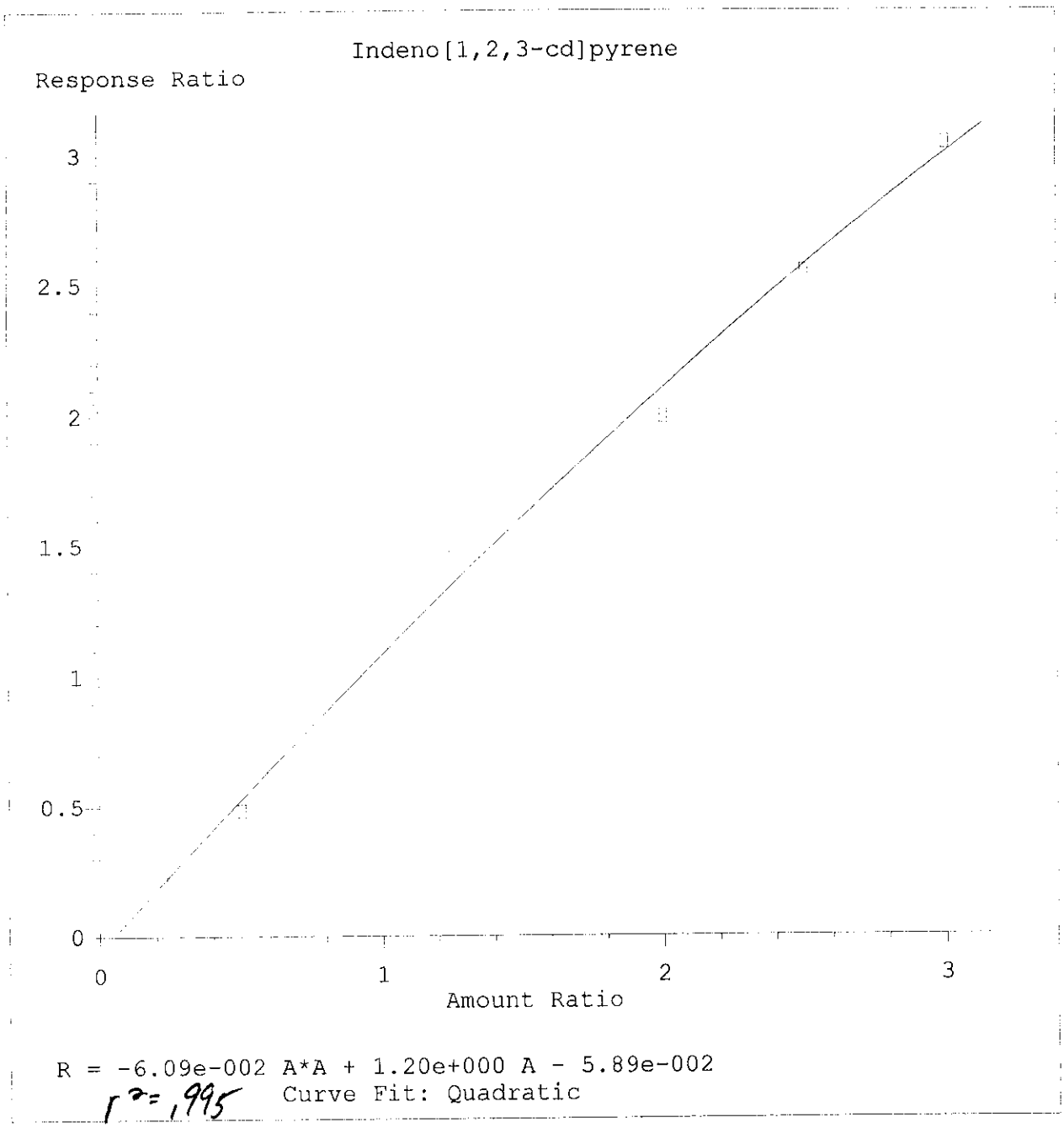
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:32:22 2001



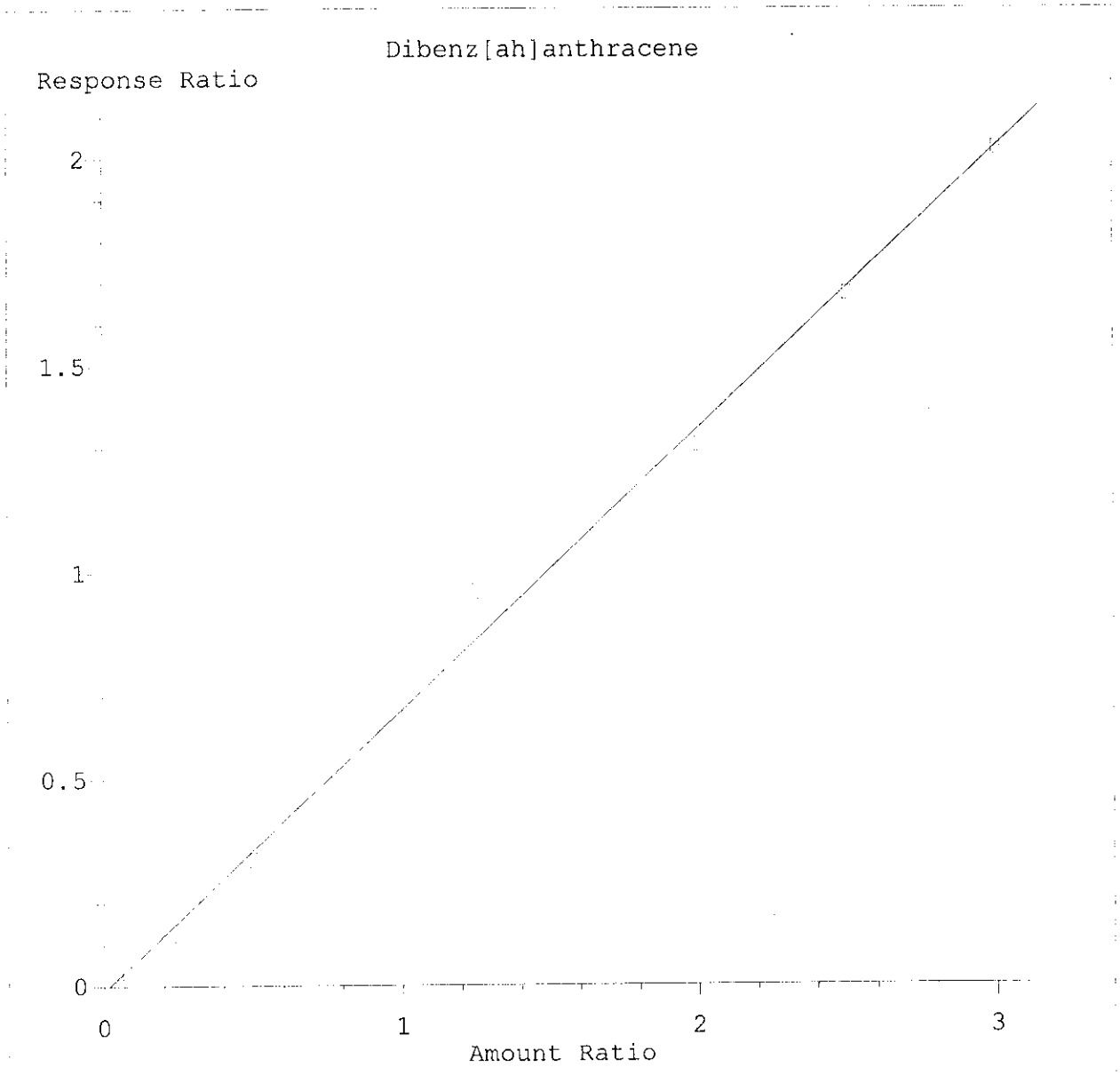
Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:32:34 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:32:57 2001



Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:33:06 2001



Resp Ratio = 6.80e-001 * Amt - 1.31e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\BNA.M
Calibration Table Last Updated: Thu May 24 13:33:15 2001

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:57 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:33:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	143335	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	527708	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	295992	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	527192	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	567221	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	466370	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	205780	47.41	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 47.41%			
6) Phenol-d5	7.87	99	267467	47.14	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 47.14%			
20) Nitrobenzene-d5	8.84	82	254358	48.56	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 97.12%			
38) 2-Fluorobiphenyl	10.64	172	498134	47.84	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 95.68%			
55) 2,4,6-Tribromophenol	12.18	330	69885	47.21	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 47.21%			
70) p-Terphenyl-d14	14.47	244	750159	51.17	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 102.34%			
Target Compounds						Qvalue
2) Pyridine	5.13	79	218464	48.98	ug/mL	99
3) n-Nitrosodimethylamine	5.13	74	119873	46.66	ug/mL	100
5) Aniline	7.94	66	119404	44.50	ug/mL	98
7) Phenol	7.88	94	267940	44.78	ug/mL	100
8) bis(2-Chloroethyl)ether	7.98	63	146233	45.58	ug/mL	99
9) 2-Chlorophenol	8.06	128	226304	45.39	ug/mL	100
10) 1,3-Dichlorobenzene	8.21	146	269896	44.48	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	281327	44.24	ug/mL	100
12) Benzyl Alcohol	8.39	108	138891	46.68	ug/mL	100
13) 1,2-Dichlorobenzene	8.45	146	262660	45.46	ug/mL	100
14) 2-Methylphenol	8.49	107	164670	45.32	ug/mL	95
15) bis(2-Chloroisopropyl)ethe	8.51	45	206786	38.13	ug/mL#	58
16) 4-Methylphenol	8.63	107	244193	44.91	ug/mL	100
17) n-Nitrosodipropylamine	8.65	70	151521	47.38	ug/mL	100
18) Hexachloroethane	8.78	117	110604	42.37	ug/mL	99
21) Nitrobenzene	8.86	77	245123	46.27	ug/mL	100
22) Isophorone	9.08	82	436403	52.43	ug/mL	99
23) 2-Nitrophenol	9.18	139	126751	45.51	ug/mL	99
24) 2,4-Dimethylphenol	9.17	122	218956	45.83	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:57 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:33:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	246097	44.73	ug/mL	99
26) Benzoic Acid	9.25	122	82696	44.32	ug/mL	97
27) 2,4-Dichlorophenol	9.41	162	197574	44.48	ug/mL	99
28) 1,2,4-Trichlorobenzene	9.50	180	238101	43.57	ug/mL	100
29) Naphthalene	9.59	128	652778	42.13	ug/mL	100
30) 4-Chloroaniline	9.64	127	270771	44.81	ug/mL	99
31) Hexachlorobutadiene	9.69	225	161999	47.89	ug/mL	100
32) 4-Chloro-3-Methylphenol	10.08	107	178615	46.45	ug/mL	100
33) 2-Methylnaphthalene	10.28	142	463655	44.32	ug/mL	100
35) Hexachlorocyclopentadiene	10.44	237	119597	48.77	ug/mL	100
36) 2,4,6-Trichlorophenol	10.57	196	142923	47.28	ug/mL	99
37) 2,4,5-Trichlorophenol	10.61	196	151303	47.29	ug/mL	99
39) 2-Chloronaphthalene	10.80	162	436389	45.12	ug/mL	100
40) 2-Nitroaniline	10.90	65	115891	46.08	ug/mL	99
41) Dimethylphthalate	11.04	163	458883	44.78	ug/mL	100
42) Acenaphthylene	11.23	152	642623	47.50	ug/mL	100
43) 2,6-Dinitrotoluene	11.14	165	106097	48.73	ug/mL	99
44) 3-Nitroaniline	11.32	138	111796	50.15	ug/mL	100
45) Acenaphthene	11.40	154	432116	46.33	ug/mL	100
46) 2,4-Dinitrophenol	11.42	184	47088	46.15	ug/mL#	60
47) 4-Nitrophenol	11.45	65	82559	47.03	ug/mL	100
48) Dibenzofuran	11.57	168	591542	45.18	ug/mL	100
49) 2,4-Dinitrotoluene	11.55	165	146423	45.81	ug/mL	98
50) Diethylphthalate	11.74	149	465979	45.37	ug/mL	100
51) Fluorene	11.92	166	492804	44.64	ug/mL	99
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	240762	45.25	ug/mL	100
53) 4-Nitroaniline	11.95	138	116126	50.03	ug/mL	95
54) 1,2-Diphenylhydrazine	12.05	77	477230	45.17	ug/mL	100
57) 4,6-Dinitro-2-Methylphenol	11.96	198	90519	45.46	ug/mL	100
58) n-Nitrosodiphenylamine	12.01	169	338992	44.44	ug/mL	100
59) 4-Bromophenyl Phenyl Ether	12.39	248	137630	41.25	ug/mL	99
60) Hexachlorobenzene	12.50	284	178571	46.82	ug/mL	100
61) Pentachlorophenol	12.70	266	80930	42.93	ug/mL	100
62) Phenanthrene	12.92	178	746217	42.30	ug/mL	100
63) Anthracene	12.97	178	767948	44.70	ug/mL	100
64) Carbazole	13.12	167	643039	43.13	ug/mL	100
65) Di-n-Butyl Phthalate	13.38	149	850644	46.02	ug/mL	100
66) Fluoranthene	14.14	202	895822	43.59	ug/mL	100
68) Benzidine	14.24	184	295387	56.75	ug/mL	100
69) Pyrene	14.38	202	955042	46.27	ug/mL	100
71) Butyl Benzyl Phthalate	14.92	149	395859	49.56	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:57 2001 Quant Results File: BNA.RES

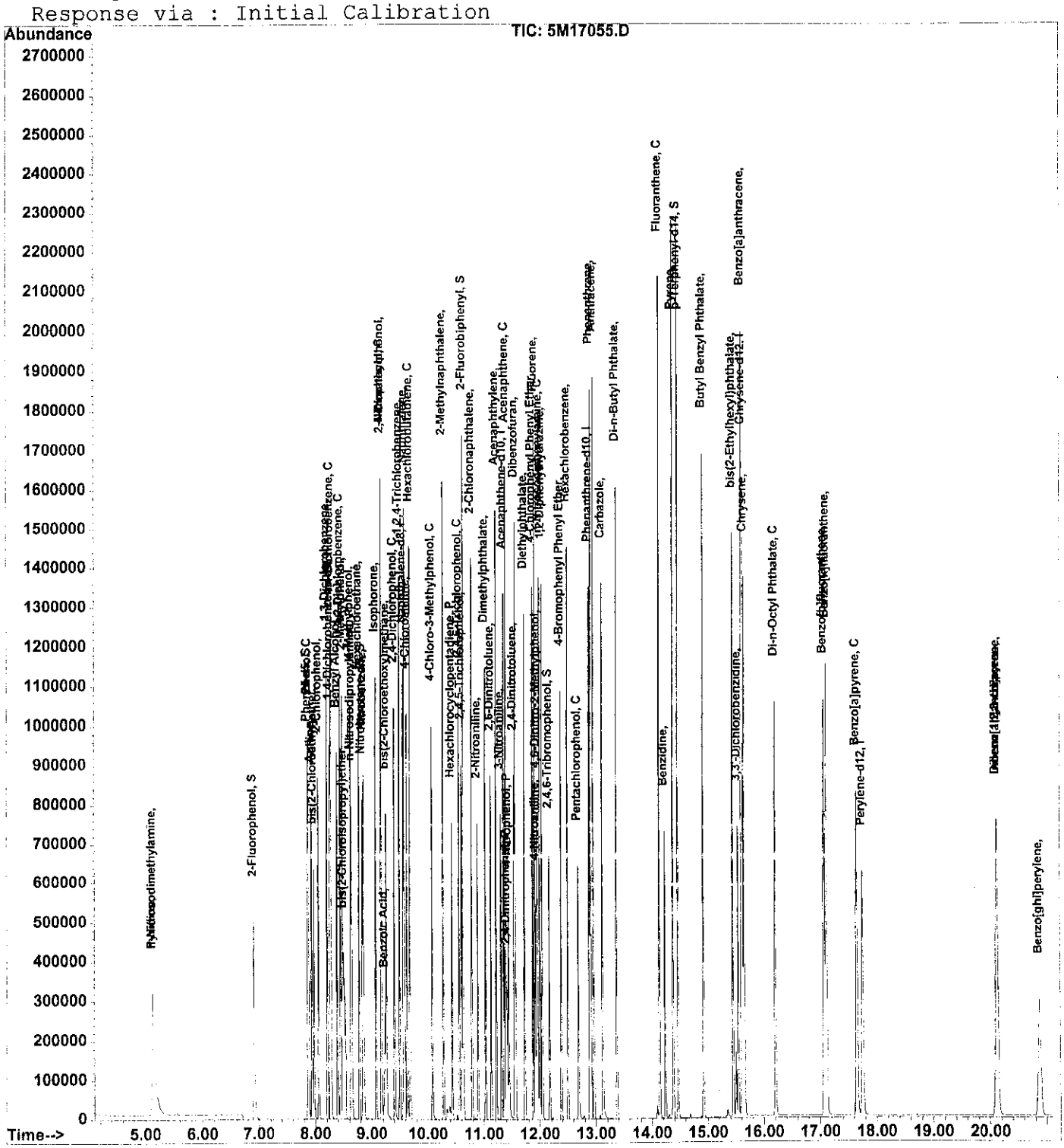
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:33:22 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	15.61	228	907117	47.31	ug/mL	100
73)	3,3'-Dichlorobenzidine	15.54	252	183925	42.10	ug/mL	100
74)	Chrysene	15.66	228	592049	33.15	ug/mL	100
75)	bis(2-Ethylhexyl)phthalate	15.45	149	516554	48.89	ug/mL	100
77)	Di-n-Octyl Phthalate	16.21	149	784136	47.75	ug/mL	100
78)	Benzo[b]fluoranthene	17.07	252	758180	43.96	ug/mL	97
79)	Benzo[k]fluoranthene	17.11	252	759653	48.00	ug/mL	97
80)	Benzo[a]pyrene	17.65	252	635847	41.84	ug/mL	99
81)	Indeno[1,2,3-cd]pyrene	20.13	276	593861	47.05	ug/mL	99
82)	Dibenz[ah]anthracene	20.13	278	426766	54.61	ug/mL	100
83)	Benzo[ghi]perylene	20.88	276	424538	50.59	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 13:57 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	113	0.00
2		Pyridine	50.000	48.984	2.0	103	0.00
3		n-Nitrosodimethylamine	50.000	46.659	6.7	100	0.00
4	S	2-Fluorophenol	50.000	47.412	5.2	103	0.00
5		Aniline	50.000	44.501	11.0	97	0.00
6	S	Phenol-d5	50.000	47.136	5.7	102	0.00
7	C	Phenol	50.000	44.784	10.4	98	0.00
8		bis(2-Chloroethyl)ether	50.000	45.576	8.8	101	0.00
9		2-Chlorophenol	50.000	45.386	9.2	98	0.00
10		1,3-Dichlorobenzene	50.000	44.479	11.0	99	0.00
11	C	1,4-Dichlorobenzene	50.000	44.239	11.5	99	0.00
12		Benzyl Alcohol	50.000	46.680	6.6	98	0.00
13	C	1,2-Dichlorobenzene	50.000	45.461	9.1	101	0.00
14		2-Methylphenol	50.000	45.322	9.4	99	0.00
15		bis(2-Chloroisopropyl)ether	50.000	38.128	23.7	87	0.00
16		4-Methylphenol	50.000	44.909	10.2	97	0.00
17	P	n-Nitrosodipropylamine	50.000	47.378	5.2	104	0.00
18		Hexachloroethane	50.000	42.374	15.3	94	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	111	0.00
20	S	Nitrobenzene-d5	50.000	48.559	2.9	103	0.00
21		Nitrobenzene	50.000	46.270	7.5	100	0.00
22		Isophorone	50.000	52.429	-4.9	110	0.00
23	C	2-Nitrophenol	50.000	45.511	9.0	97	0.00
24		2,4-Dimethylphenol	50.000	45.829	8.3	102	0.00
25		bis(2-Chloroethoxy)methane	50.000	44.734	10.5	98	0.00
26		Benzoic Acid	50.000	44.320	11.4	83	0.00
27	C	2,4-Dichlorophenol	50.000	44.475	11.1	94	0.00
28		1,2,4-Trichlorobenzene	50.000	43.575	12.8	96	0.00
29		Naphthalene	50.000	42.128	15.7	94	0.00
30		4-Chloroaniline	50.000	44.813	10.4	97	0.00
31	C	Hexachlorobutadiene	50.000	47.891	4.2	108	0.00
32	C	4-Chloro-3-Methylphenol	50.000	46.448	7.1	96	0.00
33		2-Methylnaphthalene	50.000	44.317	11.4	98	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	107	0.00
35	P	Hexachlorocyclopentadiene	50.000	48.773	2.5	111	0.00
36	C	2,4,6-Trichlorophenol	50.000	47.283	5.4	92	0.00
37		2,4,5-Trichlorophenol	50.000	47.292	5.4	92	0.00
38	S	2-Fluorobiphenyl	50.000	47.840	4.3	101	0.00
39		2-Chloronaphthalene	50.000	45.124	9.8	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	46.075	7.8	94	0.00
41		Dimethylphthalate	50.000	44.784	10.4	92	0.00
42		Acenaphthylene	50.000	47.504	5.0	98	0.00
43		2,6-Dinitrotoluene	50.000	48.734	2.5	96	0.00
44		3-Nitroaniline	50.000	50.154	-0.3	96	0.00
45	C	Acenaphthene	50.000	46.327	7.3	97	0.00
46	P	2,4-Dinitrophenol	50.000	46.148	7.7	91	0.00
47	P	4-Nitrophenol	50.000	47.031	5.9	97	0.00
48		Dibenzofuran	50.000	45.176	9.6	99	0.00
49		2,4-Dinitrotoluene	50.000	45.811	8.4	98	0.00
50		Diethylphthalate	50.000	45.368	9.3	94	0.00
51		Fluorene	50.000	44.639	10.7	96	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	45.250	9.5	93	0.00
53		4-Nitroaniline	50.000	50.028	-0.1	102	0.00
54		1,2-Diphenylhydrazine	50.000	45.168	9.7	95	0.00
55	S	2,4,6-Tribromophenol	50.000	47.207	5.6	93	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	110	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	45.457	9.1	100	0.00
58	C	n-Nitrosodiphenylamine	50.000	44.441	11.1	94	0.00
59		4-Bromophenyl Phenyl Ether	50.000	41.248	17.5	84	0.00
60		Hexachlorobenzene	50.000	46.817	6.4	97	0.00
61	C	Pentachlorophenol	50.000	42.933	14.1	90	0.00
62		Phenanthrene	50.000	42.302	15.4	92	0.00
63		Anthracene	50.000	44.697	10.6	97	0.00
64		Carbazole	50.000	43.127	13.7	94	0.00
65		Di-n-Butyl Phthalate	50.000	46.022	8.0	97	0.00
66	C	Fluoranthene	50.000	43.593	12.8	92	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	108	0.00
68		Benzidine	50.000	56.746	-13.5	115	0.00
69		Pyrene	50.000	46.269	7.5	94	0.00
70	S	p-Terphenyl-d14	50.000	51.170	-2.3	102	0.00
71		Butyl Benzyl Phthalate	50.000	49.561	0.9	98	0.00
72		Benzo[a]anthracene	50.000	47.308	5.4	95	0.00
73		3,3'-Dichlorobenzidine	50.000	42.103	15.8	88	0.00
74		Chrysene	50.000	33.149	33.7	68	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	48.895	2.2	97	0.00
76	I	Perylene-d12	40.000	40.000	0.0	111	0.00
77	C	Di-n-Octyl Phthalate	50.000	47.751	4.5	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	43.960	12.1	93	0.00
79		Benzo[k]fluoranthene	50.000	48.000	4.0	101	0.00
80	C	Benzo[a]pyrene	50.000	41.838	16.3	94	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	47.054	5.9	95	0.00
82		Dibenz[ah]anthracene	50.000	54.607	-9.2	107	0.00
83		Benzo[ghi]perylene	50.000	50.589	-1.2	91	0.00

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
2		Pyridine	1.245	1.219	2.1	103	0.00
3		n-Nitrosodimethylamine	0.717	0.669	6.7	100	0.00
4	S	2-Fluorophenol	1.211	1.149	5.1	103	0.00
5		Aniline	0.749	0.666	11.1	97	0.00
6	S	Phenol-d5	1.584	1.493	5.7	102	0.00
7	C	Phenol	1.670	1.495	10.5	98	0.00
8		bis(2-Chloroethyl)ether	0.895	0.816	8.8	101	0.00
9		2-Chlorophenol	1.391	1.263	9.2	98	0.00
10		1,3-Dichlorobenzene	1.693	1.506	11.0	99	0.00
11	C	1,4-Dichlorobenzene	1.775	1.570	11.5	99	0.00
12		Benzyl Alcohol	0.830	0.775	6.6	98	0.00
13	C	1,2-Dichlorobenzene	1.612	1.466	9.1	101	0.00
14		2-Methylphenol	1.014	0.919	9.4	99	0.00
15		bis(2-Chloroisopropyl)ether	1.513	1.154	23.7	87	0.00
16		4-Methylphenol	1.517	1.363	10.2	97	0.00
17	P	n-Nitrosodipropylamine	0.892	0.846	5.2	104	0.00
18		Hexachloroethane	0.728	0.617	15.2	94	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
20	S	Nitrobenzene-d5	0.397	0.386	2.8	103	0.00
21		Nitrobenzene	0.402	0.372	7.5	100	0.00
22		Isophorone	0.631	0.662	-4.9	110	0.00
23	C	2-Nitrophenol	0.220	0.192	12.7	97	0.00
24		2,4-Dimethylphenol	0.362	0.332	8.3	102	0.00
25		bis(2-Chloroethoxy)methane	0.417	0.373	10.6	98	0.00
26		Benzoic Acid	0.142	0.125	12.0	83	0.00
27	C	2,4-Dichlorophenol	0.337	0.300	11.0	94	0.00
28		1,2,4-Trichlorobenzene	0.414	0.361	12.8	96	0.00
29		Naphthalene	1.175	0.990	15.7	94	0.00
30		4-Chloroaniline	0.458	0.410	10.5	97	0.00
31	C	Hexachlorobutadiene	0.256	0.246	3.9	108	0.00
32	C	4-Chloro-3-Methylphenol	0.291	0.271	6.9	96	0.00
33		2-Methylnaphthalene	0.793	0.703	11.3	98	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
35	P	Hexachlorocyclopentadiene	0.258	0.323	-25.2	111	0.00
36	C	2,4,6-Trichlorophenol	0.408	0.386	5.4	92	0.00
37		2,4,5-Trichlorophenol	0.432	0.409	5.3	92	0.00
38	S	2-Fluorobiphenyl	1.407	1.346	4.3	101	0.00
39		2-Chloronaphthalene	1.307	1.179	9.8	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.340	0.313	7.9	94	0.00
41		Dimethylphthalate	1.385	1.240	10.5	92	0.00
42		Acenaphthylene	1.828	1.737	5.0	98	0.00
43		2,6-Dinitrotoluene	0.294	0.287	2.4	96	0.00
44		3-Nitroaniline	0.301	0.302	-0.3	96	0.00
45	C	Acenaphthene	1.261	1.168	7.4	97	0.00
46	P	2,4-Dinitrophenol	0.135	0.127	5.9	91	0.00
47	P	4-Nitrophenol	0.237	0.223	5.9	97	0.00
48		Dibenzofuran	1.770	1.599	9.7	99	0.00
49		2,4-Dinitrotoluene	0.396	0.396	0.0	98	0.00
50		Diethylphthalate	1.388	1.259	9.3	94	0.00
51		Fluorene	1.492	1.332	10.7	96	0.00
52		4-Chlorophenyl Phenyl Ether	0.746	0.651	12.7	93	0.00
53		4-Nitroaniline	0.314	0.314	0.0	102	0.00
54		1,2-Diphenylhydrazine	1.428	1.290	9.7	95	0.00
55	S	2,4,6-Tribromophenol	0.201	0.189	6.0	93	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
57		4,6-Dinitro-2-Methylphenol	0.151	0.137	9.3	100	0.00
58	C	n-Nitrosodiphenylamine	0.579	0.514	11.2	94	0.00
59		4-Bromophenyl Phenyl Ether	0.264	0.209	20.8	84	0.00
60		Hexachlorobenzene	0.298	0.271	9.1	97	0.00
61	C	Pentachlorophenol	0.133	0.123	7.5	90	0.00
62		Phenanthrene	1.338	1.132	15.4	92	0.00
63		Anthracene	1.304	1.165	10.7	97	0.00
64		Carbazole	1.131	0.976	13.7	94	0.00
65		Di-n-Butyl Phthalate	1.402	1.291	7.9	97	0.00
66	C	Fluoranthene	1.559	1.359	12.8	92	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	108	0.00
68		Benzidine	0.367	0.417	-13.6	115	0.00
69		Pyrene	1.456	1.347	7.5	94	0.00
70	S	p-Terphenyl-d14	1.034	1.058	-2.3	102	0.00
71		Butyl Benzyl Phthalate	0.563	0.558	0.9	98	0.00
72		Benzo[a]anthracene	1.352	1.279	5.4	95	0.00
73		3,3'-Dichlorobenzidine	0.308	0.259	15.9	88	0.00
74		Chrysene	1.259	0.835	33.7	68	0.00
75		bis(2-Ethylhexyl)phthalate	0.745	0.729	2.1	97	0.00
76	I	Perylene-d12	1.000	1.000	0.0	111	0.00
77	C	Di-n-Octyl Phthalate	1.408	1.345	4.5	95	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052401\5M17055.D Vial: 10
Acq On : 24 May 2001 13:35 Operator: CLK
Sample : 50PPM Alt Source BNA STD Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.359	1.301	4.3	93	0.00
79		Benzo[k]fluoranthene	1.357	1.303	4.0	101	0.00
80	C	Benzo[a]pyrene	1.197	1.091	8.9	94	0.00
81		Indeno[1,2,3-cd]pyrene	0.965	1.019	-5.6	95	0.00
82		Dibenz[ah]anthracene	0.617	0.732	-18.6	107	0.00
83		Benzo[ghi]perylene	0.720	0.728	-1.1	91	0.00

Continuing calibration Area and RT check

Instrument: HPMS7
Initial cal date: 21 May 2001 18:14
CCV date: 24 May 2001 12:27
CCV filename: 7M13071.D

	Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT
InitCal	449212	6.56	229149	8.34
CCV	491828	6.56	262079	8.34

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	370678	9.90	339209	12.71	274829	15.23
CCV	423878	9.90	394156	12.71	314334	15.23

Data File : C:\MSDCHEM\1\DATA\052401\7M13071.D
Acq On : 24 May 2001 12:27
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
2	S	Nitrobenzene-d5	0.283	0.331	-17.0	113	0.00
3		Naphthalene	1.119	1.134	-1.3	111	0.00
4		2-Methylnaphthalene	0.710	0.726	-2.3	112	0.00
5		1-Methylnaphthalene	0.687	0.683	0.6	111	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
7	S	2-Fluorobiphenyl	1.471	1.462	0.6	114	0.00
8		Acenaphthylene	1.739	1.950	-12.1	116	0.00
9	C	Acenaphthene	1.272	1.233	3.1	111	0.00
10		Fluorene	1.378	1.439	-4.4	117	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
12		Phenanthrene	1.286	1.286	0.0	117	0.00
13		Anthracene	1.099	1.212	-10.3	119	0.00
14	C	Fluoranthene	1.334	1.414	-6.0	118	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	116	0.00
16		Pyrene	1.536	1.588	-3.4	118	0.00
17	S	p-Terphenyl-d14	1.088	1.115	-2.5	117	0.00
18		Benzo[a]anthracene	1.260	1.344	-6.7	118	0.00
19		Chrysene	1.404	1.342	4.4	112	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	114	-0.02
21		Benzo[b]fluoranthene	1.667	1.649	1.1	112	-0.01
22		Benzo[k]fluoranthene	1.621	1.515	6.5	110	-0.01
23	C	Benzo[a]pyrene	1.304	1.313	-0.7	115	-0.01
24		Indeno[1,2,3-cd]pyrene	1.493	1.391	6.8	98	-0.02
25		Dibenz[ah]anthracene	1.217	1.090	10.4	96	-0.02
26		Benzo[ghi]perylene	1.368	1.189	13.1	95	-0.03

Data File : C:\MSDCHEM\1\DATA\052401\7M13071.D
Acq On : 24 May 2001 12:27
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
2	S	Nitrobenzene-d5	1.000	1.069	-6.9	113	0.00
3		Naphthalene	1.000	1.013	-1.3	111	0.00
4		2-Methylnaphthalene	1.000	1.023	-2.3	112	0.00
5		1-Methylnaphthalene	1.000	0.995	0.5	111	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
7	S	2-Fluorobiphenyl	1.000	0.994	0.6	114	0.00
8		Acenaphthylene	1.000	1.017	-1.7	116	0.00
9	C	Acenaphthene	1.000	0.970	3.0	111	0.00
10		Fluorene	1.000	1.044	-4.4	117	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
12		Phenanthrene	1.000	1.001	-0.1	117	0.00
13		Anthracene	1.000	1.103	-10.3	119	0.00
14	C	Fluoranthene	1.000	1.060	-6.0	118	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	116	0.00
16		Pyrene	1.000	1.034	-3.4	118	0.00
17	S	p-Terphenyl-d14	1.000	1.025	-2.5	117	0.00
18		Benzo[a]anthracene	1.000	1.067	-6.7	118	0.00
19		Chrysene	1.000	0.956	4.4	112	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	114	-0.02
21		Benzo[b]fluoranthene	1.000	0.989	1.1	112	-0.01
22		Benzo[k]fluoranthene	1.000	0.935	6.5	110	-0.01
23	C	Benzo[a]pyrene	1.000	1.007	-0.7	115	-0.01
24		Indeno[1,2,3-cd]pyrene	1.000	0.855	14.5	98	-0.02
25		Dibenz[ah]anthracene	1.000	0.844	15.6	96	-0.02
26		Benzo[ghi]perylene	1.000	0.869	13.1	95	-0.03

Data File : C:\MSDCHEM\1\DATA\052401\7M13071.D Vial: 2
Acq On : 24 May 2001 12:27 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 12:46:36 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	491828	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	262079	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	423878	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	394156	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	314334	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	162979	1.07	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 42.80%			
7) 2-Fluorobiphenyl	7.60	172	383055	0.99	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 39.60%#			
17) p-Terphenyl-d14	11.45	244	439340	1.02	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 40.80%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	557498	1.01	ug/ml	99
4) 2-Methylnaphthalene	7.26	142	357281	1.02	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	335812	0.99	ug/ml	98
8) Acenaphthylene	8.20	152	510967	1.02	ug/ml	100
9) Acenaphthene	8.38	154	323244	0.97	ug/ml	98
10) Fluorene	8.90	166	377128	1.04	ug/ml	99
12) Phenanthrene	9.90	178	545237	1.00	ug/ml	100
13) Anthracene	9.95	178	513808	1.10	ug/ml	99
14) Fluoranthene	11.13	202	599299	1.06	ug/ml	99
16) Pyrene	11.38	202	625735	1.03	ug/ml	99
18) Benzo[a]anthracene	12.69	228	529903	1.07	ug/ml	100
19) Chrysene	12.74	228	529106	0.96	ug/ml	100
21) Benzo[b]fluoranthene	14.40	252	518450	0.99	ug/ml	100
22) Benzo[k]fluoranthene	14.45	252	476187	0.93	ug/ml	97
23) Benzo[a]pyrene	15.09	252	412584	1.01	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.04	276	437105	0.86	ug/ml#	100
25) Dibenz[ah]anthracene	18.04	278	342772	0.84	ug/ml	100
26) Benzo[ghi]perylene	18.93	276	373621	0.87	ug/ml	99

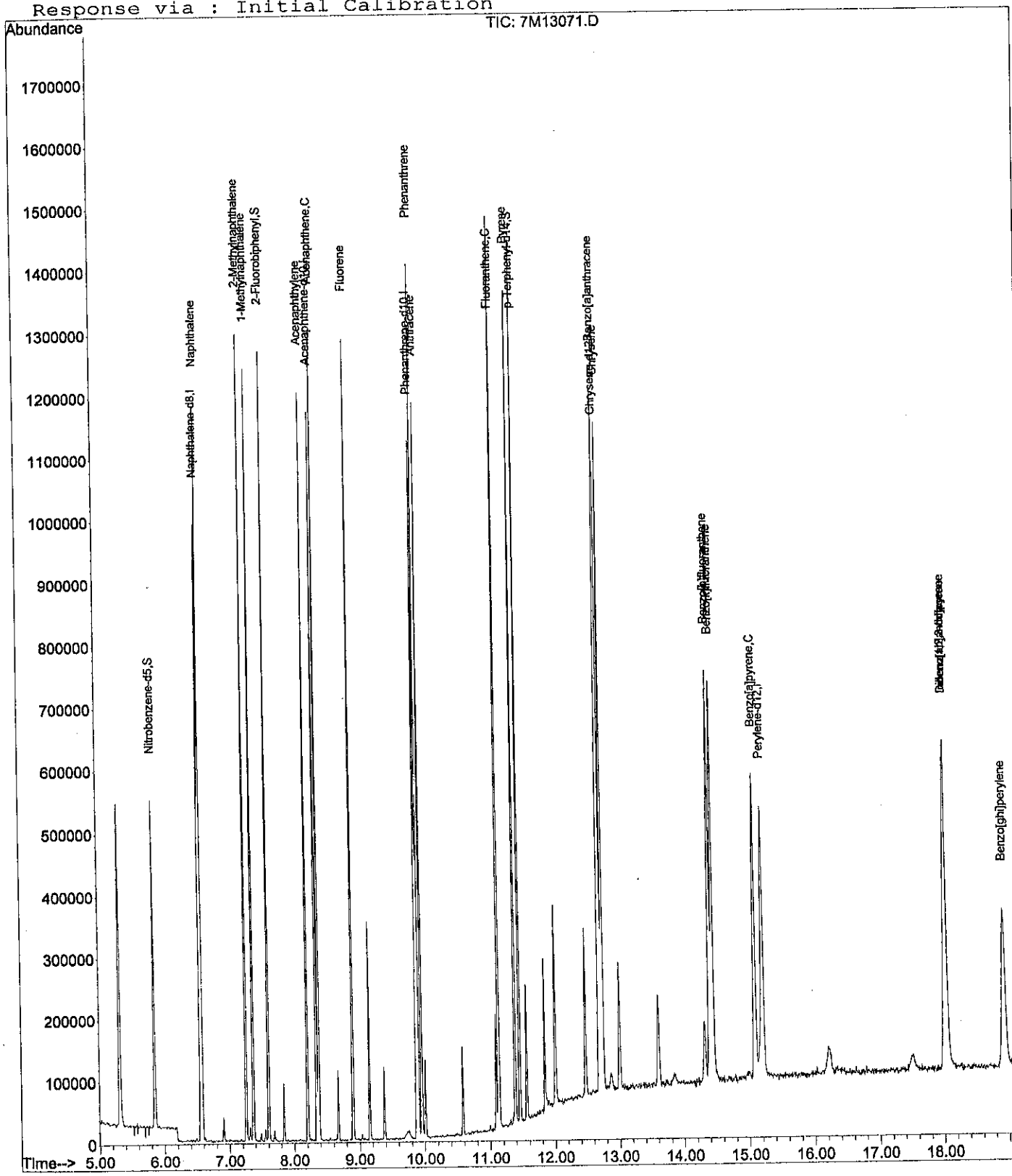
(#) = qualifier out of range (m) = manual integration
7M13071.D PAHLOW.M Thu May 24 12:47:31 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052401\7M13071.D
Acq On : 24 May 2001 12:27
Sample : 1ppm PAH STD (S53-45-1)
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 24 12:46 2001

Vial: 2
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



7M13071.D PAHLOW.M Thu May 24 12:47:32 2001 Page 505

Continuing calibration Area and RT check

Instrument: HPMS3
Initial cal date: 22 May 2001 13:13
CCV date: 29 May 2001 9:40
CCV filename: 3M22969.D

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT	Amount	RT
InitCal	253217	9.89	934868	11.27	474013	13.11
CCV	192856	9.87	732783	11.25	370459	13.09

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	615150	14.66	512288	17.60	646777	20.38
CCV	497071	14.63	424387	17.58	527074	20.35

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	76	0.00
2		Pyridine	50.000	54.642	-9.3	77	-0.03
3		n-Nitrosodimethylamine	50.000	54.508	-9.0	77	-0.03
4	S	2-Fluorophenol	50.000	53.214	-6.4	78	0.00
5		Aniline	50.000	56.040	-12.1	81	0.00
6	S	Phenol-d5	50.000	54.685	-9.4	79	0.00
7	C	Phenol	50.000	55.305	-10.6	80	0.00
8		bis(2-Chloroethyl)ether	50.000	58.741	-17.5	80	0.00
9		2-Chlorophenol	50.000	52.311	-4.6	77	0.00
10		1,3-Dichlorobenzene	50.000	51.574	-3.1	77	0.00
11	C	1,4-Dichlorobenzene	50.000	51.748	-3.5	77	0.00
12		Benzyl Alcohol	50.000	55.348	-10.7	80	0.00
13	C	1,2-Dichlorobenzene	50.000	51.488	-3.0	77	0.00
14		2-Methylphenol	50.000	53.965	-7.9	79	0.00
15		bis(2-Chloroisopropyl)ether	50.000	60.218	-20.4	86	0.00
16		4-Methylphenol	50.000	54.944	-9.9	80	0.00
17	P	n-Nitrosodipropylamine	50.000	57.555	-15.1	82	0.00
18		Hexachloroethane	50.000	54.020	-8.0	80	0.00
19	I	Naphthalene-d8	40.000	40.000	0.0	78	0.00
20	S	Nitrobenzene-d5	50.000	56.044	-12.1	84	0.00
21		Nitrobenzene	50.000	55.080	-10.2	82	0.00
22		Isophorone	50.000	54.454	-8.9	82	0.00
23	C	2-Nitrophenol	50.000	52.354	-4.7	79	0.00
24		2,4-Dimethylphenol	50.000	50.666	-1.3	77	0.00
25		bis(2-Chloroethoxy)methane	50.000	54.046	-8.1	83	0.00
26		Benzoic Acid	50.000	58.910	-17.8	89	0.01
27	C	2,4-Dichlorophenol	50.000	50.434	-0.9	77	0.00
28		1,2,4-Trichlorobenzene	50.000	50.624	-1.2	79	0.00
29		Naphthalene	50.000	50.194	-0.4	77	0.01
30		4-Chloroaniline	50.000	71.260	-42.5#	104	0.00
31	C	Hexachlorobutadiene	50.000	53.738	-7.5	85	0.01
32	C	4-Chloro-3-Methylphenol	50.000	55.484	-11.0	84	0.00
33		2-Methylnaphthalene	50.000	50.523	-1.0	78	0.00
34	I	Acenaphthene-d10	40.000	40.000	0.0	78	0.00
35		Hexachlorocyclopentadiene	50.000	49.501	1.0	79	0.00
36	C	2,4,6-Trichlorophenol	50.000	54.055	-8.1	82	0.00
37		2,4,5-Trichlorophenol	50.000	55.406	-10.8	92	0.00
38	S	2-Fluorobiphenyl	50.000	50.954	-1.9	78	0.00
39		2-Chloronaphthalene	50.000	50.937	-1.9	78	0.00

(#)=Out of Range
3M22969.D BNA.M Tue May 29 10:13:20 2001 HPMS3 Page 1

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Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		2-Nitroaniline	50.000	61.322	-22.6	88	0.00
41		Dimethylphthalate	50.000	52.262	-4.5	80	0.00
42		Acenaphthylene	50.000	52.178	-4.4	79	0.01
43		2,6-Dinitrotoluene	50.000	54.324	-8.6	79	0.00
44		3-Nitroaniline	50.000	55.077	-10.2	82	0.00
45	C	Acenaphthene	50.000	52.955	-5.9	80	0.00
46	P	2,4-Dinitrophenol	50.000	54.960	-9.9	83	0.01
47	P	4-Nitrophenol	50.000	58.806	-17.6	88	0.00
48		Dibenzofuran	50.000	51.070	-2.1	78	0.01
49		2,4-Dinitrotoluene	50.000	54.189	-8.4	79	0.00
50		Diethylphthalate	50.000	54.915	-9.8	84	0.01
51		Fluorene	50.000	51.414	-2.8	79	0.00
52		4-Chlorophenyl Phenyl Ether	50.000	52.289	-4.6	81	0.00
53		4-Nitroaniline	50.000	53.620	-7.2	80	0.00
54		1,2-Diphenylhydrazine	50.000	59.811	-19.6	93	0.00
55	S	2,4,6-Tribromophenol	50.000	55.380	-10.8	88	0.00
56	I	Phenanthrene-d10	40.000	40.000	0.0	81	0.00
57		4,6-Dinitro-2-Methylphenol	50.000	52.235	-4.5	82	0.00
58	C	n-Nitrosodiphenylamine	50.000	51.034	-2.1	80	0.00
59		4-Bromophenyl Phenyl Ether	50.000	50.381	-0.8	80	0.00
60		Hexachlorobenzene	50.000	50.442	-0.9	81	0.00
61	C	Pentachlorophenol	50.000	52.721	-5.4	85	0.00
62		Phenanthrene	50.000	50.281	-0.6	80	0.01
63		Anthracene	50.000	50.735	-1.5	80	0.01
64		Carbazole	50.000	48.650	2.7	77	0.01
65		Di-n-Butyl Phthalate	50.000	54.259	-8.5	84	0.01
66	C	Fluoranthene	50.000	51.171	-2.3	81	0.00
67	I	Chrysene-d12	40.000	40.000	0.0	83	0.00
68		Benzidine	50.000	32.099	35.8	58	0.00
69		Pyrene	50.000	50.491	-1.0	81	0.00
70	S	p-Terphenyl-d14	50.000	51.407	-2.8	82	0.00
71		Butyl Benzyl Phthalate	50.000	53.963	-7.9	85	0.00
72		Benzo[a]anthracene	50.000	51.016	-2.0	83	0.00
73		3,3'-Dichlorobenzidine	50.000	54.578	-9.2	86	0.00
74		Chrysene	50.000	51.800	-3.6	83	0.00
75		bis(2-Ethylhexyl)phthalate	50.000	55.531	-11.1	86	0.00
76	I	Perylene-d12	40.000	40.000	0.0	81	0.00
77	C	Di-n-Octyl Phthalate	50.000	57.301	-14.6	87	0.00

(#)=Out of Range
3M22969.D BNA.M Tue May 29 10:13:23 2001 HPMS3 Page 2

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D
Acq On : 29 May 2001 9:40
Sample : 50PPM BNA STD
Misc : WATER,1
MS Integration Params: rteint.p

Vial: 2
Operator: CLK
Inst : HPMS3
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	50.000	52.308	-4.6	78	0.00
79		Benzo[k]fluoranthene	50.000	50.407	-0.8	86	0.00
80	C	Benzo[a]pyrene	50.000	51.223	-2.4	81	0.00
81		Indeno[1,2,3-cd]pyrene	50.000	51.973	-3.9	82	0.00
82		Dibenz[ah]anthracene	50.000	52.492	-5.0	83	0.00
83		Benzo[ghi]perylene	50.000	50.814	-1.6	81	0.00

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00
2		Pyridine	2.001	2.187	-9.3	77	-0.03
3		n-Nitrosodimethylamine	1.188	1.295	-9.0	77	-0.03
4	S	2-Fluorophenol	1.916	2.039	-6.4	78	0.00
5		Aniline	0.796	0.892	-12.1	81	0.00
6	S	Phenol-d5	2.293	2.508	-9.4	79	0.00
7	C	Phenol	2.330	2.577	-10.6	80	0.00
8		bis(2-Chloroethyl)ether	0.987	1.159	-17.4	80	0.00
9		2-Chlorophenol	1.671	1.748	-4.6	77	0.00
10		1,3-Dichlorobenzene	1.655	1.707	-3.1	77	0.00
11	C	1,4-Dichlorobenzene	1.702	1.762	-3.5	77	0.00
12		Benzyl Alcohol	1.156	1.280	-10.7	80	0.00
13	C	1,2-Dichlorobenzene	1.583	1.630	-3.0	77	0.00
14		2-Methylphenol	1.420	1.532	-7.9	79	0.00
15		bis(2-Chloroisopropyl)ether	1.844	2.221	-20.4	86	0.00
16		4-Methylphenol	2.107	2.315	-9.9	80	0.00
17	P	n-Nitrosodipropylamine	0.967	1.113	-15.1	82	0.00
18		Hexachloroethane	0.912	0.985	-8.0	80	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	78	0.00
20	S	Nitrobenzene-d5	0.463	0.519	-12.1	84	0.00
21		Nitrobenzene	0.442	0.487	-10.2	82	0.00
22		Isophorone	0.863	0.940	-8.9	82	0.00
23	C	2-Nitrophenol	0.240	0.251	-4.6	79	0.00
24		2,4-Dimethylphenol	0.404	0.410	-1.5	77	0.00
25		bis(2-Chloroethoxy)methane	0.588	0.636	-8.2	83	0.00
26		Benzoic Acid	0.257	0.303	-17.9	89	0.01
27	C	2,4-Dichlorophenol	0.323	0.325	-0.6	77	0.00
28		1,2,4-Trichlorobenzene	0.322	0.326	-1.2	79	0.00
29		Naphthalene	1.288	1.293	-0.4	77	0.01
30		4-Chloroaniline	0.490	0.699	-42.7#	104	0.00
31	C	Hexachlorobutadiene	0.142	0.152	-7.0	85	0.01
32	C	4-Chloro-3-Methylphenol	0.404	0.448	-10.9	84	0.00
33		2-Methylnaphthalene	0.719	0.727	-1.1	78	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
35		Hexachlorocyclopentadiene	0.214	0.238	-11.2	79	0.00
36	C	2,4,6-Trichlorophenol	0.333	0.360	-8.1	82	0.00
37		2,4,5-Trichlorophenol	0.350	0.387	-10.6	92	0.00
38	S	2-Fluorobiphenyl	1.293	1.317	-1.9	78	0.00
39		2-Chloronaphthalene	1.292	1.316	-1.9	78	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		2-Nitroaniline	0.367	0.450	-22.6	88	0.00
41		Dimethylphthalate	1.477	1.543	-4.5	80	0.00
42		Acenaphthylene	1.998	2.085	-4.4	79	0.01
43		2,6-Dinitrotoluene	0.359	0.390	-8.6	79	0.00
44		3-Nitroaniline	0.413	0.455	-10.2	82	0.00
45	C	Acenaphthene	1.263	1.338	-5.9	80	0.00
46	P	2,4-Dinitrophenol	0.185	0.203	-9.7	83	0.01
47	P	4-Nitrophenol	0.253	0.298	-17.8	88	0.00
48		Dibenzofuran	1.727	1.764	-2.1	78	0.01
49		2,4-Dinitrotoluene	0.466	0.505	-8.4	79	0.00
50		Diethylphthalate	1.484	1.630	-9.8	84	0.01
51		Fluorene	1.379	1.418	-2.8	79	0.00
52		4-Chlorophenyl Phenyl Ether	0.521	0.545	-4.6	81	0.00
53		4-Nitroaniline	0.423	0.454	-7.3	80	0.00
54		1,2-Diphenylhydrazine	1.750	2.094	-19.7	93	0.00
55	S	2,4,6-Tribromophenol	0.146	0.162	-11.0	88	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
57		4,6-Dinitro-2-Methylphenol	0.184	0.192	-4.3	82	0.00
58	C	n-Nitrosodiphenylamine	0.717	0.732	-2.1	80	0.00
59		4-Bromophenyl Phenyl Ether	0.215	0.217	-0.9	80	0.00
60		Hexachlorobenzene	0.234	0.236	-0.9	81	0.00
61	C	Pentachlorophenol	0.145	0.165	-13.8	85	0.00
62		Phenanthrene	1.355	1.363	-0.6	80	0.01
63		Anthracene	1.360	1.380	-1.5	80	0.01
64		Carbazole	1.332	1.296	2.7	77	0.01
65		Di-n-Butyl Phthalate	1.953	2.119	-8.5	84	0.01
66	C	Fluoranthene	1.273	1.303	-2.4	81	0.00
67	I	Chrysene-d12	1.000	1.000	0.0	83	0.00
68		Benzidine	0.534	0.311	41.8#	58	0.00
69		Pyrene	1.551	1.566	-1.0	81	0.00
70	S	p-Terphenyl-d14	0.955	0.982	-2.8	82	0.00
71		Butyl Benzyl Phthalate	1.072	1.157	-7.9	85	0.00
72		Benzo[a]anthracene	1.354	1.382	-2.1	83	0.00
73		3,3'-Dichlorobenzidine	0.478	0.478	0.0	86	0.00
74		Chrysene	1.320	1.367	-3.6	83	0.00
75		bis(2-Ethylhexyl)phthalate	1.394	1.549	-11.1	86	0.00
76	I	Perylene-d12	1.000	1.000	0.0	81	0.00
77	C	Di-n-Octyl Phthalate	1.994	2.285	-14.6	87	0.00

(#)=Out of Range

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78		Benzo[b]fluoranthene	1.202	1.258	-4.7	78	0.00
79		Benzo[k]fluoranthene	1.169	1.179	-0.9	86	0.00
80	C	Benzo[a]pyrene	1.166	1.194	-2.4	81	0.00
81		Indeno[1,2,3-cd]pyrene	1.240	1.289	-4.0	82	0.00
82		Dibenz[ah]anthracene	0.761	0.799	-5.0	83	0.00
83		Benzo[ghi]perylene	1.118	1.136	-1.6	81	0.00

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 10:10 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	192856	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	732783	40.00	ug/L	0.00
34) Acenaphthene-d10	13.09	164	370459	40.00	ug/L	0.00
56) Phenanthrene-d10	14.63	188	497071	40.00	ug/L	0.00
67) Chrysene-d12	17.58	240	424387	40.00	ug/L	0.00
76) Perylene-d12	20.35	264	527074	40.00	ug/L	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	8.35	112	491464	53.21	ug/L	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 53.21%			
6) Phenol-d5	9.43	99	604519	54.68	ug/L	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 54.68%			
20) Nitrobenzene-d5	10.49	82	475262	56.04	ug/L	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 112.08%			
38) 2-Fluorobiphenyl	12.33	172	610030	50.95	ug/L	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 101.90%			
55) 2,4,6-Tribromophenol	13.91	330	74787	55.38	ug/L	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 55.38%			
70) p-Terphenyl-d14	16.21	244	520864	51.41	ug/L	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 102.82%			
Target Compounds						Qvalue
2) Pyridine	5.85	79	527116	54.64	ug/L	97
3) n-Nitrosodimethylamine	5.83	74	312240	54.51	ug/L	93
5) Aniline	9.52	66	215058	56.04	ug/L	96
7) Phenol	9.44	94	621301	55.30	ug/L	98
8) bis(2-Chloroethyl)ether	9.56	63	279500	58.74	ug/L	98
9) 2-Chlorophenol	9.65	128	421396	52.31	ug/L	98
10) 1,3-Dichlorobenzene	9.82	146	411419	51.57	ug/L	98
11) 1,4-Dichlorobenzene	9.89	146	424687	51.75	ug/L	98
12) Benzyl Alcohol	10.00	108	308465	55.35	ug/L	96
13) 1,2-Dichlorobenzene	10.08	146	392968	51.49	ug/L	98
14) 2-Methylphenol	10.11	107	369391	53.96	ug/L	98
15) bis(2-Chloroisopropyl)ethe	10.13	45	535447	60.22	ug/L	96
16) 4-Methylphenol	10.25	107	558122	54.94	ug/L	99
17) n-Nitrosodipropylamine	10.27	70	268365	57.56	ug/L	96
18) Hexachloroethane	10.43	117	237454	54.02	ug/L	100
21) Nitrobenzene	10.51	77	445814	55.08	ug/L	96
22) Isophorone	10.73	82	860814	54.45	ug/L	98
23) 2-Nitrophenol	10.84	139	230015	52.35	ug/L #	92
24) 2,4-Dimethylphenol	10.82	122	375236	50.67	ug/L	95

(#) = qualifier out of range (m) = manual integration
3M22969.D BNA.M Tue May 29 10:10:16 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 10:10 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.92	93	582154	54.05	ug/L		99
26)	Benzoic Acid	10.89	122	277453	58.91	ug/L		94
27)	2,4-Dichlorophenol	11.08	162	297988	50.43	ug/L		97
28)	1,2,4-Trichlorobenzene	11.17	180	298569	50.62	ug/L		98
29)	Naphthalene	11.28	128	1183926	50.19	ug/L	#	83
30)	4-Chloroaniline	11.31	127	640199	71.26	ug/L	#	90
31)	Hexachlorobutadiene	11.37	225	139326	53.74	ug/L		98
32)	4-Chloro-3-Methylphenol	11.76	107	410242	55.48	ug/L		95
33)	2-Methylnaphthalene	11.98	142	665879	50.52	ug/L		99
35)	Hexachlorocyclopentadiene	12.14	237	110033	49.50	ug/L		99
36)	2,4,6-Trichlorophenol	12.27	196	166849	54.05	ug/L		98
37)	2,4,5-Trichlorophenol	12.31	196	179375	55.41	ug/L		98
39)	2-Chloronaphthalene	12.51	162	609383	50.94	ug/L		97
40)	2-Nitroaniline	12.60	65	208583	61.32	ug/L		94
41)	Dimethylphthalate	12.73	163	714699	52.26	ug/L		99
42)	Acenaphthylene	12.96	152	965370	52.18	ug/L		100
43)	2,6-Dinitrotoluene	12.84	165	180566	54.32	ug/L		91
44)	3-Nitroaniline	13.03	138	210513	55.08	ug/L		92
45)	Acenaphthene	13.12	154	619596	52.96	ug/L		99
46)	2,4-Dinitrophenol	13.13	184	94126	54.96	ug/L		92
47)	4-Nitrophenol	13.14	65	137920	58.81	ug/L		90
48)	Dibenzofuran	13.30	168	817048	51.07	ug/L		93
49)	2,4-Dinitrotoluene	13.26	165	233768	54.19	ug/L		94
50)	Diethylphthalate	13.43	149	754934	54.91	ug/L		98
51)	Fluorene	13.65	166	656783	51.41	ug/L		97
52)	4-Chlorophenyl Phenyl Ethe	13.60	204	252489	52.29	ug/L		93
53)	4-Nitroaniline	13.67	138	210193	53.62	ug/L	#	89
54)	1,2-Diphenylhydrazine	13.76	77	969511	59.81	ug/L		95
57)	4,6-Dinitro-2-Methylphenol	13.68	198	119593	52.23	ug/L		90
58)	n-Nitrosodiphenylamine	13.72	169	454615	51.03	ug/L		95
59)	4-Bromophenyl Phenyl Ether	14.12	248	134902	50.38	ug/L		91
60)	Hexachlorobenzene	14.24	284	146809	50.44	ug/L		95
61)	Pentachlorophenol	14.43	266	102759	52.72	ug/L		98
62)	Phenanthrene	14.66	178	846783	50.28	ug/L		99
63)	Anthracene	14.72	178	857508	50.73	ug/L		99
64)	Carbazole	14.86	167	805080	48.65	ug/L	#	97
65)	Di-n-Butyl Phthalate	15.08	149	1316925	54.26	ug/L		99
66)	Fluoranthene	15.90	202	809603	51.17	ug/L		100
68)	Benzidine	15.98	184	165110	32.10	ug/L		100
69)	Pyrene	16.16	202	830820	50.49	ug/L		100
71)	Butyl Benzyl Phthalate	16.66	149	613706	53.96	ug/L		95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 10:10 2001 Quant Results File: BNA.RES

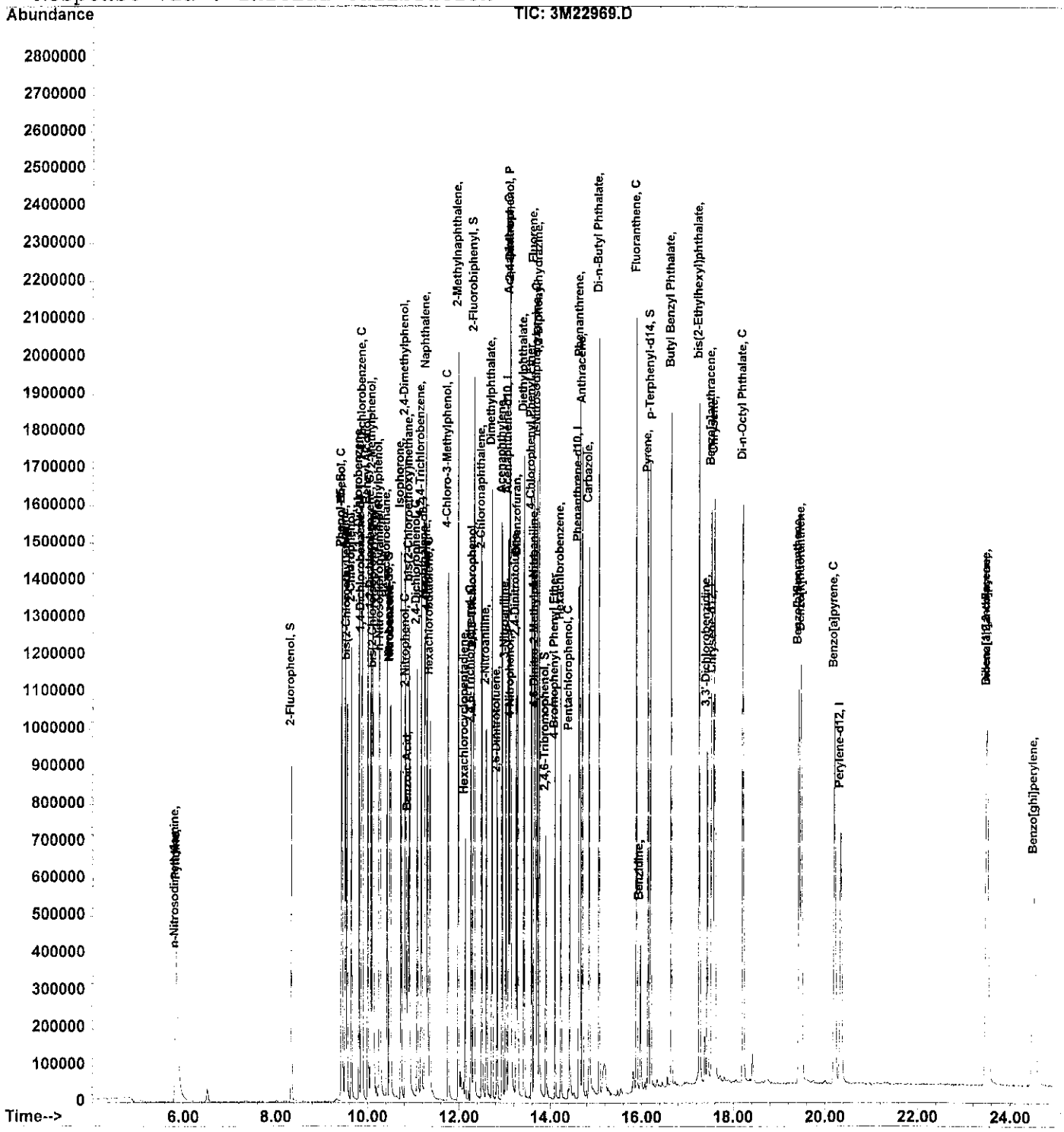
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	17.54	228	732992	51.02	ug/L	99
73)	3,3'-Dichlorobenzidine	17.44	252	253647	54.58	ug/L	98
74)	Chrysene	17.61	228	725329	51.80	ug/L	100
75)	bis(2-Ethylhexyl)phthalate	17.26	149	821496	55.53	ug/L	99
77)	Di-n-Octyl Phthalate	18.23	149	1505306	57.30	ug/L	97
78)	Benzo[b]fluoranthene	19.44	252	828671	52.31	ug/L	100
79)	Benzo[k]fluoranthene	19.50	252	776576	50.41	ug/L	99
80)	Benzo[a]pyrene	20.22	252	786746	51.22	ug/L	96
81)	Indeno[1,2,3-cd]pyrene	23.51	276	848955	51.97	ug/L	91
82)	Dibenz[ah]anthracene	23.51	278	526537	52.49	ug/L	93
83)	Benzo[ghi]perylene	24.53	276	748546	50.81	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22969.D Vial: 2
Acq On : 29 May 2001 9:40 Operator: CLK
Sample : 50PPM BNA STD Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 10:10 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration



Continuing calibration Area and RT check

Instrument: HPMS7
Initial cal date: 21 May 2001 18:14
CCV date: 29 May 2001 14:28
CCV filename: 7M13088.D

	Naphthalene-d8		Acenaphthene-d10	
	Amount	RT	Amount	RT
InitCal	449212	6.56	229149	8.34
CCV	467399	6.55	243154	8.34

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Amount	RT	Amount	RT	Amount	RT
InitCal	370678	9.90	339209	12.71	274829	15.23
CCV	407712	9.90	397461	12.71	332151	15.23

Data File : C:\MSDCHEM\1\DATA\052901\7M13088.D Vial: 2
Acq On : 29 May 2001 14:28 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
2	S	Nitrobenzene-d5	1.000	1.072	-7.2	108	0.00
3		Naphthalene	1.000	0.998	0.2	104	0.00
4		2-Methylnaphthalene	1.000	1.006	-0.6	105	0.00
5		1-Methylnaphthalene	1.000	0.990	1.0	105	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
7	S	2-Fluorobiphenyl	1.000	1.019	-1.9	108	0.00
8		Acenaphthylene	1.000	1.039	-3.9	110	0.00
9	C	Acenaphthene	1.000	0.998	0.2	106	0.00
10		Fluorene	1.000	1.048	-4.8	109	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
12		Phenanthrene	1.000	1.000	0.0	113	0.00
13		Anthracene	1.000	1.098	-9.8	114	0.00
14	C	Fluoranthene	1.000	1.068	-6.8	114	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
16		Pyrene	1.000	0.993	0.7	114	0.00
17	S	p-Terphenyl-d14	1.000	1.005	-0.5	116	0.00
18		Benzo[a]anthracene	1.000	1.080	-8.0	121	0.00
19		Chrysene	1.000	0.973	2.7	115	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	121	-0.02
21		Benzo[b]fluoranthene	1.000	0.949	5.1	114	-0.01
22		Benzo[k]fluoranthene	1.000	0.993	0.7	124	-0.01
23	C	Benzo[a]pyrene	1.000	1.054	-5.4	127	-0.01
24		Indeno[1,2,3-cd]pyrene	1.000	0.963	3.7	119	-0.03
25		Dibenz[ah]anthracene	1.000	0.961	3.9	119	-0.02
26		Benzo[ghi]perylene	1.000	0.956	4.4	110	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7M13088.D PAHLOW.M Tue May 29 14:51:01 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052901\7M13088.D Vial: 2
Acq On : 29 May 2001 14:28 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
2	S	Nitrobenzene-d5	0.283	0.332	-17.3	108	0.00
3		Naphthalene	1.119	1.117	0.2	104	0.00
4		2-Methylnaphthalene	0.710	0.714	-0.6	105	0.00
5		1-Methylnaphthalene	0.687	0.680	1.0	105	0.00
6	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
7	S	2-Fluorobiphenyl	1.471	1.499	-1.9	108	0.00
8		Acenaphthylene	1.739	1.996	-14.8	110	0.00
9	C	Acenaphthene	1.272	1.270	0.2	106	0.00
10		Fluorene	1.378	1.444	-4.8	109	0.00
11	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
12		Phenanthrene	1.286	1.286	0.0	113	0.00
13		Anthracene	1.099	1.206	-9.7	114	0.00
14	C	Fluoranthene	1.334	1.425	-6.8	114	0.00
15	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
16		Pyrene	1.536	1.524	0.8	114	0.00
17	S	p-Terphenyl-d14	1.088	1.093	-0.5	116	0.00
18		Benzo[a]anthracene	1.260	1.361	-8.0	121	0.00
19		Chrysene	1.404	1.367	2.6	115	-0.01
20	I	Perylene-d12	1.000	1.000	0.0	121	-0.02
21		Benzo[b]fluoranthene	1.667	1.582	5.1	114	-0.01
22		Benzo[k]fluoranthene	1.621	1.609	0.7	124	-0.01
23	C	Benzo[a]pyrene	1.304	1.374	-5.4	127	-0.01
24		Indeno[1,2,3-cd]pyrene	1.493	1.597	-7.0	119	-0.03
25		Dibenz[ah]anthracene	1.217	1.271	-4.4	119	-0.02
26		Benzo[ghi]perylene	1.368	1.307	4.5	110	-0.03

Data File : C:\MSDCHEM\1\DATA\052901\7M13088.D Vial: 2
Acq On : 29 May 2001 14:28 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 29 14:49:33 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	467399	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	243154	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	407712	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	397461	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	332151	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	155407	1.07	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 42.80%			
7) 2-Fluorobiphenyl	7.60	172	364368	1.02	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 40.80%#			
17) p-Terphenyl-d14	11.45	244	434590	1.01	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 40.40%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	522184	1.00	ug/ml	99
4) 2-Methylnaphthalene	7.25	142	333902	1.01	ug/ml	100
5) 1-Methylnaphthalene	7.37	142	317781	0.99	ug/ml	97
8) Acenaphthylene	8.20	152	485240	1.04	ug/ml	100
9) Acenaphthene	8.38	154	308703	1.00	ug/ml	98
10) Fluorene	8.89	166	351165	1.05	ug/ml	100
12) Phenanthrene	9.90	178	524359	1.00	ug/ml	100
13) Anthracene	9.95	178	491878	1.10	ug/ml	100
14) Fluoranthene	11.13	202	580978	1.07	ug/ml	100
16) Pyrene	11.38	202	605917	0.99	ug/ml	99
18) Benzo[a]anthracene	12.69	228	540950	1.08	ug/ml	99
19) Chrysene	12.74	228	543230	0.97	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	525300	0.95	ug/ml	99
22) Benzo[k]fluoranthene	14.45	252	534450	0.99	ug/ml	98
23) Benzo[a]pyrene	15.09	252	456416	1.05	ug/ml	97
24) Indeno[1,2,3-cd]pyrene	18.02	276	530385	0.96	ug/ml#	97
25) Dibenz[ah]anthracene	18.03	278	422200	0.96	ug/ml	99
26) Benzo[ghi]perylene	18.93	276	434255	0.96	ug/ml	98

(#) = qualifier out of range (m) = manual integration
7M13088.D PAHLOW.M Tue May 29 14:50:49 2001 Page 1

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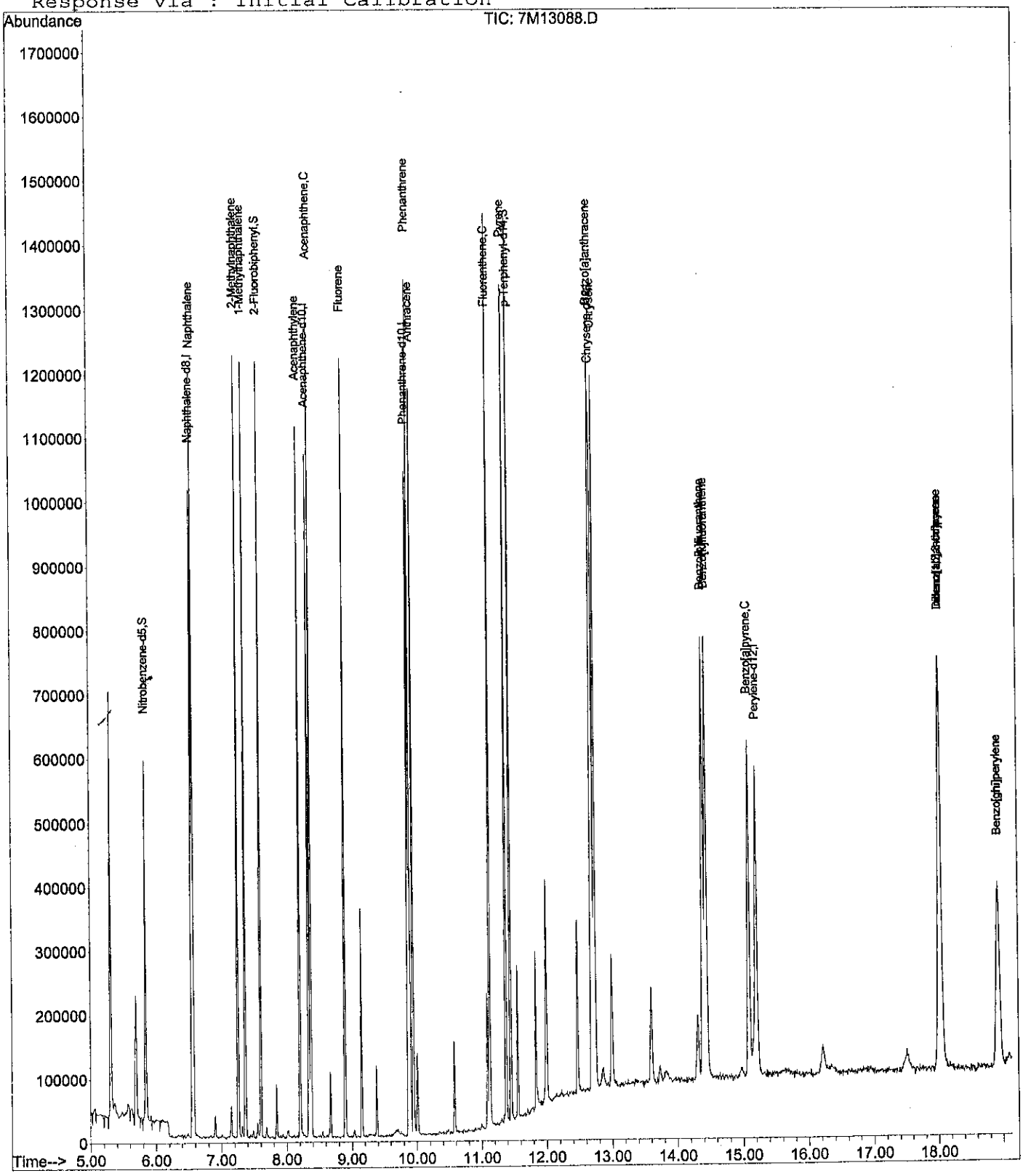
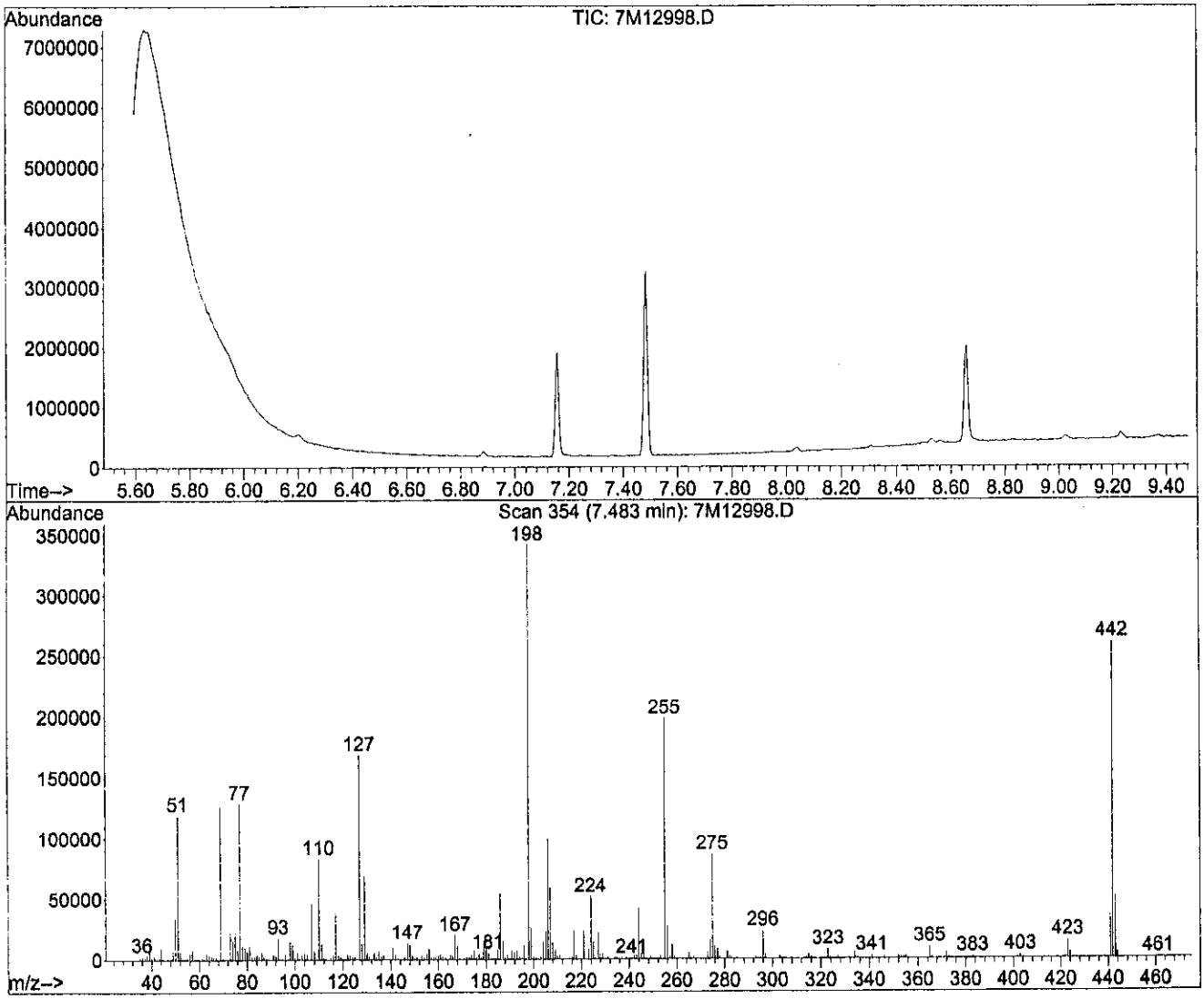
Data File : C:\MSDCHEM\1\DATA\052901\7M13088.D Vial: 2
Acq On : 29 May 2001 14:28 Operator: rdc
Sample : 1ppm PAH STD (S53-45-1) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 29 14:49 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 22 07:52:26 2001
Response via : Initial Calibration



2.2.1.4 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\052101\7M12998.D Vial: 1
Acq On : 21 May 2001 17:54 Operator: mdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP



Spectrum Information: Scan 354

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	119176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.8	126072	PASS
70	69	0.00	2	1.3	1649	PASS
127	198	40	60	49.3	168960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	342528	PASS
199	198	5	9	7.6	26176	PASS
275	198	10	30	25.2	86400	PASS
365	198	1	100	2.9	9883	PASS
441	443	0.01	100	73.2	37424	PASS
442	198	40	100	76.1	260672	PASS
443	442	17	23	19.6	51144	PASS

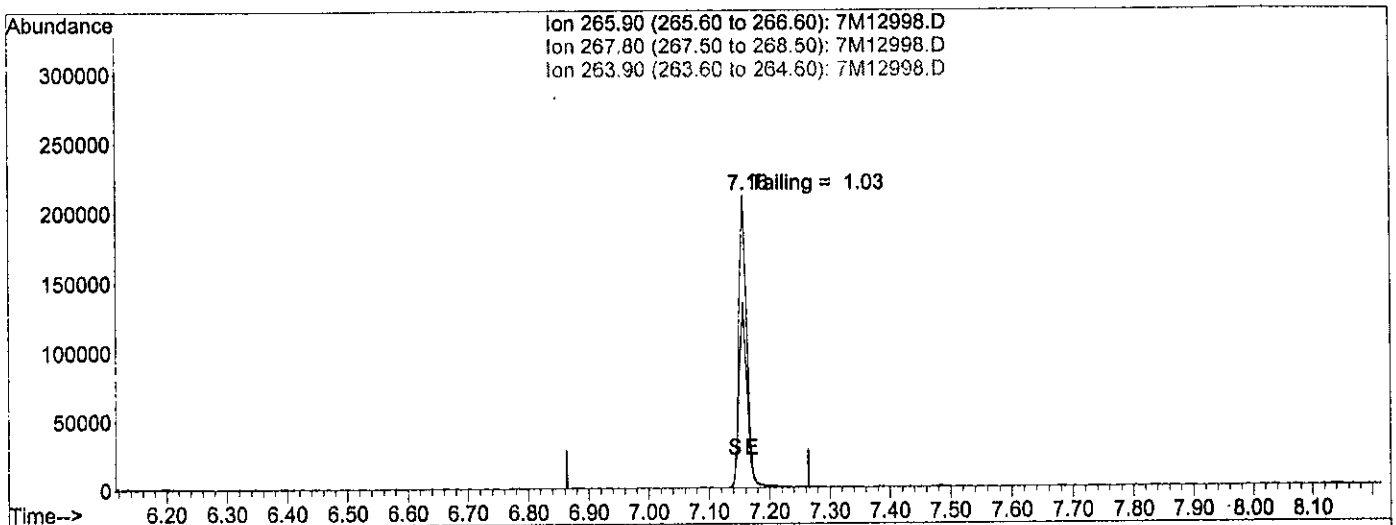
7M12998.D PAHDFTPP.M Tue May 22 07:49:30 2001

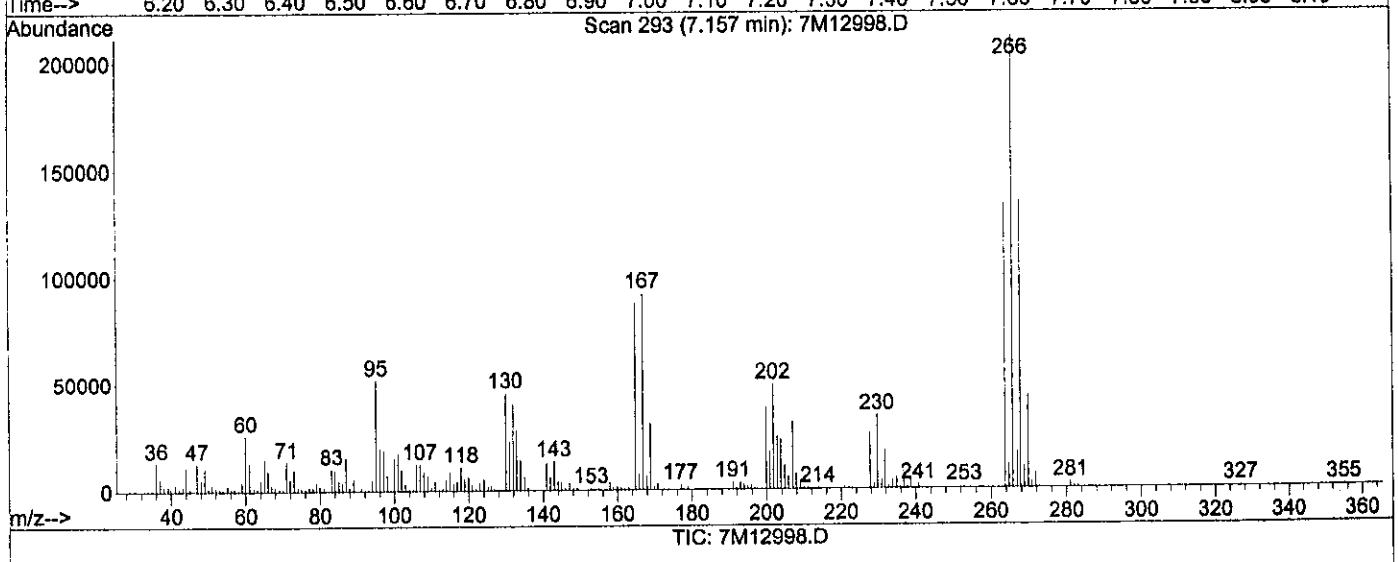
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M12998.D

(1) PENTACHLOROPHENOL

7.16min 0.00

response 192777

Ion	Exp%	Act%
265.90	100	100
267.80	62.20	64.14
263.90	65.00	61.88
0.00	0.00	0.00

7M12998.D PAHDFTPP.M Tue May 22 07:49:42 2001

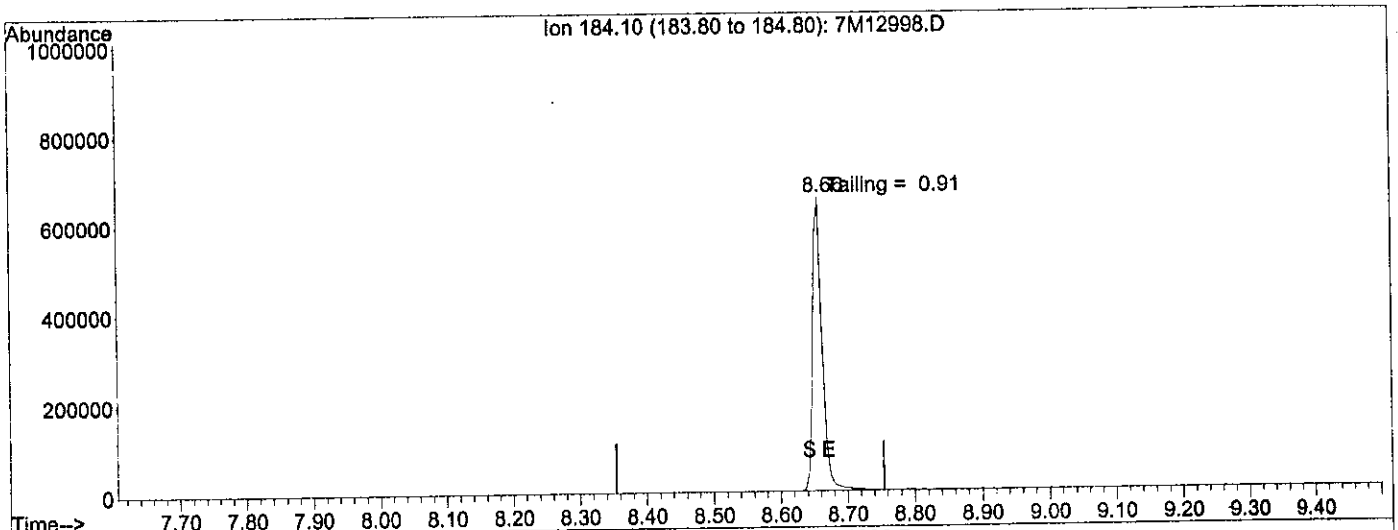
524

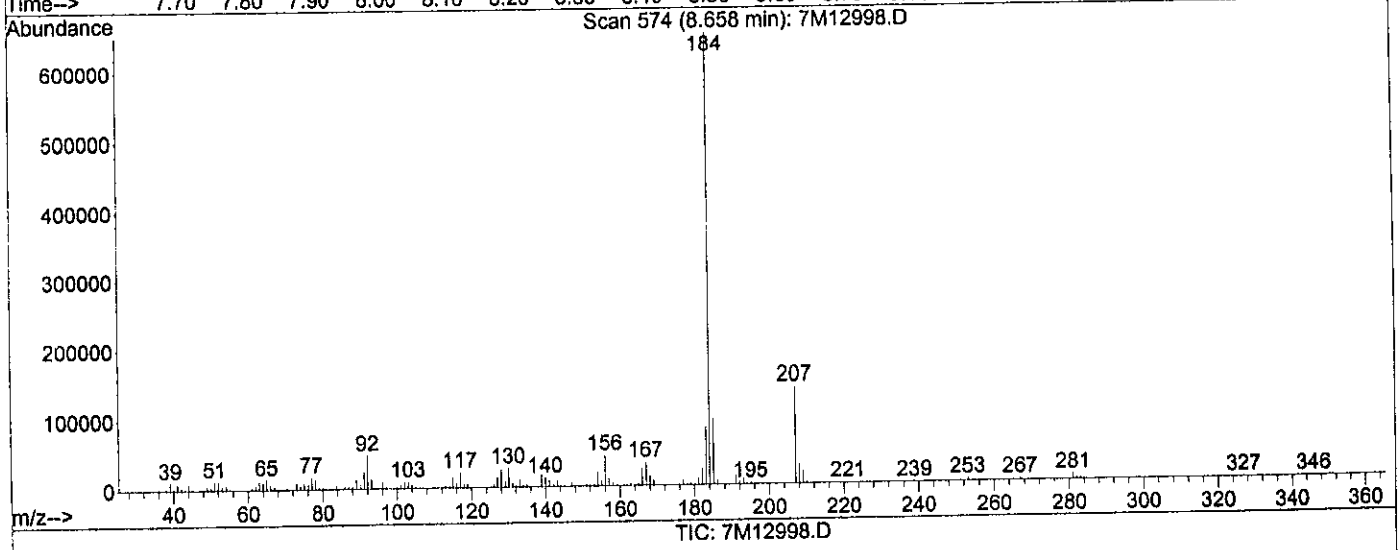
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





(2) BENZIDINE

8.55min 0.00

response 0

Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

7M12998.D PAHDFTPP.M Tue May 22 07:49:52 2001

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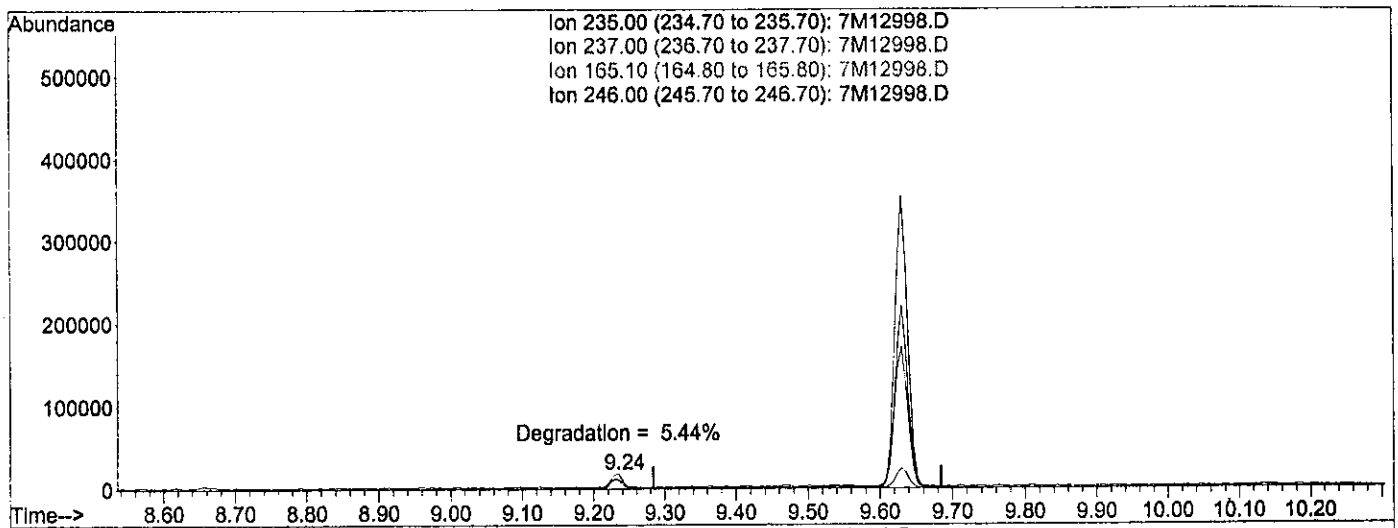
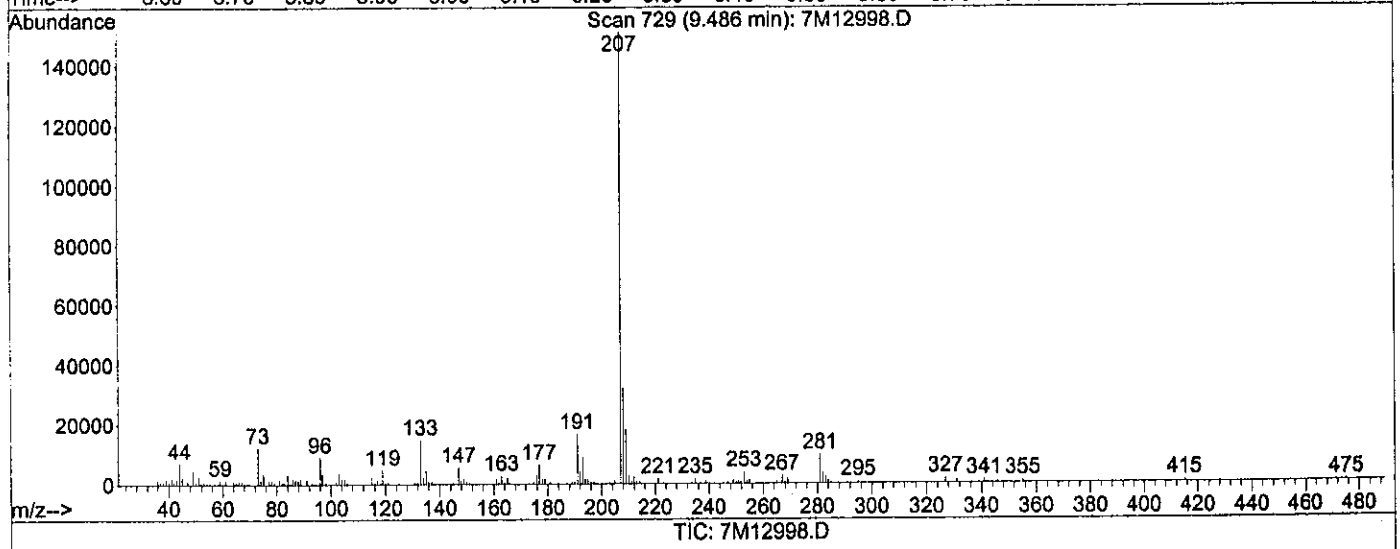
Acq On : 21 May 2001 17:54
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 22 7:49 2001

Operator: mdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M12998.D

(3) DDT

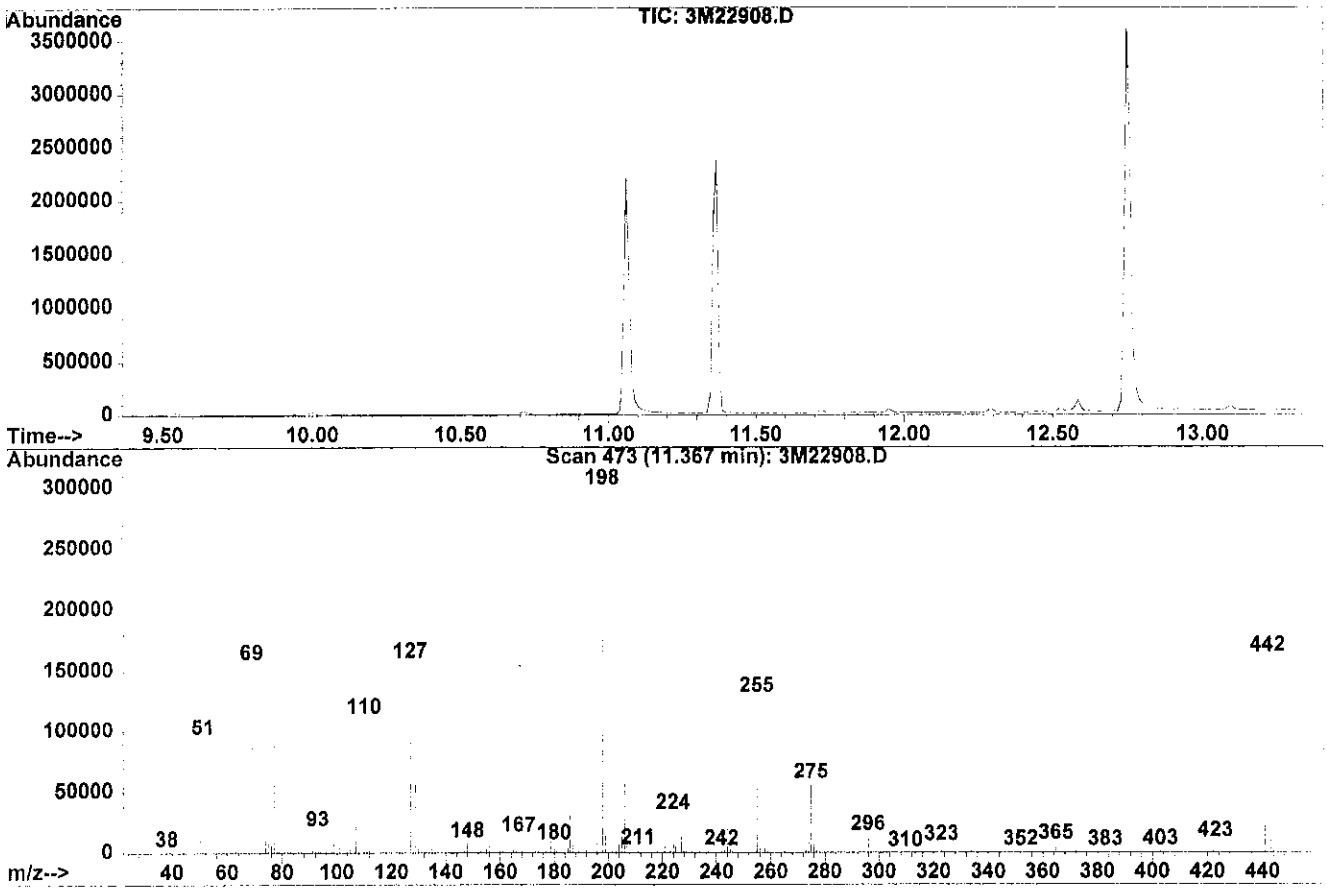
9.48min 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

7M12998.D PAHDFTPP.M Tue May 22 07:50:00 2001

Data File : C:\HPCHEM\1\DATA\052201\3M22908.D Vial: 1
Acq On : 22 May 2001 12:48 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



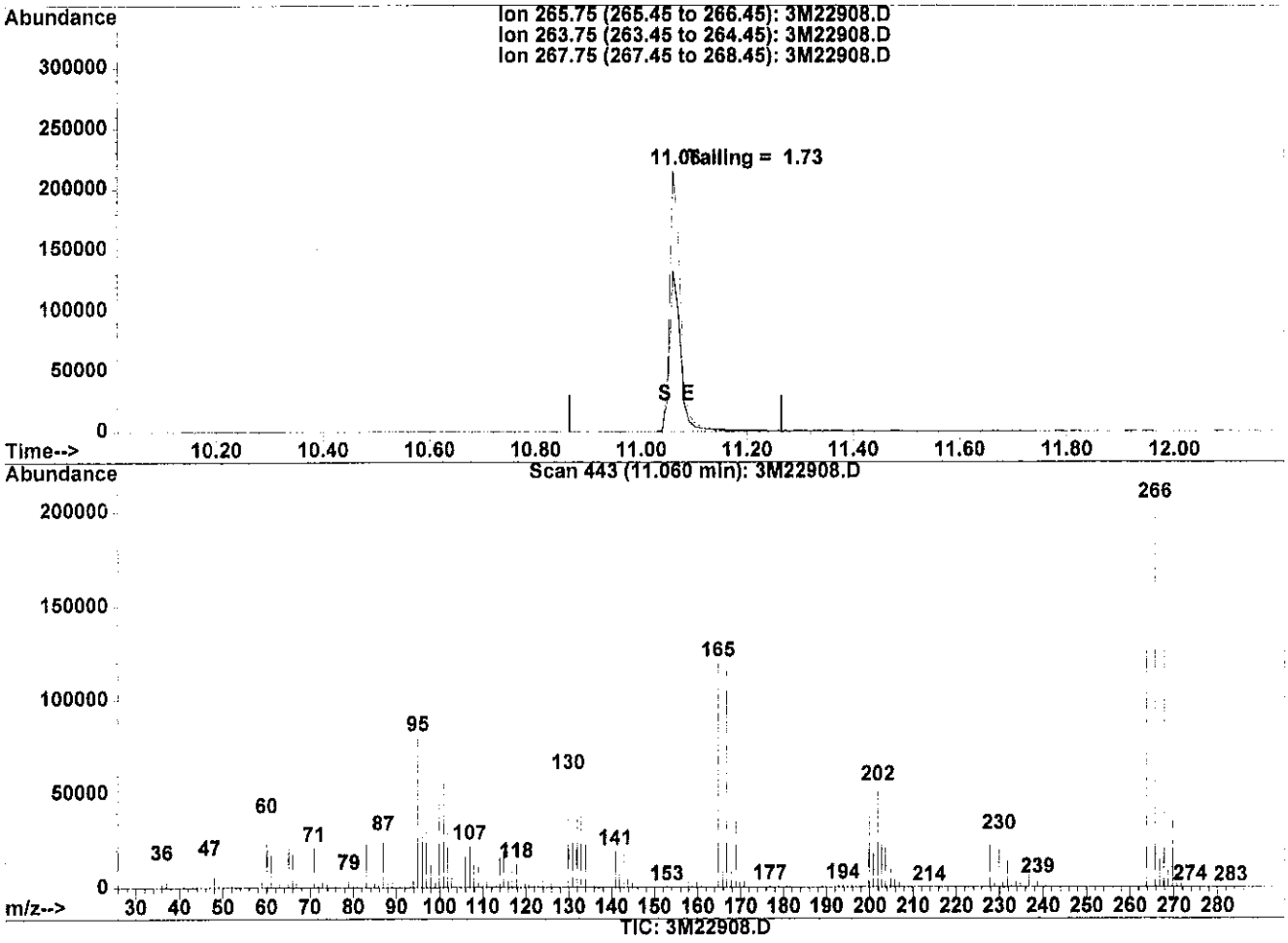
Spectrum Information: Scan 473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.1	93344	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.6	154880	PASS
70	69	0.00	2	0.5	824	PASS
127	198	40	60	52.1	156352	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	300352	PASS
199	198	5	9	6.8	20512	PASS
275	198	10	30	18.8	56328	PASS
365	198	1	100	2.1	6231	PASS
441	443	0.01	100	75.5	22976	PASS
442	198	40	100	53.5	160576	PASS
443	442	17	23	18.9	30416	PASS

3M22908.D DFTPP.M Tue May 22 13:10:55 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052201\3M22908.D Vial: 1
Acq On : 22 May 2001 12:48 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 13:11 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(1) Pentachlorophenol

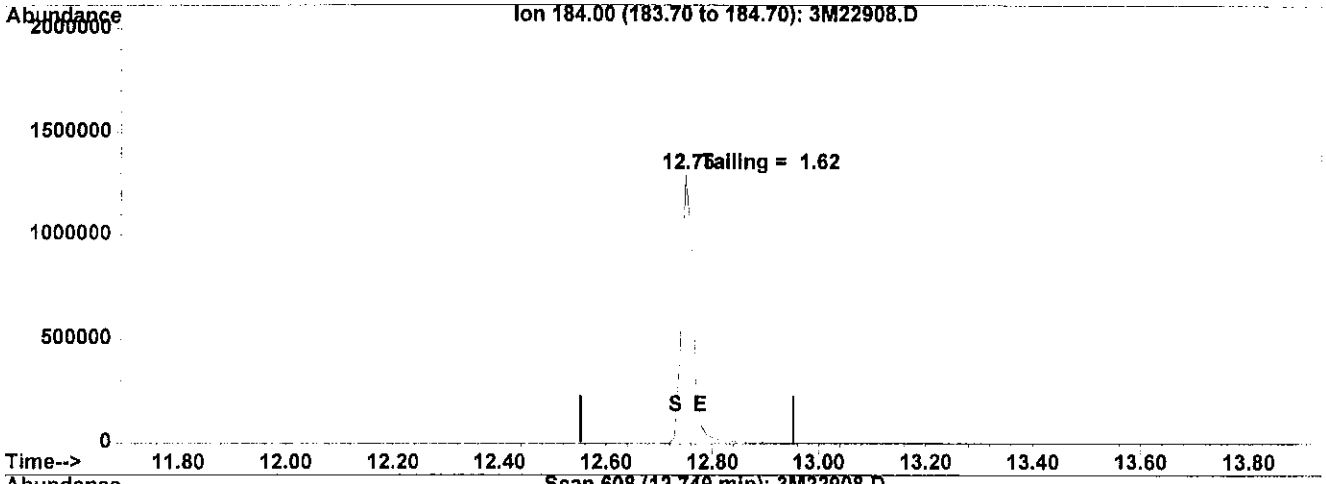
11.06min 0.00

response 307626

Ion	Exp%	Act%
265.75	100	100
263.75	62.30	61.45
267.75	63.80	62.41
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\052201\3M22908.D Vial: 1
Acq On : 22 May 2001 12:48 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 13:11 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(2) Benzidine

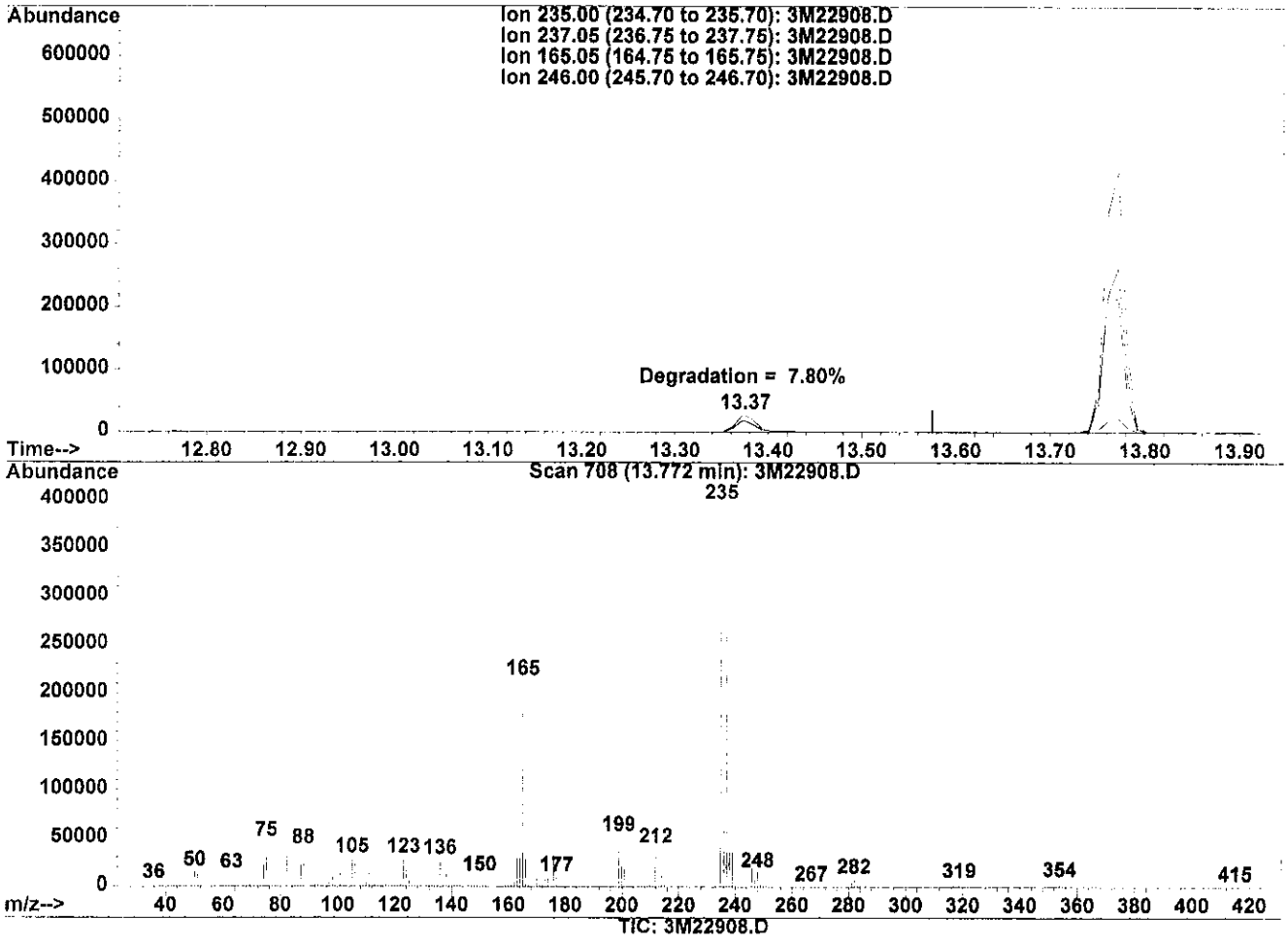
12.75min 0.00

response 2014177

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\HPCHEM\1\DATA\052201\3M22908.D Vial: 1
Acq On : 22 May 2001 12:48 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 22 13:11 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

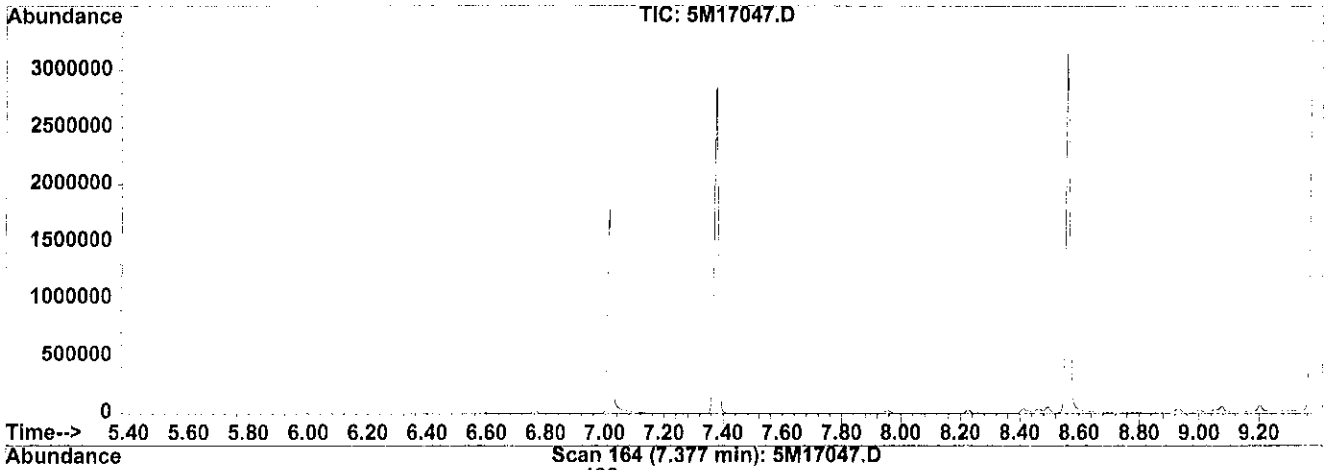
13.77min 0.00

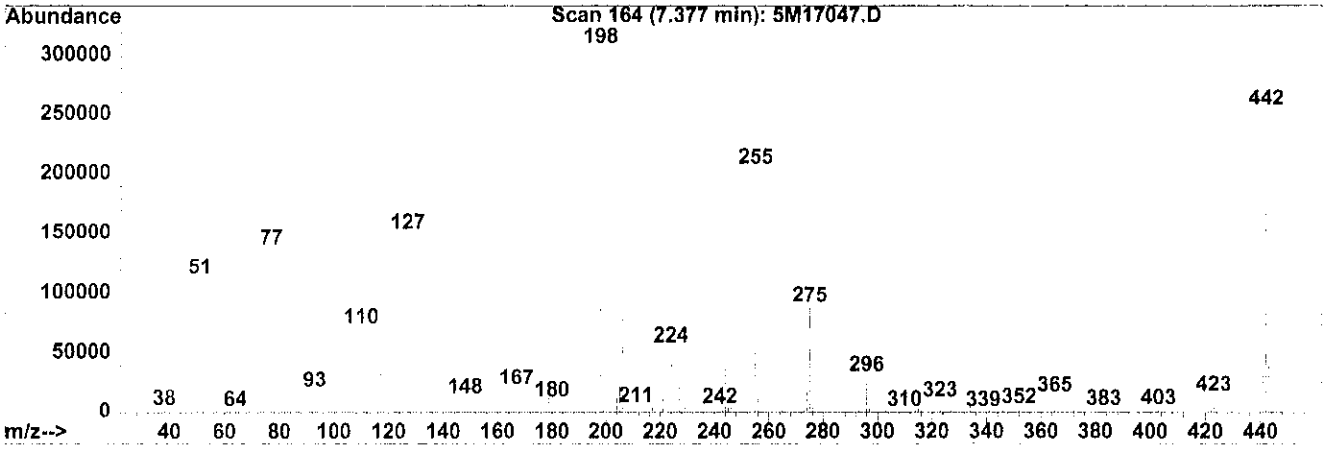
response 603327

Ion	Exp%	Act%
235.00	100	100
237.05	64.30	63.50
165.05	67.90	55.95
246.00	7.10	5.54#

3M22908.D DFTPP.M Tue May 22 13:11:25 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052401\5M17047.D Vial: 2
Acq On : 24 May 2001 9:46 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP





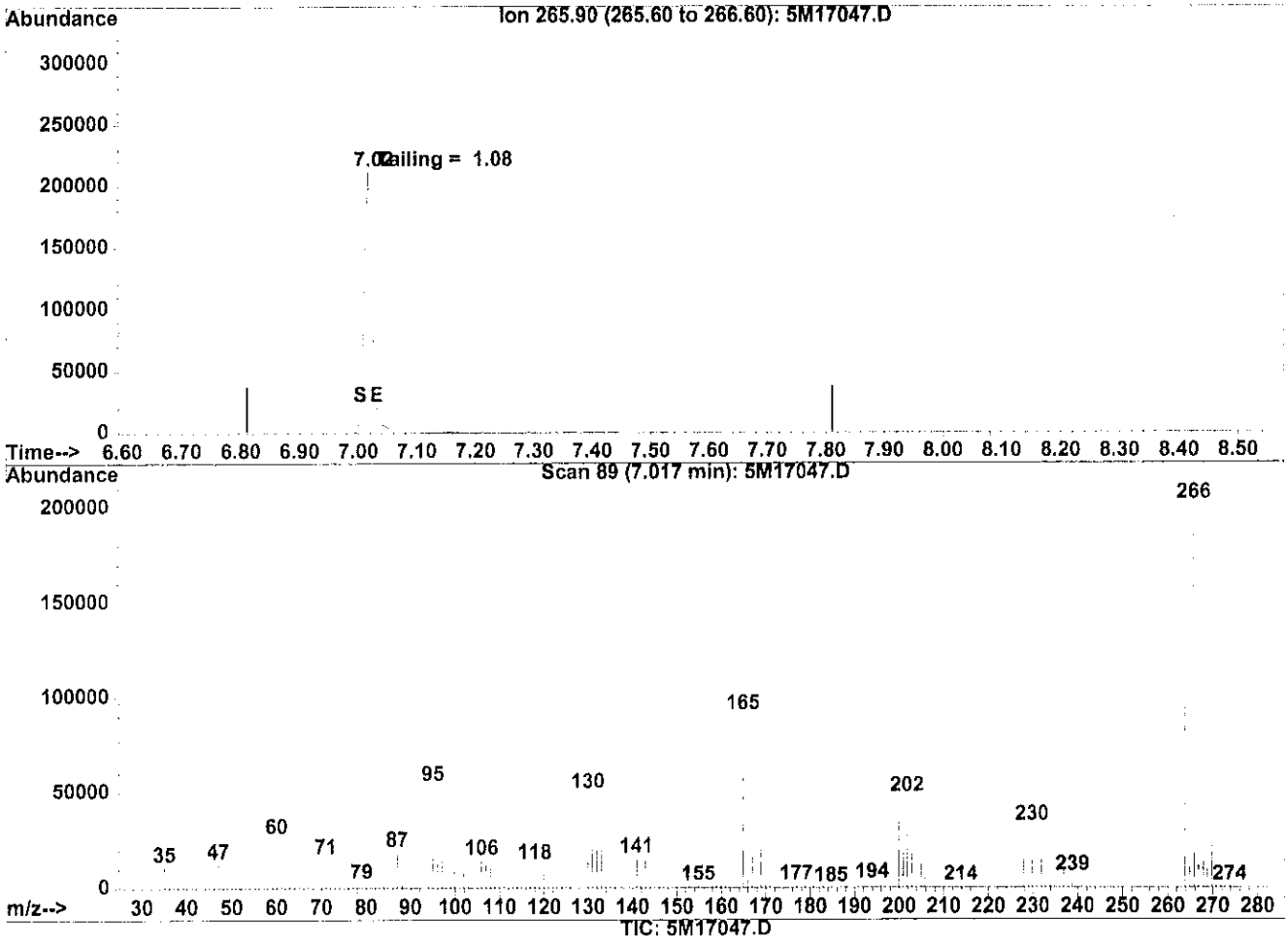
Spectrum Information: Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.3	112008	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.8	107384	PASS
70	69	0.00	2	0.6	644	PASS
127	198	40	60	48.3	149120	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	308672	PASS
199	198	5	9	6.9	21296	PASS
275	198	10	30	28.4	87768	PASS
365	198	1	100	4.1	12516	PASS
441	443	0.01	100	72.5	37184	PASS
442	198	40	100	82.1	253504	PASS
443	442	17	23	20.2	51288	PASS

5M17047.D DFTPP.M Thu May 24 09:57:13 2001 HPMS5

Data File : C:\HPCHEM\1\DATA\052401\5M17047.D Vial: 2
Acq On : 24 May 2001 9:46 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 24 9:57 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Fri Oct 27 12:12:14 2000
Response via : Single Level Calibration



(1) Pentachlorophenol

7.02min 0.00

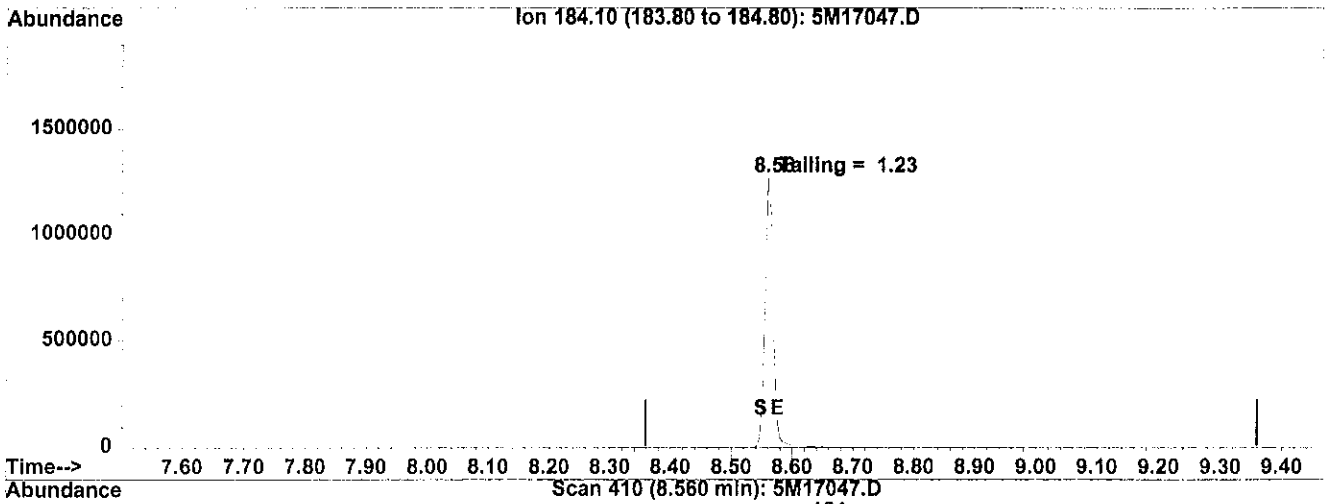
response 205810

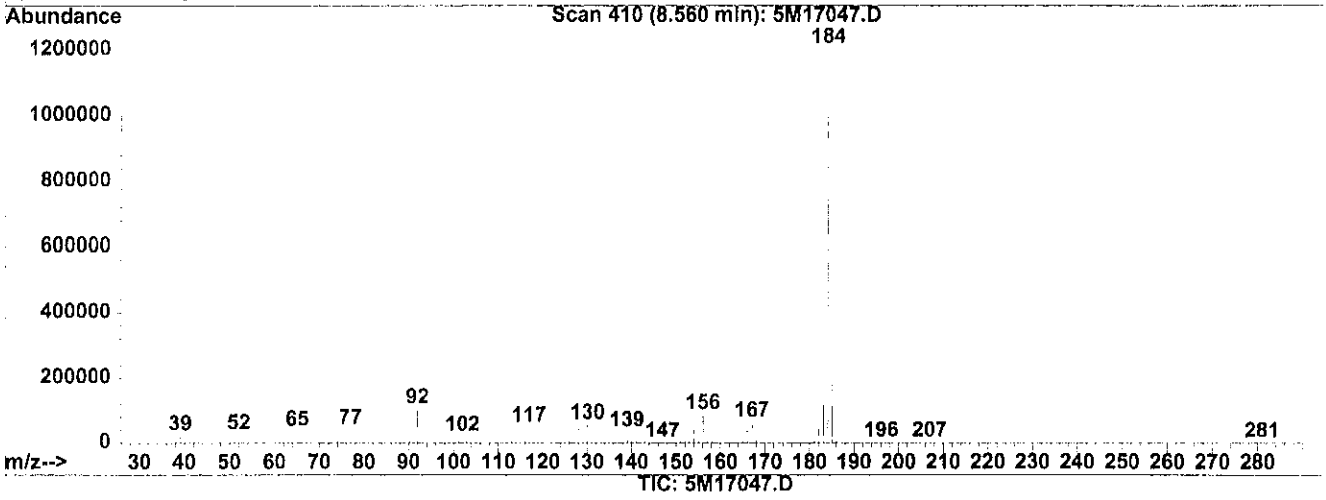
Ion	Exp%	Act%
265.90	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M17047.D DFTPP.M Thu May 24 09:57:30 2001 HPMS5

Data File : C:\HPCHEM\1\DATA\052401\5M17047.D Vial: 2
Acq On : 24 May 2001 9:46 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 24 9:57 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Fri Oct 27 12:12:14 2000
Response via : Single Level Calibration





(2) Benzidine

8.56min 0.00

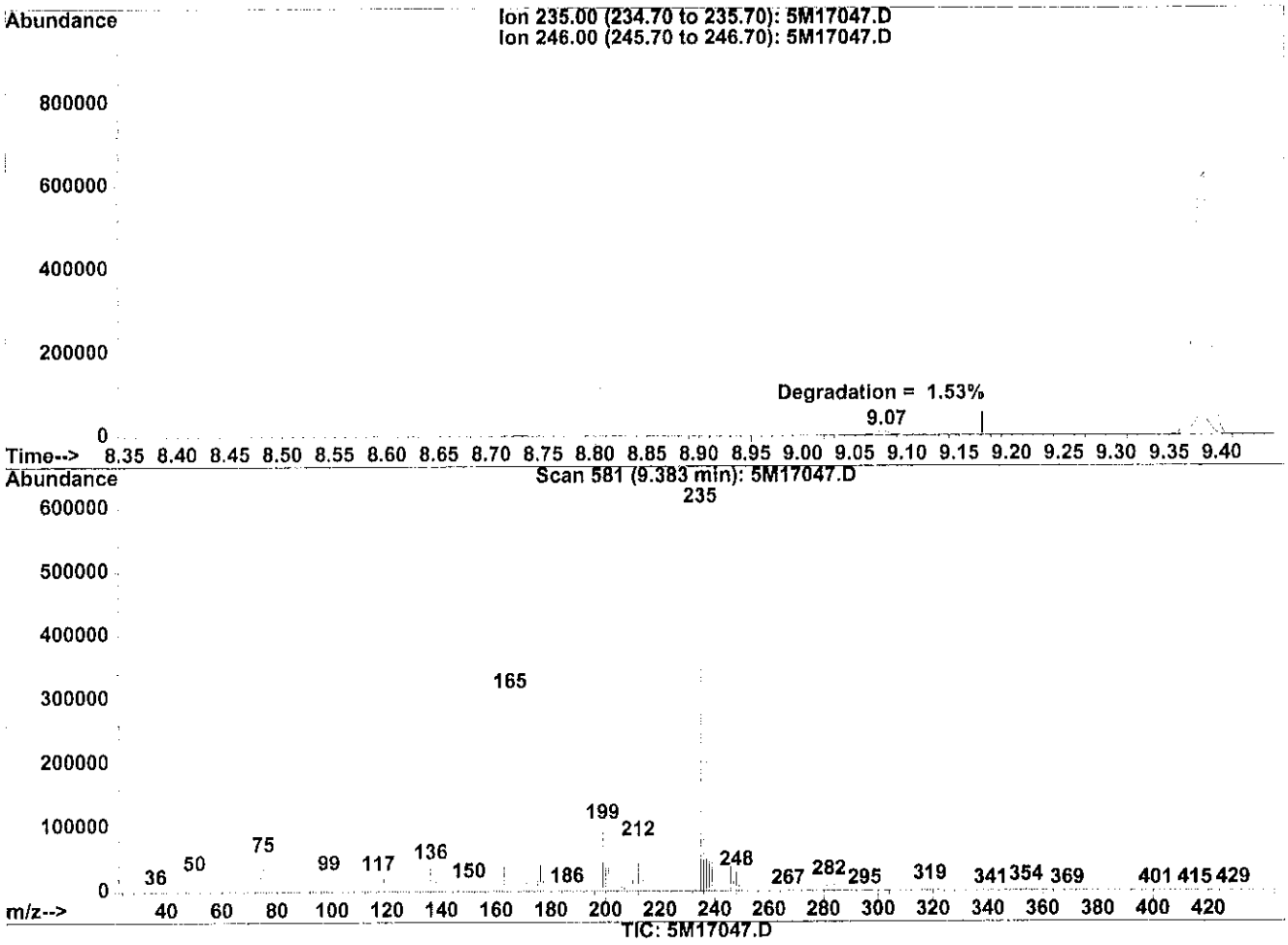
response 1226371

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

5M17047.D DFTPP.M Thu May 24 09:57:39 2001 HPMS5

Data File : C:\HPCHEM\1\DATA\052401\5M17047.D Vial: 2
Acq On : 24 May 2001 9:46 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS5
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 24 9:57 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Fri Oct 27 12:12:14 2000
Response via : Single Level Calibration



(3) DDT

9.38min 0.00

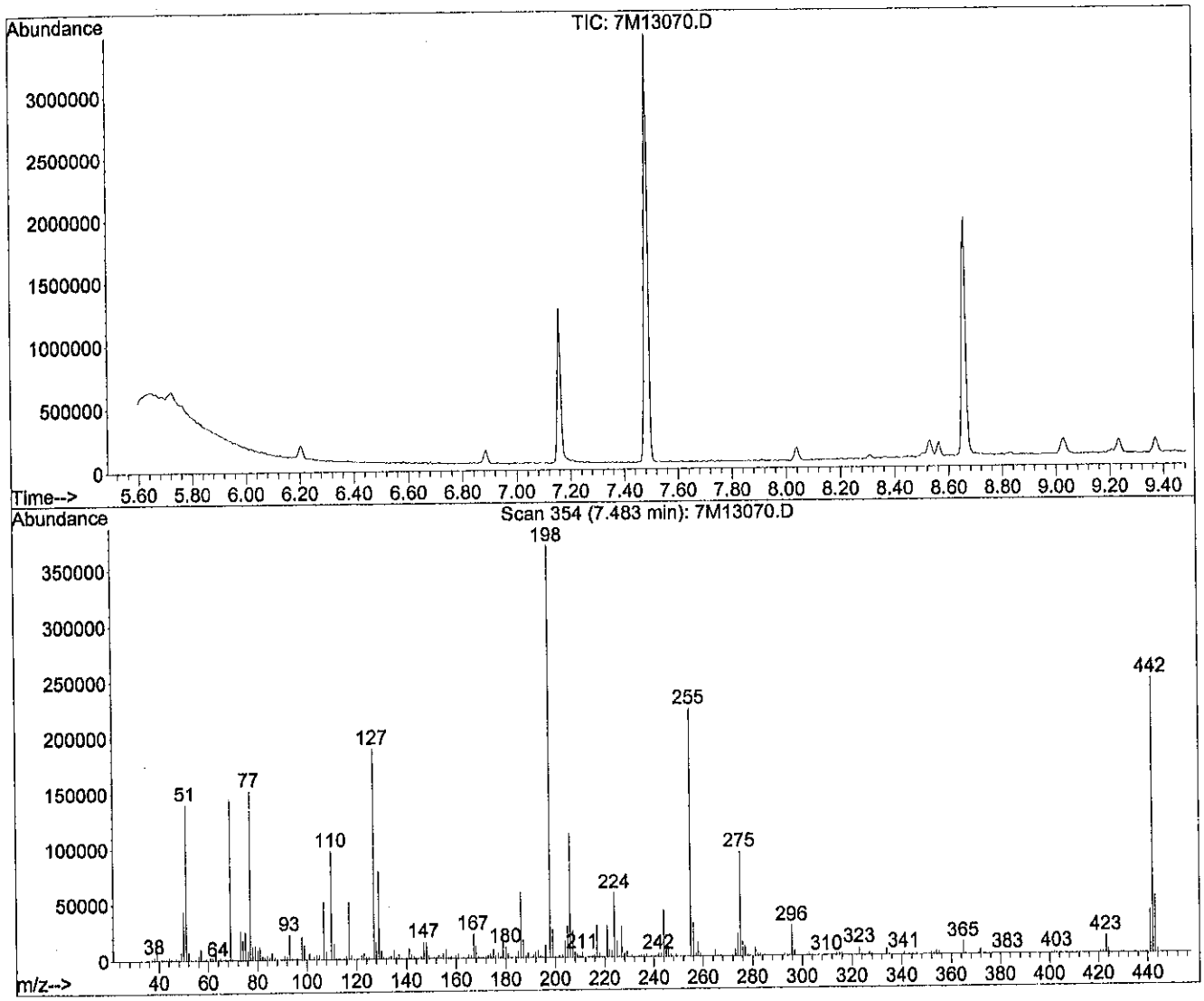
response 664262

Ion	Exp%	Act%
235.00	100	100
246.00	6.10	7.31
0.00	0.00	0.00
0.00	0.00	0.00

5M17047.D DFTPP.M Thu May 24 09:57:50 2001 HPMS5

Data File : C:\MSDCHEM\1\DATA\052401\7M13070.D
Acq On : 24 May 2001 12:09
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

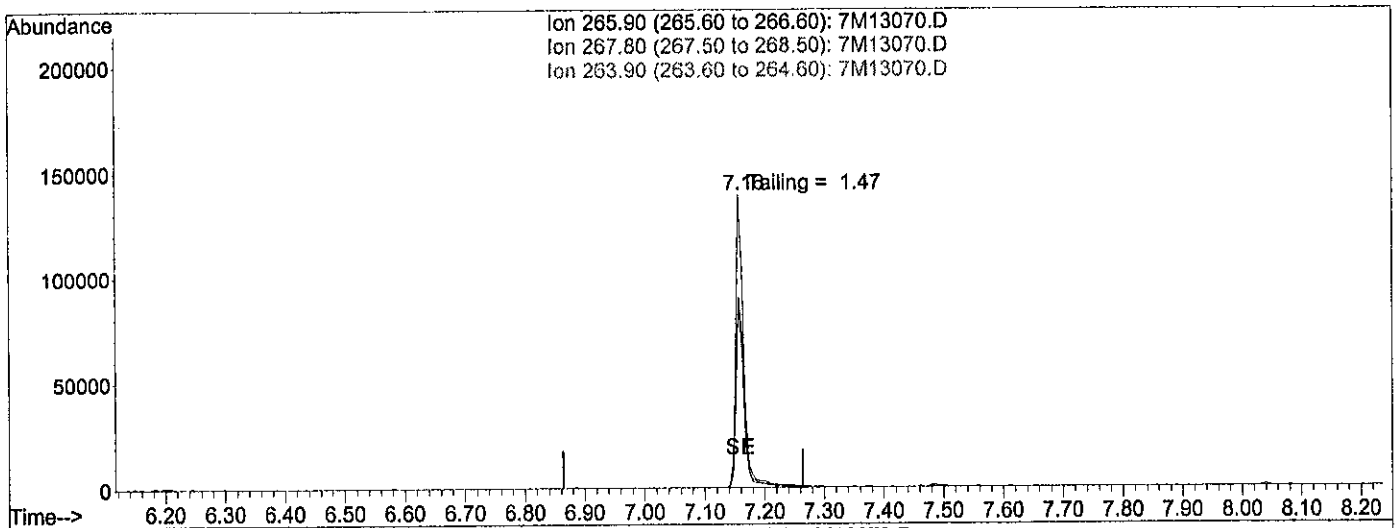


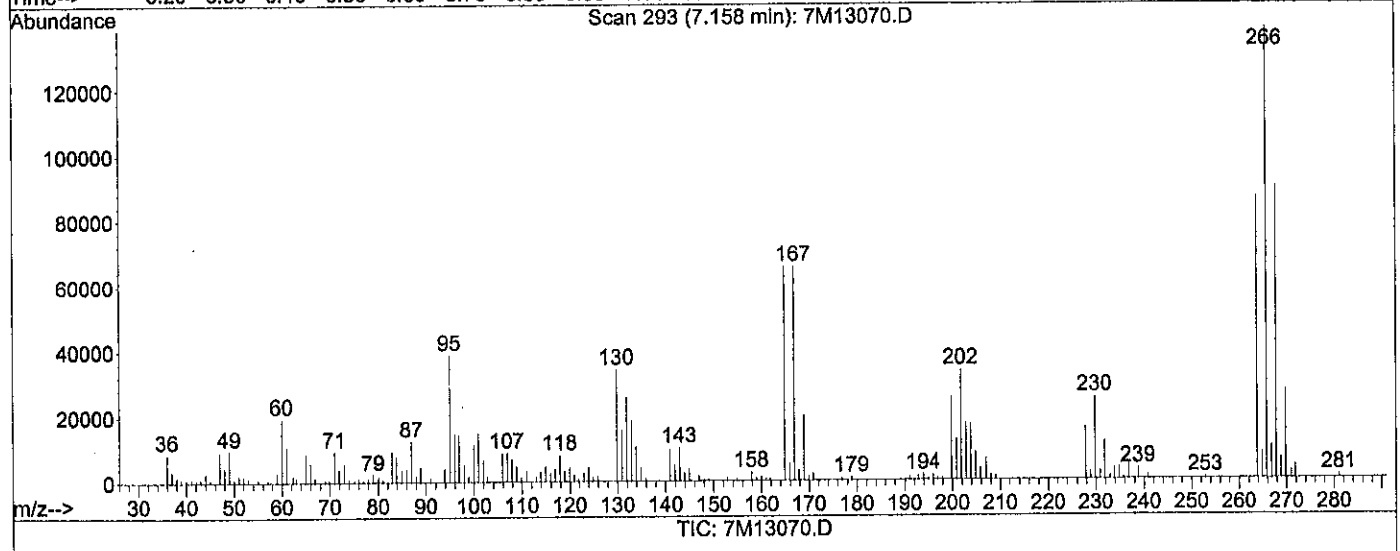
Spectrum Information: Scan 354

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	140544	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.2	145472	PASS
70	69	0.00	2	1.0	1496	PASS
127	198	40	60	51.0	189056	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	370880	PASS
199	198	5	9	6.8	25120	PASS
275	198	10	30	25.3	93960	PASS
365	198	1	100	3.1	11346	PASS
441	443	0.01	100	74.1	38488	PASS
442	198	40	100	66.6	247040	PASS
443	442	17	23	21.0	51944	PASS

Data File : C:\MSDCHEM\1\DATA\052401\7M13070.D Vial: 1
Acq On : 24 May 2001 12:09 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 12:21 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13070.D

(1) PENTACHLOROPHENOL

7.16min 0.00

response 126897

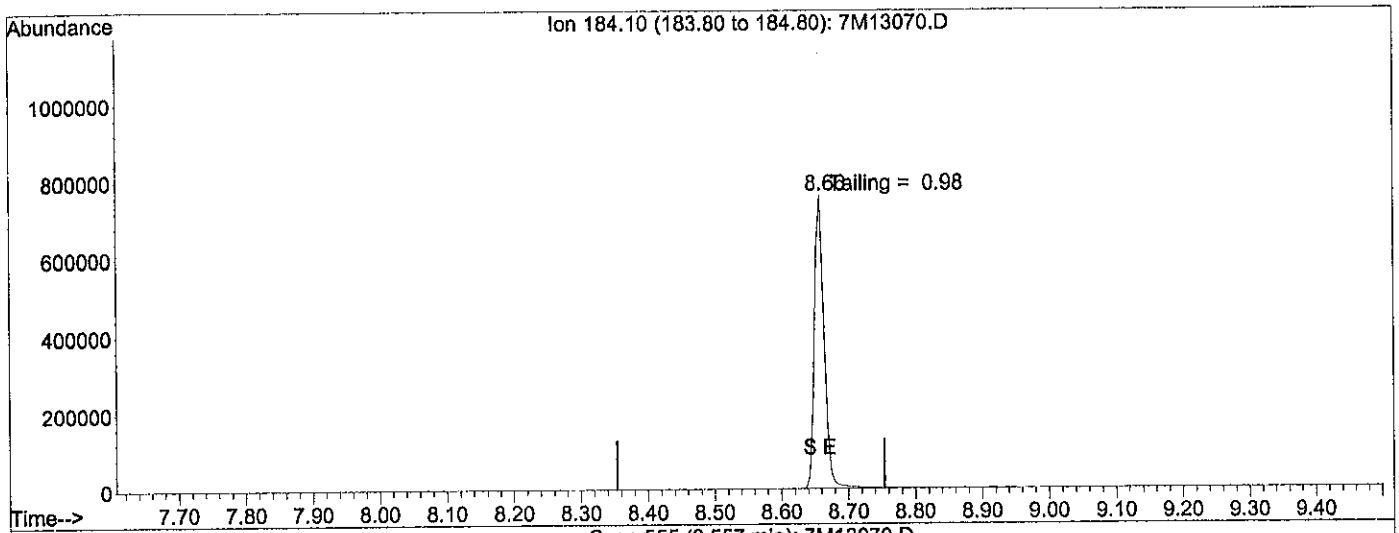
Ion	Exp%	Act%
265.90	100	100
267.80	62.20	67.17
263.90	65.00	63.18
0.00	0.00	0.00

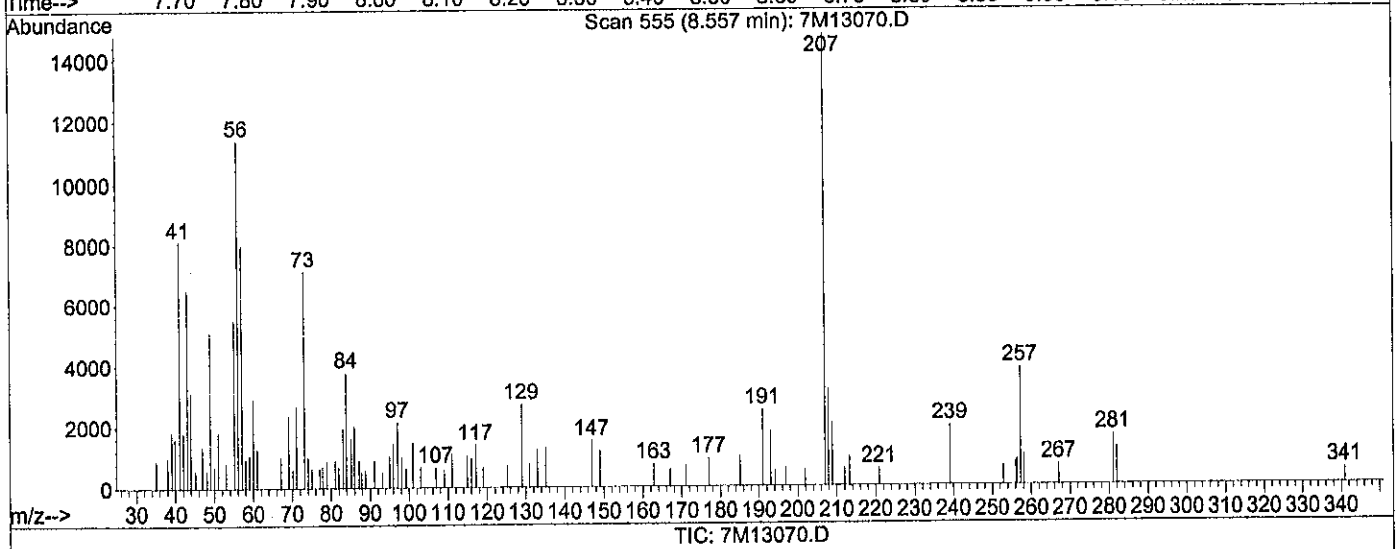
Data File : C:\MSDCHEM\1\DATA\052401\7M13070.D
Acq On : 24 May 2001 12:09
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 24 12:21 2001

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13070.D

(2) BENZIDINE

8.55min 0.00

response 0

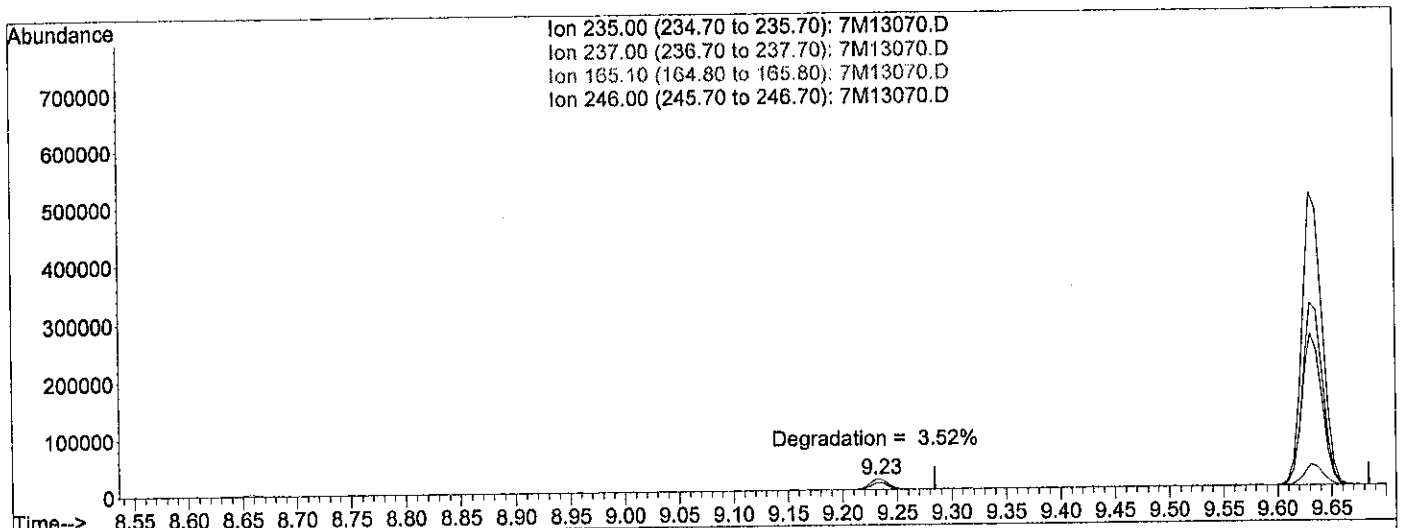
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

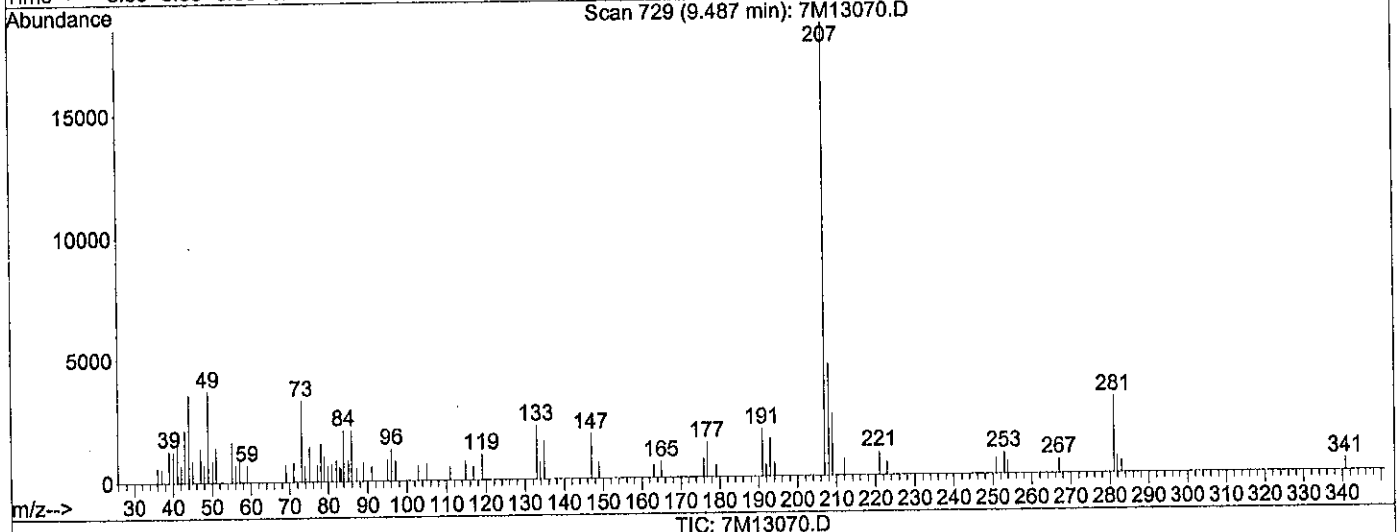
Data File : C:\MSDCHEM\1\DATA\052401\7M13070.D
Acq On : 24 May 2001 12:09
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Quant Time: May 24 12:21 2001

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13070.D

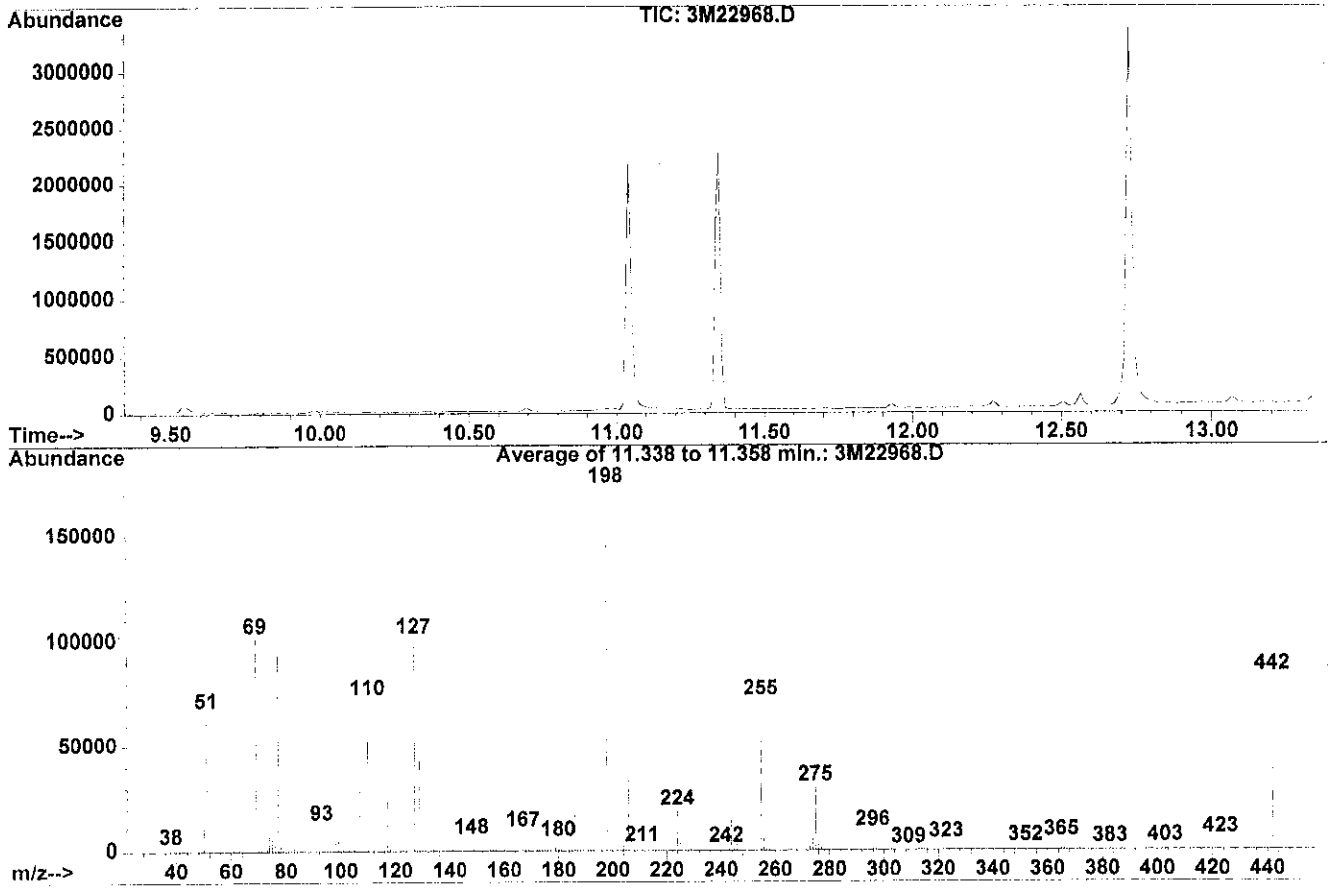
(3) DDT

9.48min 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

Data File : C:\HPCHEM\1\DATA\052901\3M22968.D Vial: 1
Acq On : 29 May 2001 9:18 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP



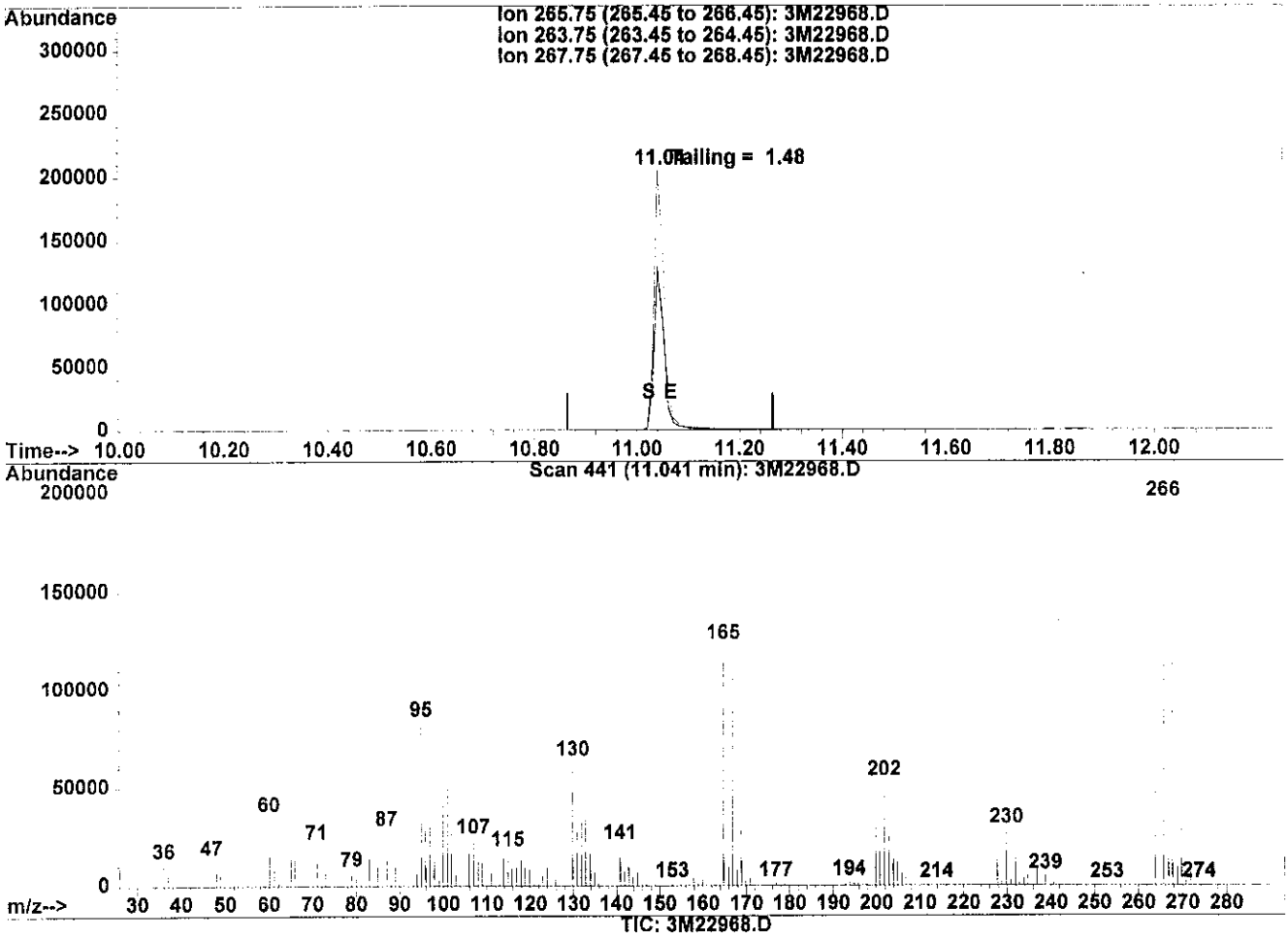
Spectrum Information: Average of 11.338 to 11.358 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.1	66191	PASS
68	69	0.00	2	0.1	98	PASS
69	198	0.00	100	58.3	101456	PASS
70	69	0.00	2	0.7	700	PASS
127	198	40	60	58.0	100912	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	173888	PASS
199	198	5	9	6.8	11886	PASS
275	198	10	30	17.2	29965	PASS
365	198	1	100	1.9	3375	PASS
441	443	0.01	100	79.5	12175	PASS
442	198	40	100	47.4	82432	PASS
443	442	17	23	18.6	15320	PASS

3M22968.D DFTPP.M Tue May 29 09:35:56 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052901\3M22968.D Vial: 1
Acq On : 29 May 2001 9:18 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 29 9:36 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(1) Pentachlorophenol

11.04min 0.00

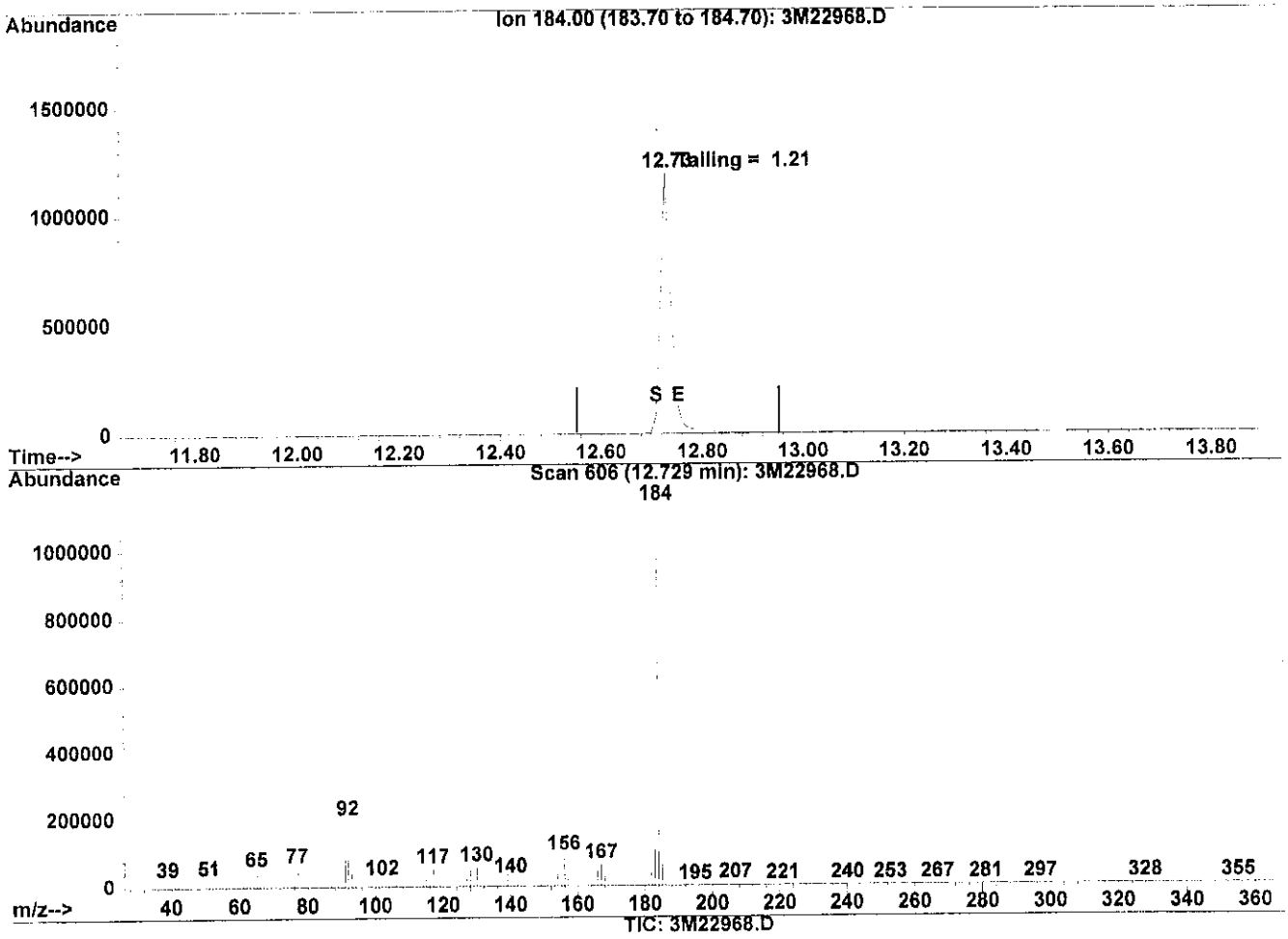
response 284285

Ion	Exp%	Act%
265.75	100	100
263.75	62.30	60.32
267.75	63.80	63.34
0.00	0.00	0.00

3M22968.D DFTPP.M Tue May 29 09:36:26 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052901\3M22968.D Vial: 1
Acq On : 29 May 2001 9:18 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 29 9:36 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(2) Benzidine

12.73min 0.00

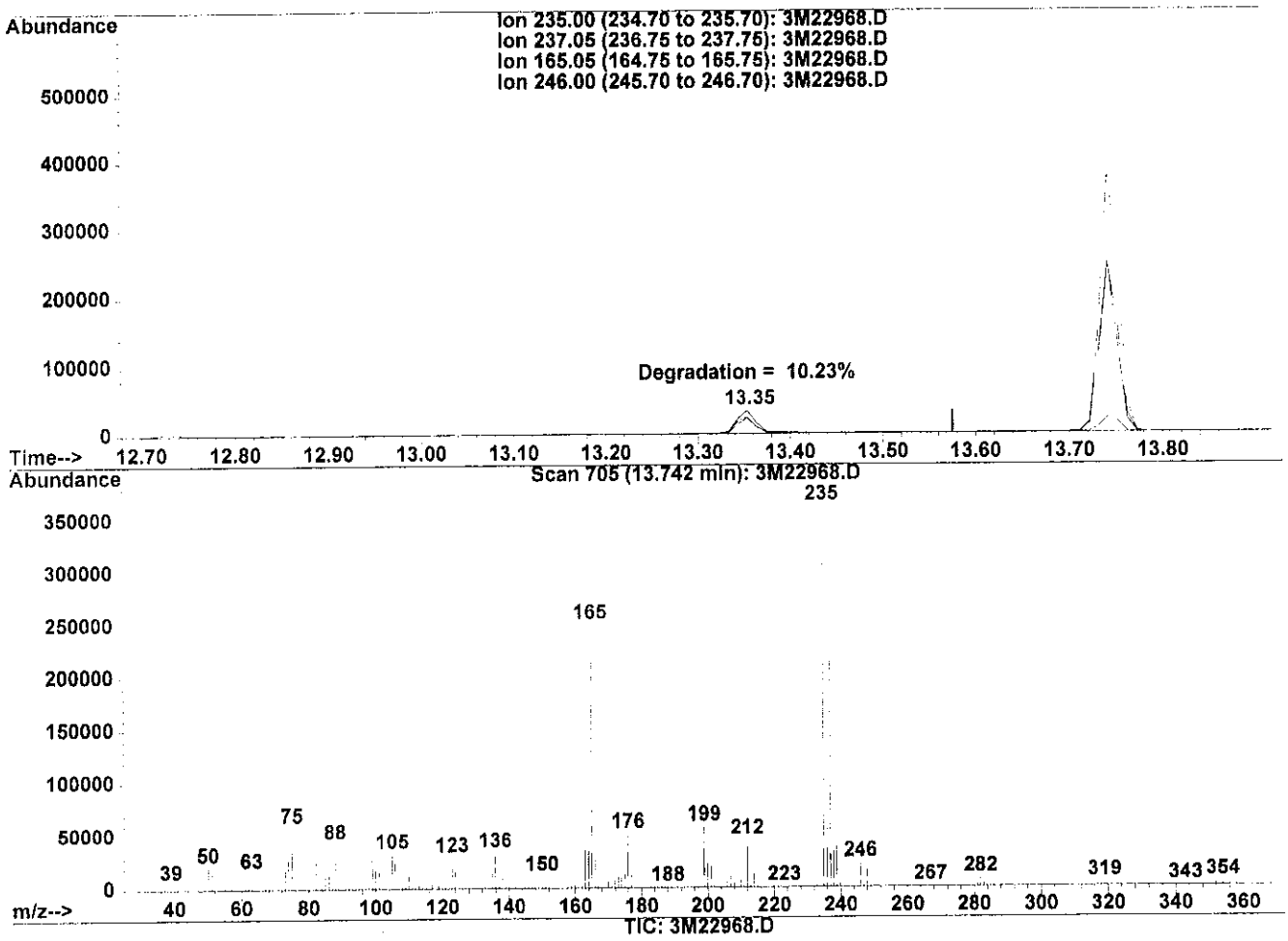
response 1756831

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

3M22968.D DFTPP.M Tue May 29 09:36:35 2001 HPMS3

Data File : C:\HPCHEM\1\DATA\052901\3M22968.D Vial: 1
Acq On : 29 May 2001 9:18 Operator: CLK
Sample : 50PPM DFTPP Inst : HPMS3
Misc : WATER,1 Multiplr: 1.00
Quant Time: May 29 9:36 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu Mar 29 10:58:41 2001
Response via : Single Level Calibration



(3) 4,4'-DDT

13.74min 0.00

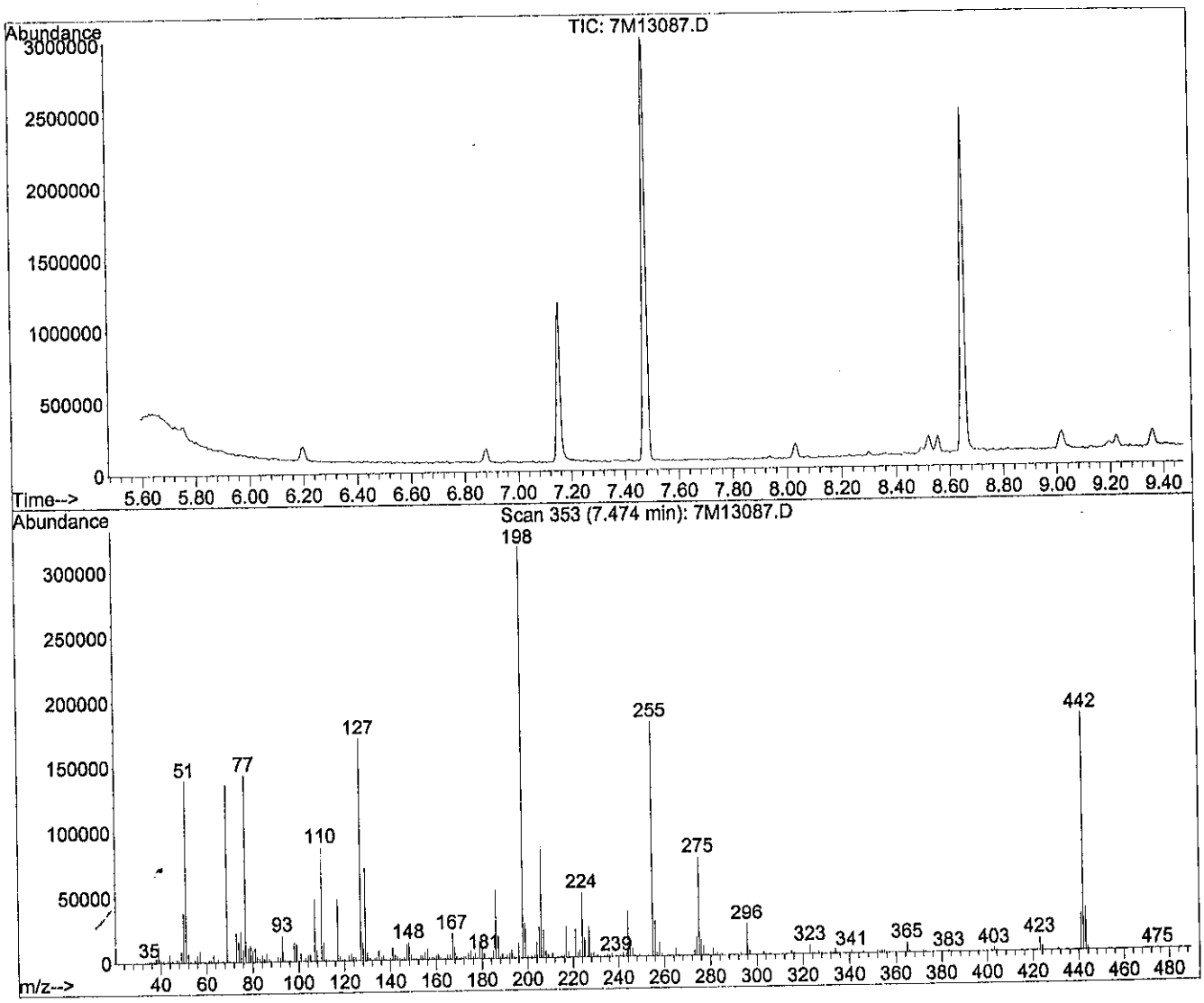
response 520060

Ion	Exp%	Act%
235.00	100	100
237.05	64.30	64.59
165.05	67.90	63.54
246.00	7.10	6.03

3M22968.D DFTPP.M Tue May 29 09:36:48 2001 HPMS3

Data File : C:\MSDCHEM\1\DATA\052901\7M13087.D
Acq On : 29 May 2001 14:11
Sample : 5PPM DFTPP (S53-22)
Misc : WATER,1
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP

Vial: 1
Operator: rdc
Inst : HPMS7
Multiplr: 1.00



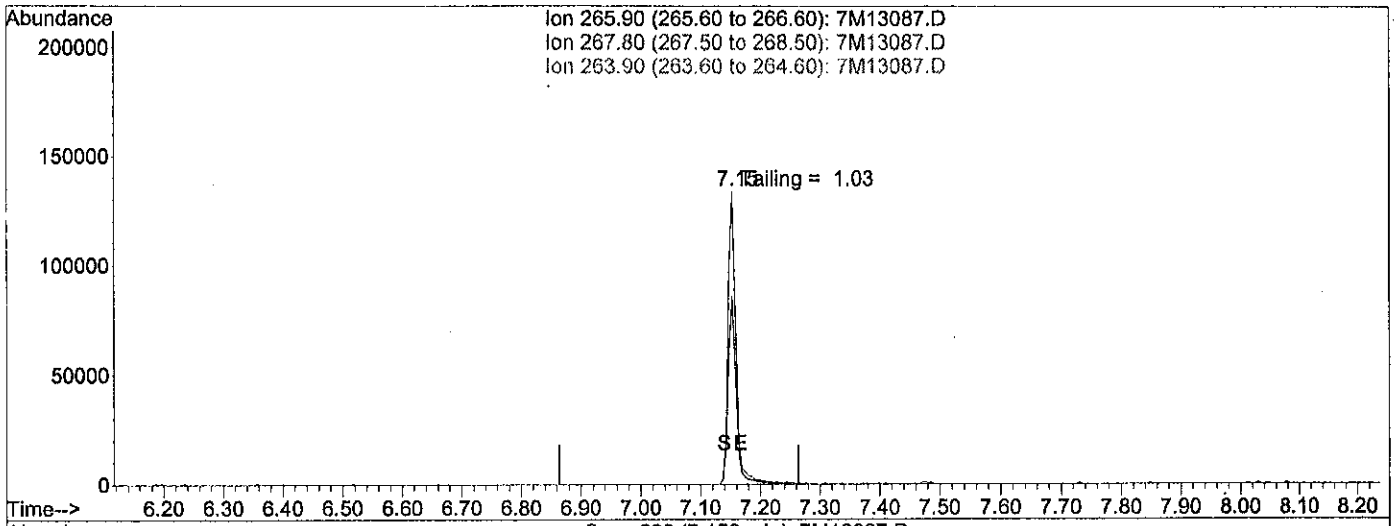
Spectrum Information: Scan 353

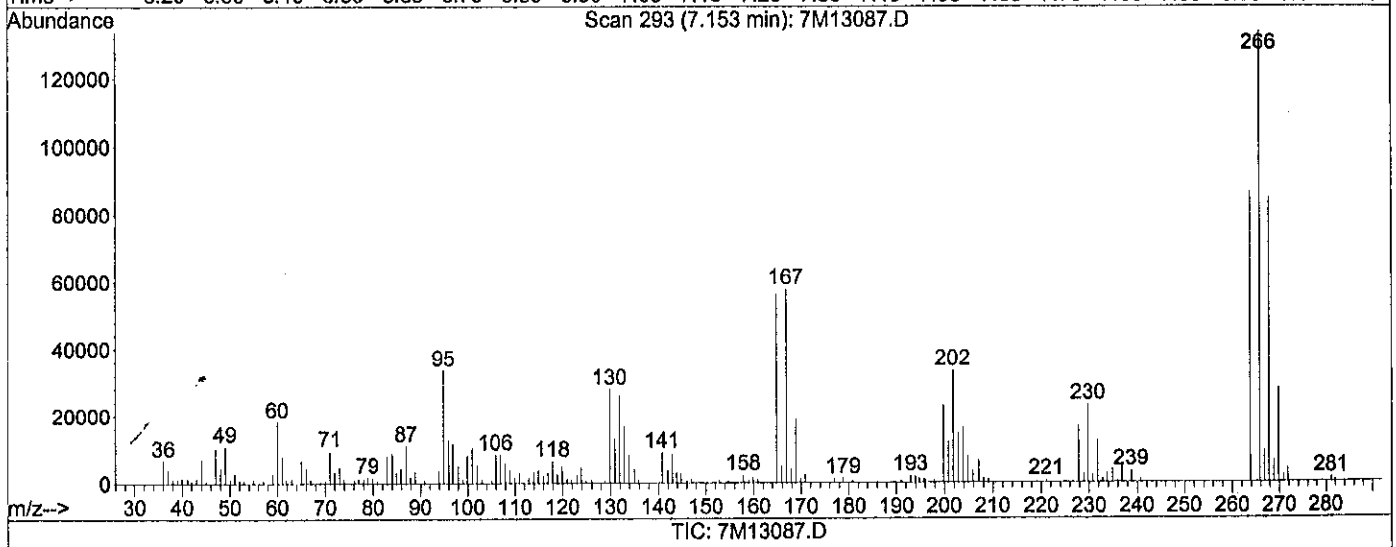
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	139520	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.2	136640	PASS
70	69	0.00	2	0.9	1209	PASS
127	198	40	60	54.0	170880	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	316480	PASS
199	198	5	9	8.5	26752	PASS
275	198	10	30	24.0	75816	PASS
365	198	1	100	2.4	7694	PASS
441	443	0.01	100	86.2	28728	PASS
442	198	40	100	57.8	183040	PASS
443	442	17	23	18.2	33336	PASS

7M13087.D PAHDFTPP.M Tue May 29 14:47:49 2001

Data File : C:\MSDCHEM\1\DATA\052901\7M13087.D Vial: 1
Acq On : 29 May 2001 14:11 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 14:23 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13087.D

(1) PENTACHLOROPHENOL

7.15min 0.00

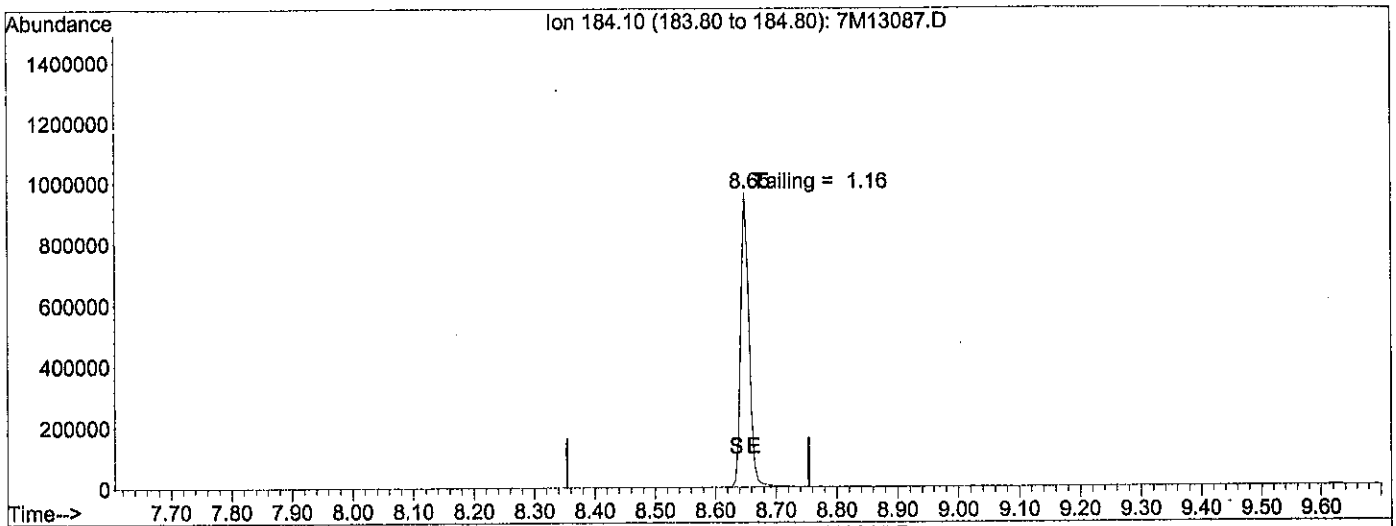
response 123728

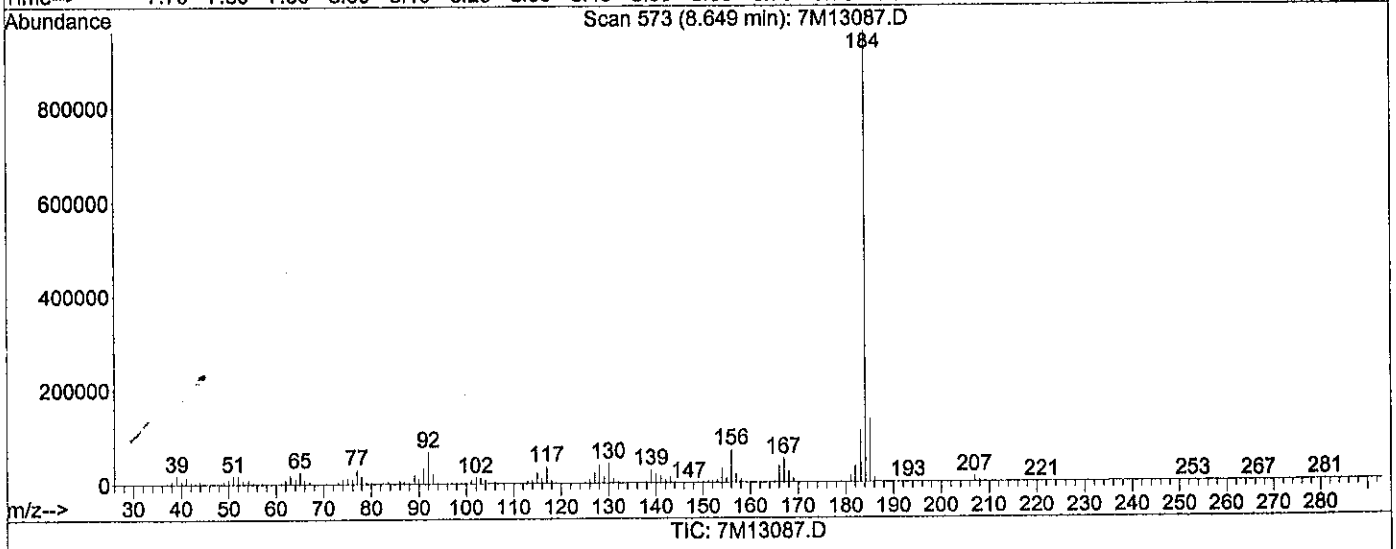
Ion	Exp%	Act%
265.90	100	100
267.80	62.20	64.23
263.90	65.00	63.72
0.00	0.00	0.00

7M13087.D PAHDFTPP.M Tue May 29 14:48:03 2001

Data File : C:\MSDCHEM\1\DATA\052901\7M13087.D Vial: 1
Acq On : 29 May 2001 14:11 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 14:23 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13087.D

(2) BENZIDINE

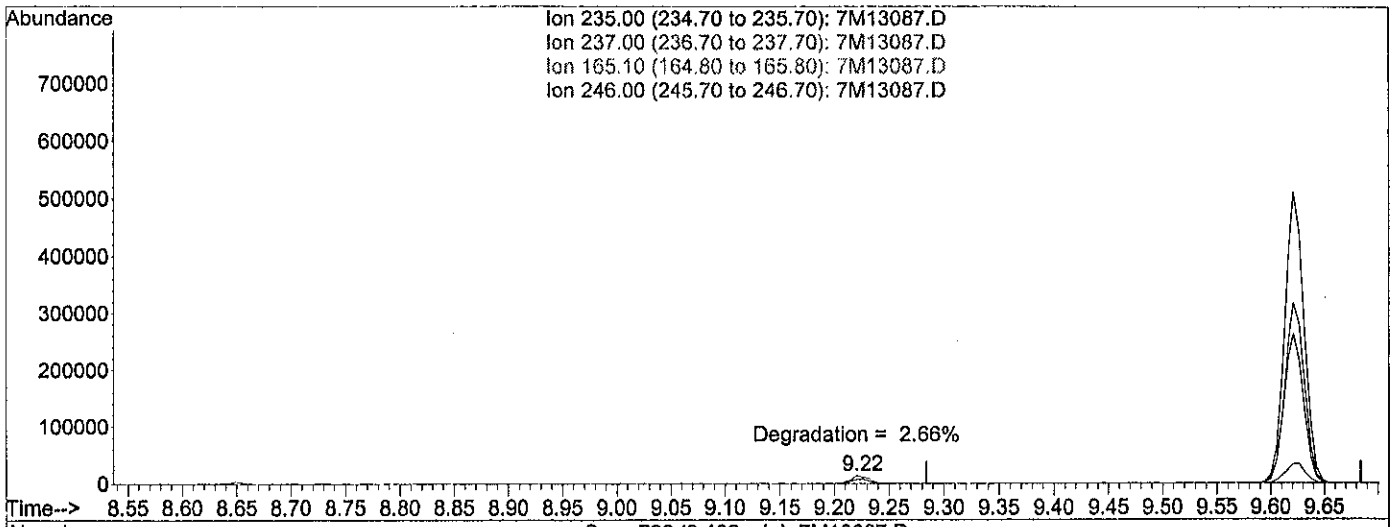
8.65min 0.00

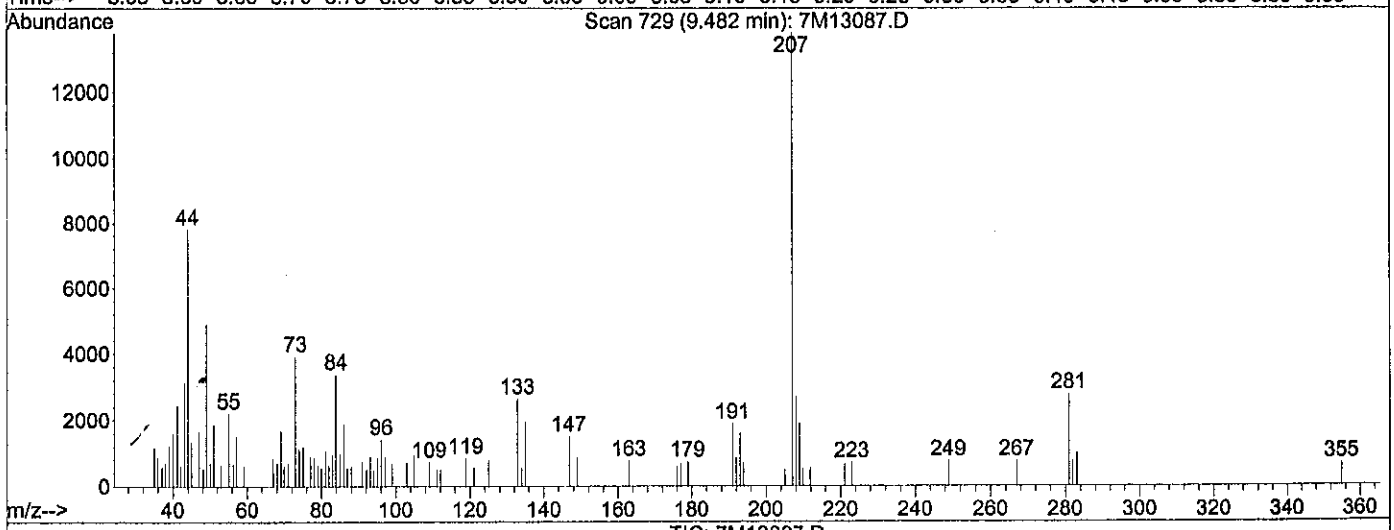
response 924406

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\052901\7M13087.D Vial: 1
Acq On : 29 May 2001 14:11 Operator: rdc
Sample : 5PPM DFTPP (S53-22) Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 29 14:23 2001 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\PAHDFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Thu May 17 14:29:31 2001
Response via : Single Level Calibration





TIC: 7M13087.D

(3) DDT

9.48min 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	61.80	0.00#
165.10	54.00	0.00#
246.00	7.40	0.00#

Data File : C:\MSDCHEM\1\DATA\052401\7M13072.D Vial: 3
Acq On : 24 May 2001 13:12 Operator: rdc
Sample : WG98038-01 BLANK 5/23/01 V164P05 Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 15:58:33 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Thu May 24 12:48:56 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	439439	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	245829	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	390475	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	354179	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	341372	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	169949	1.24	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 49.60%			
7) 2-Fluorobiphenyl	7.60	172	351320	0.97	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 38.80%#			
17) p-Terphenyl-d14	11.46	244	467793	1.21	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 48.40%			

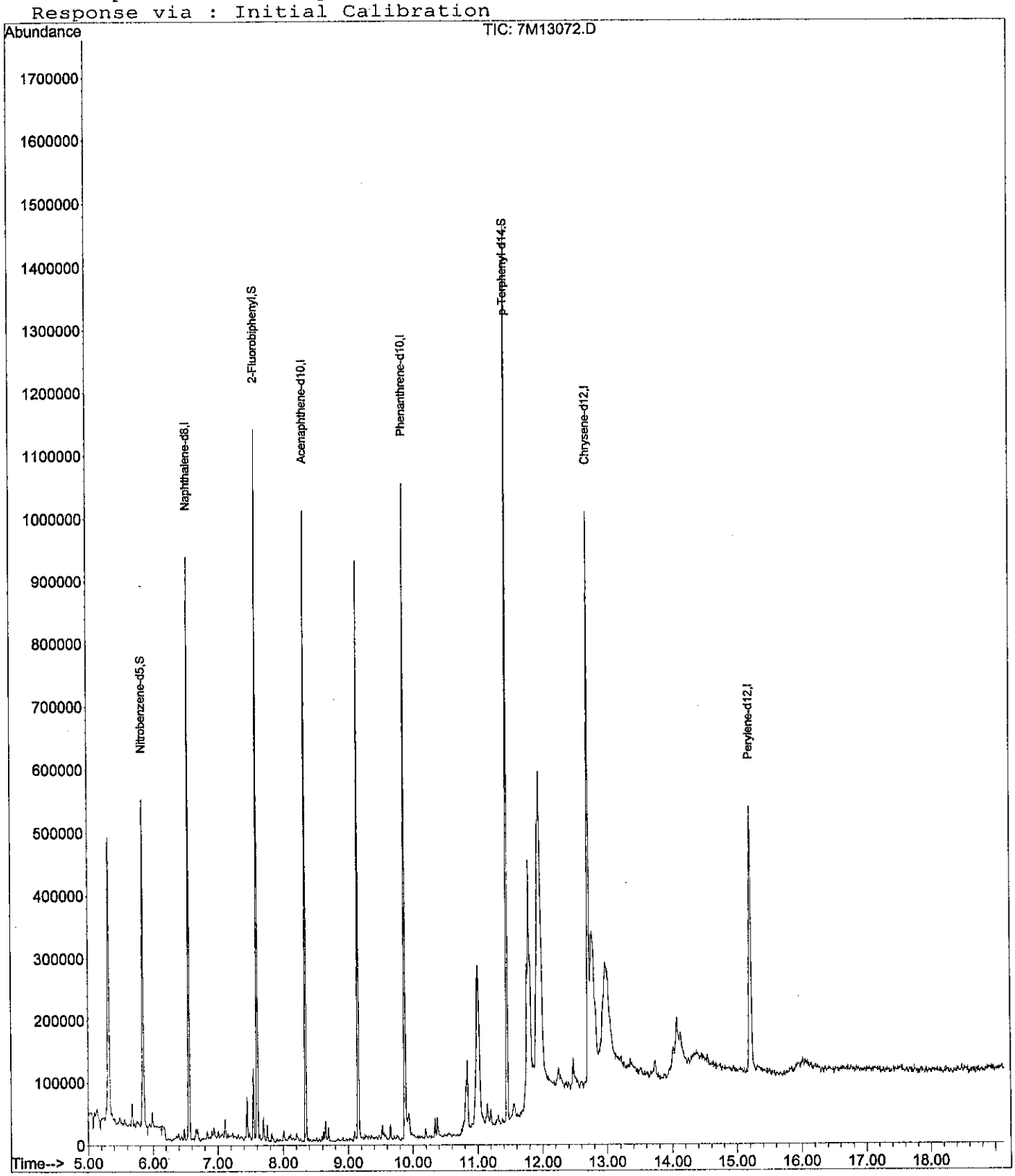
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13072.D PAHLOW.M Thu May 24 15:59:06 2001 Page 547

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052401\7M13072.D Vial: 3
Acq On : 24 May 2001 13:12 Operator: rdc
Sample : WG98038-01 BLANK 5/23/01 V164P05 Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 15:58 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Thu May 24 12:48:56 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17056.D Vial: 11
Acq On : 24 May 2001 14:23 Operator: CLK
Sample : WG98071-02 BLK 5/24 V164P11 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:44 2001 Quant Results File: BNA.RES

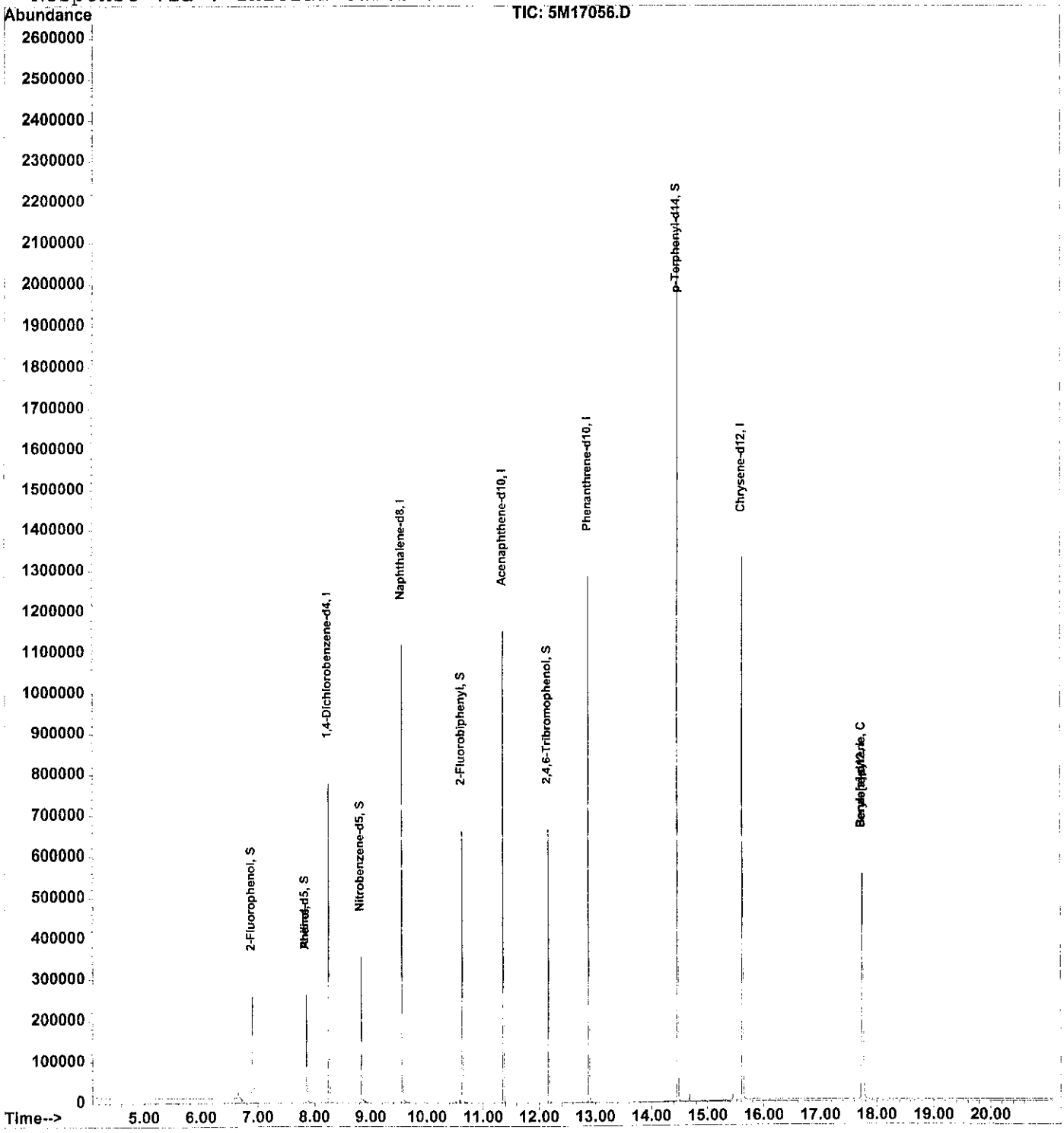
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	130607	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	485033	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	280606	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	459777	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	503206	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	410462	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	111864	28.29	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 28.29%			
6) Phenol-d5	7.86	99	94220	18.22	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 18.22%			
20) Nitrobenzene-d5	8.84	82	116632	24.23	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 48.46%			
38) 2-Fluorobiphenyl	10.64	172	218698	22.16	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 44.32%			
55) 2,4,6-Tribromophenol	12.17	330	65811	46.96	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 46.96%			
70) p-Terphenyl-d14	14.47	244	687564	52.87	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 105.74%			
Target Compounds						Qvalue
5) Aniline	7.86	66	6392	2.61	ug/mL#	1
60) Benzo[a]pyrene	17.76	252	839	3.52	ug/mL#	60

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17056.D Vial: 11
Acq On : 24 May 2001 14:23 Operator: CLK
Sample : WG98071-02 BLK 5/24 V164P11 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:44 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052901\3M22971.D Vial: 4
Acq On : 29 May 2001 10:51 Operator: CLK
Sample : WG98045-02 BLK 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:58 2001 Quant Results File: BNA.RES

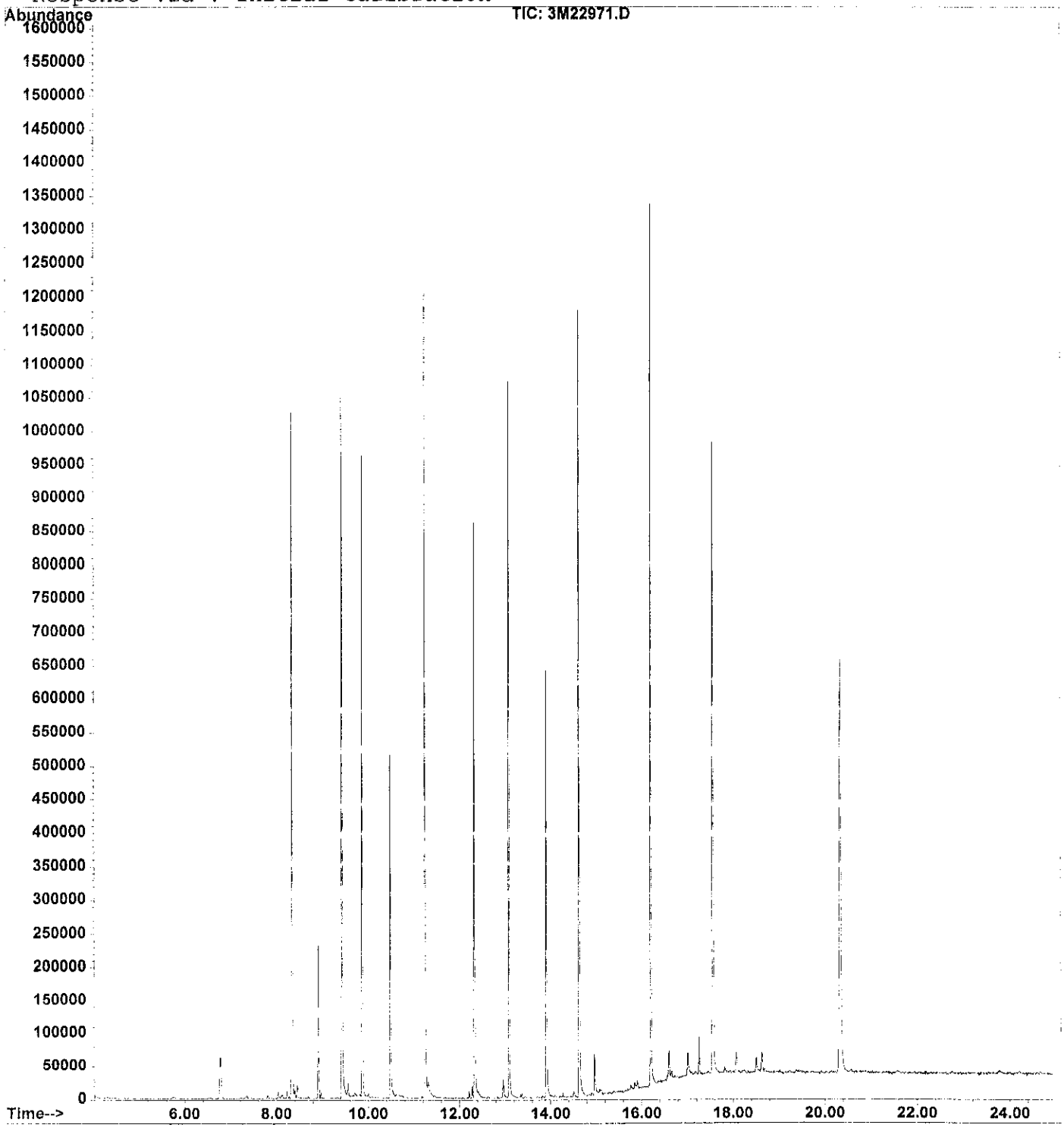
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

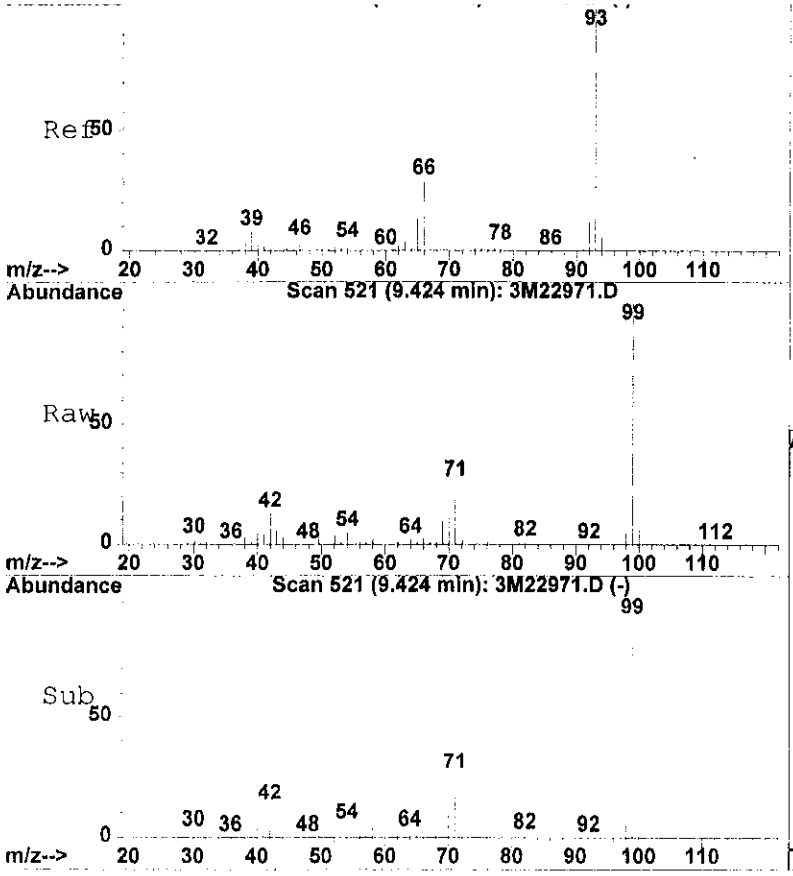
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	181796	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	641552	40.00	ug/L	0.00
34) Acenaphthene-d10	13.09	164	343572	40.00	ug/L	0.00
56) Phenanthrene-d10	14.63	188	459817	40.00	ug/L	0.00
67) Chrysene-d12	17.57	240	402250	40.00	ug/L	0.00
76) Perylene-d12	20.34	264	500922	40.00	ug/L	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	470045	53.99	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery = 53.99%			
6) Phenol-d5	9.42	99	621329	59.62	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 59.62%			
20) Nitrobenzene-d5	10.48	82	237080	31.93	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 63.86%			
38) 2-Fluorobiphenyl	12.33	172	329083	29.64	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 59.28%			
55) 2,4,6-Tribromophenol	13.91	330	78134	62.39	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 62.39%			
70) p-Terphenyl-d14	16.21	244	445217	46.36	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 92.72%			
Target Compounds						Qvalue
5) Aniline	9.42	66	19673	181.26	ug/L	# 1

(#) = qualifier out of range (m) = manual integration
3M22971.D BNA.M Tue May 29 14:58:40 2001 HPMS3 Page 1

Data File : C:\HPCHEM\1\DATA\052901\3M22971.D Vial: 4
Acq On : 29 May 2001 10:51 Operator: CLK
Sample : WG98045-02 BLK 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 14:58 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration

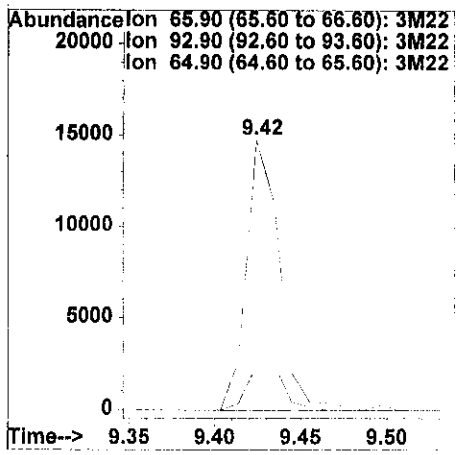




#3
Aniline
Concen: 181.26 ug/L
RT: 9.42 min Scan# 521
Delta R.T. -0.09 min
Lab File: 3M22971.D
Acq: 29 May 2001 10:51

Tgt Ion: 66 Resp: 19673

Ion	Ratio	Lower	Upper
66	100		
93	0.0	272.8	409.2#
65	18.4	39.2	58.8#



Data File : C:\MSDCHEM\1\DATA\052901\7M13089.D Vial: 3
Acq On : 29 May 2001 16:09 Operator: rdc
Sample : WG98117-02 BLANK 5/24/01 V164P15 Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:53:14 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

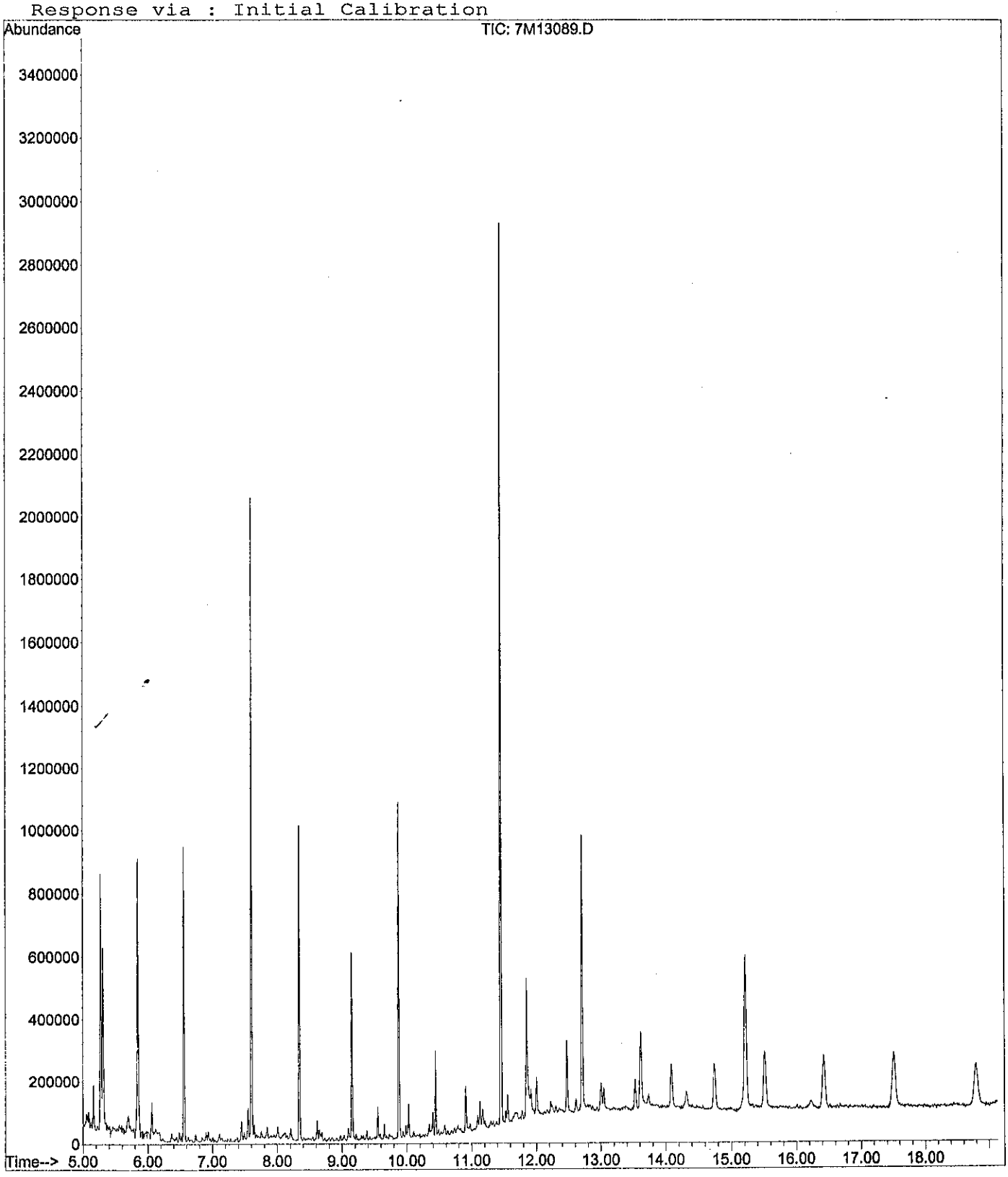
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	432515	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	245147	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.88	188	392852	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	374898	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	386821	1.00	ug/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	258091	1.88	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 75.20%			
7) 2-Fluorobiphenyl	7.60	172	613186	1.70	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 68.00%			
17) p-Terphenyl-d14	11.46	244	893512	2.19	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 87.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
7M13089.D PAHLOW.M Wed May 30 11:44:35 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052901\7M13089.D Vial: 3
Acq On : 29 May 2001 16:09 Operator: rdc
Sample : WG98117-02 BLANK 5/24/01 V164P15 Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:57 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052401\7M13073.D Vial: 4
Acq On : 24 May 2001 13:38 Operator: rdc
Sample : WG98038-02 LCS 5/23/01 V164P05 Inst : HPMS7
Misc : WATER,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 15:59:22 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Thu May 24 12:48:56 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	435257	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	245976	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	395670	1.00	ug/ml	0.00
15) Chrysene-d12	12.70	240	378613	1.00	ug/ml	-0.01
20) Perylene-d12	15.20	264	367230	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	240483	1.75	ug/ml	0.00
Spiked Amount 2.500	Range 35 - 114		Recovery = 70.00%			
7) 2-Fluorobiphenyl	7.60	172	351989	0.97	ug/ml	0.00
Spiked Amount 2.500	Range 43 - 116		Recovery = 38.80%#			
17) p-Terphenyl-d14	11.45	244	676709	1.64	ug/ml	0.00
Spiked Amount 2.500	Range 33 - 141		Recovery = 65.60%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	157647	0.32	ug/ml	100
4) 2-Methylnaphthalene	7.25	142	106459	0.34	ug/ml	98
5) 1-Methylnaphthalene	7.37	142	102287	0.34	ug/ml	95
8) Acenaphthylene	8.20	152	229184	0.53	ug/ml	99
9) Acenaphthene	8.37	154	137582	0.44	ug/ml	96
10) Fluorene	8.90	166	193278	0.57	ug/ml	99
12) Phenanthrene	9.90	178	317701	0.62	ug/ml	99
13) Anthracene	9.95	178	291898	0.67	ug/ml	99
14) Fluoranthene	11.13	202	415756	0.79	ug/ml	99
16) Pyrene	11.38	202	436757	0.75	ug/ml	99
18) Benzo[a]anthracene	12.69	228	434268	0.91	ug/ml	100
19) Chrysene	12.74	228	439426	0.83	ug/ml	99
21) Benzo[b]fluoranthene	14.39	252	457559	0.75	ug/ml	100
22) Benzo[k]fluoranthene	14.44	252	397768	0.67	ug/ml	99
23) Benzo[a]pyrene	15.09	252	355498	0.74	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.01	276	294057	0.55	ug/ml#	95
25) Dibenz[ah]anthracene	18.02	278	148911	0.40	ug/ml	99
26) Benzo[ghi]perylene	18.92	276	200813	0.40	ug/ml	99

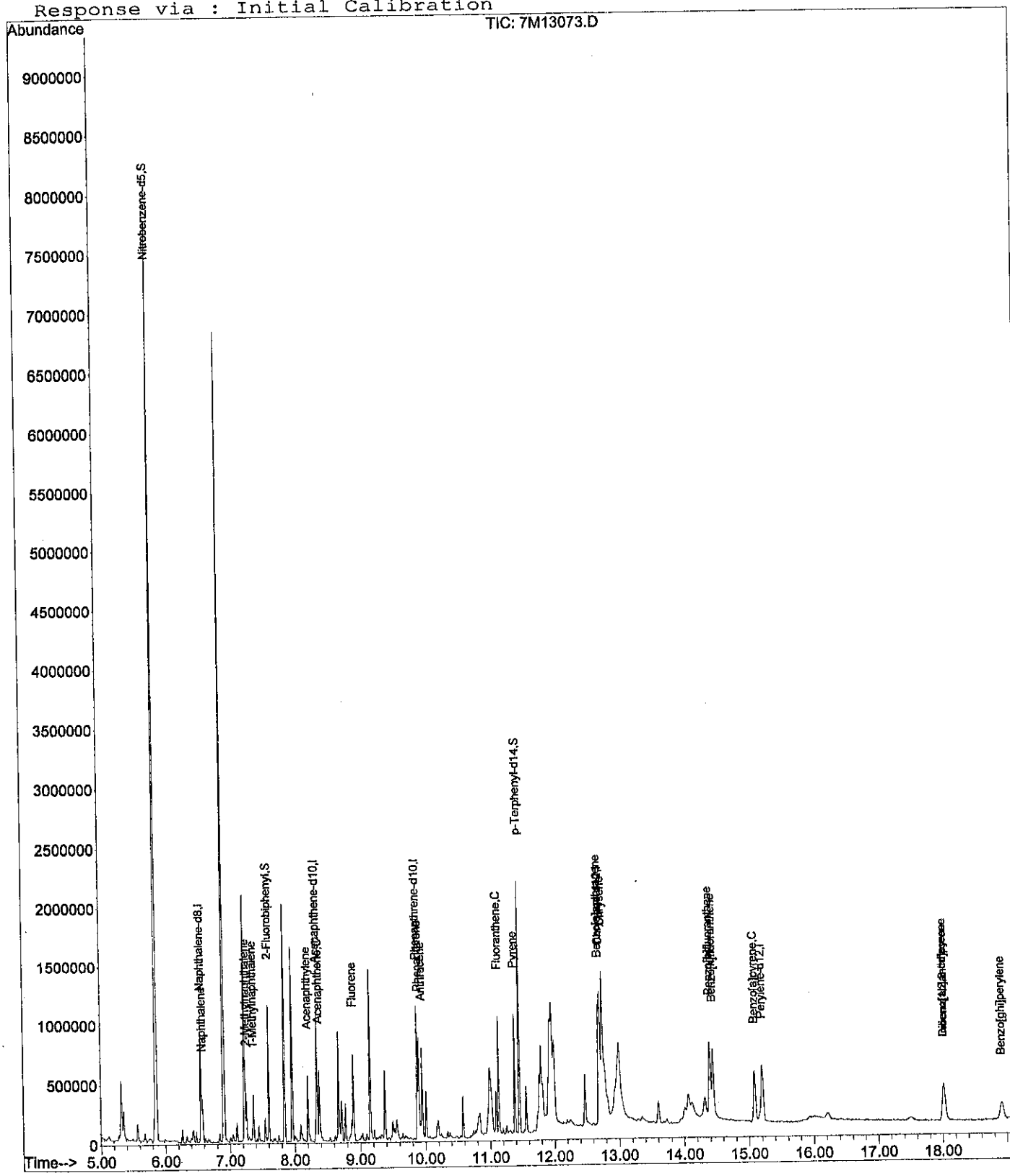
(#) = qualifier out of range (m) = manual integration
7M13073.D PAHLOW.M Thu May 24 15:59:38 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052401\7M13073.D
Acq On : 24 May 2001 13:38
Sample : WG98038-02 LCS 5/23/01 V164P05
Misc : WATER,1
MS Integration Params: RTEINT.P
Quant Time: May 24 15:59 2001

Vial: 4
Operator: rdc
Inst : HPMS7
Multiplr: 1.00

Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Thu May 24 12:48:56 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052401\5M17057.D Vial: 12
Acq On : 24 May 2001 14:53 Operator: CLK
Sample : WG98071-03 LCS 5/24 V164P11 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:46 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	128836	40.00	ug/mL	0.00
19) Naphthalene-d8	9.57	136	494213	40.00	ug/mL	0.00
34) Acenaphthene-d10	11.37	164	292242	40.00	ug/mL	0.00
56) Phenanthrene-d10	12.89	188	483303	40.00	ug/mL	0.00
67) Chrysene-d12	15.63	240	568136	40.00	ug/mL	0.00
76) Perylene-d12	17.76	264	469754	40.00	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	6.91	112	101459	26.01	ug/mL	0.00
Spiked Amount 100.000	Range 21 - 100		Recovery = 26.01%			
6) Phenol-d5	7.87	99	91159	17.87	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 94		Recovery = 17.87%			
20) Nitrobenzene-d5	8.84	82	113907	23.22	ug/mL	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery = 46.44%			
38) 2-Fluorobiphenyl	10.64	172	225513	21.94	ug/mL	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 43.88%			
55) 2,4,6-Tribromophenol	12.18	330	120765	72.23	ug/mL	0.00
Spiked Amount 100.000	Range 10 - 123		Recovery = 72.23%			
70) p-Terphenyl-d14	14.47	244	642891	43.78	ug/mL	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 87.56%			
Target Compounds						Qvalue
2) Pyridine	5.16	79	29689	7.41	ug/mL	98
3) n-Nitrosodimethylamine	5.13	74	35140	15.22	ug/mL#	95
5) Aniline	7.94	66	38414	15.93	ug/mL	95
7) Phenol	7.88	94	50204	9.34	ug/mL	91
8) bis(2-Chloroethyl)ether	7.98	63	64437	22.34	ug/mL	98
9) 2-Chlorophenol	8.06	128	88485	19.74	ug/mL	97
10) 1,3-Dichlorobenzene	8.21	146	81481	14.94	ug/mL	100
11) 1,4-Dichlorobenzene	8.28	146	89550	15.67	ug/mL	99
12) Benzyl Alcohol	8.39	108	55009	20.57	ug/mL	94
13) 1,2-Dichlorobenzene	8.45	146	86027	16.57	ug/mL	100
14) 2-Methylphenol	8.49	107	64067	19.62	ug/mL	96
15) bis(2-Chloroisopropyl)ethe	8.51	45	111071	22.78	ug/mL	94
16) 4-Methylphenol	8.63	107	87564	17.92	ug/mL	98
17) n-Nitrosodipropylamine	8.65	70	72847	25.34	ug/mL	99
18) Hexachloroethane	8.78	117	28803	12.28	ug/mL	98
21) Nitrobenzene	8.86	77	111308	22.43	ug/mL	97
22) Isophorone	9.07	82	199947	25.65	ug/mL	98
23) 2-Nitrophenol	9.18	139	56261	23.53	ug/mL	93
24) 2,4-Dimethylphenol	9.17	122	98399	21.99	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17057.D Vial: 12
Acq On : 24 May 2001 14:53 Operator: CLK
Sample : WG98071-03 LCS 5/24 V164P11 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:46 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-Chloroethoxy)methane	9.27	93	116413	22.59 ug/mL#	98
26) Benzoic Acid	9.22	122	9208	9.56 ug/mL	92
27) 2,4-Dichlorophenol	9.41	162	89758	21.57 ug/mL	99
28) 1,2,4-Trichlorobenzene	9.50	180	81385	15.90 ug/mL	100
29) Naphthalene	9.59	128	285785	19.69 ug/mL	100
30) 4-Chloroaniline	9.64	127	122625	21.67 ug/mL	98
31) Hexachlorobutadiene	9.69	225	44486	14.04 ug/mL	100
32) 4-Chloro-3-Methylphenol	10.08	107	92324	25.64 ug/mL	98
33) 2-Methylnaphthalene	10.28	142	188776	19.27 ug/mL	99
35) Hexachlorocyclopentadiene	10.44	237	21020	14.34 ug/mL	98
36) 2,4,6-Trichlorophenol	10.57	196	73314	24.57 ug/mL	99
37) 2,4,5-Trichlorophenol	10.61	196	84824	26.85 ug/mL	100
39) 2-Chloronaphthalene	10.79	162	194523	20.37 ug/mL	100
40) 2-Nitroaniline	10.90	65	74604	30.04 ug/mL	95
41) Dimethylphthalate	11.04	163	321529	31.78 ug/mL	100
42) Acenaphthylene	11.23	152	332564	24.90 ug/mL	100
43) 2,6-Dinitrotoluene	11.14	165	70964	33.01 ug/mL	97
44) 3-Nitroaniline	11.32	138	81496	37.03 ug/mL	98
45) Acenaphthene	11.40	154	230953	25.08 ug/mL	97
46) 2,4-Dinitrophenol	11.42	184	33113	36.16 ug/mL#	59
47) 4-Nitrophenol	11.45	65	30190	17.42 ug/mL	93
48) Dibenzofuran	11.57	168	324241	25.08 ug/mL	100
49) 2,4-Dinitrotoluene	11.55	165	122974	39.39 ug/mL	96
50) Diethylphthalate	11.74	149	389238	38.38 ug/mL	100
51) Fluorene	11.92	166	303663	27.86 ug/mL	99
52) 4-Chlorophenyl Phenyl Ethe	11.88	204	139387	28.25 ug/mL	99
53) 4-Nitroaniline	11.95	138	101243	44.18 ug/mL	97
54) 1,2-Diphenylhydrazine	12.04	77	320504	30.72 ug/mL	98
57) 4,6-Dinitro-2-Methylphenol	11.96	198	79296	43.44 ug/mL	99
58) n-Nitrosodiphenylamine	12.01	169	272866	39.02 ug/mL	99
59) 4-Bromophenyl Phenyl Ether	12.39	248	89675	30.34 ug/mL	98
60) Hexachlorobenzene	12.50	284	131787	38.81 ug/mL	98
61) Pentachlorophenol	12.70	266	68407	40.20 ug/mL	99
62) Phenanthrene	12.92	178	633784	39.19 ug/mL	100
63) Anthracene	12.97	178	644235	40.90 ug/mL	100
64) Carbazole	13.12	167	614883	44.98 ug/mL	100
65) Di-n-Butyl Phthalate	13.38	149	804909	47.50 ug/mL	100
66) Fluoranthene	14.14	202	859323	45.61 ug/mL	100
68) Benzidine	14.24	184	15462	2.97 ug/mL	100
69) Pyrene	14.38	202	913772	44.20 ug/mL	100
71) Butyl Benzyl Phthalate	14.92	149	383521	47.94 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052401\5M17057.D Vial: 12
Acq On : 24 May 2001 14:53 Operator: CLK
Sample : WG98071-03 LCS 5/24 V164P11 Inst : HPMS5
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25 9:46 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update : Thu May 24 13:28:39 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	15.61	228	914162	47.60	ug/mL	100
73)	3,3'-Dichlorobenzidine	15.54	252	276778	63.26	ug/mL	100
74)	Chrysene	15.66	228	872788	48.79	ug/mL	100
75)	bis(2-Ethylhexyl)phthalate	15.45	149	498909	47.15	ug/mL	100
77)	Di-n-Octyl Phthalate	16.21	149	771656	46.65	ug/mL	100
78)	Benzo[b]fluoranthene	17.07	252	757758	43.64	ug/mL	97
79)	Benzo[k]fluoranthene	17.11	252	771475	48.40	ug/mL	97
80)	Benzo[a]pyrene	17.65	252	642750	41.97	ug/mL	99
81)	Indeno[1,2,3-cd]pyrene	20.13	276	665517	52.50	ug/mL	99
82)	Dibenz[ah]anthracene	20.13	278	552447	69.96	ug/mL	100
83)	Benzo[ghi]perylene	20.88	276	457662	54.14	ug/mL	100

(#) = qualifier out of range (m) = manual integration

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Data File : C:\HPCHEM\1\DATA\052401\5M17057.D              Vial: 12
Acq On    : 24 May 2001  14:53                          Operator: CLK
Sample    : WG98071-03 LCS 5/24 V164P11                 Inst     : HPMS5
Misc      : 1,1                                         Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 25  9:46 2001               Quant Results File: BNA.RES

Method        : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title         : M8270/625 WATER/INITIAL CALIBRATION 05/24/01
Last Update   : Thu May 24 13:28:39 2001
Response via  : Initial Calibration
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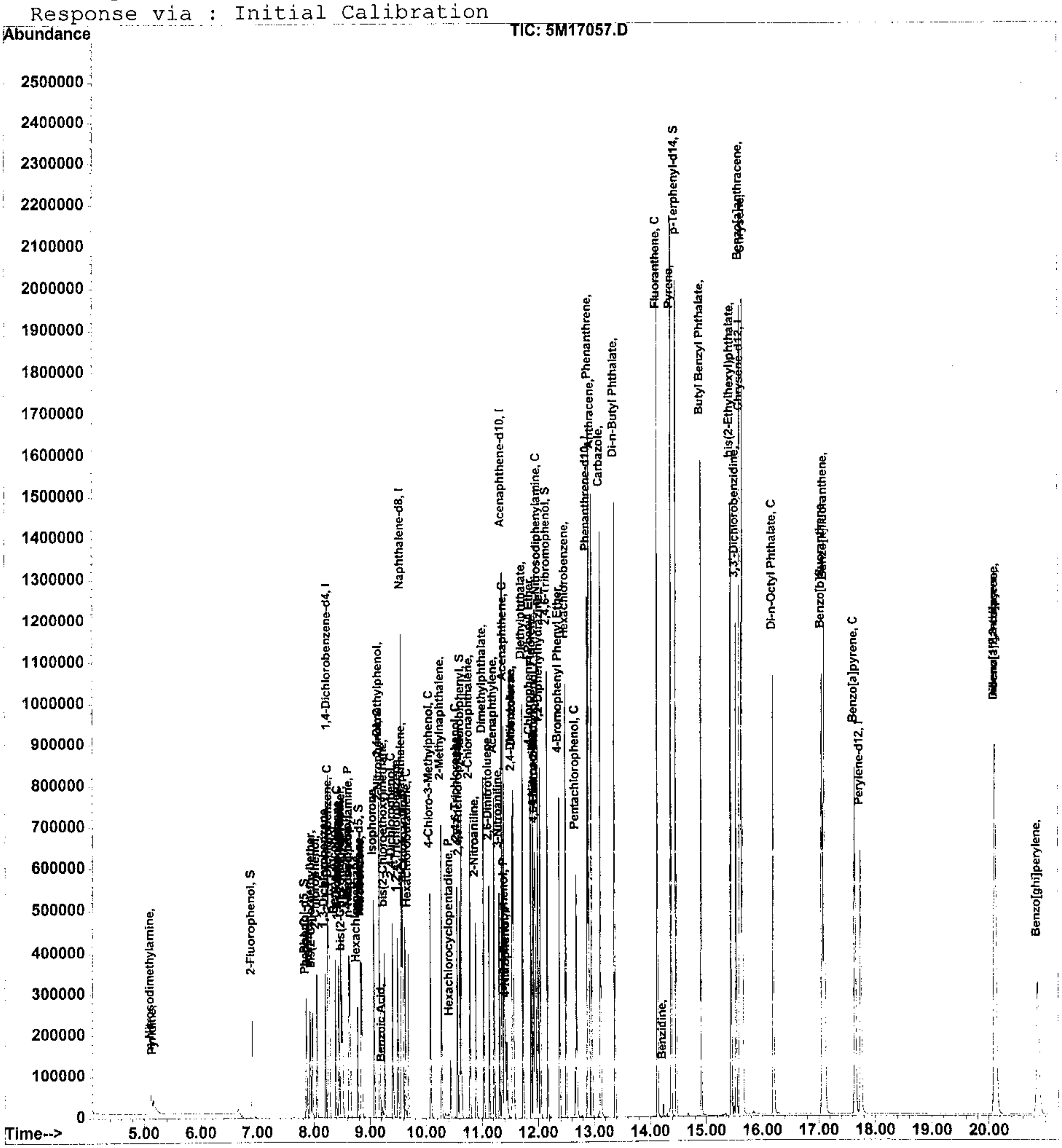


Data File : C:\HPCHEM\1\DATA\052901\3M22972.D Vial: 5
Acq On : 29 May 2001 11:26 Operator: CLK
Sample : WG98045-03 LCS 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	190078	40.00	ug/L	0.00
19) Naphthalene-d8	11.25	136	703470	40.00	ug/L	0.00
34) Acenaphthene-d10	13.08	164	356430	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.63	188	486395	40.00	ug/L	0.00
67) Chrysene-d12	17.57	240	421983	40.00	ug/L	-0.01
76) Perylene-d12	20.33	264	538900	40.00	ug/L	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	8.34	112	487067	53.51	ug/L	-0.01
Spiked Amount 100.000	Range 25 - 121		Recovery = 53.51%			
6) Phenol-d5	9.42	99	670488	61.54	ug/L	-0.01
Spiked Amount 100.000	Range 24 - 113		Recovery = 61.54%			
20) Nitrobenzene-d5	10.48	82	262271	32.22	ug/L	-0.01
Spiked Amount 50.000	Range 23 - 120		Recovery = 64.44%			
38) 2-Fluorobiphenyl	12.33	172	359010	31.17	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 62.34%			
55) 2,4,6-Tribromophenol	13.91	330	124094	95.51	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 95.51%			
70) p-Terphenyl-d14	16.20	244	471947	46.84	ug/L	-0.01
Spiked Amount 50.000	Range 18 - 137		Recovery = 93.68%			
Target Compounds						Qvalue
2) Pyridine	5.93	79	26256	92.04	ug/L	99
3) n-Nitrosodimethylamine	5.83	74	169892	1002.96	ug/L	93
5) Aniline	9.51	66	73319	646.09	ug/L	90
7) Phenol	9.44	94	348364	1048.65	ug/L	93
8) bis(2-Chloroethyl)ether	9.55	63	144930	1030.04	ug/L	94
9) 2-Chlorophenol	9.64	128	215200	903.40	ug/L	96
10) 1,3-Dichlorobenzene	9.81	146	207283	878.71	ug/L	97
11) 1,4-Dichlorobenzene	9.88	146	211953	873.37	ug/L	97
12) Benzyl Alcohol	10.00	108	173668	1053.79	ug/L	94
13) 1,2-Dichlorobenzene	10.07	146	197965	877.14	ug/L	97
14) 2-Methylphenol	10.10	107	206477	1020.07	ug/L	96
15) bis(2-Chloroisopropyl)ethe	10.12	45	308228	1172.25	ug/L	97
16) 4-Methylphenol	10.25	107	322492	1073.60	ug/L	98
17) n-Nitrosodipropylamine	10.27	70	165703	1201.78	ug/L	95
18) Hexachloroethane	10.43	117	110233	848.06	ug/L	100
21) Nitrobenzene	10.50	77	241916	1037.70	ug/L	93
22) Isophorone	10.73	82	544494	1195.85	ug/L	97
23) 2-Nitrophenol	10.83	139	120520	952.39	ug/L #	85
24) 2,4-Dimethylphenol	10.81	122	219687	1029.86	ug/L	90

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22972.D Vial: 5
Acq On : 29 May 2001 11:26 Operator: CLK
Sample : WG98045-03 LCS 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.92	93	340455	1097.35	ug/L	#	95
26)	Benzoic Acid	10.87	122	150197	1107.20	ug/L		97
27)	2,4-Dichlorophenol	11.08	162	166035	975.64	ug/L		98
28)	1,2,4-Trichlorobenzene	11.17	180	148455	873.92	ug/L		99
29)	Naphthalene	11.27	128	640607	942.93	ug/L		100
30)	4-Chloroaniline	11.31	127	223703	864.51	ug/L		94
31)	Hexachlorobutadiene	11.36	225	76441	1023.63	ug/L		98
32)	4-Chloro-3-Methylphenol	11.75	107	252934	1187.69	ug/L		94
33)	2-Methylnaphthalene	11.98	142	361331	951.84	ug/L		97
35)	Hexachlorocyclopentadiene	12.14	237	57633	959.39	ug/L		100
36)	2,4,6-Trichlorophenol	12.26	196	97341	1092.46	ug/L		99
37)	2,4,5-Trichlorophenol	12.31	196	107109	1146.09	ug/L		98
39)	2-Chloronaphthalene	12.50	162	337709	977.88	ug/L		96
40)	2-Nitroaniline	12.60	65	137164	1396.94	ug/L		94
41)	Dimethylphthalate	12.72	163	509137	1289.72	ug/L		100
42)	Acenaphthylene	12.95	152	598696	1121.00	ug/L		100
43)	2,6-Dinitrotoluene	12.83	165	123511	1287.25	ug/L	#	85
44)	3-Nitroaniline	13.03	138	154760	1402.65	ug/L		89
45)	Acenaphthene	13.12	154	388862	1151.32	ug/L		99
46)	2,4-Dinitrophenol	13.12	184	71699	1450.28	ug/L	#	64
47)	4-Nitrophenol	13.13	65	123486	1823.94	ug/L		87
48)	Dibenzofuran	13.29	168	512733	1110.23	ug/L		92
49)	2,4-Dinitrotoluene	13.25	165	191744	1539.74	ug/L	#	83
50)	Diethylphthalate	13.42	149	611643	1541.27	ug/L		99
51)	Fluorene	13.64	166	442225	1199.23	ug/L		98
52)	4-Chlorophenyl Phenyl Ethe	13.59	204	163228	1171.03	ug/L		91
53)	4-Nitroaniline	13.66	138	189465	1674.33	ug/L	#	86
54)	1,2-Diphenylhydrazine	13.75	77	628552	1343.29	ug/L		96
57)	4,6-Dinitro-2-Methylphenol	13.67	198	107620	1601.07	ug/L		90
58)	n-Nitrosodiphenylamine	13.71	169	352889	1349.34	ug/L		94
59)	4-Bromophenyl Phenyl Ether	14.11	248	89076	1133.12	ug/L	#	89
60)	Hexachlorobenzene	14.24	284	119106	1393.92	ug/L		97
61)	Pentachlorophenol	14.43	266	89261	1567.74	ug/L		99
62)	Phenanthrene	14.65	178	689471	1394.49	ug/L		99
63)	Anthracene	14.71	178	704863	1420.49	ug/L		99
64)	Carbazole	14.85	167	777873	1601.09	ug/L	#	96
65)	Di-n-Butyl Phthalate	15.07	149	1175908	1650.25	ug/L		99
66)	Fluoranthene	15.89	202	704626	1516.96	ug/L		99
68)	Benzidine	15.98	184	465	-153.00	ug/L	#	94
69)	Pyrene	16.15	202	739705	1506.84	ug/L		100
71)	Butyl Benzyl Phthalate	16.65	149	568796	1676.47	ug/L		94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22972.D Vial: 5
Acq On : 29 May 2001 11:26 Operator: CLK
Sample : WG98045-03 LCS 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

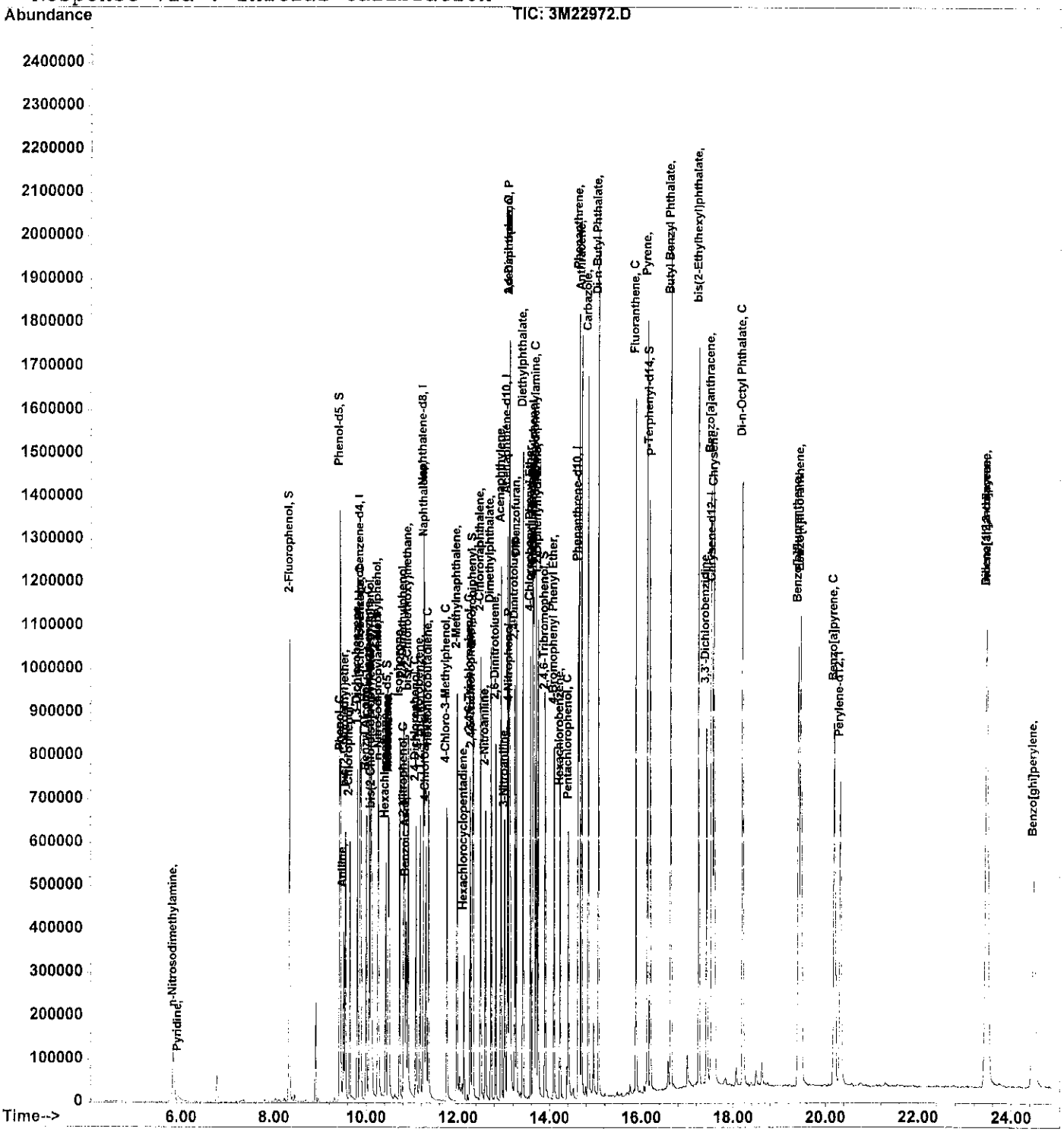
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	Benzo[a]anthracene	17.53	228	682601	1592.50	ug/L	99
73)	3,3'-Dichlorobenzidine	17.43	252	229774	1642.92	ug/L	99
74)	Chrysene	17.61	228	675444	1616.92	ug/L	99
75)	bis(2-Ethylhexyl)phthalate	17.26	149	769202	1742.91	ug/L	100
77)	Di-n-Octyl Phthalate	18.22	149	1376657	1708.29	ug/L	97
78)	Benzo[b]fluoranthene	19.43	252	800899	1648.01	ug/L	97
79)	Benzo[k]fluoranthene	19.48	252	683933	1447.16	ug/L	96
80)	Benzo[a]pyrene	20.21	252	698459	1482.42	ug/L	96
81)	Indeno[1,2,3-cd]pyrene	23.49	276	822133	1640.70	ug/L	92
82)	Dibenz[ah]anthracene	23.49	278	672664	2186.07	ug/L	92
83)	Benzo[ghi]perylene	24.50	276	692898	1533.31	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22972.D Vial: 5
Acq On : 29 May 2001 11:26 Operator: CLK
Sample : WG98045-03 LCS 5/23 V164P1 Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052901\7M13090.D Vial: 4
Acq On : 29 May 2001 16:35 Operator: rdc
Sample : WG98117-03 LCS 5/24/01 V164P15 Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:53:42 2001 Quant Results File: PAHLOW.RES

Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

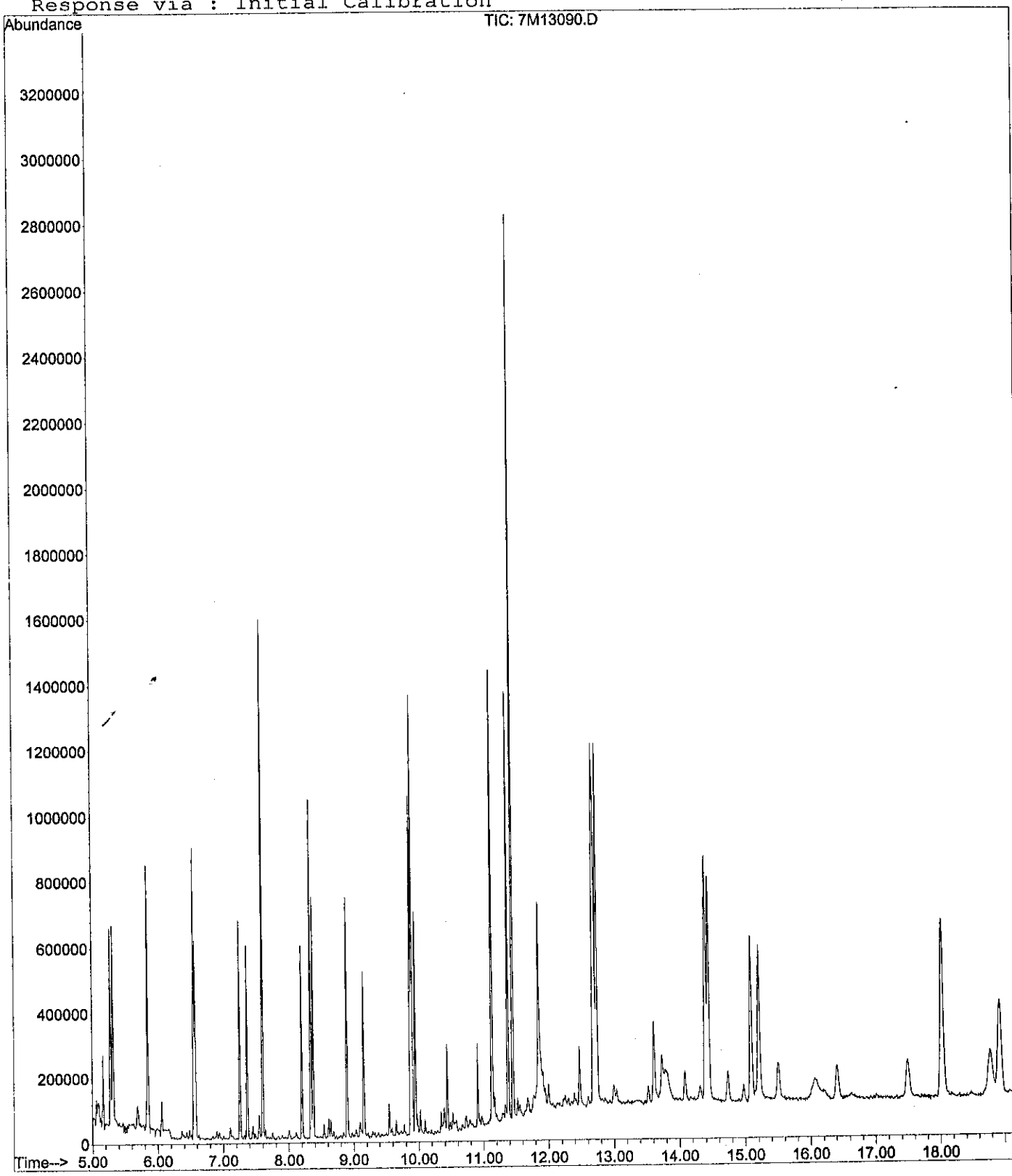
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	416199	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	234919	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	383031	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	379536	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	375132	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	217963	1.66	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 66.40%			
7) 2-Fluorobiphenyl	7.60	172	502302	1.45	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 58.00%			
17) p-Terphenyl-d14	11.45	244	831817	2.01	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 80.40%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	279247	29.97	ug/ml	99
4) 2-Methylnaphthalene	7.25	142	185751	31.44	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	168978	29.57	ug/ml	97
8) Acenaphthylene	8.20	152	254070	29.99	ug/ml	100
9) Acenaphthene	8.37	154	178956	29.96	ug/ml	98
10) Fluorene	8.89	166	209081	32.29	ug/ml	100
12) Phenanthrene	9.90	178	525983	53.41	ug/ml	100
13) Anthracene	9.95	178	284710	33.83	ug/ml	99
14) Fluoranthene	11.13	202	622823	60.93	ug/ml	99
16) Pyrene	11.38	202	596203	51.15	ug/ml	100
18) Benzo[a]anthracene	12.69	228	516015	53.96	ug/ml	99
19) Chrysene	12.74	228	546711	51.29	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	596786	47.71	ug/ml	97
22) Benzo[k]fluoranthene	14.45	252	502971	41.36	ug/ml	98
23) Benzo[a]pyrene	15.09	252	419956	42.93	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.02	276	486233	40.31	ug/ml#	97
25) Dibenz[ah]anthracene	18.03	278	330119	35.32	ug/ml	99
26) Benzo[ghi]perylene	18.93	276	438859	42.77	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13090.D PAHLOW.M Wed May 30 11:45:28 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052901\7M13090.D
Acq On : 29 May 2001 16:35
Sample : WG98117-03 LCS 5/24/01 V164P15
Misc : SOLID SOIL,1
MS Integration Params: RTEINT.P
Quant Time: May 30 10:53 2001

Vial: 4
Operator: rdc
Inst : HPMS7
Multiplr: 50.00
Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052901\3M22976.D Vial: 9
Acq On : 29 May 2001 13:46 Operator: CLK
Sample : WG98045-04 L0105526-02 SOIL MS Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.87	152	185679	40.00	ug/L		0.00
19) Naphthalene-d8	11.25	136	689690	40.00	ug/L		0.00
34) Acenaphthene-d10	13.08	164	351171	40.00	ug/L		-0.01
56) Phenanthrene-d10	14.63	188	474418	40.00	ug/L		0.00
67) Chrysene-d12	17.57	240	413706	40.00	ug/L		-0.01
76) Perylene-d12	20.33	264	536985	40.00	ug/L		-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	8.34	112	521261	58.62	ug/L		-0.01
Spiked Amount 100.000	Range 25 - 121		Recovery = 58.62%				
6) Phenol-d5	9.42	99	710380	66.74	ug/L		-0.01
Spiked Amount 100.000	Range 24 - 113		Recovery = 66.74%				
20) Nitrobenzene-d5	10.48	82	277113	34.72	ug/L		-0.01
Spiked Amount 50.000	Range 23 - 120		Recovery = 69.44%				
38) 2-Fluorobiphenyl	12.33	172	379199	33.41	ug/L		0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 66.82%				
55) 2,4,6-Tribromophenol	13.91	330	123523	96.49	ug/L		0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 96.49%				
70) p-Terphenyl-d14	16.20	244	466510	47.23	ug/L		-0.01
Spiked Amount 50.000	Range 18 - 137		Recovery = 94.46%				
Target Compounds							Qvalue
2) Pyridine	5.85	79	267991	961.71	ug/L		99
3) n-Nitrosodimethylamine	5.82	74	183056	1106.28	ug/L	#	92
5) Aniline	9.51	66	110700	998.61	ug/L		97
7) Phenol	9.44	94	380491	1172.49	ug/L		94
8) bis(2-Chloroethyl)ether	9.55	63	158458	1152.87	ug/L		92
9) 2-Chlorophenol	9.64	128	240231	1032.37	ug/L		96
10) 1,3-Dichlorobenzene	9.81	146	228260	990.56	ug/L		97
11) 1,4-Dichlorobenzene	9.88	146	236470	997.48	ug/L		96
12) Benzyl Alcohol	10.00	108	186400	1157.84	ug/L		93
13) 1,2-Dichlorobenzene	10.07	146	218552	991.30	ug/L		97
14) 2-Methylphenol	10.10	107	226670	1146.36	ug/L		97
15) bis(2-Chloroisopropyl)ethe	10.12	45	341911	1331.16	ug/L		95
16) 4-Methylphenol	10.25	107	350149	1193.29	ug/L		98
17) n-Nitrosodipropylamine	10.27	70	181861	1350.21	ug/L		95
18) Hexachloroethane	10.43	117	121814	959.36	ug/L		99
21) Nitrobenzene	10.50	77	261373	1143.57	ug/L		94
22) Isophorone	10.73	82	587436	1315.94	ug/L		97
23) 2-Nitrophenol	10.83	139	132970	1071.77	ug/L	#	84
24) 2,4-Dimethylphenol	10.81	122	243489	1164.25	ug/L		91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22976.D Vial: 9
Acq On : 29 May 2001 13:46 Operator: CLK
Sample : WG98045-04 L0105526-02 SOIL MS Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.92	93	369097	1213.44	ug/L	#	96
26)	Benzoic Acid	10.87	122	141830	1066.41	ug/L		95
27)	2,4-Dichlorophenol	11.08	162	181512	1087.89	ug/L		96
28)	1,2,4-Trichlorobenzene	11.17	180	165387	993.05	ug/L		98
29)	Naphthalene	11.27	128	708983	1064.43	ug/L		100
30)	4-Chloroaniline	11.31	127	289732	1142.05	ug/L		96
31)	Hexachlorobutadiene	11.36	225	86130	1176.42	ug/L		97
32)	4-Chloro-3-Methylphenol	11.75	107	281464	1348.06	ug/L		92
33)	2-Methylnaphthalene	11.98	142	392974	1055.88	ug/L		99
35)	Hexachlorocyclopentadiene	12.14	237	63628	1058.85	ug/L		100
36)	2,4,6-Trichlorophenol	12.26	196	105947	1206.85	ug/L		99
37)	2,4,5-Trichlorophenol	12.31	196	118839	1290.65	ug/L		98
39)	2-Chloronaphthalene	12.50	162	369714	1086.59	ug/L		96
40)	2-Nitroaniline	12.60	65	142565	1473.69	ug/L		92
41)	Dimethylphthalate	12.72	163	509836	1310.84	ug/L		99
42)	Acenaphthylene	12.95	152	647341	1230.23	ug/L		100
43)	2,6-Dinitrotoluene	12.83	165	125376	1326.25	ug/L		87
44)	3-Nitroaniline	13.03	138	158223	1455.52	ug/L		87
45)	Acenaphthene	13.12	154	411090	1235.36	ug/L		99
46)	2,4-Dinitrophenol	13.12	184	69737	1431.72	ug/L		75
47)	4-Nitrophenol	13.13	65	126706	1899.53	ug/L		87
48)	Dibenzofuran	13.29	168	539106	1184.81	ug/L		90
49)	2,4-Dinitrotoluene	13.25	165	190884	1555.79	ug/L	#	83
50)	Diethylphthalate	13.42	149	616367	1576.43	ug/L		98
51)	Fluorene	13.64	166	452734	1246.11	ug/L		98
52)	4-Chlorophenyl Phenyl Ethe	13.59	204	169894	1237.10	ug/L		92
53)	4-Nitroaniline	13.66	138	192417	1725.89	ug/L	#	86
54)	1,2-Diphenylhydrazine	13.75	77	638480	1384.94	ug/L		96
57)	4,6-Dinitro-2-Methylphenol	13.67	198	105083	1602.80	ug/L		88
58)	n-Nitrosodiphenylamine	13.71	169	357514	1401.53	ug/L		99
59)	4-Bromophenyl Phenyl Ether	14.11	248	89292	1164.54	ug/L	#	87
60)	Hexachlorobenzene	14.24	284	121735	1460.65	ug/L		97
61)	Pentachlorophenol	14.43	266	92582	1662.67	ug/L		99
62)	Phenanthrene	14.65	178	703841	1459.49	ug/L		99
63)	Anthracene	14.71	178	703565	1453.67	ug/L		99
64)	Carbazole	14.85	167	805972	1700.81	ug/L	#	96
65)	Di-n-Butyl Phthalate	15.07	149	1214699	1747.72	ug/L		99
66)	Fluoranthene	15.89	202	722327	1594.32	ug/L		100
68)	Benzidine	15.98	184	13862	-50.86	ug/L	#	97
69)	Pyrene	16.15	202	759588	1578.30	ug/L		100
71)	Butyl Benzyl Phthalate	16.65	149	588876	1770.37	ug/L		93

(#) = qualifier out of range (m) = manual integration
3M22976.D BNA.M Tue May 29 15:08:55 2001 HPMS3 Page 2

Data File : C:\HPCHEM\1\DATA\052901\3M22976.D Vial: 9
Acq On : 29 May 2001 13:46 Operator: CLK
Sample : WG98045-04 L0105526-02 SOIL MS Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

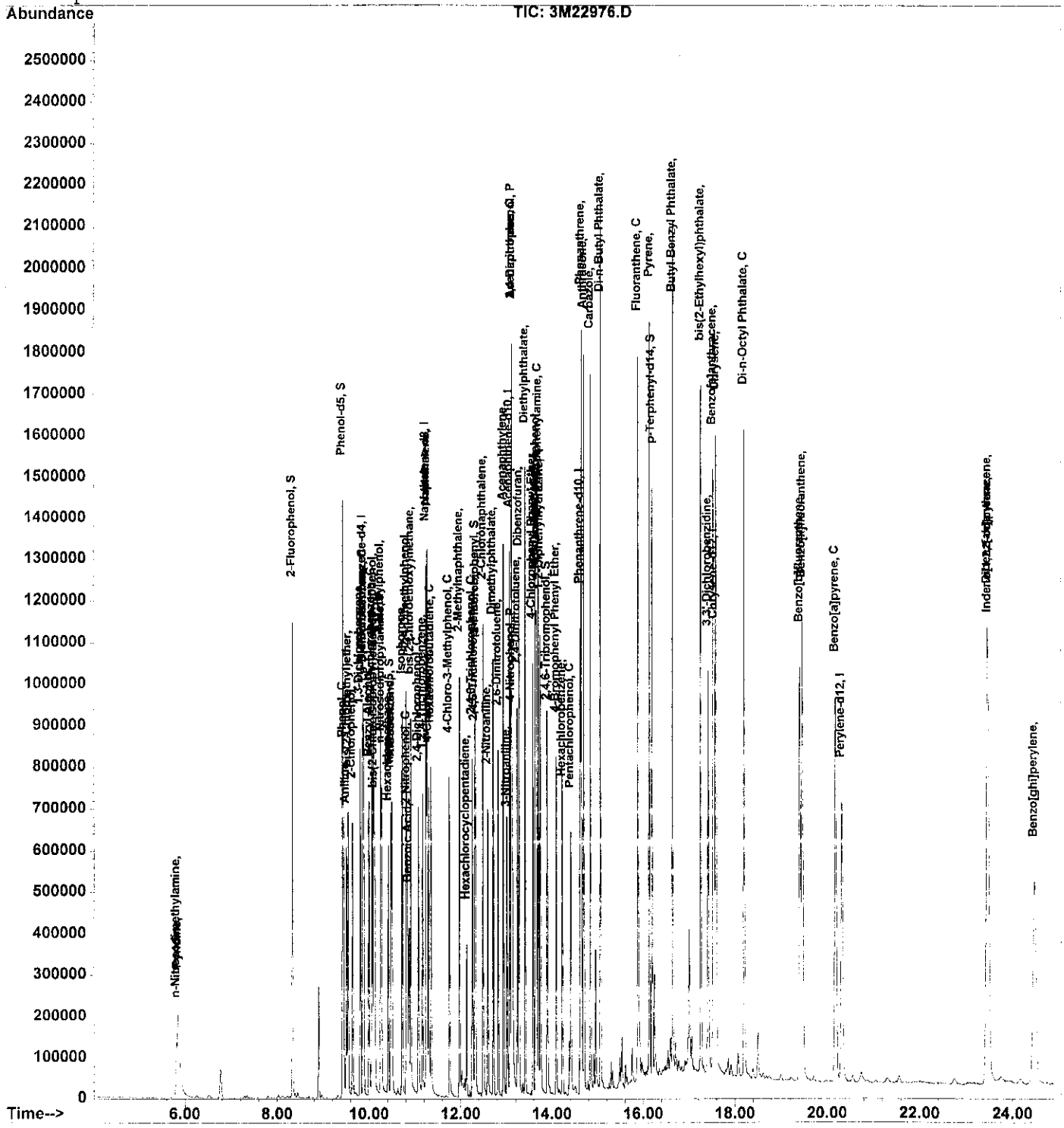
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
72)	Benzo[a]anthracene	17.53	228	693244	1649.69	ug/L		100
73)	3,3'-Dichlorobenzidine	17.43	252	259347	1915.85	ug/L		99
74)	Chrysene	17.60	228	705744	1723.25	ug/L		99
75)	bis(2-Ethylhexyl)phthalate	17.26	149	774474	1789.96	ug/L		99
77)	Di-n-Octyl Phthalate	18.21	149	1425933	1775.75	ug/L	#	96
78)	Benzo[b]fluoranthene	19.43	252	770885	1591.91	ug/L		99
79)	Benzo[k]fluoranthene	19.48	252	772970	1641.39	ug/L		99
80)	Benzo[a]pyrene	20.20	252	737163	1570.15	ug/L		96
81)	Indeno[1,2,3-cd]pyrene	23.49	276	869100	1740.62	ug/L		92
82)	Dibenz[ah]anthracene	23.48	278	710662	2317.80	ug/L	#	91
83)	Benzo[ghi]perylene	24.48	276	729575	1620.23	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22976.D Vial: 9
Acq On : 29 May 2001 13:46 Operator: CLK
Sample : WG98045-04 L0105526-02 SOIL MS Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:08 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\052901\3M22977.D Vial: 10
Acq On : 29 May 2001 14:21 Operator: CLK
Sample : WG98045-05 L0105526-02 SOIL MSD Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:09 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.86	152	182492	40.00	ug/L		0.00
19) Naphthalene-d8	11.24	136	688167	40.00	ug/L		0.00
34) Acenaphthene-d10	13.09	164	349326	40.00	ug/L		0.00
56) Phenanthrene-d10	14.63	188	475637	40.00	ug/L		0.00
67) Chrysene-d12	17.56	240	416095	40.00	ug/L		-0.02
76) Perylene-d12	20.34	264	532354	40.00	ug/L		-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	8.33	112	438857	50.22	ug/L		-0.02
Spiked Amount 100.000	Range 25 - 121		Recovery = 50.22%				
6) Phenol-d5	9.43	99	593324	56.72	ug/L		0.00
Spiked Amount 100.000	Range 24 - 113		Recovery = 56.72%				
20) Nitrobenzene-d5	10.49	82	228633	28.71	ug/L		0.00
Spiked Amount 50.000	Range 23 - 120		Recovery = 57.42%				
38) 2-Fluorobiphenyl	12.33	172	305817	27.09	ug/L		0.00
Spiked Amount 50.000	Range 30 - 115		Recovery = 54.18%				
55) 2,4,6-Tribromophenol	13.90	330	92670	72.77	ug/L		0.00
Spiked Amount 100.000	Range 19 - 122		Recovery = 72.77%				
70) p-Terphenyl-d14	16.20	244	405041	40.77	ug/L		0.00
Spiked Amount 50.000	Range 18 - 137		Recovery = 81.54%				
Target Compounds							Qvalue
2) Pyridine	5.86	79	227171	829.46	ug/L		98
3) n-Nitrosodimethylamine	5.82	74	153248	942.31	ug/L	#	92
5) Aniline	9.51	66	94125	863.92	ug/L		99
7) Phenol	9.44	94	318176	997.59	ug/L		95
8) bis(2-Chloroethyl)ether	9.55	63	130449	965.66	ug/L		95
9) 2-Chlorophenol	9.65	128	199766	873.47	ug/L		95
10) 1,3-Dichlorobenzene	9.81	146	186532	823.62	ug/L		97
11) 1,4-Dichlorobenzene	9.88	146	195232	837.91	ug/L		97
12) Benzyl Alcohol	10.00	108	149904	947.40	ug/L		95
13) 1,2-Dichlorobenzene	10.07	146	185873	857.80	ug/L		97
14) 2-Methylphenol	10.10	107	180922	930.98	ug/L		97
15) bis(2-Chloroisopropyl)ethe	10.12	45	275251	1090.35	ug/L		95
16) 4-Methylphenol	10.25	107	280193	971.56	ug/L		98
17) n-Nitrosodipropylamine	10.27	70	142180	1074.04	ug/L		94
18) Hexachloroethane	10.42	117	99482	797.16	ug/L		100
21) Nitrobenzene	10.51	77	215315	944.14	ug/L		94
22) Isophorone	10.72	82	468546	1051.93	ug/L		97
23) 2-Nitrophenol	10.84	139	108035	872.72	ug/L	#	86
24) 2,4-Dimethylphenol	10.82	122	195544	937.07	ug/L		91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22977.D Vial: 10
Acq On : 29 May 2001 14:21 Operator: CLK
Sample : WG98045-05 L0105526-02 SOIL MSD Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:09 2001 Quant Results File: BNA.RES

Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
25)	bis(2-Chloroethoxy)methane	10.91	93	295646	974.12	ug/L	#	96
26)	Benzoic Acid	10.87	122	115605	871.15	ug/L		94
27)	2,4-Dichlorophenol	11.08	162	143034	859.17	ug/L		96
28)	1,2,4-Trichlorobenzene	11.17	180	133600	803.96	ug/L		98
29)	Naphthalene	11.27	128	569868	857.46	ug/L	#	83
30)	4-Chloroaniline	11.30	127	307790	1215.92	ug/L	#	90
31)	Hexachlorobutadiene	11.37	225	68738	940.95	ug/L		98
32)	4-Chloro-3-Methylphenol	11.76	107	217478	1043.91	ug/L		93
33)	2-Methylnaphthalene	11.98	142	323748	871.80	ug/L		99
35)	Hexachlorocyclopentadiene	12.13	237	49780	861.47	ug/L		98
36)	2,4,6-Trichlorophenol	12.27	196	82304	942.49	ug/L		98
37)	2,4,5-Trichlorophenol	12.31	196	85536	933.87	ug/L		98
39)	2-Chloronaphthalene	12.50	162	293289	866.53	ug/L		95
40)	2-Nitroaniline	12.60	65	108816	1130.77	ug/L		91
41)	Dimethylphthalate	12.72	163	377813	976.52	ug/L		100
42)	Acenaphthylene	12.94	152	514045	982.07	ug/L		99
43)	2,6-Dinitrotoluene	12.83	165	92875	987.64	ug/L	#	86
44)	3-Nitroaniline	13.02	138	122224	1130.29	ug/L		88
45)	Acenaphthene	13.12	154	323546	977.42	ug/L		100
46)	2,4-Dinitrophenol	13.13	184	53298	1100.00	ug/L		78
47)	4-Nitrophenol	13.14	65	103034	1552.81	ug/L		88
48)	Dibenzofuran	13.28	168	421325	930.85	ug/L		89
49)	2,4-Dinitrotoluene	13.25	165	150236	1230.96	ug/L	#	83
50)	Diethylphthalate	13.43	149	462770	1189.84	ug/L		98
51)	Fluorene	13.64	166	338745	937.29	ug/L		97
52)	4-Chlorophenyl Phenyl Ethe	13.59	204	126984	929.53	ug/L		91
53)	4-Nitroaniline	13.67	138	161330	1454.69	ug/L	#	85
54)	1,2-Diphenylhydrazine	13.76	77	464509	1012.90	ug/L		96
57)	4,6-Dinitro-2-Methylphenol	13.68	198	88085	1340.09	ug/L		89
58)	n-Nitrosodiphenylamine	13.72	169	270538	1057.85	ug/L		100
59)	4-Bromophenyl Phenyl Ether	14.10	248	66815	869.17	ug/L	#	88
60)	Hexachlorobenzene	14.24	284	91980	1100.81	ug/L		96
61)	Pentachlorophenol	14.42	266	76951	1390.40	ug/L		99
62)	Phenanthrene	14.66	178	542323	1121.69	ug/L		100
63)	Anthracene	14.71	178	564037	1162.40	ug/L		100
64)	Carbazole	14.86	167	676165	1423.23	ug/L	#	95
65)	Di-n-Butyl Phthalate	15.07	149	1022927	1468.03	ug/L		99
66)	Fluoranthene	15.89	202	621832	1368.99	ug/L		100
68)	Benzidine	15.98	184	26815	46.65	ug/L	#	94
69)	Pyrene	16.14	202	649068	1340.91	ug/L		99
71)	Butyl Benzyl Phthalate	16.65	149	505311	1510.43	ug/L		95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22977.D Vial: 10
Acq On : 29 May 2001 14:21 Operator: CLK
Sample : WG98045-05 L0105526-02 SOIL MSD Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:09 2001 Quant Results File: BNA.RES

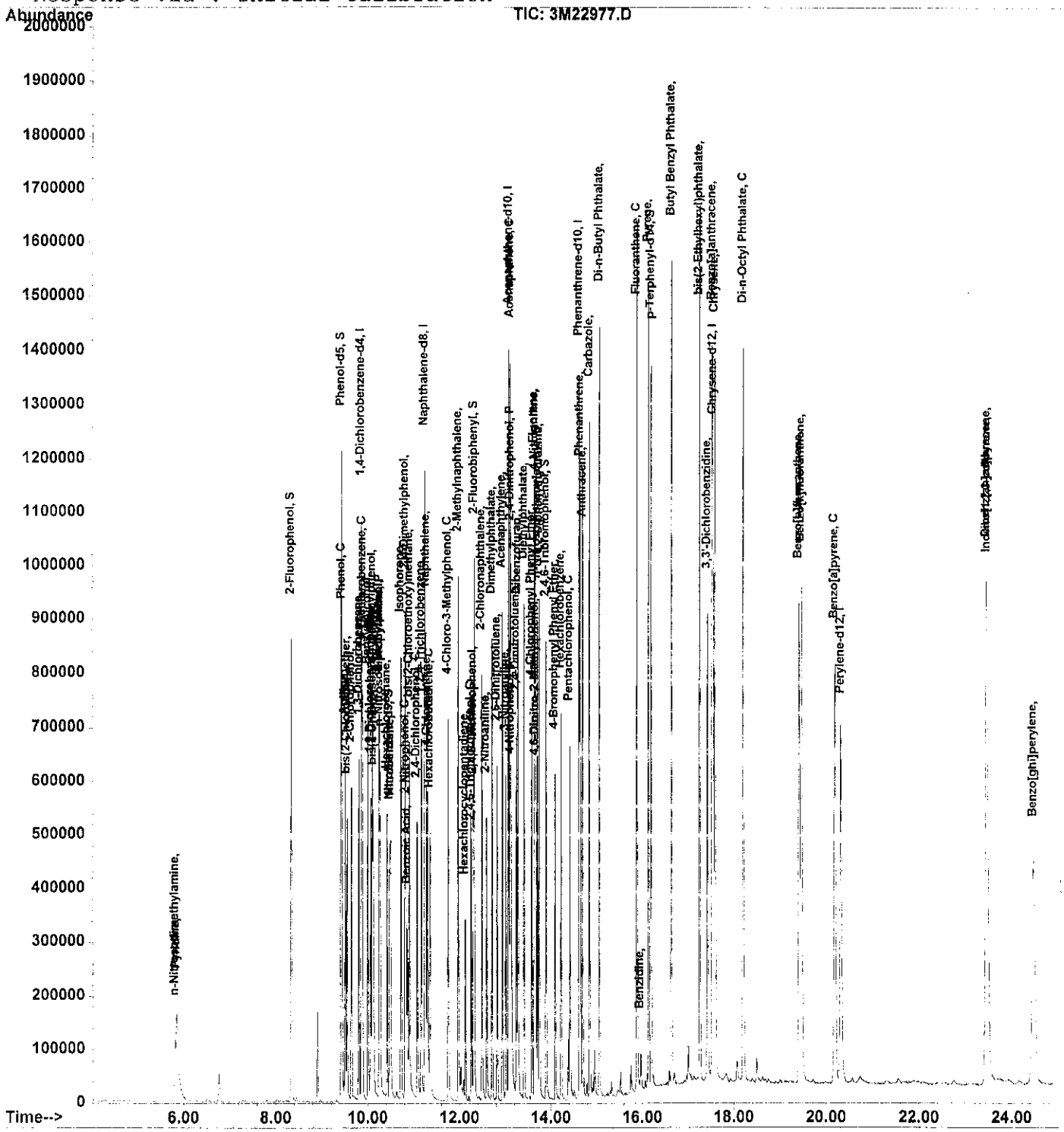
Quant Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration
DataAcq Meth : BNA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
72)	Benzo[a]anthracene	17.54	228	605403	1432.39	ug/L		100
73)	3,3'-Dichlorobenzidine	17.44	252	242067	1766.33	ug/L		99
74)	Chrysene	17.60	228	602265	1462.14	ug/L		99
75)	bis(2-Ethylhexyl)phthalate	17.26	149	645692	1483.75	ug/L		99
77)	Di-n-Octyl Phthalate	18.21	149	1194753	1500.80	ug/L	#	96
78)	Benzo[b]fluoranthene	19.43	252	699683	1457.44	ug/L		100
79)	Benzo[k]fluoranthene	19.48	252	629336	1348.01	ug/L		99
80)	Benzo[a]pyrene	20.20	252	631658	1357.13	ug/L		96
81)	Indeno[1,2,3-cd]pyrene	23.49	276	747305	1509.71	ug/L		92
82)	Dibenz[ah]anthracene	23.48	278	612552	2015.20	ug/L	#	91
83)	Benzo[ghi]perylene	24.49	276	628405	1407.69	ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052901\3M22977.D Vial: 10
Acq On : 29 May 2001 14:21 Operator: CLK
Sample : WG98045-05 L0105526-02 SOIL MSD Inst : HPMS3
Misc : SOIL,1 Multiplr: 33.33
MS Integration Params: rteint.p
Quant Time: May 29 15:09 2001 Quant Results File: BNA.RES

Method : C:\HPCHEM\1\METHODS\BNA.M (RTE Integrator)
Title : Method 8270/Initial calibration 05/22/01
Last Update : Tue May 29 10:09:58 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052901\7M13092.D Vial: 6
Acq On : 29 May 2001 17:28 Operator: rdc
Sample : WG98117-04 L0105526-01 MS SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:54:37 2001 Quant Results File: PAHLOW.RES

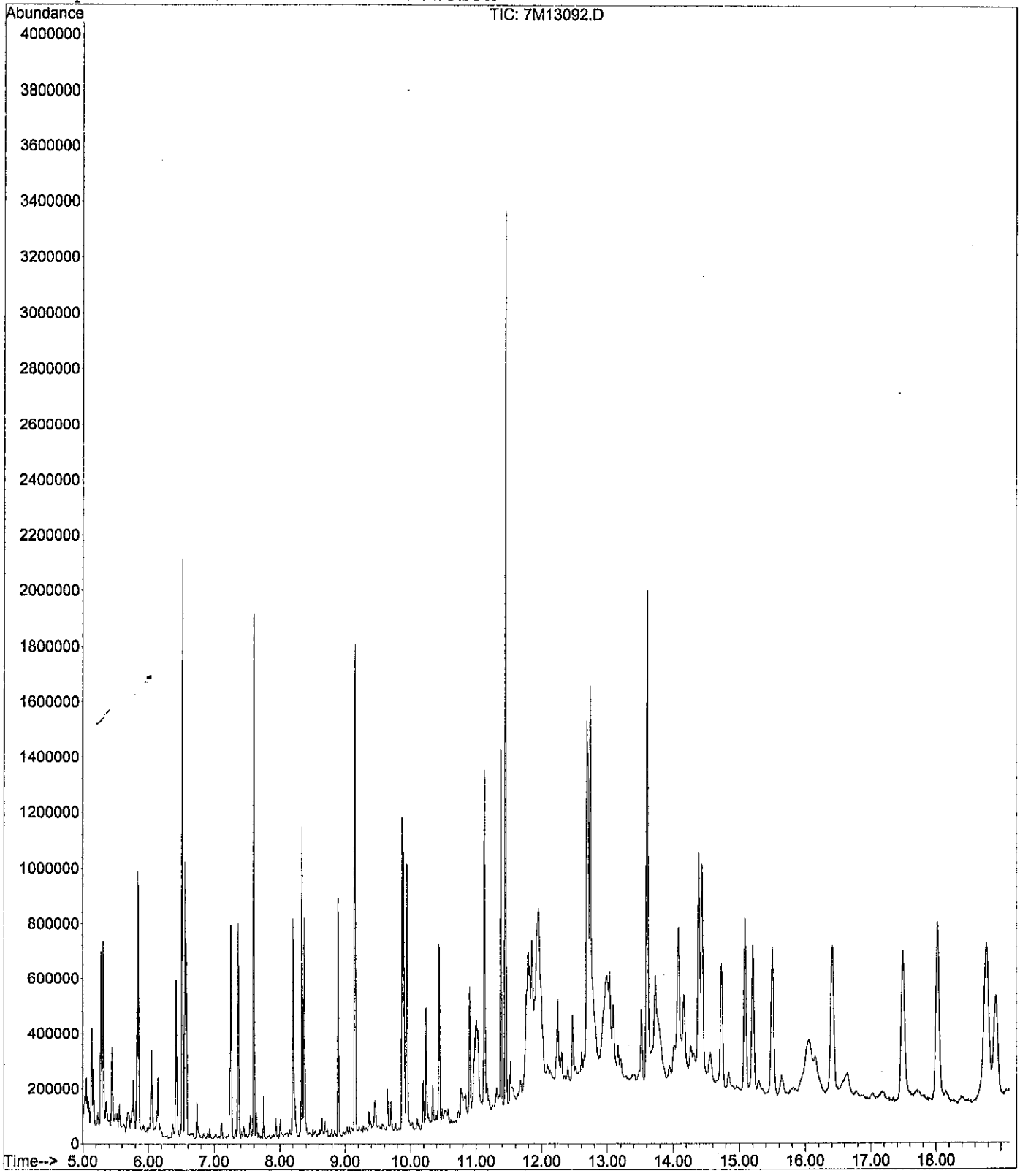
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.56	136	446600	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	249405	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	409492	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	411118	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	429147	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.84	82	253702	1.79	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 71.60%			
7) 2-Fluorobiphenyl	7.60	172	575154	1.57	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 62.80%			
17) p-Terphenyl-d14	11.45	244	965233	2.16	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 86.40%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	302086	30.21	ug/ml	100
4) 2-Methylnaphthalene	7.26	142	207282	32.70	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	189131	30.84	ug/ml	94
8) Acenaphthylene	8.20	152	322613	35.08	ug/ml	97
9) Acenaphthene	8.37	154	194702	30.70	ug/ml	98
10) Fluorene	8.90	166	234151	34.06	ug/ml	99
12) Phenanthrene	9.90	178	374412	35.56	ug/ml	100
13) Anthracene	9.95	178	381756	42.43	ug/ml	99
14) Fluoranthene	11.13	202	543470	49.74	ug/ml	99
16) Pyrene	11.38	202	571736	45.28	ug/ml	100
18) Benzo[a]anthracene	12.69	228	586315	56.60	ug/ml	100
19) Chrysene	12.74	228	570848	49.44	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	592213	41.39	ug/ml	100
22) Benzo[k]fluoranthene	14.45	252	571810	41.11	ug/ml	98
23) Benzo[a]pyrene	15.09	252	544048	48.62	ug/ml	99
24) Indeno[1,2,3-cd]pyrene	18.03	276	542512	39.47	ug/ml#	99
25) Dibenz[ah]anthracene	18.03	278	387819	36.09	ug/ml	100
26) Benzo[ghi]perylene	18.93	276	492302	41.94	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13092.D PAHLOW.M Wed May 30 10:54:58 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052901\7M13092.D Vial: 6
Acq On : 29 May 2001 17:28 Operator: rdc
Sample : WG98117-04 L0105526-01 MS SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:54 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052901\7M13093.D Vial: 7
Acq On : 29 May 2001 17:54 Operator: rdc
Sample : WG98117-05 L0105526-01 MSD SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:55:07 2001 Quant Results File: PAHLOW.RES

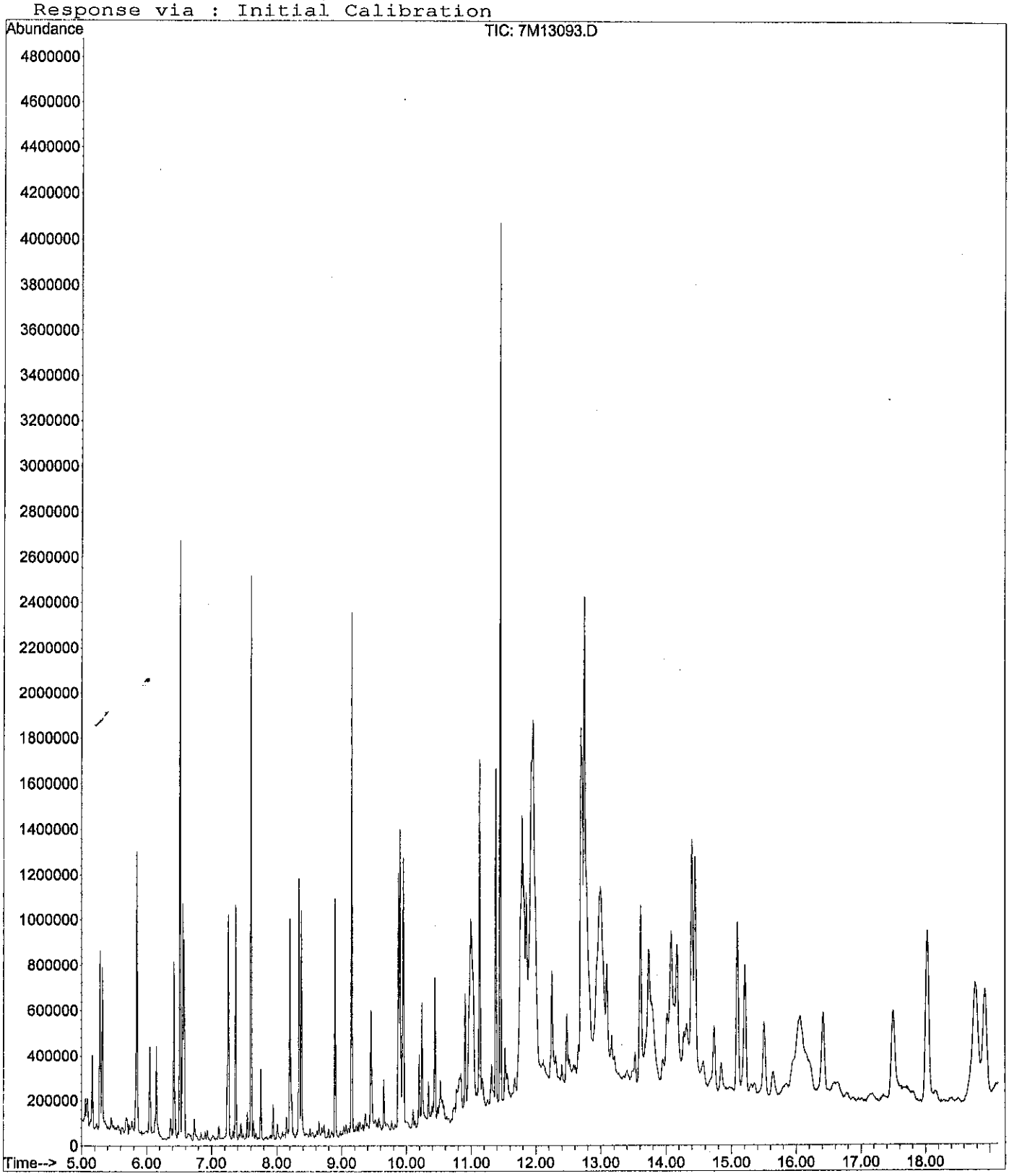
Quant Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration
DataAcq Meth : PAHL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-d8	6.55	136	463576	1.00	ug/ml	0.00
6) Acenaphthene-d10	8.34	164	253651	1.00	ug/ml	0.00
11) Phenanthrene-d10	9.87	188	422369	1.00	ug/ml	0.00
15) Chrysene-d12	12.71	240	429575	1.00	ug/ml	0.00
20) Perylene-d12	15.21	264	450570	1.00	ug/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	5.85	82	325149	2.20	ug/ml	0.00
Spiked Amount 2.500	Range 23 - 120		Recovery = 88.00%			
7) 2-Fluorobiphenyl	7.60	172	729873	1.96	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 115		Recovery = 78.40%			
17) p-Terphenyl-d14	11.45	244	1175311	2.51	ug/ml	0.00
Spiked Amount 2.500	Range 18 - 137		Recovery = 100.40%			
Target Compounds						Qvalue
3) Naphthalene	6.58	128	388988	37.48	ug/ml	100
4) 2-Methylnaphthalene	7.25	142	266371	40.48	ug/ml	99
5) 1-Methylnaphthalene	7.37	142	242173	38.05	ug/ml	94
8) Acenaphthylene	8.20	152	412652	43.08	ug/ml	95
9) Acenaphthene	8.38	154	243482	37.75	ug/ml	98
10) Fluorene	8.89	166	297418	42.54	ug/ml	100
12) Phenanthrene	9.90	178	460860	42.44	ug/ml	99
13) Anthracene	9.95	178	487573	52.54	ug/ml	100
14) Fluoranthene	11.13	202	667837	59.25	ug/ml	99
16) Pyrene	11.38	202	702935	53.28	ug/ml	100
18) Benzo[a]anthracene	12.69	228	706427	65.27	ug/ml	100
19) Chrysene	12.75	228	685454	56.82	ug/ml	99
21) Benzo[b]fluoranthene	14.40	252	723696	48.17	ug/ml	99
22) Benzo[k]fluoranthene	14.45	252	676320	46.31	ug/ml	99
23) Benzo[a]pyrene	15.09	252	664081	56.52	ug/ml	97
24) Indeno[1,2,3-cd]pyrene	18.02	276	658723	44.63	ug/ml#	99
25) Dibenz[ah]anthracene	18.04	278	472400	40.81	ug/ml	99
26) Benzo[ghi]perylene	18.93	276	596164	48.37	ug/ml	99

(#) = qualifier out of range (m) = manual integration
7M13093.D PAHLOW.M Wed May 30 10:55:22 2001 Page 1

Data File : C:\MSDCHEM\1\DATA\052901\7M13093.D Vial: 7
Acq On : 29 May 2001 17:54 Operator: rdc
Sample : WG98117-05 L0105526-01 MSD SOIL Inst : HPMS7
Misc : SOLID SOIL,1 Multiplr: 50.00
MS Integration Params: RTEINT.P
Quant Time: May 30 10:55 2001 Quant Results File: PAHLOW.RES

Method : C:\MSDCHEM\1\METHODS\PAHLOW.M (RTE Integrator)
Title : PAHL/INITIAL CALIBRATION 05/21/01
Last Update : Tue May 29 14:55:33 2001
Response via : Initial Calibration



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 24 2001 Instrument ID HPMS7 Column ID RTX-5SIL MS SOP # MSS01 Rev. # 7 _____ 8270C
Analyst Initials MDC Data Subdirectory 052101 SOP # MSS02 Rev. # 1 _____ 625
ISTD # S54-16

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7M12995	5ppm DFTPP	1	S53-22		RR
96					↓
97					↓
98					✓
99	1 ppm PAH STD		S53-45-1		✓
7M13000	10		S53-44		✓
01	5		S53-45-2		✓
02	0.5		S53-46-1		✓
03	0.1		S53-45-3		✓
04	0.05		S53-46-2		✓
05	1	↓	S53-47		✓
06	L0105318-02 q/t. source 10X Water	10		7M12964	✓
07	-05	10		7M12967	✓
08	-06	10		7M12968	RR20
09	-10	10		7M12984	RE100
10	-11	10		↓ 7	✓
11	-12	10		↓ 8	✓
12	WG97637-02 BLK 5/18 V163P115 water	1			RE
13	↓ LCS ↓ ↓ ↓	1			RE
14	WG97639-02 BLK 5/18 V163P119 soil	1			RE
15	↓ -03 LCS ↓ ↓ ↓	1			RE
16	WG97548-01 L0105328-01 10X soil	10			✓
17	-04 -01MS ↓	10			✓
18	-05 -01MSD ↓ ↓	10			✓

TRQC 5/22/01

Status: Reviewed By: 5/23/01

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 21, 2001 Instrument ID HPMS7 Column ID RTx-5SIL MS Data Subdirectory 052101

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☑ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☑ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ✓ No ___

Additional Maintenance
Problem: pentachlorophenol sensitivity low

Action Taken: new column installed & recalibration done

Column Serial # 206532

Comments

L0105318-06 RR@20X - #3
↓ -10 RR@100X - #3

V163P119 BLANK > sent for RE-EXT (L0105388 soils)
↓ LCS due to contaminated blank (12 analytes [PAH] present)

V163P115 BLANK - low for surr. #3
↓ LCS - low for benzo(b)fluoranthene & benzo(g,h,i)perylene
↳ re-ext. for { L0105378-01,02,05 08, & 09 / L0105388-01 / L0105402-01,02,03 } requested

L0105328-01 -01MS -01MSD } run @ 10X due to appearance (also conc. to 2 mL final vol.)

Reviewed By: [signature]

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/22/01 Instrument ID HP453 Column ID RTX-5MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials CLK Data Subdirectory 052201 SOP # MSS02 Rev. # 1 _____ 625
ISTD # B0080319

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
3m22908	W697964-01 50 PPM DFTPP	1	553-17		✓
09	W697964-02 50 PPM BNA STD		605 54-9-4		✓
10	W697964-03 3 PPM BNA STD		-1		✓
11	-04 20		-3		✓
12	-05 80		-5		✓
13	-06 100		-6		✓
14	-07 120		-7		✓
15	-08 50 PPM Alt Surr BNASTD		553-21		✓
16	W697284-02 BLK 5/14 W163P33 RR			5m16988	✓
17	-01 L0105273-04 SOIL				✓
18	-04 -05 MS				✓
19	-05 -06 MSD				✓
20	L0105273-18 SOIL				✓
21	-15				✓
22	-17				✓
23	-16				✓
24	-12				✓
25	-03	10			✓
26	-14	10			✓
27	-13	1			✓
28	—	—			*

CLK 5/23/01

Status: Reviewed By: EC 5/23/01

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 05/22/01 **Instrument ID** HP453 **Column ID** RTX-5MS **Data Subdirectory** 052201

Daily Check
- ☐ Gases >500 psi
- ☒ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

L0105273-03 SOIL → Visous
L0105273-14 SOIL 10X → Fv = 11 mL
SS Diluted Out

* Did Not Inject, Run Stopped Due to air leak
Column Nut Needs Tightened

Alt Source Std → #82 ≥25%

Reviewed By: EC 5/23/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HPMS5 Column ID RTX-5MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials CLK Data Subdirectory 052401 SOP # MSS02 Rev. # 1 _____ 625
ISTD # B0080319

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
5M170446	10 PPM BNA STD	1	SOS 54-9-2 CAB 5-25-01		*
47	WG98213-01 50 PPM DFTPP		S53-17		✓
48	-02 50 PPM BNA STD		SOS 54-9-4		✓
49	-03 3 PPM		-1		✓
50	-04 10 PPM		-2		✓
51	-05 20 PPM		-3		✓
52	-06 80 PPM		-5		✓
53	-07 100 PPM		-6		✓
54	-08 120 PPM		-7		✓
55	-09 50 PPM ALT SOURCE BNA STD		S53-21		✓
56	WG98071-02 BLK 5/24 V1164P11				✓
57	-03 LCS 5/24 V1164P11				✓
58	L0105418-02 RE				✓
59	L0105423-01 RE				RR
60	L0105418-03				✓
61	L0105421-01				✓
62	L0105422-01				✓
63	L0105423-02				RR2
64	L0105423-03				✓
65	-04	1 2 CAB 5-25-01			✓
66	-01	2		5M170459	✓
67	L0105526-04	1			✓
68	L0105525-01				✓
69	L0105511-02				✓
70	WG98071-01 L0105514-02				✓
71	-04 -02 MS				✓
72	-05 -02 MSD				✓
	CAB 5-25-01				

Status: Reviewed By: [signature] 5/25/01

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID #HP5S Column ID RTX-5MS Data Subdirectory 052401

Daily Check
- ☐ Gases >500 psi
- ☒ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☒ Clip column (80 cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ✓ No ____

Additional Maintenance
Problem: Curve failed #46, 61

Action Taken: Clipped Column, Raised Multiplier

Comments

L0105423-01 RE, Needed 2X, #29 ss 1/ow

L0105422-01, ss 6/ow

L0105423-02 RE, Needs 2X #29

L0105423-01 RE 2X, Dilution Good

WG98071-04 L0105514-02 MS, ss 4/ow
L -05 L -02 MSD, ss 1,3,4/ow

* 10PPM was Ran to Check for 2,4-Dinitrophenol

Alt Source Std. → #74 ↑25%

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 24, 2001 Instrument ID HPMS7 Column ID RTX 5SIL-MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials RWC Data Subdirectory 052401 SOP # MSS02 Rev. # 1 _____ 625
ISTD # 554-6

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7M13070	5 ppm DFTPP (553-22) WF99178-01	1	553-22		✓
71	1 ppm PAH Std. WF99178-02	1	553-45-1		✓
72	WF99083-01 BLK 5/23/01 V164P05	1			✓
73	↓ -02 LCS ↓ ↓	1			✓
74	L0105388-01 Re-ext. inhold water	1			✓
75	L0105526-04 water	1			✓
76	L0105378-08 RE/00H water	1			✓
77	↓ -085	1			✓
78	↓ -08 ↓ ↓	1			✓
79	↓ -09 ↓ ↓	1			✓
80	L0105402-01 RE/IN 10X	10			✓
81	↓ -02 ↓ 10X	10			✓
82	↓ -03 ↓	1			✓
83	Not used	—			✓
84	L0105388-05 RR soil	1			✓
85	L0105413-01 10X soil	10			✓
86	L0105388-02 100X soil	100			✓

Prep 5/29/01

Status:

Reviewed By: _____

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 24, 200 **/Instrument ID** HPMS7 **Column ID** RTx 5 SIL-MS **Data Subdirectory** 052401

Daily Check
- ☐ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (45 cm)
- ☑ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

WG98083-01 BL/C — SURR #2 low — SURR 5/29/01

↓ -02 LCS

L0105388-01 Re-ext. in hold

L0105526-04

L0105378-05 RE (o.o.H) — SURR #3 low

↓ -08

↓ -09

L0105402-01 RE (i.H.) — surr. #3 low

↓ -02

L0105388-05 IS #5 high - confirmed

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/29/01 Instrument ID HPMS3 Column ID RTX-5MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials CLK Data Subdirectory 052901 SOP # MSS02 Rev. # 1 _____ 625
ISTD # BOCBO319

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
3m22906	WG98372-01 50 PPM DFTPP	1	553-17		✓
69	-02 50 PPM BNA STD		505 54-9-4		✓
70	-03 48-500 PPM Appendix IX STD		552-5-3		✓
71	WG98045-02 BLK 5/23 V1104P1				✓
72	-03 LCS 5/23 V1104P1				✓
73	L01055260-03 SOIL				✓
74	L01055260-01 SOIL				✓
75	WG98045-01 L01055260-02 SOIL				✓
76	-04 MS				✓
77	-05 MSD				✓
78	WG97981-02 BLK 5/23 V1103P191				✓
79	-03 LCS				✓
80	WG97934-02 TBLK 5/23 V1103P191				RR-1
81	L01055443-02 TCLP				RR-1
82	-03 TCLP				✓
83	-04 TCLP				-*
84	-05 TCLP				

CAB 5-30-01

Reviewed By: _____ 5/30/01

Status:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page

IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required

SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time 5/29/01 Instrument ID HPMS3 Column ID RTX-5MS Data Subdirectory 052901

Daily Check

- ☐ Gases >500 psi
- ☒ Change liner
- ☒ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

W697981-02 BLK 5/23 V1637191, SS 4 low

LD105443-02 TCLP, SS 1,2 high, SS 6 low, IS 1,6 low, RR at 10X
↓ -03 ↓ ↓ ↓ < 10% IS 1 low, RR at 10X

* Run Stopped 11 minutes into Run, Instrument Error, Excessive Source Pressure

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 29, 2001 Instrument ID HPMS7 Column ID RTx 5 SIL-MS SOP # MSS01 Rev. # 7 ✓ 8270C
Analyst Initials RDC Data Subdirectory 052901 SOP # MSS02 Rev. # 1 ____ 625
ISTD # S54-6

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7M13087	5 ppm DFTPP WG98443-01	1	S53-22		✓
88	1 ppm PAH Stds ↓ -02 RDC 5/30/01		S53-45-1		✓
89	WG98117-02 BLANK 5/28 V164P15				—
90	-03 LCS ↓ ↓				✓
91	-01 L0105526-01 SOIL				—
92	-04 ↓ -01MS ↓				—
93	-05 ↓ -01MSD ↓				✓
94	L0105526-02 ↓				✓
95	↓ -03 ↓				✓
96	WG98306-02 BLANK 5/29 V164P51				✓
97	-03 LCS ↓ ↓	↓			✓
98	-01 L0105627-01 10X SOIL	10			✓
99	-04 ↓ -01MS ↓ ↓	10			✓
7M13100	-05 ↓ -01MSD ↓ ↓	10			✓

RDC 5/30/01

Status: Reviewed By: mdc 5/30/01

✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC/MS Laboratory Maintenance / Runlog

Analysis Date/Time May 29,2001 Instrument ID HPMST Column ID RTx 5 SIL-MS Data Subdirectory 052901

Daily Check

- ☐ Gases >500 psi
- ☒ Change liner
- ☒ Change septum

Preventative Maintenance

- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: _____ 5/29/01

Sample Extract Log Sheet

Volume 164
Page 1

Parameter: BNA-SV1 SOP #: EXB02 Revision #: 10
Extraction Analyst(s): JAG TV/KD Analyst(s): JAG
Date/Time Extracted: 5/23/01 19:45 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: JAG Witness: DCV
Surrogate #: ES50037-10#9 Earliest Hold Date: 6/5
Spike #: A = ES5003 7-11 #2 Spike #: B = —

Extraction Work Group WG 98045
Analytical Work Group WG 98367

Extract Relinquished By: [signature]
Extract Received By & Date: [signature] 5/24/01

	Sample ID	Test Code	pH / <2	pH / N	pH / >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions / A	Emulsions / BN	Emulsions / N	Comments
1	Blank					30.02g	500rl		1ml	T				WG 98045-02
2	LCS					30.00g		500rl		C				WG 98045-0
3	05-526-01	827 SSE-SV				30.02g								W6 98045-0
4	02					30.01g								W6 98045-04
5	02ms					30.06g		500rl						W6 98045-0
6	02msD					30.02g		1						
7	03					1				C				
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAG

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: FR1653

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/24/01

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Extraction Notes For Volume # 164 Page # 1

General Comments: nothing to report

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Sample Extract Log Sheet

Volume 164
Page 5

Parameter: LPAH-1MO SOP #: EXA01 Revision #: 9
Extraction Analyst(s): DCJ TAG
Date/Time Extracted: 5/23/01 1930
Spike/Surrogate Analyst: DCJ
Surrogate #: ES50036-49
Spike #: A = ES50036-42 B = —
TV/KD Analyst(s): DCJ TAG
Date TV/KD: 5/23/01
Witness: TAG
Earliest Hold Date: 5/23/01

Extraction Work Group WG 98038
Analytical Work Group WG 98224
Extract Relinquished By: DCJ
Extract Received By & Date: mds 5/24/01

	Sample ID	Test Code	pH ✓ <2	pH ✓ N	pH ✓ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions ✓ A	Emulsions ✓ BN	Emulsions ✓ N	Comments
1	Blank			✓		1L	250µl		1ml	T				WG 98038-01
2	LCS			✓		1		1ml						WG 98038-02
3	05-326-01	8270 PAH_L		✓		960ml								*
4	05-327-05	8270PAH_APSS		✓		880ml								
5	1 -25			✓		910ml				C				
6	-28			✓		900ml				T				
7	-29			✓		940ml								**
8	05-328-01			✓		950ml				C				
9	05-460-01			✓		910ml								
10	-02			✓		930ml								
11	-03			✓		900ml								
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 TAG

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Florisil Lot #: ER1707
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1733

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: DCJ Date: 5/24/01

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Sample Extract Log Sheet

Extraction Notes For Volume # 164 Page # 5

General Comments: * Reext out of hold ** Reext in hold

Extraction Anomalies: nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Sample Extract Log Sheet

~~Volume~~ 164
Page 11

Parameter: BNA-H_2O SOP #: CA808 Revision #: 8
Extraction Analyst(s): JAW, TM TV/KD Analyst(s): TM
Date/Time Extracted: 05/24/01 @ 0900 Date TV/KD: 05/24/01
Spike/Surrogate Analyst: JAW Witness: TM
Surrogate #: CSS0037-10 #9 & #10 Earliest Hold Date: 05/29/01
Spike #: A = CSS0037-11 #2 Spike #: B = ———

Extraction Work Group WG 98071
Analytical Work Group WG 98142

Extract Relinquished By: PP
Extract Received By & Date: CLK 5/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓		✓	1L	500µL #9		1mL	T				WG 98071 -02
2	LCS		✓		✓			500µL		T				WG " -03
3	05-511-02	625-HUNTSA,B	✓		✓					C				
4	05-514-02	625-CY-C	✓		✓					C				WG 98071 -01
5	" -02MS	"	✓		✓	490mL		500µL		C				" -04
6	" -02MSD	"	✓		✓	"		375µL #10		C				" -05
7	05-525-01	8270	✓		✓	920mL				C				
8	05-526-04	827-SE-SV	✓		✓	955mL				T				
9	05-418-02	827-PAH	✓		✓	1L				C				*
10	" -03	"	✓		✓	"				C				"
11	05-420-02	"	✓		✓	"				C				
12	05-421-01	"	✓		✓	"				C				
13	05-422-01	"	✓		✓	"				C				
14	05-423-01	"	✓		✓	965mL				C				
15	" -02	"	✓		✓	1L				C				
16	" -03	"	✓		✓	"				C				
17	" -04	"	✓		✓	"				C				"
18	05-545-01	827-ASVAM	✓		✓	465mL				C				
19	" -03	"	✓		✓	1L				C				
20	" -05	"	✓		✓	"				C				
21	" -07	"	✓		✓	"	#10			T				
22	" -09	"	✓		✓	"	"			T				
23	" -11	"	✓		✓	970mL	"			C				
24							PP	05/24/01						

Methylene Chloride Lot #: 4/01/6
Hexane Lot #: ———
Ether Lot #: ———
Methanol Lot #: ———
Solvent: ——— Lot #: ———
Reagent: Fort. Fed Solution Lot #: ER1709
Reagent: 10N NaOH Lot #: ER 1734
Reagent: ——— Lot #: ———
Acid: 1:1 H_2SO_4 Lot #: ER1712
Florisil Lot #: ———
Silica Gel Lot #: ———
IR Analyst / Date / Time: ———
Dried Na_2SO_4 Lot #: ER 1653

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 5/24/01

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Extraction Notes For Volume # 164 Page # 011

General Comments: * Re-extract, out-of-hold.

Extraction Anomalies: ** Quantity of spike insufficient extraction continued using the full amount of spike available.

Concentration Anomalies: Nothing to report.

Clean-Up Anomalies: Not applicable

Supervisor Review: _____ Date: _____

Volume 164
Page 15

Parameter: LowIAH-S SOP #: EXA02 Revision #: 8
Extraction Analyst(s): REK TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/24/01 14:00 Date TV/KD: 5/24/01
Spike/Surrogate Analyst: REK Witness: TM
Surrogate #: ES50036-49 Earliest Hold Date: 6/5/01
Spike #: A = ES50037-16 Spike #: B = —

Extraction Work Group WG 98117
Analytical Work Group WG 98440

Extract Relinquished By: DP
Extract Received By & Date: mlc 5/25/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					20.03g	250µl		1ml	T				WG98117-02
2	LCS					.04		1ml		C				WG -03
3	05-526-01	827-PAHL				.00								WG -01
4	-01MS					.01		1ml						WG -04
5	-01MSD					.00		"						WG -05
6	-02					.03								
7	-03					.01								
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/30

5/24/01 JAQ

Methylene Chloride Lot #: 4/016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: DE Lot #: T49H16
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: —

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/25/01

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Extraction Notes For Volume # 164 Page # 15

General Comments: nothing to report

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

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Example 8270 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax)(Cis)] / [(Ais)(Cx)]

Where:	Example:
Ax = Area of the characteristic ion for the compound being measured	10000
Cis = Concentration of the specific internal standard (ng/ml).	100
Ais = Area of the characteristic ion for the specific internal standard.	5000
Cx = Concentration of the compound being measured (ng/ml).	100
RF	**2**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Vi)]

Where:	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL). (prep log)	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Vi = Initial volume of sample (mL). (prep log)	1000
	4

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report:

C = [(Ax)(Cis)(Vf)(D)] / [(Ais)(RF)(Wi)]

Where:	Example:
Ax = Area of the characteristic ion for for the compound being measured	10000
Cis = Concentration of the specific internal standard in ng/ml (ug/L).	4000
Vf = Final volume of sample extract (mL).	1
D = Dilution factor for sample as a multiplier (10X = 10).	1
Ais = Area of the characteristic ion for for the specific internal standard.	5000
RF = Response factor from ICAL calculated above.	2
Wi = Initial weight of sample (g).	30
C (ug/kg)	**133.3333**

2.2.2 Pesticide GC Data (8081)

REPORT NARRATIVE
GC PESTICIDES

KEMRON Report No.:L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8081

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: WG98098:The MS yielded a % recovery for methoychlor that was above the advisory limits. WG98096: The MS/MSD yielded % recoveries for gamma-chlordane, alpha-chlordane, 4,4-DDE, and 4,4-DDT that were below the advisory limits. All other acceptance criteria were met

SAMPLES

Surrogates: All acceptance criteria were met.
Endrin/ DDT Breakdown : All acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie R Lopez DATE: 6/7/04

Rev. 7/14/00

SV - GC

Date: 5/24/01
Analyst: ECL
Method: 8081
Instrument: HP 9
Work Group:

WG 97881
97874

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	✓
Initial Calibration	✓
Average RF	✓
Linear Reg or Higher Order Curve	~~✓~~ NA
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	NA
Special Standards	✓
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	NA
Reruns	
Check Sample Histories	✓
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	~~NA~~ ✓
Results Reporting / Data Qualifiers	✓
WorkGroups Traceability	✓
Client Data Package Assembly	✓
Check for Completeness	✓

Primary Reviewer Initials & Date Checked ECL 5/25/01

Secondary Reviewer Initials & Date Checked [signature] 5/24/01

- ✓ • Check for compliance with Method and project-specific requirements
- ✓ • Check the completeness of the reported information
- ✓ • Check the information for the report narrative
- ✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/25/01

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

603

Date: 5-25-01
Analyst: ECL
Method: 8081
Instrument: HP9
Work Group: 98098, 98096

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	NA
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	✓
Project / Client Specific Requirements	
Special Standards	
Blanks	
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	
Recoveries	
Surrogates	
MS / MSD / Duplicates	
Samples	
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked SMW 5-29-01

Secondary Reviewer Initials & Date Checked DKR 5/30/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked DKR 5/30/01

Comments: used first column

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

PESTICIDE-GC DATA (8081)

Login Number: L0105524

A. QC Summary

__✓__ Batch QC Summary Form

B. Sample Data

__✓__ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

__✓__ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

__✓__ Initial calibration summary form (Average Response Factor Calibration Data)

__✓__ Chromatograms and external standard reports for standards

__✓__ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

__✓__ Retention time window summary (if applicable)

D. Raw QC Data

__✓__ Endrin/DDT Breakdown chromatogram and external standard report

__✓__ Method blank chromatogram and external standard report for each matrix type

__✓__ Laboratory Control Sample, chromatogram and external standard report for each matrix type

__✓__ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

__✓__ Instrument runlogs

__✓__ Extraction bench sheets

Checked By: JLT Date: 6/7/01

2.2.2.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8080 SOILS , REAR

INSTRUMENT : HP9
EXT'N DATE : 5/23/01 ANALYST : ECL BLK FLNM : 9G16023 SAMPLE ID : WG98040-01 L0105526-01
EXT'N BENCH SHT : V163P197 RUN DATE : 5/25/01 LCS FLNM : 9G16024 SMPL FLNM : 9G16025
EXT'N WORK GRP : WG98040 ANAL WORK GRP : WG98098 MS FLNM : 9G16026
MSD FLNM : 9G16027

		CONCENTRATION , ug/kg					% RECOVERY							PERCENT			
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank LCS Sample MS MSD
ALPHA-BHC	1.7	ND	17.3	ND	17.2	16.1	NA	104	38	125	NA	103.2	96.6	38	125	6.7	0-42	
GAMMA-BHC	1.7	ND	17.3	ND	17.2	16.2	NA	104	37	125	NA	103.0	97.1	37	125	5.9	0-42	
BETA-BHC	1.7	ND	16.9	ND	16.9	16.0	NA	101	39	103	NA	101.5	95.5	39	103	6.0	0-37	
HEPTACHLOR	1.7	ND	17.8	ND	17.9	16.8	NA	107	40	111	NA	107.1	100.4	40	111	6.4	0-40	
DELTA-BHC	1.7	ND	18.0	ND	17.8	16.8	NA	108	38	133	NA	106.6	100.4	38	133	6.0	0-40	
ALDRIN	1.7	ND	16.9	ND	17.4	16.3	NA	101	34	124	NA	104.1	97.7	34	124	6.3	0-41	
HEPTACHLOR EPOXIDE	1.7	ND	18.1	ND	18.1	17.1	NA	108	37	115	NA	108.2	102.4	37	115	5.5	0-38	
GAMMA-CHLORDANE	1.7	ND	18.1	ND	18.0	16.9	NA	108	70	130	NA	108.0	101.1	70	130	6.6	0-40	
ALPHA-CHLORDANE	1.7	ND	18.1	ND	18.0	16.8	NA	108	70	130	NA	108.0	100.8	70	130	6.9	0-40	
ENDOSULFAN I	1.7	ND	13.9	ND	13.8	13.0	NA	83.0	18	107	NA	82.7	77.6	18	107	6.4	0-46	
4,4-DDE	3.3	ND	18.7	ND	18.6	17.3	NA	112	39	114	NA	111.7	103.6	39	114	7.5	0-38	
DIELDRIN	3.3	ND	18.6	ND	18.4	17.2	NA	111	41	121	NA	110.3	103.1	41	121	6.7	0-39	
ENDRIN	3.3	ND	19.4	ND	19.2	18.3	NA	116	41	125	NA	114.9	109.7	41	125	4.6	0-42	
4,4-DDD	3.3	ND	19.1	ND	18.7	17.5	NA	114	38	119	NA	112.3	104.8	38	119	6.9	0-40	
ENDOSULFAN II	3.3	ND	12.5	ND	12.1	12.1	NA	74.6	21	101	NA	72.6	72.5	21	101	0.1	0-43	
4,4-DDT	3.3	ND	18.9	ND	18.9	17.6	NA	113	41	128	NA	113.4	105.2	41	128	7.5	0-40	
ENDRIN ALDEHYDE	3.3	ND	10.1	ND	9.4	9.5	NA	60.7	20	100	NA	56.1	56.6	20	100	1.0	0-54	
ENDOSULFAN SULFATE	3.3	ND	12.1	ND	11.2	12.0	NA	72.3	18	108	NA	67.0	71.8	18	108	6.6	0-53	
METHOXYCHLOR	17	ND	19.7	ND	20.7	19.4	NA	118	43	123	NA	124.1	116.1	43	123	6.7	0-40	H
ENDRIN KETONE	3.3	ND	13.0	ND	12.5	12.7	NA	77.6	26	129	NA	74.7	76.0	26	129	1.7	0-43	
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-50	
TOXAPHENE	33	ND	NA	ND	NA	NA	NA	NA	25	138	NA	NA	NA	25	138	NA	0-40	
SURROGATES																		
2,4,5,6-TETRACHLORO-M-XYLENE		17.1	20.3	18.4	20.0	18.5	85.6	101.6	29	133	92.0	100.0	92.6	29	133			
DECACHLOROBIPHENYL		19.9	23.2	20.9	22.9	24.6	99.4	115.8	30	173	104.3	114.5	123.0	30	173			

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 16.7 ug/kg
SURROGATES spiked at 20 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8081 SOILS , FRONT

INSTRUMENT : HP9
EXT'N DATE : 5/23/01 ANALYST : ECL BLK FLNM : 9G16023 SAMPLE ID : WG98040-01 L0105526-01
EXT'N BENCH SHT : V163P197 RUN DATE : 5/25/01 LCS FLNM : 9G16024 SMPL FLNM : 9G16025
EXT'N WORK GRP : WG98040 ANAL WORK GRP : WG98098 MS FLNM : 9G16026
MSD FLNM : 9G16027

		CONCENTRATION , ug/kg					% RECOVERY								PERCENT MS/MSD RPD					
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	RPD	Advisory Limits	Blank	LCS	Sample	MS	MSD
ALPHA-BHC	1.7	ND	17.3	ND	16.7	15.9	NA	104	38	125	NA	99.9	95.2	38	125	4.8	0-42					
GAMMA-BHC	1.7	ND	17.7	ND	17.2	16.5	NA	106	37	125	NA	103.1	98.6	37	125	4.5	0-42					
BETA-BHC	1.7	ND	17.2	ND	16.8	16.0	NA	103	39	103	NA	100.9	96.0	39	103	5.0	0-37					
HEPTACHLOR	1.7	ND	17.7	ND	17.3	16.2	NA	106	40	111	NA	103.3	96.8	40	111	6.6	0-40					
DELTA-BHC	1.7	ND	17.2	ND	16.8	16.0	NA	103	38	133	NA	99.4	96.0	38	133	3.5	0-40					
ALDRIN	1.7	ND	17.1	ND	17.1	16.3	NA	102	34	124	NA	102.4	97.6	34	124	4.8	0-41					
HEPTACHLOR EPOXIDE	1.7	ND	18.1	ND	17.6	16.8	NA	109	37	115	NA	105.4	100.6	37	115	4.7	0-38					
GAMMA-CHLORDANE	1.7	ND	18.5	ND	17.9	16.9	NA	111	70	130	NA	107.0	101.4	70	130	5.4	0-40					
ALPHA-CHLORDANE	1.7	ND	18.2	ND	18.2	17.6	NA	109	70	130	NA	109.1	105.5	70	130	3.4	0-40					
ENDOSULFAN I	1.7	ND	13.7	ND	13.4	12.7	NA	82.1	18	107	NA	80.0	76.3	18	107	4.8	0-46					
4,4-DDE	3.3	ND	19.1	ND	18.5	17.5	NA	115	39	114	NA	111.0	104.9	39	114	5.7	0-38		H			
DIELDRIN	3.3	ND	18.8	ND	18.2	17.4	NA	113	41	121	NA	108.8	104.1	41	121	4.5	0-39					
ENDRIN	3.3	ND	19.1	ND	18.4	17.3	NA	114	41	125	NA	109.9	103.6	41	125	5.9	0-42					
4,4-DDD	3.3	ND	20.0	ND	19.1	17.0	NA	120	38	119	NA	114.6	101.8	38	119	11.9	0-40		H			
ENDOSULFAN II	3.3	ND	12.4	ND	11.8	10.9	NA	74.0	21	101	NA	70.7	65.4	21	101	7.8	0-43					
4,4-DDT	3.3	ND	19.3	ND	18.5	18.2	NA	116	41	128	NA	110.9	97.2	41	128	13.2	0-40					
ENDRIN ALDEHYDE	3.3	ND	10.2	ND	11.4	9.6	NA	61.2	20	100	NA	68.5	57.2	20	100	18.0	0-54					
ENDOSULFAN SULFATE	3.3	ND	12.8	ND	12.9	12.5	NA	76.8	18	108	NA	77.3	74.9	18	108	3.2	0-53					
METHOXYCHLOR	17	ND	19.4	ND	23.9	18.1	NA	116	43	123	NA	143.1	108.2	43	123	27.8	0-40					H
ENDRIN KETONE	3.3	ND	13.0	ND	12.2	12.6	NA	77.9	26	129	NA	72.9	75.3	26	129	3.2	0-43					
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-50					
TOXAPHENE	170	ND	NA	ND	NA	NA	NA	NA	25	138	NA	NA	NA	25	138	NA	0-40					
SURROGATES																						
2,4,6,6-TETRACHLORO-M-XYLENE		17.1	19.4	18.4	18.7	17.5	85.7	97.0	29	133	91.9	93.7	87.3	29	133							
DECACHLOROBIPHENYL		18.2	17.9	18.6	22.2	20.1	90.9	89.7	30	173	93.1	110.9	100.3	30	173							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 16.7 ug/kg
SURROGATES spiked at 20 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / 8081 WATERS , REAR

EXT'N DATE : 5/23/01
EXT'N BENCH SHT : V163P193
EXT'N WORK GRP : WG98007

INSTRUMENT : HP9
ANALYST : ECL
RUN DATE : 5/25/01
ANAL WORK GRP : WG98096

BLK FLNM : 9G16030
LCS FLNM : 9G16031

SAMPLE ID : WG98007-01 L0105467-04
SMPL FLNM : 9G16035
MS FLNM : 9G16036
MSD FLNM : 9G16036

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY						PERCENT					
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limists	Blank LCS Sample MS MSD
ALPHA-BHC	0.05	ND	0.332	ND	0.593	0.593	NA	66.4	31	144	NA	59.3	59.3	31	144	0.0	0-42	
GAMMA-BHC	0.05	ND	0.351	ND	0.654	0.654	NA	70.2	40	144	NA	65.4	65.4	40	144	0.0	0-39	
BETA-BHC	0.05	ND	0.474	ND	0.951	0.951	NA	94.8	56	125	NA	95.1	95.1	56	125	0.0	0-35	
HEPTACHLOR	0.05	ND	0.323	ND	0.430	0.430	NA	64.6	27	139	NA	43.0	43.0	27	139	0.0	0-41	
DELTA-BHC	0.05	ND	0.513	ND	0.987	0.987	NA	102.6	61	148	NA	98.7	98.7	61	148	0.0	0-40	
ALDRIN	0.05	ND	0.310	ND	0.326	0.326	NA	62.0	32	139	NA	32.6	32.6	32	139	0.0	0-38	
HEPTACHLOR EPOXIDE	0.05	ND	0.450	ND	0.801	0.801	NA	90.0	50	140	NA	80.1	80.1	50	140	0.0	0-42	
GAMMA-CHLORDANE	0.05	ND	0.478	ND	0.563	0.563	NA	95.6	70	130	NA	56.3	56.3	70	130	0.0	0-40	L L
ALPHA-CHLORDANE	0.05	ND	0.484	ND	0.599	0.599	NA	96.8	70	130	NA	59.9	59.9	70	130	0.0	0-40	L L
ENDOSULFAN I	0.05	ND	0.357	ND	0.635	0.635	NA	71.4	37	115	NA	63.5	63.5	37	115	0.0	0-38	
4,4-DDE	0.10	ND	0.524	ND	0.397	0.397	NA	104.8	58	137	NA	39.7	39.7	58	137	0.0	0-36	L L
DIELDRIN	0.10	ND	0.513	ND	0.852	0.852	NA	102.6	59	147	NA	85.2	85.2	59	147	0.0	0-39	
ENDRIN	0.10	ND	0.541	ND	0.924	0.924	NA	108.2	60	153	NA	92.4	92.4	60	153	0.0	0-40	
4,4-DDD	0.10	ND	0.576	ND	0.654	0.654	NA	115.2	62	145	NA	65.4	65.4	62	145	0.0	0-38	
ENDOSULFAN II	0.10	ND	0.404	ND	0.668	0.668	NA	80.8	42	112	NA	66.8	66.8	42	112	0.0	0-30	
4,4-DDT	0.10	ND	0.562	ND	0.435	0.435	NA	112.4	64	151	NA	43.5	43.5	64	151	0.0	0-31	L L
ENDRIN ALDEHYDE	0.10	ND	0.297	ND	0.467	0.467	NA	59.4	21	131	NA	46.7	46.7	21	131	0.0	0-49	
ENDOSULFAN SULFATE	0.10	ND	0.404	ND	0.625	0.625	NA	80.8	15	154	NA	62.5	62.5	15	154	0.0	0-60	
METHOXYCHLOR	0.5	ND	0.676	ND	1.005	1.005	NA	135.2	66	152	NA	100.5	100.5	66	152	0.0	0-35	
ENDRIN KETONE	0.50	ND	0.440	ND	0.742	0.742	NA	88.0	37	165	NA	74.2	74.2	37	165	0.0	0-49	
Tech-CHLORDANE	1.0	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0-40	
TOXAPHENE	1.0	ND	NA	ND	NA	NA	NA	NA	39	128	NA	NA	NA	39	128	NA	0-39	
SURROGATES																		
2,4,5,6-TETRACHLORO-M-XYLENE		8.9	8.9	8.2	7.4	7.4	34.4	44.3	13	154	41.2	37.0	37.0	13	154			
DECACHLOROBIPHENYL		15.4	18.4	7.1	11.3	11.3	77.1	92.2	25	140	35.5	56.5	56.5	25	140			

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 0.5 ug/L
SURROGATES spiked at 20 ug/L
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE
MS=MATRIX SPIKE
MSD=MATRIX SPIKE DUPLICATE

2.2.2.2 Sample Data

Data File : C:\HPCHEM\1\DATA\052501\9G16025.D\ECD1A.CH Vial: 6
Acq On : 25 May 2001 14:38 Operator: ECL
Sample : WG98040-01 L0105526-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16025.D\ECD2B.CH Vial: 6
Acq On : 25 May 2001 15:03 Operator: ECL
Sample : WG98040-01 L0105526-01 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:17 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1303.9E6	1922.7E6	18.382	18.402	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		91.91%	92.01%	
22)	S Decachlorobiphen	15.15	14.79	762.6E6	1037.1E6	18.623	20.859	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		93.12%	104.30%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	51504090	0	0.257	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

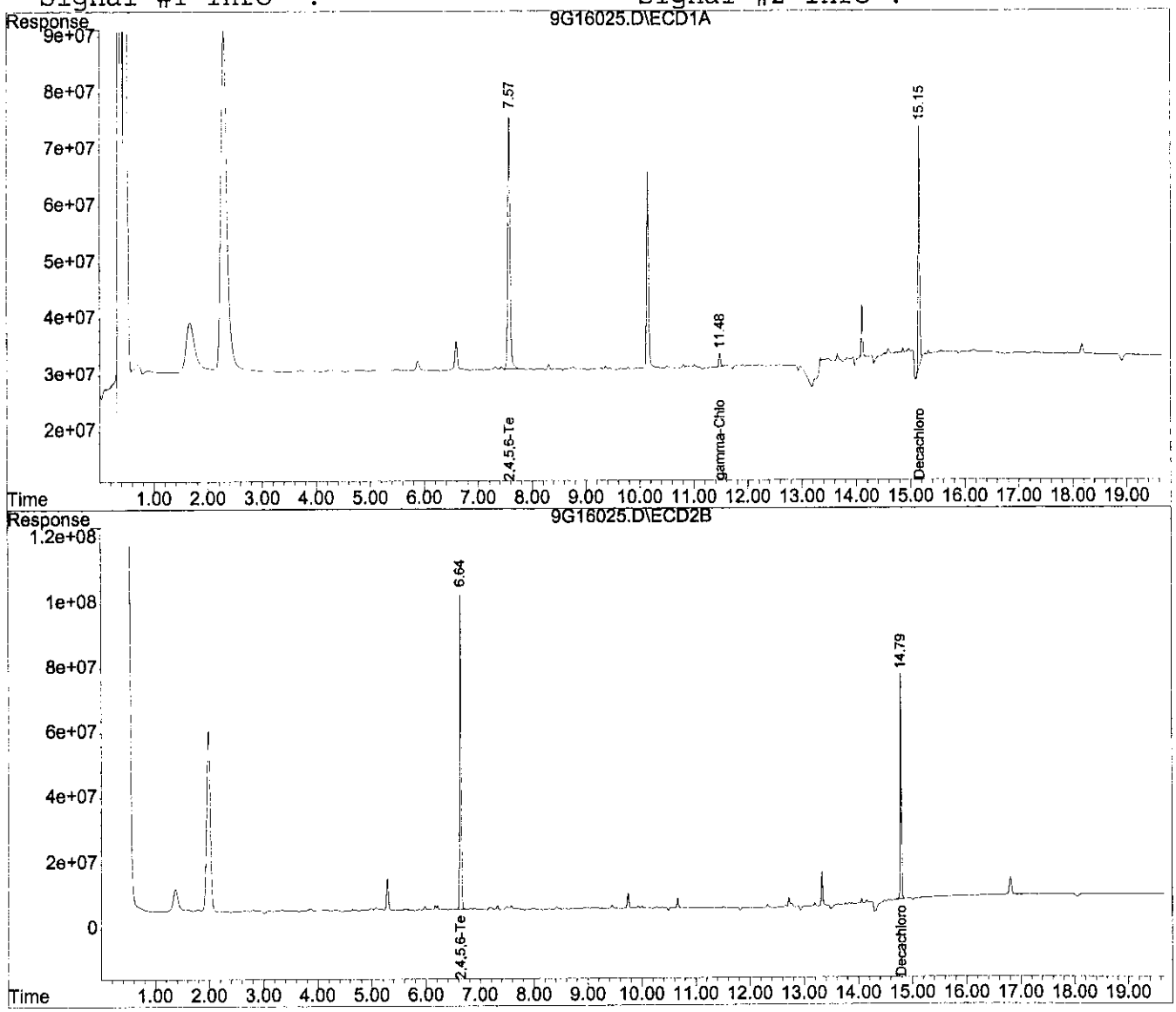
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\052501\9G16025.D\ECD1A.CH   Vial: 6
Acq On    : 25 May 2001  14:38                          Operator: ECL
Sample    : WG98040-01 L0105526-01                      Inst    : HP9
Misc      : 7,1                                         Multiplr: 0.33
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16025.D\ECD2B.CH   Vial: 6
Acq On    : 25 May 2001  15:03                          Operator: ECL
Sample    : WG98040-01 L0105526-01                      Inst    : HP9
Misc      : 7,1                                         Multiplr: 0.33
IntFile   : autoint2.e
Quant Time: May 29  7:17 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



Data File : C:\HPCHEM\1\DATA\052501\9G16028.D\ECD1A.CH Vial: 9
Acq On : 25 May 2001 15:51 Operator: ECL
Sample : L0105526-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16028.D\ECD2B.CH Vial: 9
Acq On : 25 May 2001 16:15 Operator: ECL
Sample : L0105526-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	979.1E6	1468.2E6	13.803	14.052
	Spiked Amount 20.000	Range 13 - 154		Recovery =		69.02%	70.26%
22)	S Decachlorobiphen	15.15	14.79	595.5E6	803.5E6	14.543	16.160
	Spiked Amount 20.000	Range 25 - 140		Recovery =		72.72%	80.80%
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.

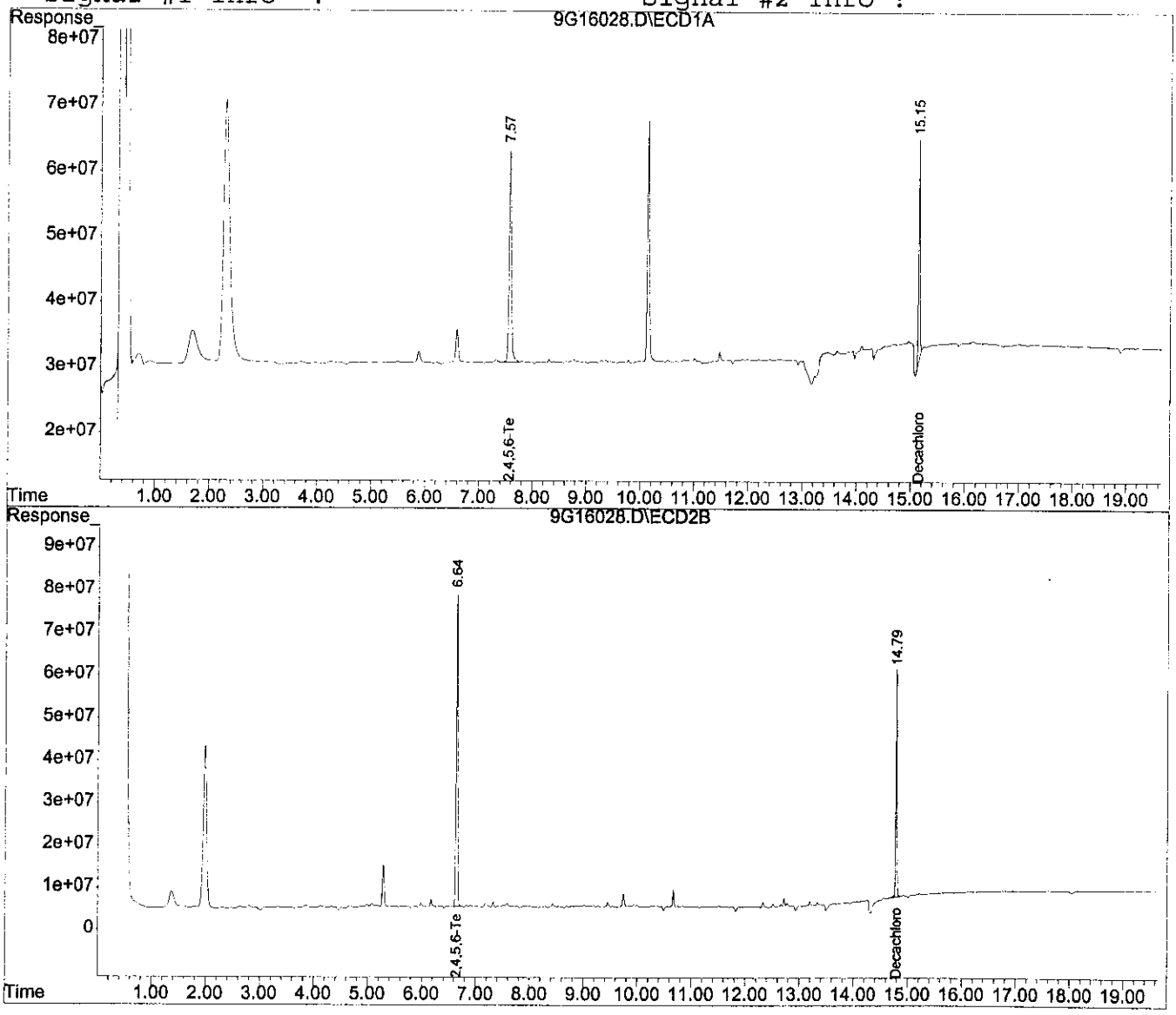
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16028.D\ECD1A.CH Vial: 9
Acq On : 25 May 2001 15:51 Operator: ECL
Sample : L0105526-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16028.D\ECD2B.CH Vial: 9
Acq On : 25 May 2001 16:15 Operator: ECL
Sample : L0105526-02 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16029.D\ECD1A.CH Vial: 10
Acq On : 25 May 2001 16:15 Operator: ECL
Sample : L0105526-03 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16029.D\ECD2B.CH Vial: 10
Acq On : 25 May 2001 16:39 Operator: ECL
Sample : L0105526-03 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1231.5E6	1829.0E6	17.361	17.505	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		86.80%	87.52%	
22)	S Decachlorobiphen	15.15	14.79	739.4E6	1034.1E6	18.056	20.799	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		90.28%	103.99%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	0.00	10.75	0	63355480	N.D.	0.243	#
10)	alpha-Chlordane	11.69f	10.97	85110065	81341956	0.482	0.331	#
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	12.25	11.44	52087678	50752161	0.278	0.206	#
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	13.37	0.00	76484490	0	0.572	N.D.	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

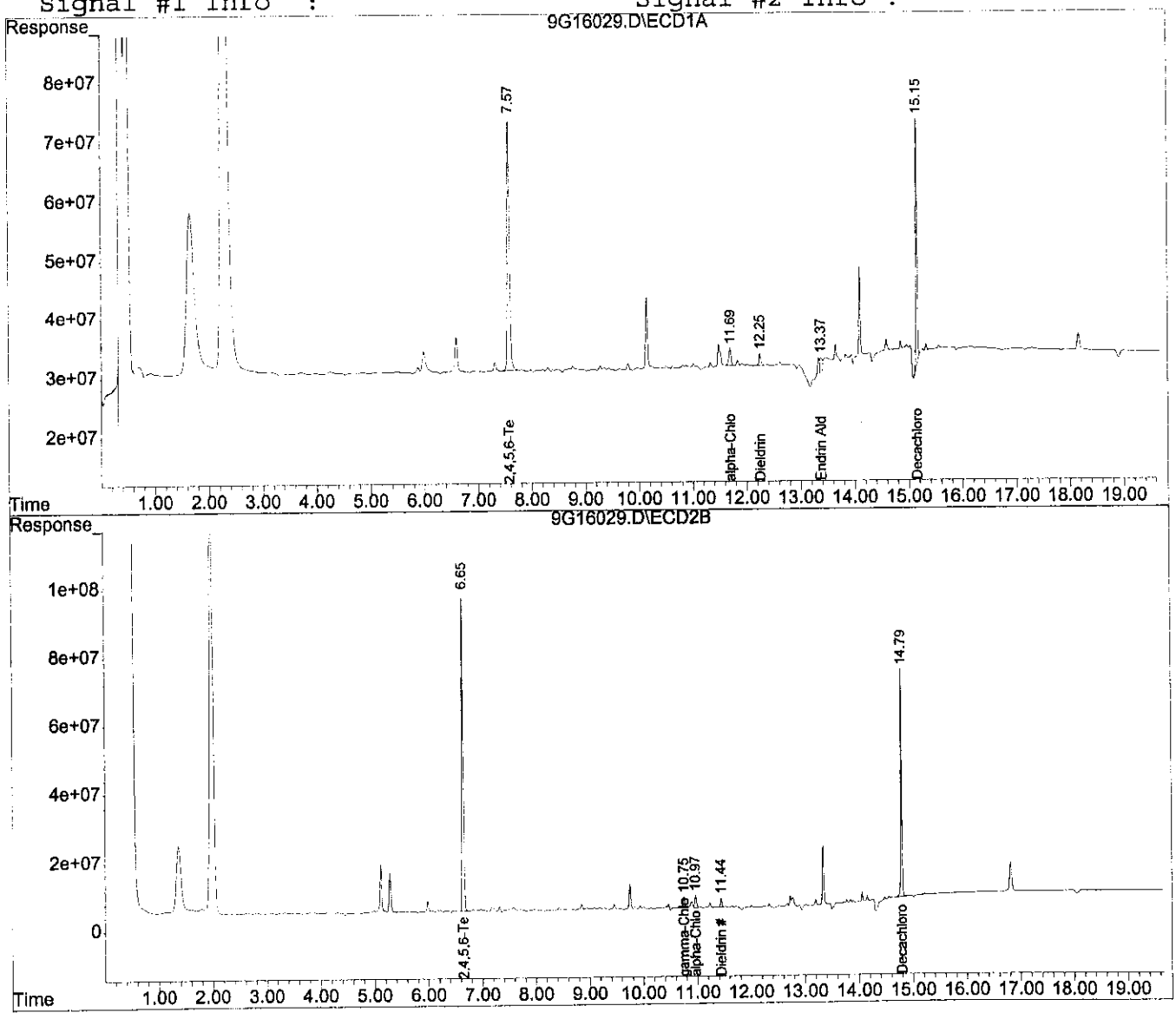
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16029.D\ECD1A.CH Vial: 10
Acq On : 25 May 2001 16:15 Operator: ECL
Sample : L0105526-03 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16029.D\ECD2B.CH Vial: 10
Acq On : 25 May 2001 16:39 Operator: ECL
Sample : L0105526-03 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16042.D\ECD1A.CH Vial: 23
Acq On : 25 May 2001 21:29 Operator: ECL
Sample : L0105526-04 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16042.D\ECD2B.CH Vial: 23
Acq On : 25 May 2001 21:53 Operator: ECL
Sample : L0105526-04 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:21 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.58	6.64	712.7E6	771.4E6	10.047	7.384	#
	Spiked Amount 20.000	Range 13 - 154		Recovery =		50.24%	36.92%	
22)	S Decachlorobiphen	15.16f	14.79	245.3E6	301.7E6	5.991	6.068	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		29.95%	30.34%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.49f	0.00	165.6E6	0	0.028	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	13.36f	0.00	321.5E6	0	0.080	N.D.	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

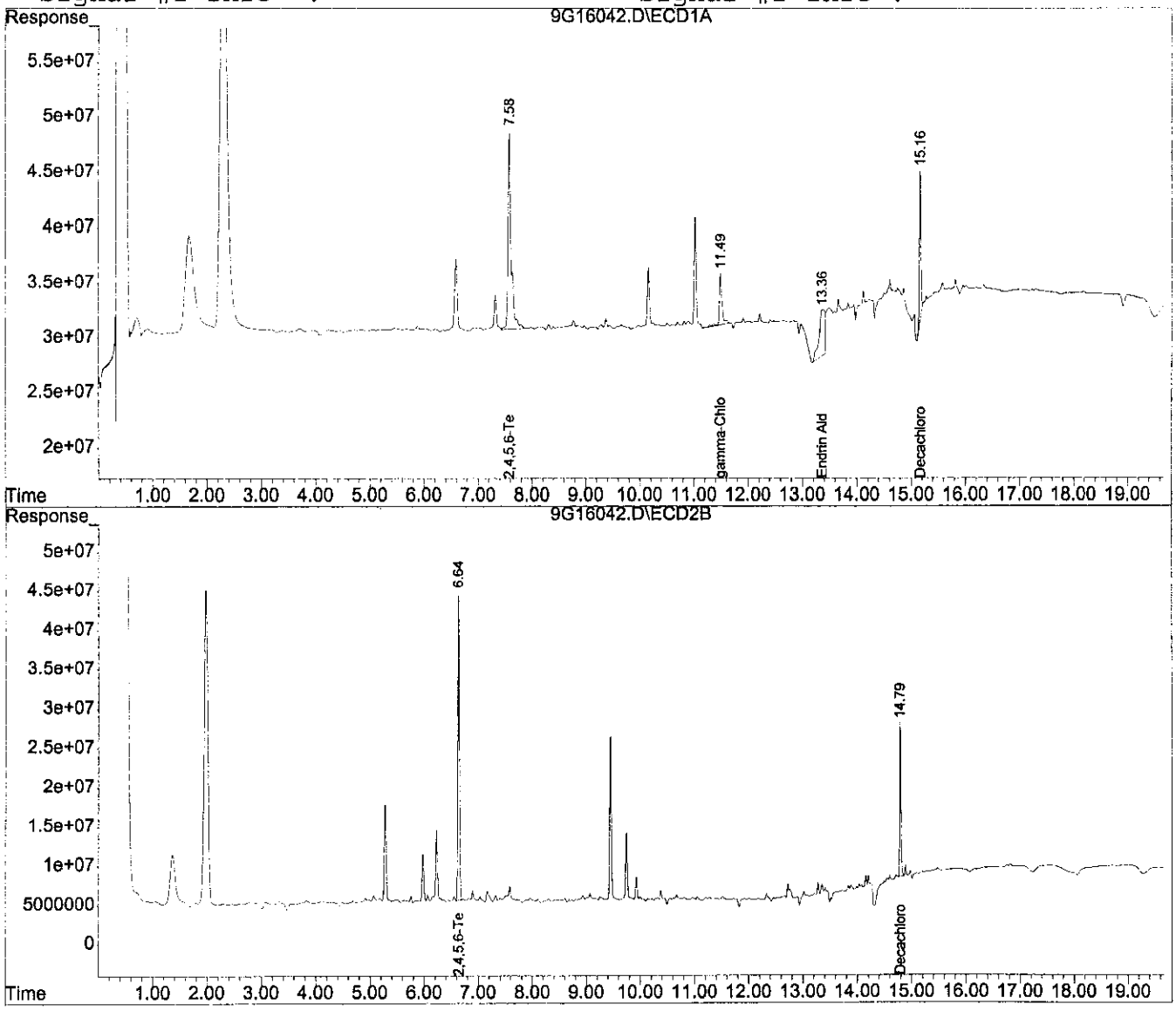
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16042.D\ECD1A.CH Vial: 23
Acq On : 25 May 2001 21:29 Operator: ECL
Sample : L0105526-04 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16042.D\ECD2B.CH Vial: 23
Acq On : 25 May 2001 21:53 Operator: ECL
Sample : L0105526-04 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:21 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



2.2.2.3 Standards Data

Response Factor Report HP9

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001

Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1) L1	TOXAPHENE-1	4.695	4.287	4.432	4.549	4.478	4.488	E5	3.34
2) L1	TOXAPHENE-2	4.333	4.764	5.096	5.303	5.293	4.958	E5	8.31
3) L1	TOXAPHENE-3	1.072	1.049	1.082	1.110	1.097	1.082	E6	2.16
4) L1	TOXAPHENE-4	4.751	4.793	5.028	5.376	5.323	5.054	E5	5.74
5) L1	TOXAPHENE-5	1.032	1.012	1.044	1.088	1.057	1.047	E6	2.70

Signal #2 Calibration Files
100 =9G15968.D 250 =9G15967.D 500 =9G15966.D
1000 =9G15965.D 2000 =9G15964.D

	Compound	100	250	500	1000	2000	Avg		%RSD
1) L1	TOXAPHENE-1	1.795	2.173	2.204	2.297	2.268	2.147	E6	9.45
2) L1	TOXAPHENE-2	1.388	1.429	1.492	1.596	1.594	1.500	E6	6.31
3) L1	TOXAPHENE-3	1.352	1.365	1.430	1.512	1.532	1.438	E6	5.71
4) L1	TOXAPHENE-4	0.841	0.867	0.925	0.991	1.005	0.926	E6	7.84
5) L1	TOXAPHENE-5	6.033	6.135	6.294	6.635	6.666	6.353	E5	4.53

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	895.5E6	4536.6E6	1995.371	2112.548
2)	L1 TOXAPHENE-2	13.27	12.68	1058.7E6	3188.9E6	2135.231	2126.043
3)	L1 TOXAPHENE-3	13.76	13.30	2194.9E6	3063.4E6	2028.056	2130.110
4)	L1 TOXAPHENE-4	13.95	13.36	1064.5E6	2010.3E6	2106.243	2171.370
5)	L1 TOXAPHENE-5	14.15	13.73	2114.5E6	1333.2E6	2020.310	2098.668
	Sum TOXAPHENE-1			7328.2E6	14132.3E6	10285.211	10638.739
	Average TOXAPHENE-1					2057.042	2127.748

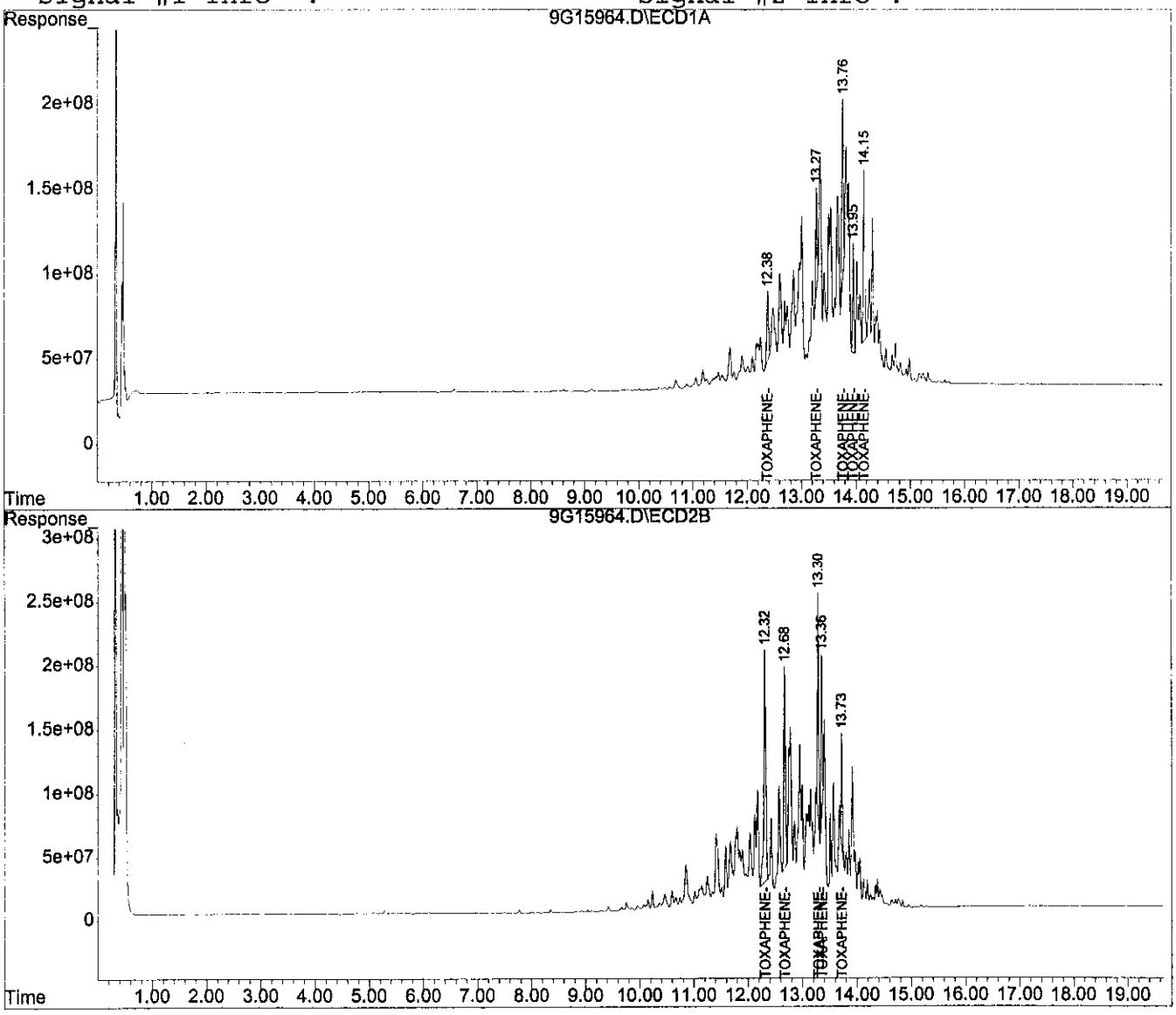
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD1A.CH Vial: 2
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15964.D\ECD2B.CH Vial: 2
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 2.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds							
1) L1	TOXAPHENE-1	12.38	12.31	454.9E6	2296.7E6	1013.519	1069.486
2) L1	TOXAPHENE-2	13.28	12.67	530.3E6	1596.1E6	1069.649	1064.160
3) L1	TOXAPHENE-3	13.77	13.29	1110.3E6	1511.7E6	1025.850	1051.144
4) L1	TOXAPHENE-4	13.95	13.36	537.6E6	990.6E6	1063.680	1070.027
5) L1	TOXAPHENE-5	14.15	13.72	1087.7E6	663.5E6	1039.218	1044.413
Sum	TOXAPHENE-1			3720.8E6	7058.6E6	5211.915	5299.231
Average	TOXAPHENE-1					1042.383	1059.846

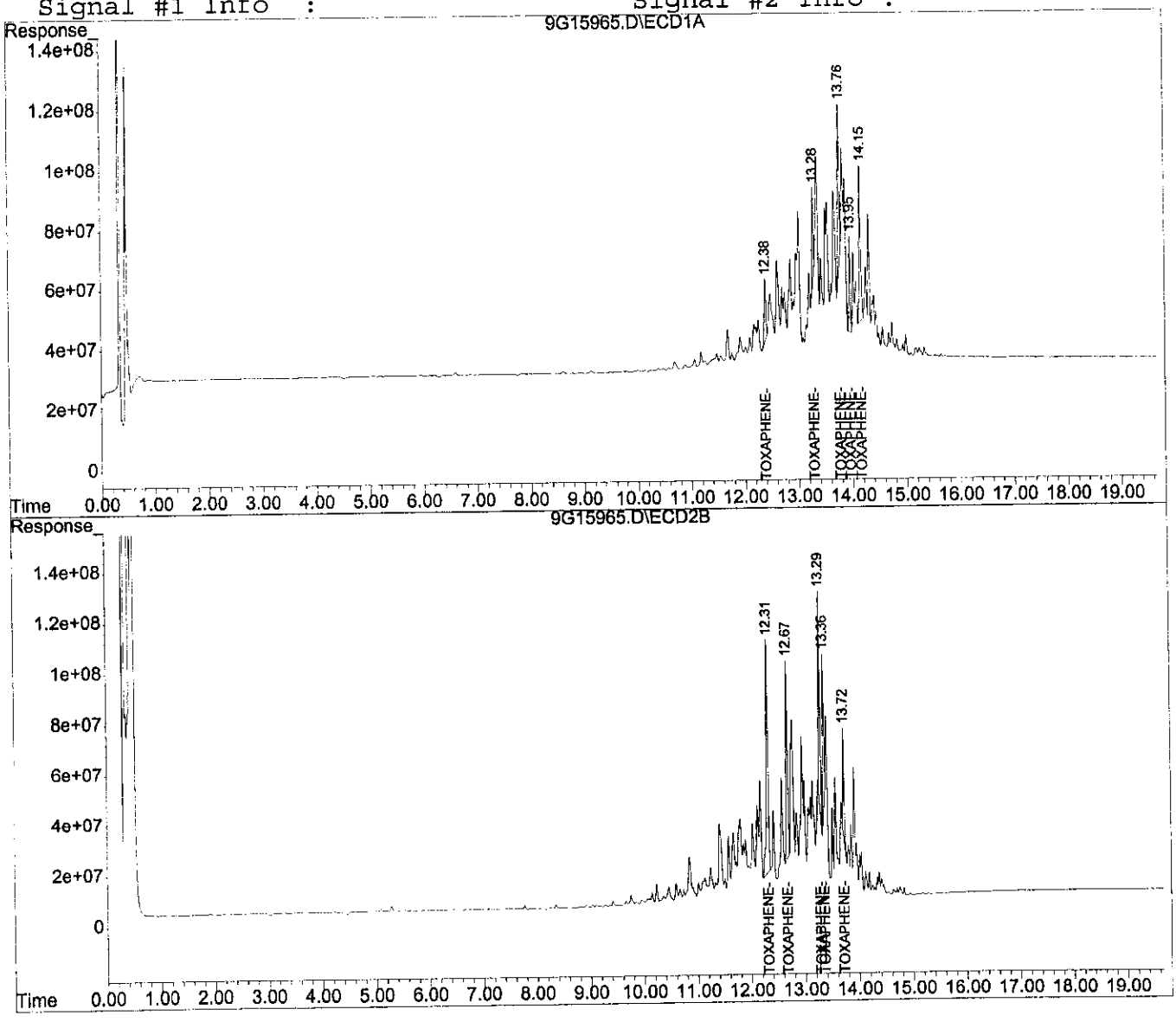
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD1A.CH Vial: 3
Acq On : 24 May 2001 9:34 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15965.D\ECD2B.CH Vial: 3
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 1.0 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Phase :



Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.37	12.31	221.6E6	1102.2E6	493.741	513.266
2) L1 TOXAPHENE-2	13.27	12.67	254.8E6	746.1E6	513.939	497.410
3) L1 TOXAPHENE-3	13.76	13.29	541.1E6	715.1E6	499.957	497.241
4) L1 TOXAPHENE-4	13.94	13.36	251.4E6	462.5E6	497.460	499.548
5) L1 TOXAPHENE-5	14.15	13.72	521.9E6	314.7E6	498.660	495.400
Sum TOXAPHENE-1			1790.8E6	3340.6E6	2503.757	2502.865
Average TOXAPHENE-1					500.751	500.573

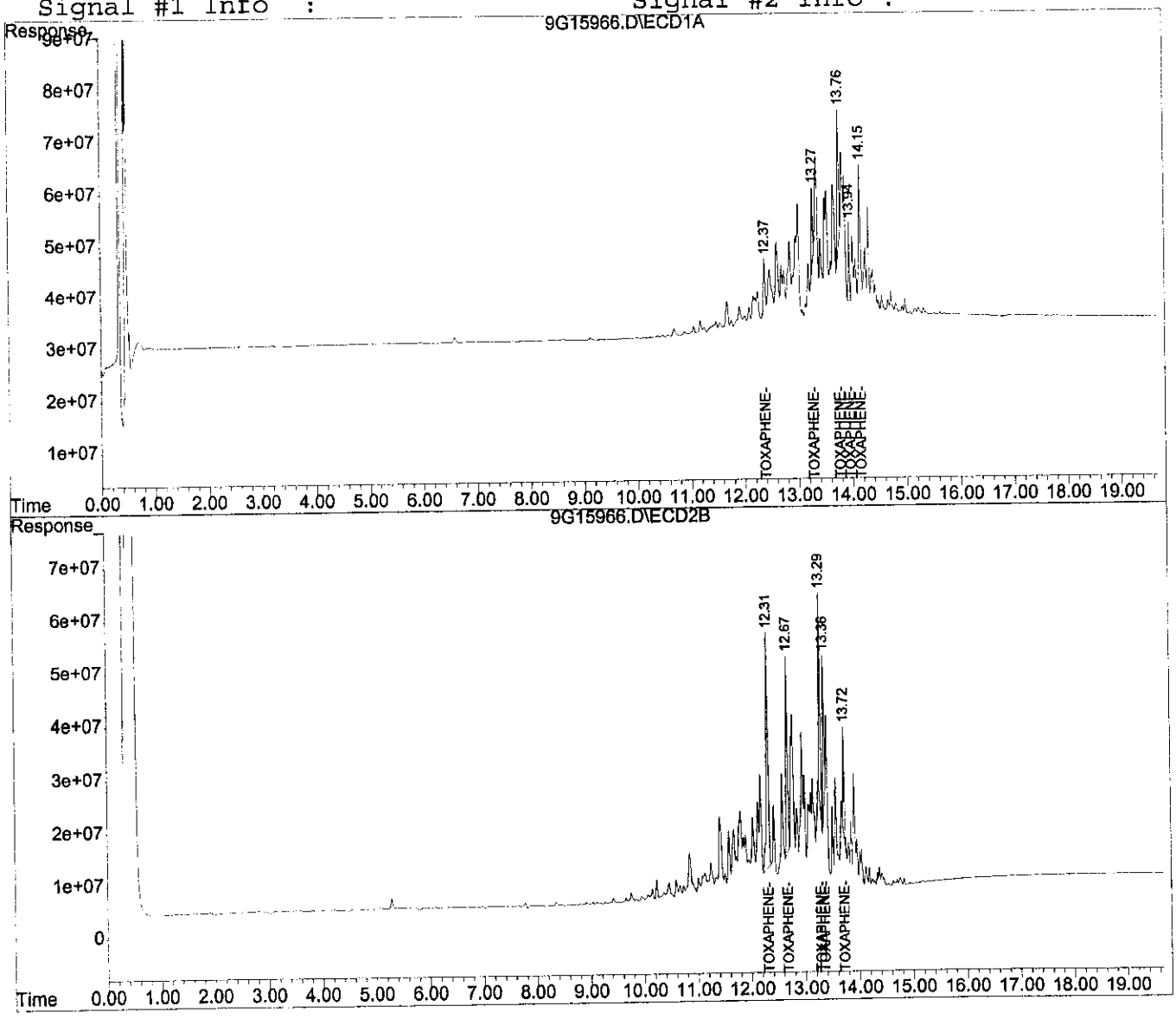
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD1A.CH Vial: 4
Acq On : 24 May 2001 9:58 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15966.D\ECD2B.CH Vial: 4
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:43 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH Vial: 5
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH Vial: 5
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.31	107.2E6	543.2E6	238.821	252.929
2) L1 TOXAPHENE-2	13.27	12.67	119.1E6	357.2E6	240.213	238.156
3) L1 TOXAPHENE-3	13.76	13.29	262.4E6	341.2E6	242.415	237.247
4) L1 TOXAPHENE-4	13.95	13.36	119.8E6	216.7E6	237.061	234.099
5) L1 TOXAPHENE-5	14.15	13.72	253.0E6	153.4E6	241.738	241.452
Sum TOXAPHENE-1			861.5E6	1611.7E6	1200.249	1203.883
Average TOXAPHENE-1					240.050	240.777

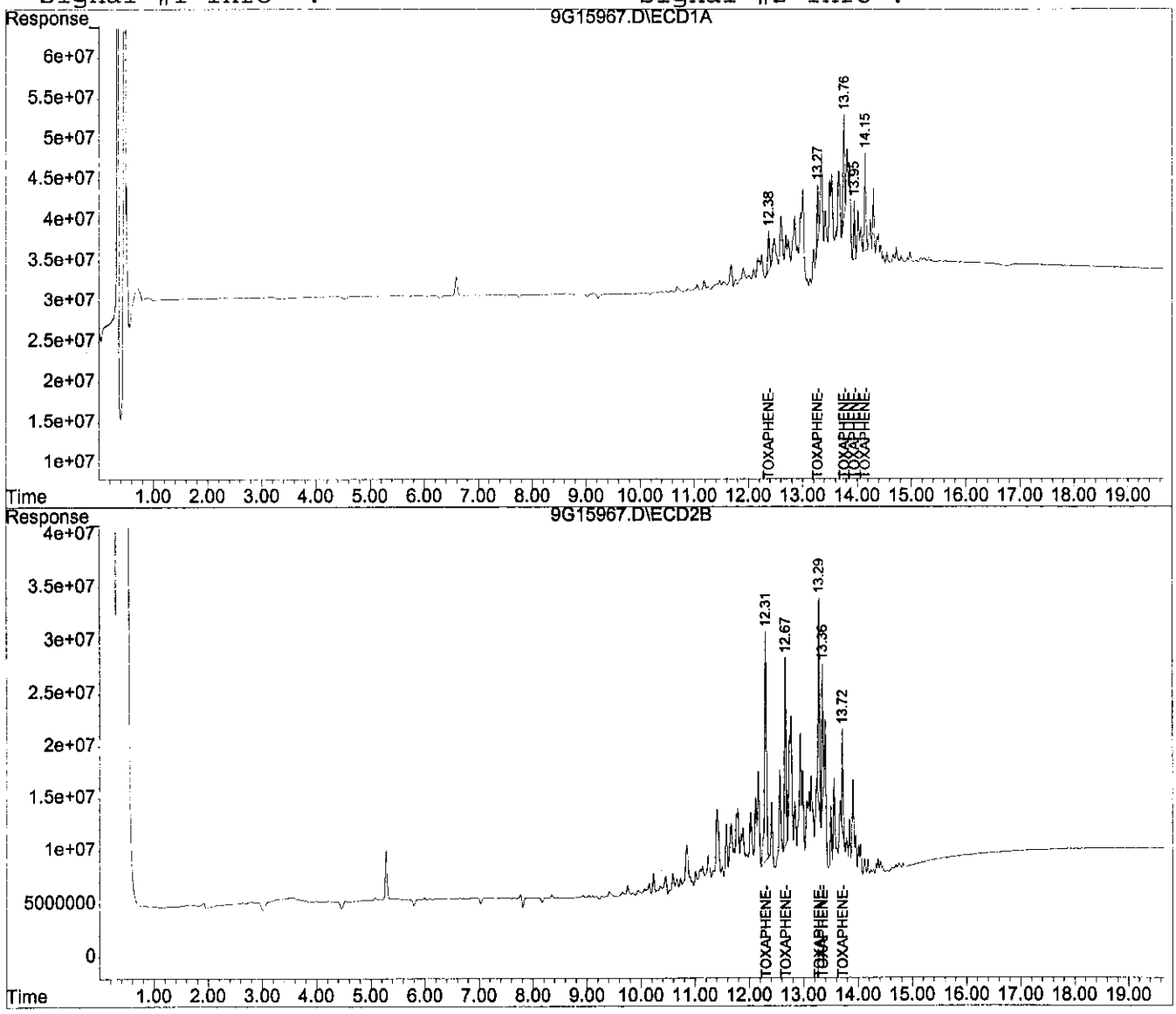
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD1A.CH Vial: 5
Acq On : 24 May 2001 10:22 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15967.D\ECD2B.CH Vial: 5
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.32	46946000	179.5E6	104.603	83.599
2) L1 TOXAPHENE-2	13.28	12.68	43334629	138.8E6	87.401	92.538
3) L1 TOXAPHENE-3	13.76	13.30	107.2E6	135.2E6	99.055	94.033
4) L1 TOXAPHENE-4	13.95	13.36	47510811	84136865	94.003	90.879
5) L1 TOXAPHENE-5	14.15	13.72	103.2E6	60327541	98.635	94.965
Sum TOXAPHENE-1			348.2E6	598.0E6	483.697	456.014
Average TOXAPHENE-1					96.739	91.203

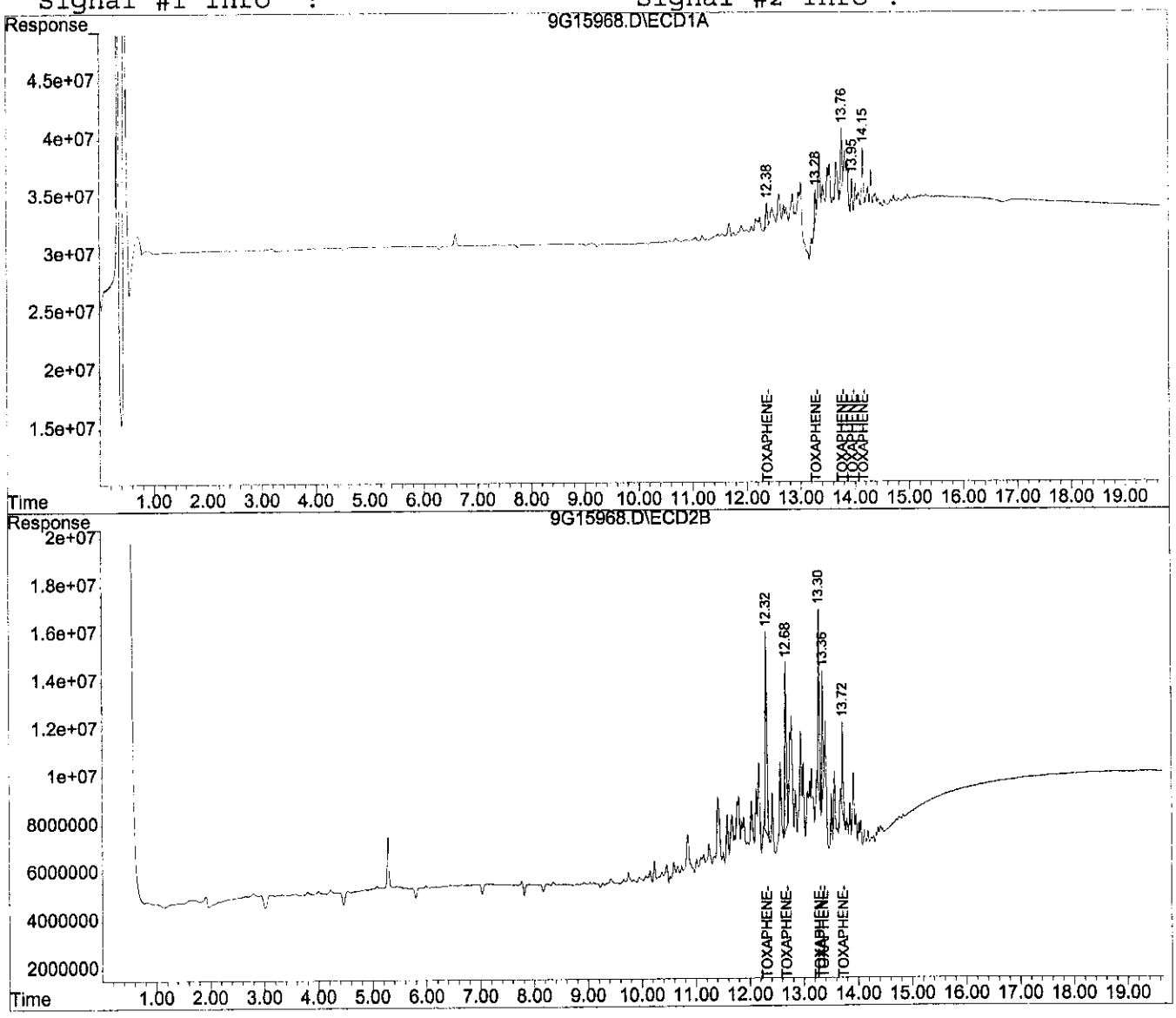
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD1A.CH Vial: 6
Acq On : 24 May 2001 10:47 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15968.D\ECD2B.CH Vial: 6
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ICAL 0.1 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:44 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	432.312	13.5	88	0.00
2	L1	TOXAPHENE-2	500.000	486.131	2.8	95	0.00
3	L1	TOXAPHENE-3	500.000	466.891	6.6	93	0.00
4	L1	TOXAPHENE-4	500.000	459.907	8.0	92	0.00
5	L1	TOXAPHENE-5	500.000	461.160	7.8	92	0.00
		Signal #2					
1	L1	TOXAPHENE-1	500.000	474.335	5.1	92	0.00
2	L1	TOXAPHENE-2	500.000	493.052	1.4	99	0.00
3	L1	TOXAPHENE-3	500.000	470.569	5.9	95	0.00
4	L1	TOXAPHENE-4	500.000	470.005	6.0	94	0.00
5	L1	TOXAPHENE-5	500.000	456.811	8.6	92	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.32	194.0E6	1018.6E6	432.312	474.335
2) L1 TOXAPHENE-2	13.28	12.68	241.0E6	739.5E6	486.131	493.052
3) L1 TOXAPHENE-3	13.77	13.29	505.3E6	676.8E6	466.891	470.569
4) L1 TOXAPHENE-4	13.95	13.36	232.4E6	435.1E6	459.907	470.005
5) L1 TOXAPHENE-5	14.15	13.72	482.7E6	290.2E6	461.160	456.811
Sum TOXAPHENE-1			1655.5E6	3160.2E6	2306.401	2364.773
Average TOXAPHENE-1					461.280	472.955

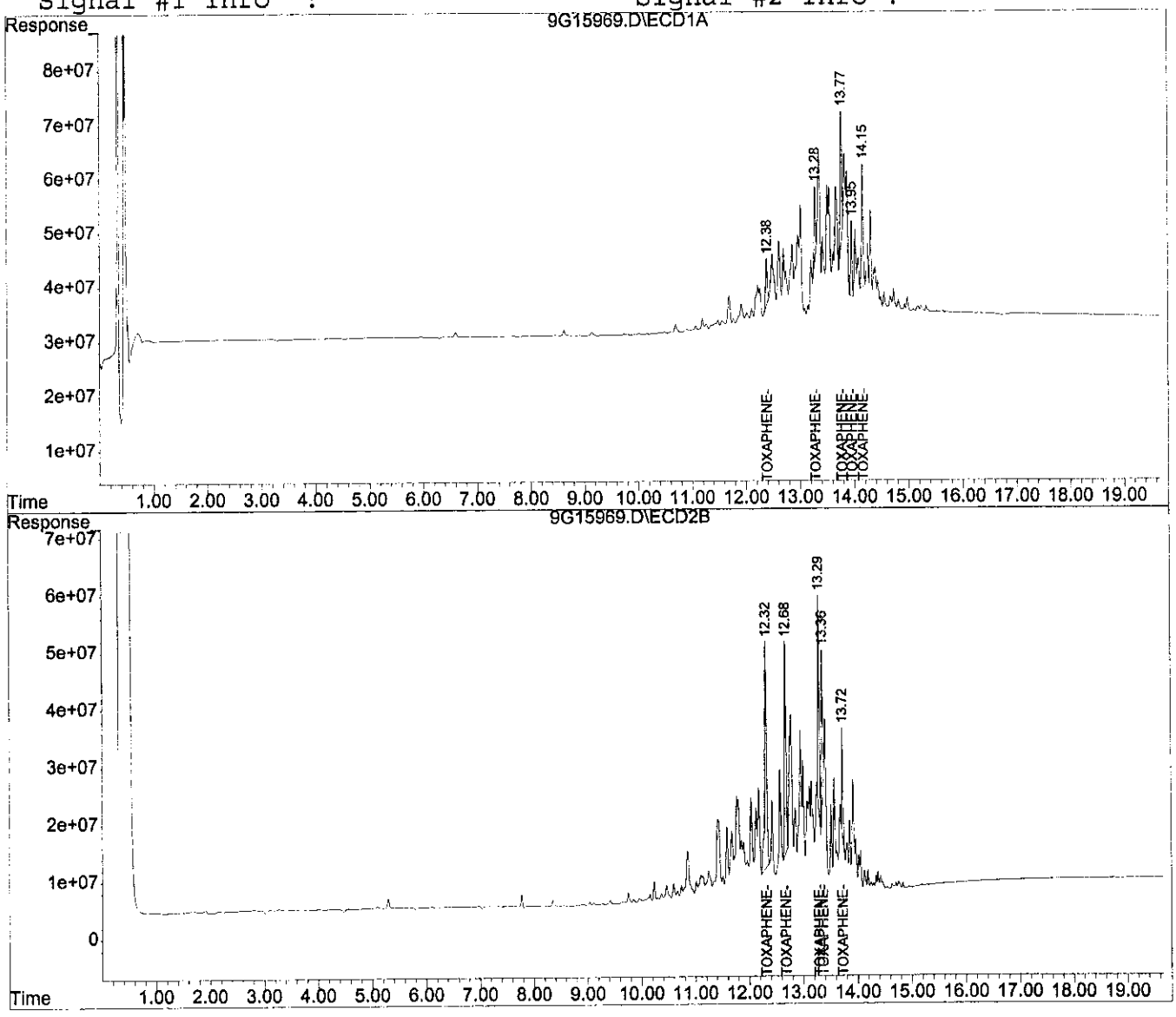
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD1A.CH Vial: 7
Acq On : 24 May 2001 11:11 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052401\9G15969.D\ECD2B.CH Vial: 7
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : TOX ALT ICV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:08 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Response Factor Report HP9

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	7.213	7.458	7.095	6.973	6.907	6.915	7.094	E7	3.02
2)		alpha-BHC	8.716	9.743	9.467	9.668	9.785	9.914	9.549	E7	4.54
3)		gamma-BHC	8.705	8.660	8.429	8.566	8.564	8.733	8.610	E7	1.31
4)		beta-BHC	4.413	3.958	3.637	3.650	3.484	3.613	3.793	E7	9.02
5)		Heptachlor	7.951	8.169	7.831	7.736	7.613	7.495	7.799	E7	3.10
6)		delta-BHC	7.305	8.442	8.200	8.384	8.517	8.733	8.263	E7	6.06
7)		Aldrin	7.193	7.407	7.334	7.295	7.207	7.136	7.262	E7	1.39
8)		Heptachlor Epoxide	6.882	6.974	6.637	6.482	6.368	6.296	6.606	E7	4.18
9)		gamma-Chlordane	6.666	6.783	6.553	6.507	6.513	6.601	6.604	E7	1.60
10)		alpha-Chlordane	5.229	6.146	6.061	5.788	5.812	5.929	5.828	E7	5.57
11)		Endosulfan I	6.286	6.270	6.120	5.961	5.839	5.789	6.044	E7	3.54
12)		4,4'-DDE	5.708	6.027	5.765	5.923	5.968	6.063	5.909	E7	2.42
13)		Dieldrin	6.016	6.315	6.215	6.198	6.176	6.168	6.181	E7	1.57
14)		Endrin	5.578	5.642	5.527	5.645	5.582	5.612	5.598	E7	0.80
15)		4,4'-DDD	4.498	4.642	4.582	5.090	4.965	4.988	4.794	E7	5.19
16)		Endosulfan II	6.132	5.427	5.292	5.310	5.146	5.121	5.405	E7	6.91
17)		4,4'-DDT	4.660	5.284	5.427	5.258	5.099	5.149	5.146	E7	5.13
18)		Endrin Aldehyde	4.416	5.095	4.586	4.224	4.124	4.036	4.413	E7	8.81
19)		Endosulfan Sulfate	3.581	3.616	3.769	3.785	3.848	4.000	3.767	E7	4.09
20)		Methoxychlor	2.150	2.259	2.180	2.191	2.299	2.342	2.237	E7	3.37
21)		Endrin Ketone	4.839	4.812	4.858	4.804	4.787	4.903	4.834	E7	0.87
22)	S	Decachlorobiphenyl	4.626	4.357	4.177	3.903	3.745	3.762	4.095	E7	8.65

Signal #2 Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
1)	S	2,4,5,6-Tetrachloro	1.099	1.091	1.057	1.035	0.991	0.996	1.045	E8	4.40
2)		alpha-BHC	1.395	1.443	1.439	1.446	1.408	1.447	1.430	E8	1.57
3)		gamma-BHC	1.205	1.260	1.252	1.254	1.221	1.251	1.241	E8	1.79
4)		beta-BHC	5.797	5.655	5.417	5.267	5.067	5.213	5.403	E7	5.14
5)		Heptachlor	1.082	1.096	1.077	1.060	1.023	1.017	1.059	E8	3.06
6)		delta-BHC	1.091	1.170	1.173	1.188	1.167	1.205	1.166	E8	3.37
7)		Aldrin	0.962	1.007	1.002	1.002	0.972	0.976	0.987	E8	1.95
8)		Heptachlor Epoxide	8.383	8.702	8.511	8.428	8.210	8.308	8.424	E7	2.03
9)		gamma-Chlordane	8.604	8.729	8.570	8.607	8.442	8.656	8.601	E7	1.11
10)		alpha-Chlordane	8.282	8.289	8.068	8.052	7.897	8.074	8.110	E7	1.86
11)		Endosulfan I	7.997	7.967	7.767	7.702	7.493	7.524	7.742	E7	2.76
12)		4,4'-DDE	7.541	7.916	7.892	8.041	7.950	8.129	7.911	E7	2.55
13)		Dieldrin	7.822	8.138	8.106	8.233	8.112	8.301	8.119	E7	2.02
14)		Endrin	6.373	6.236	6.271	6.390	6.399	6.532	6.367	E7	1.65
15)		4,4'-DDD	5.711	6.122	6.120	6.220	6.227	6.430	6.138	E7	3.88
16)		Endosulfan II	6.617	6.725	6.607	6.623	6.547	6.719	6.640	E7	1.04

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001

Calibration Files
4 =9G15975.D 10 =9G15974.D 20 =9G15973.D
50 =9G15972.D 100 =9G15971.D 200 =9G15970.D

		Compound	4	10	20	50	100	200	Avg		%RSD
17)		4,4'-DDT	5.358	5.680	5.748	6.154	6.123	6.457	5.920	E7	6.70
18)		Endrin Aldehyde	4.891	4.962	4.843	5.011	4.888	5.082	4.946	E7	1.81
19)		Endosulfan Sulfate	4.519	4.687	4.746	4.935	5.035	5.339	4.877	E7	5.97
20)		Methoxychlor	2.586	2.621	2.606	2.667	2.704	2.878	2.677	E7	4.02
21)		Endrin Ketone	5.645	5.886	5.840	5.987	6.005	6.266	5.938	E7	3.47
22)	S	Decachlorobiphenyl	5.401	5.227	4.861	4.791	4.713	4.839	4.972	E7	5.54

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH Vial: 8
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH Vial: 8
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	13829.5E6	19915.6E6	194.959	190.613
	Spiked Amount 20.000	Range 13 - 154		Recovery =		974.79%#	953.06%#
22)	S Decachlorobiphen	15.16	14.80	7524.4E6	9678.4E6	183.745	194.656
	Spiked Amount 20.000	Range 25 - 140		Recovery =		918.73%#	973.28%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	19827.3E6	28948.9E6	207.647	202.481
3)	gamma-BHC	9.16	8.38	17466.2E6	25023.6E6	202.868	201.717
4)	beta-BHC	9.32	8.54	7225.8E6	10425.7E6	190.527	192.978
5)	Heptachlor	9.94	9.08	14989.5E6	20337.4E6	192.196	192.005
6)	delta-BHC	9.61	9.01	17465.3E6	24102.0E6	211.357	206.739
7)	Aldrin	10.41	9.58	14272.7E6	19516.8E6	196.539	197.758
8)	Heptachlor Epoxi	11.33	10.47	12591.4E6	16615.8E6	190.594	197.249
9)	gamma-Chlordane	11.52	10.75	13202.4E6	17312.4E6	199.918	201.274
10)	alpha-Chlordane	11.71	10.97	11858.2E6	16148.7E6	203.485	199.110
11)	Endosulfan I	11.91	11.05	11577.9E6	15048.8E6	191.559	194.385
12)	4,4'-DDE	11.83	11.24	12126.7E6	16257.9E6	205.217	205.500
13)	Dieldrin	12.25	11.45	12336.7E6	16601.7E6	199.583	204.489
14)	Endrin	12.58	11.89	11224.0E6	13063.8E6	200.512	205.193
15)	4,4'-DDD	12.67	12.08	9975.2E6	12860.2E6	208.070	209.511
16)	Endosulfan II	12.87	12.20	10241.9E6	13437.1E6	189.501	202.374
17)	4,4'-DDT	13.03	12.52	10297.0E6	12913.2E6	200.092	218.125
18)	Endrin Aldehyde	13.39	12.67	8072.6E6	10163.2E6	182.909	205.486
19)	Endosulfan Sulfa	13.88	13.02	8000.1E6	10678.1E6	212.397	218.960
20)	Methoxychlor	13.61	13.37	4684.9E6	5756.7E6	209.442	215.032
21)	Endrin Ketone	14.18	13.62	9805.4E6	12531.2E6	202.859	211.034

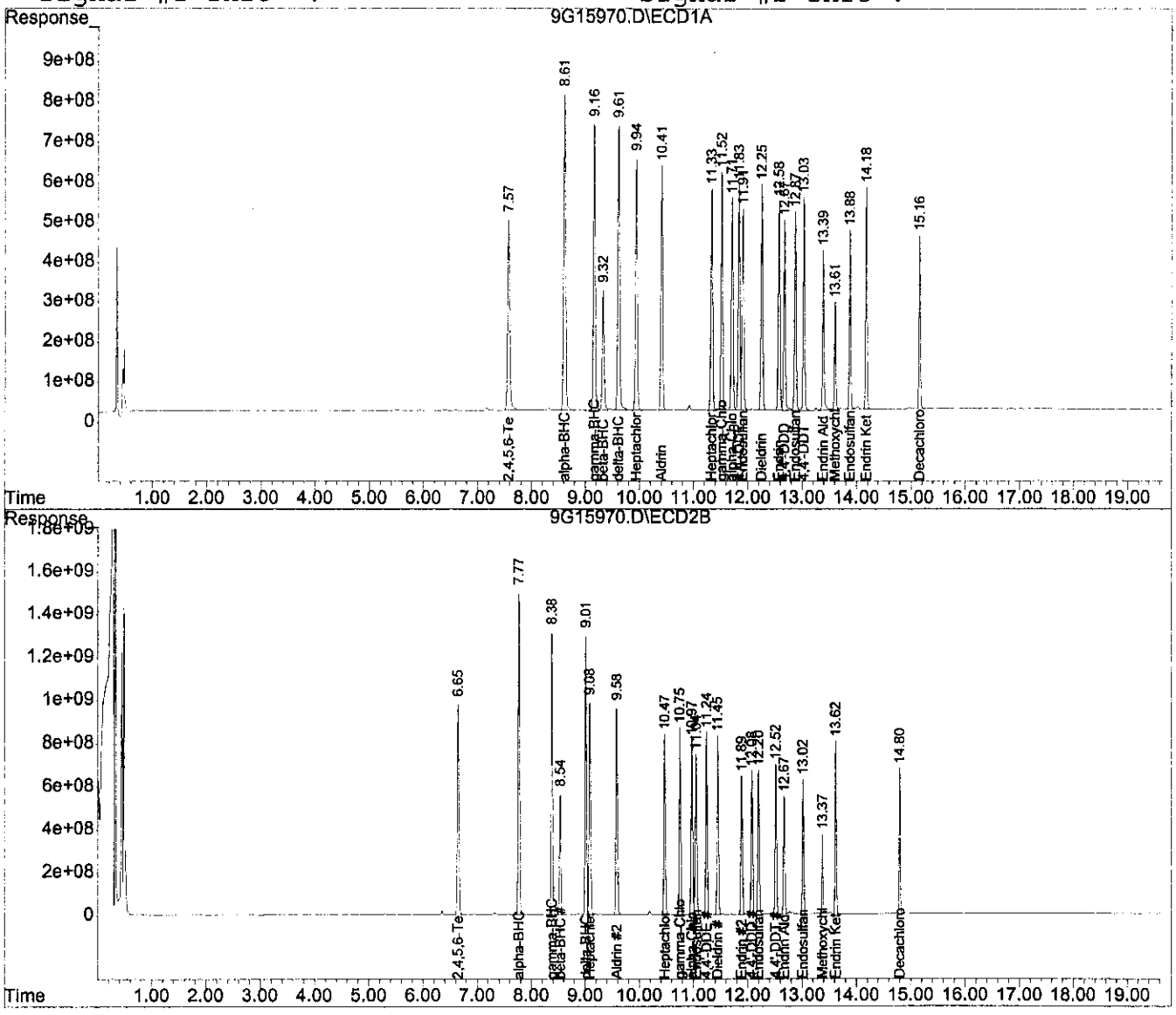
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD1A.CH Vial: 8
Acq On : 24 May 2001 11:35 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15970.D\ECD2B.CH Vial: 8
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 200 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH Vial: 9
Acq On : 24 May 2001 11:59 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH Vial: 9
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 100 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	6906.8E6	9913.0E6	97.367	94.877
	Spiked Amount 20.000	Range 13 - 154		Recovery =		486.84%#	474.38%#
22)	S Decachlorobiphen	15.16f	14.80	3744.8E6	4713.2E6	91.447	94.794
	Spiked Amount 20.000	Range 25 - 140		Recovery =		457.24%#	473.97%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	9784.5E6	14075.7E6	102.471	98.452
3)	gamma-BHC	9.16	8.38	8564.1E6	12211.1E6	99.471	98.435
4)	beta-BHC	9.32	8.54	3484.1E6	5066.9E6	91.868	93.786
5)	Heptachlor	9.94	9.08	7612.8E6	10233.4E6	97.612	96.613
6)	delta-BHC	9.61	9.01	8517.1E6	11671.5E6	103.070	100.115
7)	Aldrin	10.41	9.58	7206.9E6	9715.7E6	99.241	98.446
8)	Heptachlor Epoxi	11.33	10.47	6367.7E6	8210.3E6	96.388	97.466
9)	gamma-Chlordane	11.52	10.75	6513.3E6	8442.3E6	98.628	98.151
10)	alpha-Chlordane	11.71	10.97	5812.0E6	7897.3E6	99.733	97.372
11)	Endosulfan I	11.91	11.05	5838.9E6	7492.7E6	96.606	96.784
12)	4,4'-DDE	11.84	11.24	5968.2E6	7949.9E6	100.998	100.486
13)	Dieldrin	12.25	11.45	6175.6E6	8112.2E6	99.908	99.921
14)	Endrin	12.58	11.89	5582.4E6	6398.7E6	99.728	100.505
15)	4,4'-DDD	12.68	12.08	4965.2E6	6226.7E6	103.567	101.442
16)	Endosulfan II	12.88	12.20	5145.8E6	6546.9E6	95.211	98.602
17)	4,4'-DDT	13.03	12.52	5099.4E6	6123.4E6	99.091	103.434
18)	Endrin Aldehyde	13.39	12.67	4123.7E6	4887.8E6	93.435	98.824
19)	Endosulfan Sulfa	13.88	13.02	3848.0E6	5035.0E6	102.162	103.245
20)	Methoxychlor	13.61	13.38	2299.0E6	2704.3E6	102.778	101.013
21)	Endrin Ketone	14.18	13.62	4787.4E6	6004.6E6	99.043	101.122

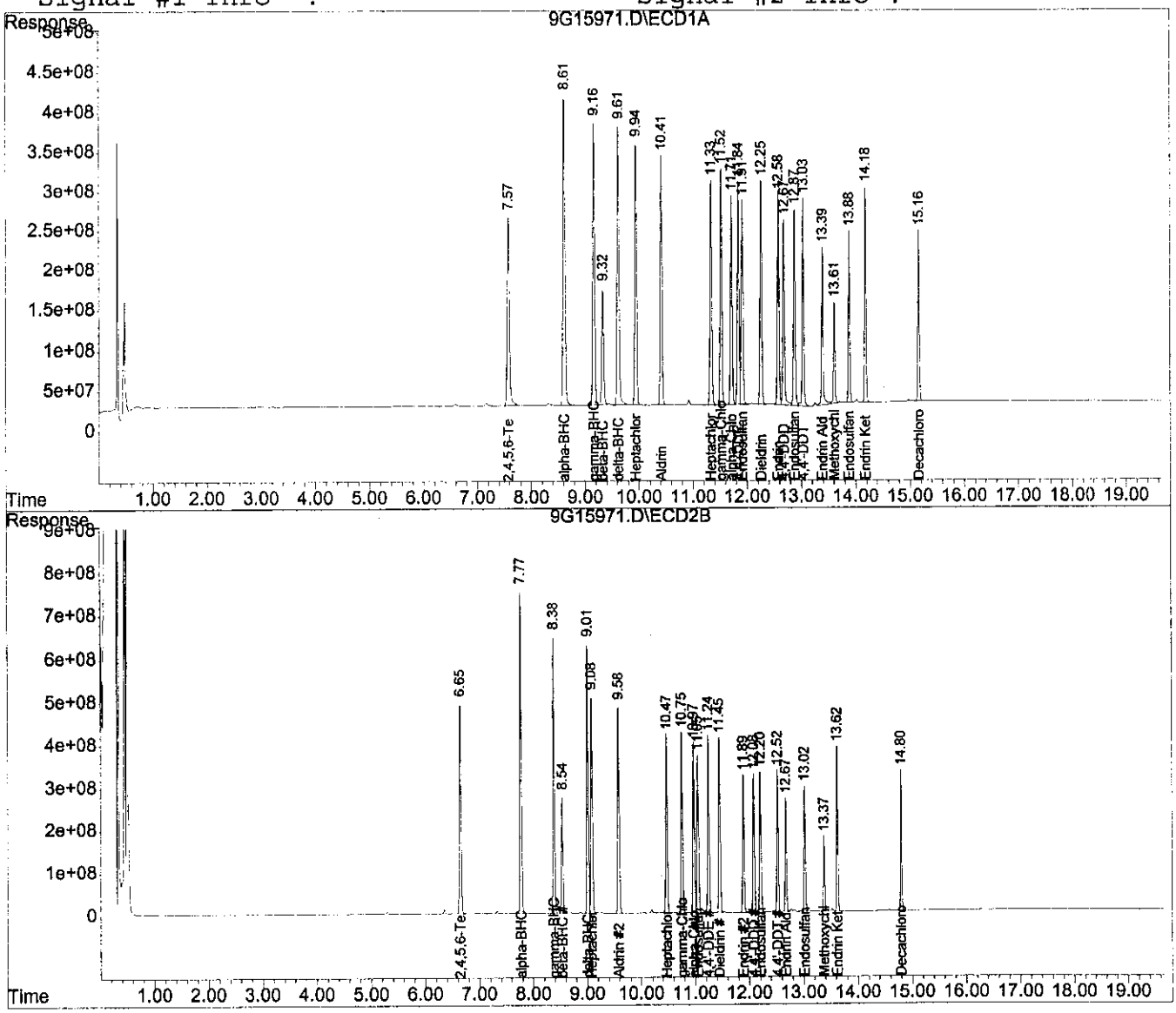
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD1A.CH   Vial: 9
Acq On    : 24 May 2001  11:59                          Operator: ECL
Sample    : PEST ICAL 100 PPB                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15971.D\ECD2B.CH   Vial: 9
Acq On    : 24 May 2001  12:23                          Operator: ECL
Sample    : PEST ICAL 100 PPB                           Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 25  8:03 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	3486.5E6	5173.6E6	49.151	49.517
	Spiked Amount 20.000	Range 13 - 154		Recovery =		245.76%#	247.59%#
22)	S Decachlorobiphen	15.16f	14.79	1951.4E6	2395.4E6	47.653	48.178
	Spiked Amount 20.000	Range 25 - 140		Recovery =		238.26%#	240.89%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4833.9E6	7229.7E6	50.624	50.568
3)	gamma-BHC	9.16	8.38	4282.8E6	6269.9E6	49.744	50.542
4)	beta-BHC	9.33	8.54	1824.9E6	2633.7E6	48.119	48.749
5)	Heptachlor	9.94	9.08	3867.8E6	5300.1E6	49.593	50.038
6)	delta-BHC	9.62	9.01	4192.2E6	5940.9E6	50.732	50.960
7)	Aldrin	10.41	9.58	3647.3E6	5010.3E6	50.224	50.767
8)	Heptachlor Epoxi	11.33	10.47	3240.8E6	4214.2E6	49.056	50.027
9)	gamma-Chlordane	11.52	10.75	3253.7E6	4303.3E6	49.269	50.031
10)	alpha-Chlordane	11.71	10.97	2894.1E6	4025.8E6	49.663	49.638
11)	Endosulfan I	11.91	11.04	2980.4E6	3851.0E6	49.312	49.743
12)	4,4'-DDE	11.84	11.24	2961.6E6	4020.4E6	50.119	50.818
13)	Dieldrin	12.26	11.45	3098.8E6	4116.4E6	50.132	50.703
14)	Endrin	12.58	11.88	2822.3E6	3195.0E6	50.420	50.183
15)	4,4'-DDD	12.68	12.08	2545.0E6	3109.8E6	53.086	50.663
16)	Endosulfan II	12.88	12.20	2655.1E6	3311.7E6	49.125	49.877
17)	4,4'-DDT	13.03	12.52	2629.0E6	3077.2E6	51.086	51.979
18)	Endrin Aldehyde	13.39	12.67	2111.8E6	2505.3E6	47.850	50.654
19)	Endosulfan Sulfa	13.88	13.02	1892.4E6	2467.5E6	50.243	50.597
20)	Methoxychlor	13.61	13.37	1095.6E6	1333.6E6	48.981	49.813
21)	Endrin Ketone	14.18	13.62	2401.8E6	2993.6E6	49.689	50.414

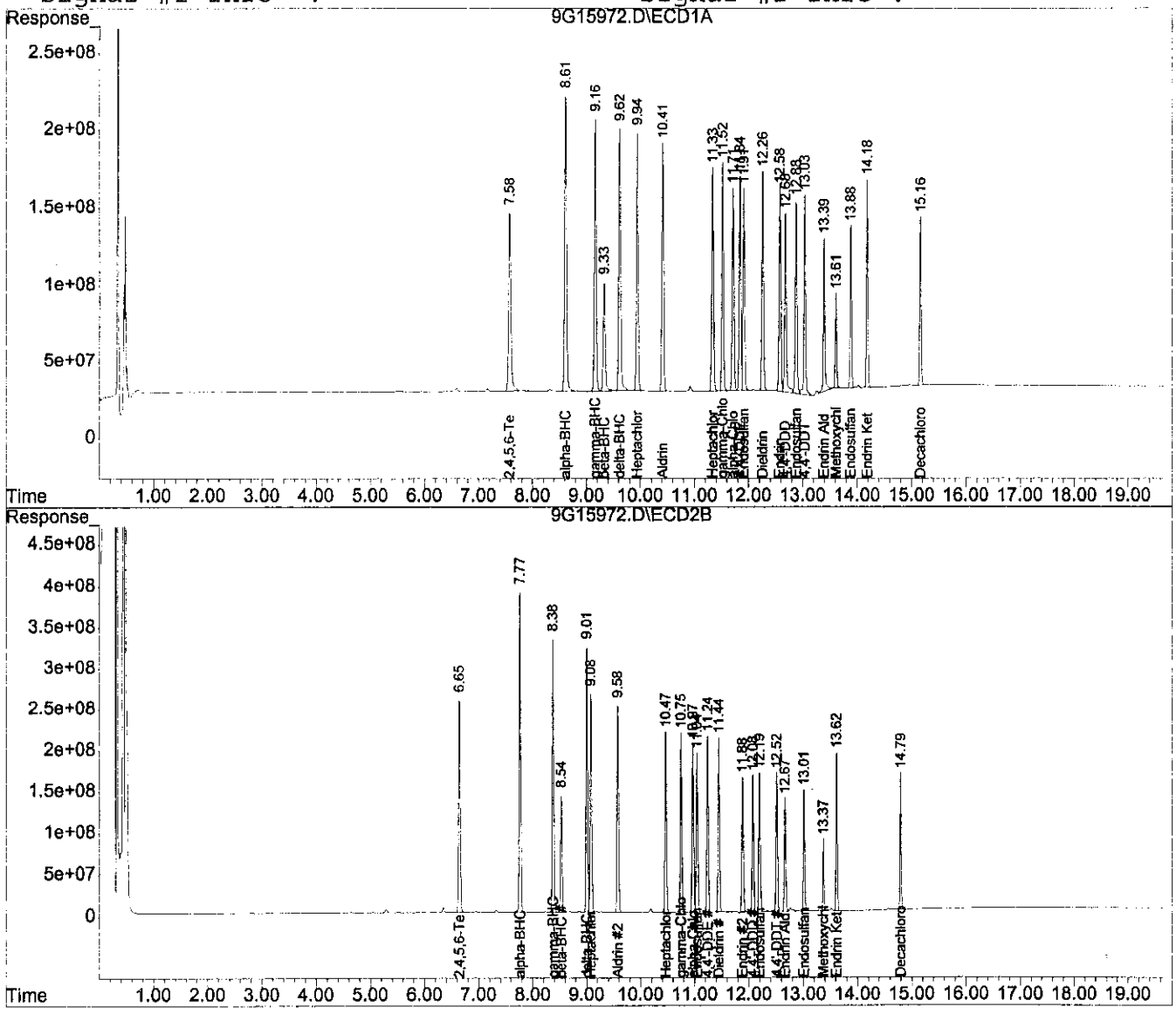
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD1A.CH Vial: 10
Acq On : 24 May 2001 12:23 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15972.D\ECD2B.CH Vial: 10
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:03 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH Vial: 11
Acq On : 24 May 2001 12:47 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH Vial: 11
Acq On : 24 May 2001 13:12 Operator: ECL
Sample : PEST ICAL 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.64	1419.0E6	2114.2E6	20.004	20.235
	Spiked Amount 20.000	Range 13 - 154		Recovery =		100.02%	101.18%
22)	S Decachlorobiphen	15.16	14.79	835.4E6	972.2E6	20.400	19.554
	Spiked Amount 20.000	Range 25 - 140		Recovery =		102.00%	97.77%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1893.4E6	2877.4E6	19.829	20.125
3)	gamma-BHC	9.16	8.38	1685.9E6	2503.4E6	19.581	20.180
4)	beta-BHC	9.32	8.53	727.4E6	1083.4E6	19.181	20.053
5)	Heptachlor	9.93	9.08	1566.3E6	2154.2E6	20.083	20.338
6)	delta-BHC	9.61	9.00	1639.9E6	2346.7E6	19.845	20.129
7)	Aldrin	10.40	9.58	1466.9E6	2004.6E6	20.199	20.312
8)	Heptachlor Epoxi	11.33	10.47	1327.3E6	1702.2E6	20.091	20.207
9)	gamma-Chlordane	11.51	10.75	1310.5E6	1714.0E6	19.844	19.927
10)	alpha-Chlordane	11.71	10.97	1212.3E6	1613.6E6	20.802	19.896
11)	Endosulfan I	11.90	11.04	1223.9E6	1553.4E6	20.250	20.065
12)	4,4'-DDE	11.83	11.24	1152.9E6	1578.5E6	19.511	19.952
13)	Dieldrin	12.25	11.44	1243.1E6	1621.3E6	20.110	19.970
14)	Endrin	12.57	11.88	1105.5E6	1254.1E6	19.749	19.699
15)	4,4'-DDD	12.67	12.08	916.3E6	1224.0E6	19.113	19.941
16)	Endosulfan II	12.87	12.19	1058.4E6	1321.5E6	19.584	19.903
17)	4,4'-DDT	13.03	12.52	1085.4E6	1149.7E6	21.091	19.420
18)	Endrin Aldehyde	13.38	12.67	917.2E6	968.5E6	20.782	19.582
19)	Endosulfan Sulfa	13.87	13.01	753.9E6	949.1E6	20.015	19.462
20)	Methoxychlor	13.61	13.37	435.9E6	521.1E6	19.488	19.467
21)	Endrin Ketone	14.17	13.62	971.5E6	1168.0E6	20.100	19.670

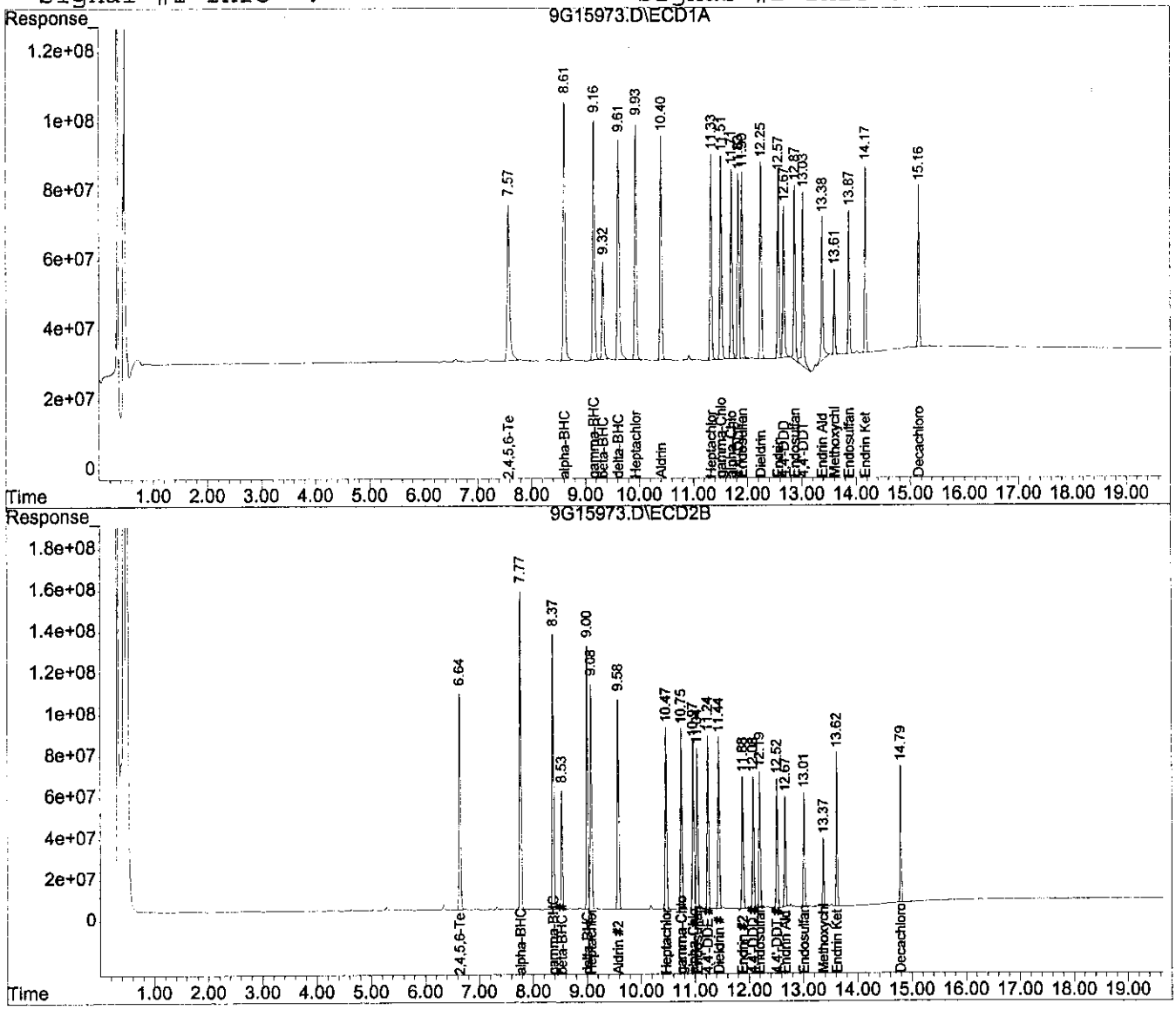
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD1A.CH   Vial: 11
Acq On    : 24 May 2001  12:47                          Operator: ECL
Sample    : PEST ICAL 20 PPB                            Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15973.D\ECD2B.CH   Vial: 11
Acq On    : 24 May 2001  13:12                          Operator: ECL
Sample    : PEST ICAL 20 PPB                            Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 25  8:04 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.      :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	745.8E6	1091.4E6	10.514	10.446
	Spiked Amount 20.000	Range 13 - 154		Recovery =		52.57%	52.23%
22)	S Decachlorobiphen	15.15	14.79	435.7E6	522.7E6	10.640	10.513
	Spiked Amount 20.000	Range 25 - 140		Recovery =		53.20%	52.56%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	974.3E6	1443.2E6	10.203	10.094
3)	gamma-BHC	9.16	8.38	866.0E6	1260.3E6	10.059	10.159
4)	beta-BHC	9.32	8.54	395.8E6	565.5E6	10.435	10.467
5)	Heptachlor	9.94	9.08	816.9E6	1095.7E6	10.474	10.345
6)	delta-BHC	9.61	9.01	844.2E6	1170.0E6	10.216	10.036
7)	Aldrin	10.41	9.58	740.7E6	1007.3E6	10.199	10.207
8)	Heptachlor Epoxi	11.33	10.47	697.4E6	870.2E6	10.557	10.330
9)	gamma-Chlordane	11.51	10.75	678.3E6	872.9E6	10.271	10.148
10)	alpha-Chlordane	11.71	10.97	614.6E6	828.9E6	10.546	10.220
11)	Endosulfan I	11.90	11.04	627.0E6	796.7E6	10.373	10.292
12)	4,4'-DDE	11.83	11.24	602.7E6	791.6E6	10.200	10.005
13)	Dieldrin	12.25	11.44	631.5E6	813.8E6	10.217	10.024
14)	Endrin	12.57	11.88	564.2E6	623.6E6	10.079	9.794
15)	4,4'-DDD	12.67	12.07	464.2E6	612.2E6	9.683	9.974
16)	Endosulfan II	12.87	12.19	542.7E6	672.5E6	10.042	10.129
17)	4,4'-DDT	13.02	12.51	528.4E6	568.0E6	10.267	9.594
18)	Endrin Aldehyde	13.38	12.66	509.5E6	496.2E6	11.544	10.032
19)	Endosulfan Sulfa	13.87	13.01	361.6E6	468.7E6	9.602	9.611
20)	Methoxychlor	13.60	13.37	225.9E6	262.1E6	10.098	9.791
21)	Endrin Ketone	14.17	13.62	481.2E6	588.6E6	9.955	9.912

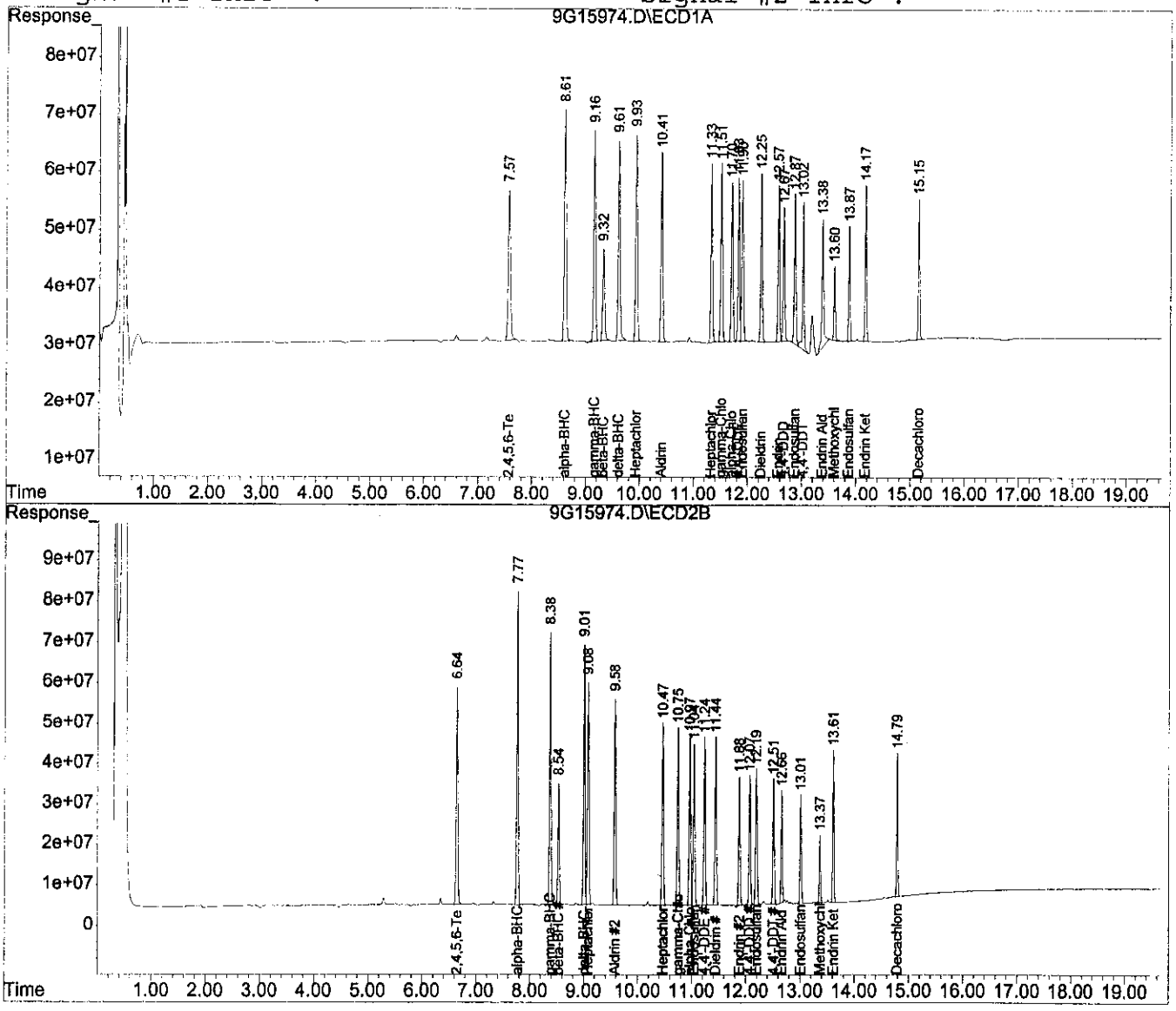
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD1A.CH Vial: 12
Acq On : 24 May 2001 16:00 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15974.D\ECD2B.CH Vial: 12
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 10 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:04 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	288.5E6	439.5E6	4.105	4.250
	Spiked Amount 20.000	Range 13 - 154		Recovery =		20.53%	21.25%
22)	S Decachlorobiphen	15.15	14.79	185.0E6	216.0E6	4.550	4.367
	Spiked Amount 20.000	Range 25 - 140		Recovery =		22.75%#	21.83%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	348.6E6	558.2E6	3.678	3.946
3)	gamma-BHC	9.16	8.38	348.2E6	482.0E6	4.097	3.925
4)	beta-BHC	9.32	8.54	176.5E6	231.9E6	4.754	4.345
5)	Heptachlor	9.94	9.08	318.0E6	432.9E6	4.149	4.114
6)	delta-BHC	9.61	9.01	292.2E6	436.4E6	3.576	3.802
7)	Aldrin	10.41	9.58	287.7E6	384.9E6	4.003	3.929
8)	Heptachlor Epoxi	11.33	10.47	275.3E6	335.3E6	4.204	4.013
9)	gamma-Chlordane	11.51	10.75	266.7E6	344.2E6	4.089	4.028
10)	alpha-Chlordane	11.70	10.97	209.2E6	331.3E6	3.647	4.123
11)	Endosulfan I	11.90	11.05	251.5E6	319.9E6	4.218	4.174
12)	4,4'-DDE	11.83	11.24	228.3E6	301.6E6	3.905	3.829
13)	Dieldrin	12.25	11.45	240.6E6	312.9E6	3.935	3.888
14)	Endrin	12.57	11.89	223.1E6	254.9E6	4.085	4.020
15)	4,4'-DDD	12.67	12.08	179.9E6	228.4E6	3.800	3.758
16)	Endosulfan II	12.87	12.20	245.3E6	264.7E6	4.588	4.034
17)	4,4'-DDT	13.02	12.52	186.4E6	214.3E6	3.590	3.642
18)	Endrin Aldehyde	13.38	12.67	176.6E6	195.6E6	4.102	3.984
19)	Endosulfan Sulfa	13.87	13.02	143.2E6	180.7E6	4.107	3.939
20)	Methoxychlor	13.60	13.37	85998587	103.4E6	4.017	3.936
21)	Endrin Ketone	14.17	13.62	193.5E6	225.8E6	4.037	3.859

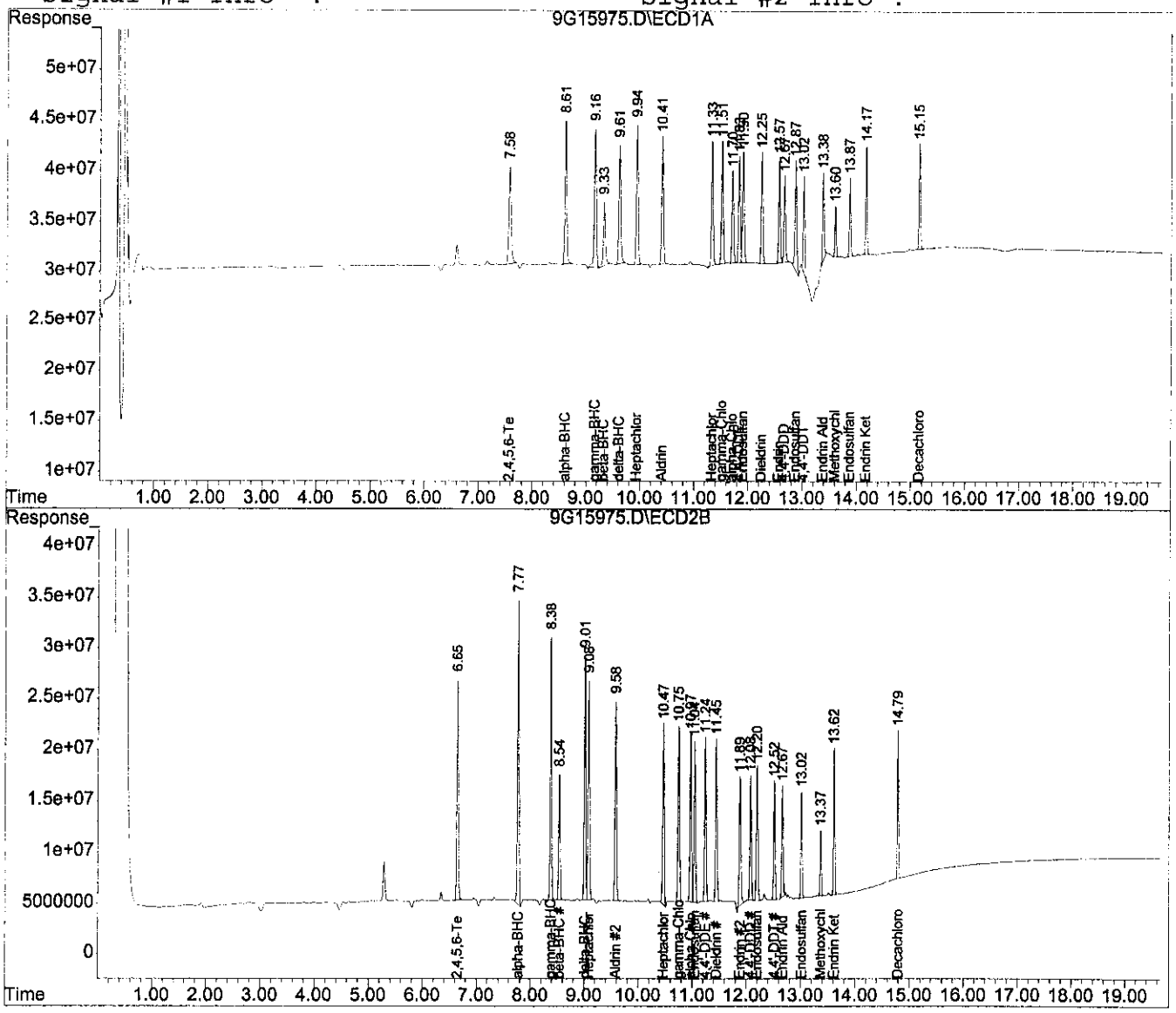
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int...

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD1A.CH Vial: 13
Acq On : 24 May 2001 16:25 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15975.D\ECD2B.CH Vial: 13
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ICAL 4 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 7:56 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Thu May 24 16:50:11 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	alpha-BHC	20.000	19.686	1.6	99	0.00
3	gamma-BHC	20.000	19.885	0.6	102	0.00
4	beta-BHC	20.000	19.710	1.4	103	0.00
5	Heptachlor	20.000	19.975	0.1	99	0.00
6	delta-BHC	20.000	19.639	1.8	99	0.00
7	Aldrin	20.000	20.072	-0.4	99	0.00
8	Heptachlor Epoxide	20.000	19.788	1.1	98	0.00
9	gamma-Chlordane	20.000	19.744	1.3	99	0.00
10	alpha-Chlordane	20.000	19.695	1.5	95	0.00
11	Endosulfan I	20.000	19.677	1.6	97	0.00
12	4,4'-DDE	20.000	19.699	1.5	101	0.00
13	Dieldrin	20.000	19.830	0.9	99	0.00
14	Endrin	20.000	18.901	5.5	96	0.00
15	4,4'-DDD	20.000	19.068	4.7	100	0.00
16	Endosulfan II	20.000	19.349	3.3	99	0.00
17	4,4'-DDT	20.000	21.513	-7.6	102	0.00
18	Endrin Aldehyde	20.000	19.676	1.6	95	0.00
19	Endosulfan Sulfate	20.000	18.415	7.9	92	0.00
20	Methoxychlor	20.000	19.600	2.0	101	0.00
21	Endrin Ketone	20.000	19.546	2.3	97	0.00
	Signal #2					
2	alpha-BHC	20.000	19.799	1.0	98	0.00
3	gamma-BHC	20.000	19.907	0.5	99	0.00
4	beta-BHC	20.000	19.766	1.2	99	0.00
5	Heptachlor	20.000	19.885	0.6	98	0.00
6	delta-BHC	20.000	19.765	1.2	98	0.00
7	Aldrin	20.000	20.131	-0.7	99	0.00
8	Heptachlor Epoxide	20.000	19.569	2.2	97	0.00
9	gamma-Chlordane	20.000	19.791	1.0	99	0.00
10	alpha-Chlordane	20.000	19.758	1.2	99	0.00
11	Endosulfan I	20.000	19.754	1.2	98	0.00
12	4,4'-DDE	20.000	19.779	1.1	99	0.00
13	Dieldrin	20.000	19.886	0.6	100	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
14	Endrin	20.000	18.799	6.0	95	0.00
15	4,4'-DDD	20.000	20.133	-0.7	101	0.00
16	Endosulfan II	20.000	19.832	0.8	100	0.00
17	4,4'-DDT	20.000	20.017	-0.1	103	0.00
18	Endrin Aldehyde	20.000	19.404	3.0	99	0.00
19	Endosulfan Sulfate	20.000	19.016	4.9	98	0.00
20	Methoxychlor	20.000	19.513	2.4	100	0.00
21	Endrin Ketone	20.000	19.588	2.1	100	0.00

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1879.7E6	2830.7E6	19.686	19.799
3)	gamma-BHC	9.16	8.38	1712.0E6	2469.5E6	19.885	19.907
4)	beta-BHC	9.33	8.54	747.5E6	1067.9E6	19.710	19.766
5)	Heptachlor	9.94	9.08	1557.9E6	2106.3E6	19.975	19.885
6)	delta-BHC	9.62	9.01	1622.9E6	2304.3E6	19.639	19.765
7)	Aldrin	10.41	9.58	1457.6E6	1986.7E6	20.072	20.131
8)	Heptachlor Epoxi	11.33	10.47	1307.3E6	1648.4E6	19.788	19.569
9)	gamma-Chlordane	11.52	10.75	1303.9E6	1702.3E6	19.744	19.791
10)	alpha-Chlordane	11.71	10.97	1147.8E6	1602.4E6	19.695	19.758
11)	Endosulfan I	11.91	11.04	1189.3E6	1529.3E6	19.677	19.754
12)	4,4'-DDE	11.83	11.24	1164.0E6	1564.8E6	19.699	19.779
13)	Dieldrin	12.25	11.45	1225.8E6	1614.4E6	19.830	19.886
14)	Endrin	12.57	11.89	1058.0E6	1196.8E6	18.901	18.799
15)	4,4'-DDD	12.67	12.08	914.1E6	1235.8E6	19.068	20.133
16)	Endosulfan II	12.87	12.20	1045.8E6	1316.8E6	19.349	19.832
17)	4,4'-DDT	13.03	12.52	1107.1E6	1185.0E6	21.513	20.017
18)	Endrin Aldehyde	13.38	12.67	868.4E6	959.7E6	19.676	19.404
19)	Endosulfan Sulfa	13.88	13.01	693.6E6	927.3E6	18.415	19.016
20)	Methoxychlor	13.61	13.37	438.4E6	522.4E6	19.600	19.513
21)	Endrin Ketone	14.17	13.62	944.8E6	1163.1E6	19.546	19.588

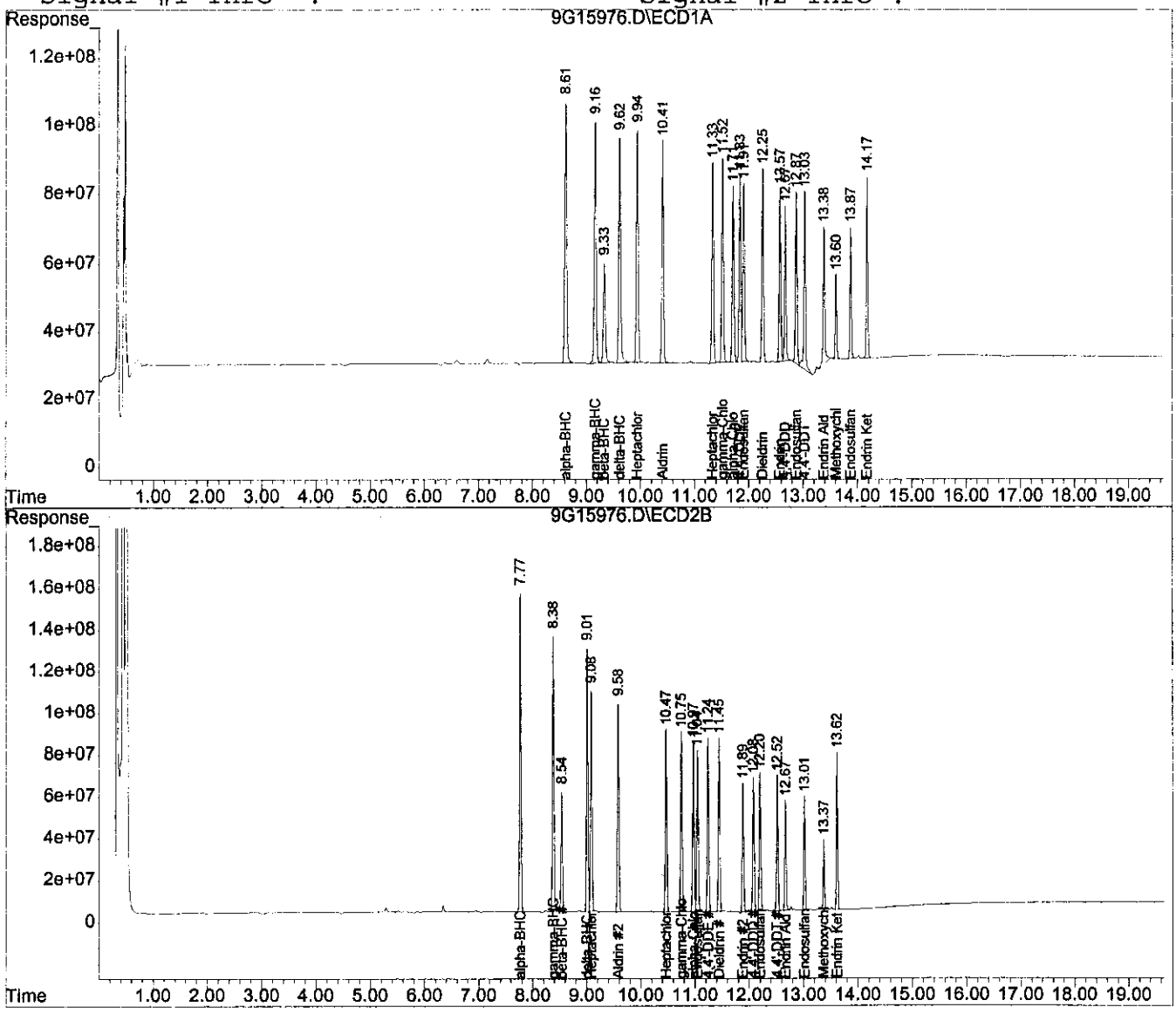
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD1A.CH Vial: 14
Acq On : 24 May 2001 16:49 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15976.D\ECD2B.CH Vial: 14
Acq On : 24 May 2001 17:13 Operator: ECL
Sample : PEST ALT ICV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 8:06 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD1A.CH Vial: 2
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD2B.CH Vial: 2
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	20.000	20.343	-1.7	102	0.00
2		alpha-BHC	20.000	19.743	1.3	100	0.00
3		gamma-BHC	20.000	19.810	1.0	101	0.00
4		beta-BHC	20.000	19.374	3.1	101	0.00
5		Heptachlor	20.000	20.066	-0.3	100	0.00
6		delta-BHC	20.000	19.761	1.2	100	0.00
7		Aldrin	20.000	20.179	-0.9	100	0.00
8		Heptachlor Epoxide	20.000	20.120	-0.6	100	0.00
9		gamma-Chlordane	20.000	19.952	0.2	101	0.00
10		alpha-Chlordane	20.000	20.992	-5.0	101	0.00
11		Endosulfan I	20.000	20.155	-0.8	100	0.00
12		4,4'-DDE	20.000	19.809	1.0	102	0.00
13		Dieldrin	20.000	20.021	-0.1	100	0.00
14		Endrin	20.000	19.588	2.1	99	0.00
15		4,4'-DDD	20.000	19.391	3.0	101	0.00
16		Endosulfan II	20.000	18.649	6.8	95	0.00
17		4,4'-DDT	20.000	18.565	7.2	88	0.00
18		Endrin Aldehyde	20.000	20.680	-3.4	100	0.00
19		Endosulfan Sulfate	20.000	18.707	6.5	93	0.00
20		Methoxychlor	20.000	19.037	4.8	98	0.00
21		Endrin Ketone	20.000	19.697	1.5	98	0.00
22	S	Decachlorobiphenyl	20.000	19.988	0.1	98	0.00
		Signal #2					
1	S	2,4,5,6-Tetrachloro-M-Xyl	20.000	20.251	-1.3	100	0.00
2		alpha-BHC	20.000	20.102	-0.5	100	0.00
3		gamma-BHC	20.000	20.049	-0.2	99	0.00
4		beta-BHC	20.000	19.975	0.1	100	0.00
5		Heptachlor	20.000	20.202	-1.0	99	0.00
6		delta-BHC	20.000	20.059	-0.3	100	0.00
7		Aldrin	20.000	20.136	-0.7	99	0.00
8		Heptachlor Epoxide	20.000	20.131	-0.7	100	0.00
9		gamma-Chlordane	20.000	19.882	0.6	100	0.00
10		alpha-Chlordane	20.000	19.864	0.7	100	0.00

(#) = Out of Range
9G16021.D 8081.M Fri May 25 13:25:38 2001 Page 1
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Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD1A.CH Vial: 2
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD2B.CH Vial: 2
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	20.000	20.015	-0.1	100	0.00
12		4,4'-DDE	20.000	19.899	0.5	100	0.00
13		Dieldrin	20.000	19.876	0.6	100	0.00
14		Endrin	20.000	19.615	1.9	100	0.00
15		4,4'-DDD	20.000	19.914	0.4	100	0.00
16		Endosulfan II	20.000	19.806	1.0	100	0.00
17		4,4'-DDT	20.000	19.472	2.6	100	0.00
18		Endrin Aldehyde	20.000	20.103	-0.5	103	0.00
19		Endosulfan Sulfate	20.000	19.409	3.0	100	0.00
20		Methoxychlor	20.000	19.242	3.8	99	0.00
21		Endrin Ketone	20.000	19.723	1.4	100	0.00
22	S	Decachlorobiphenyl	20.000	19.646	1.8	100	0.00

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD1A.CH Vial: 2
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD2B.CH Vial: 2
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 13:19 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.65	1443.0E6	2115.9E6	20.343	20.251
	Spiked Amount 20.000	Range 13 - 154		Recovery =		101.72%	101.26%
22)	S Decachlorobiphen	15.15	14.79	818.5E6	976.8E6	19.988	19.646
	Spiked Amount 20.000	Range 25 - 140		Recovery =		99.94%	98.23%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	1885.2E6	2874.0E6	19.743	20.102
3)	gamma-BHC	9.16	8.38	1705.6E6	2487.1E6	19.810	20.049
4)	beta-BHC	9.32	8.54	734.7E6	1079.2E6	19.374	19.975
5)	Heptachlor	9.94	9.08	1565.0E6	2139.8E6	20.066	20.202
6)	delta-BHC	9.61	9.01	1632.9E6	2338.6E6	19.761	20.059
7)	Aldrin	10.41	9.58	1465.4E6	1987.2E6	20.179	20.136
8)	Heptachlor Epoxi	11.33	10.47	1329.2E6	1695.8E6	20.120	20.131
9)	gamma-Chlordane	11.51	10.75	1317.6E6	1710.2E6	19.952	19.882
10)	alpha-Chlordane	11.71	10.97	1223.3E6	1611.0E6	20.992	19.864
11)	Endosulfan I	11.90	11.04	1218.2E6	1549.5E6	20.155	20.015
12)	4,4'-DDE	11.83	11.24	1170.5E6	1574.3E6	19.809	19.899
13)	Dieldrin	12.25	11.44	1237.6E6	1613.6E6	20.021	19.876
14)	Endrin	12.57	11.88	1096.5E6	1248.8E6	19.588	19.615
15)	4,4'-DDD	12.67	12.08	929.6E6	1222.3E6	19.391	19.914
16)	Endosulfan II	12.87	12.19	1007.9E6	1315.1E6	18.649	19.806
17)	4,4'-DDT	13.02	12.52	955.4E6	1152.8E6	18.565	19.472
18)	Endrin Aldehyde	13.38	12.67	912.7E6	994.3E6	20.680	20.103
19)	Endosulfan Sulfa	13.87	13.01	704.6E6	946.5E6	18.707	19.409
20)	Methoxychlor	13.60	13.37	425.8E6	515.1E6	19.037	19.242
21)	Endrin Ketone	14.17	13.62	952.1E6	1171.1E6	19.697	19.723

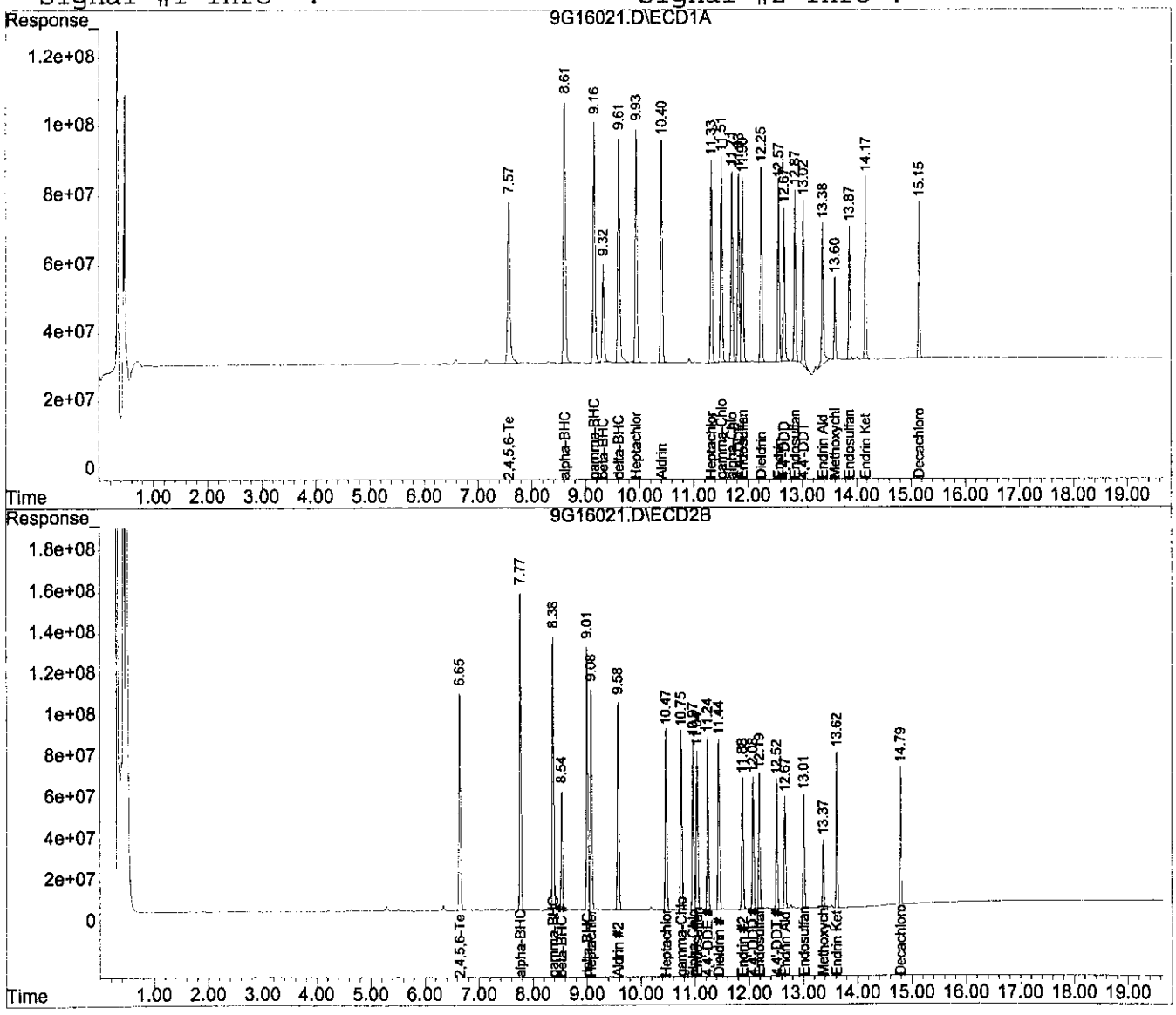
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD1A.CH Vial: 2
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16021.D\ECD2B.CH Vial: 2
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 13:19 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD1A.CH Vial: 3
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD2B.CH Vial: 3
Acq On : 25 May 2001 13:24 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	515.022	-3.0	104	0.00
2	L1	TOXAPHENE-2	500.000	526.225	-5.2	102	0.00
3	L1	TOXAPHENE-3	500.000	509.729	-1.9	102	0.00
4	L1	TOXAPHENE-4	500.000	504.683	-0.9	101	0.00
5	L1	TOXAPHENE-5	500.000	513.912	-2.8	103	0.00
		Signal #2					
1	L1	TOXAPHENE-1	500.000	519.514	-3.9	101	0.00
2	L1	TOXAPHENE-2	500.000	506.649	-1.3	102	0.00
3	L1	TOXAPHENE-3	500.000	501.797	-0.4	101	0.00
4	L1	TOXAPHENE-4	500.000	505.131	-1.0	101	0.00
5	L1	TOXAPHENE-5	500.000	504.054	-0.8	102	0.00

Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD1A.CH Vial: 3
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD2B.CH Vial: 3
Acq On : 25 May 2001 13:24 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 13:49 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	231.1E6	1115.6E6	515.022	519.514
2)	L1 TOXAPHENE-2	13.28	12.68	260.9E6	759.9E6	526.225	506.649
3)	L1 TOXAPHENE-3	13.76	13.29	551.7E6	721.7E6	509.729	501.797
4)	L1 TOXAPHENE-4	13.95	13.36	255.1E6	467.7E6	504.683	505.131
5)	L1 TOXAPHENE-5	14.15	13.72	537.9E6	320.2E6	513.912	504.054
	Sum TOXAPHENE-1			1836.7E6	3385.1E6	2569.571	2537.145
Average	TOXAPHENE-1					513.914	507.429

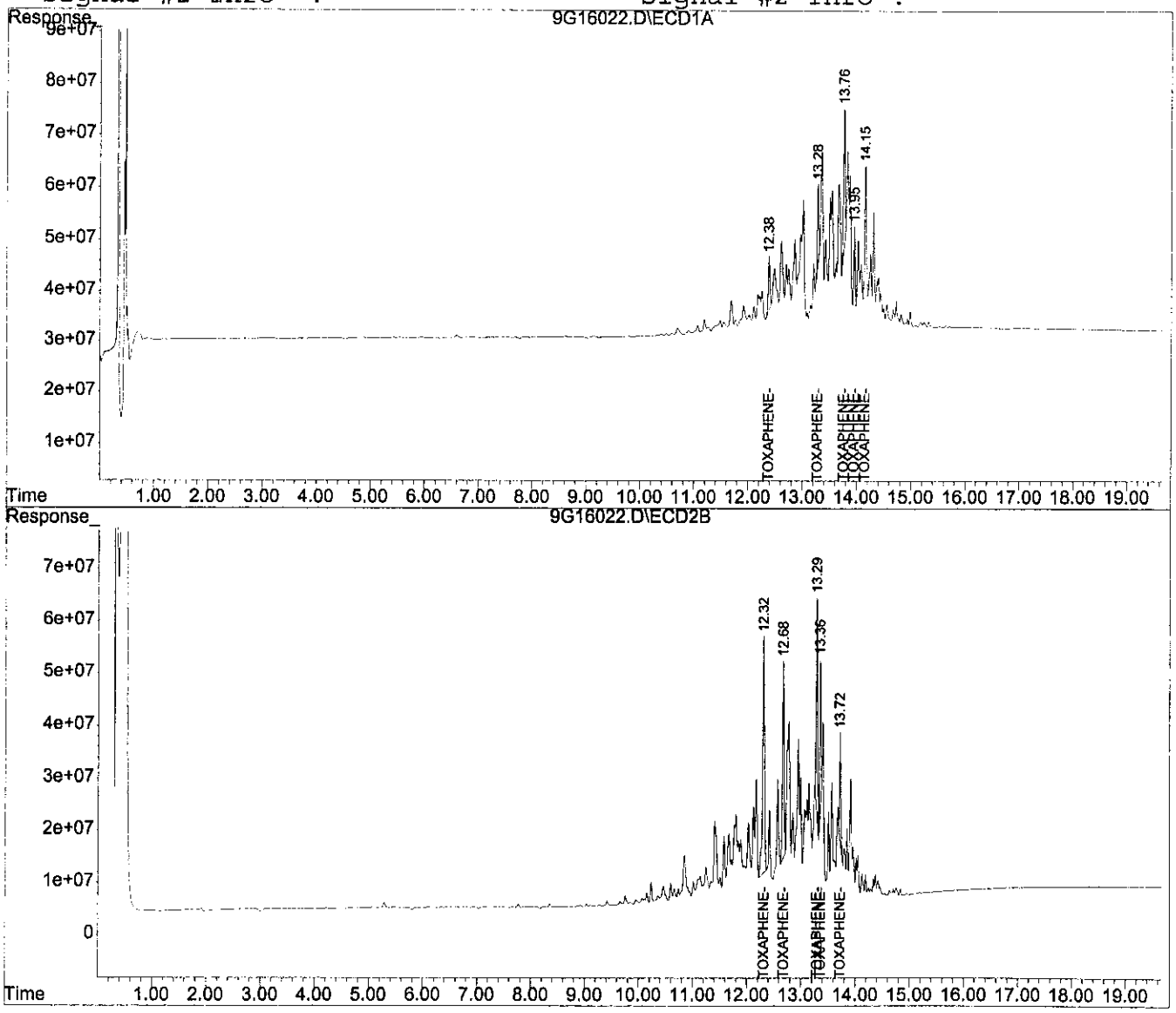
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
9G16022.D TOX.M Fri May 25 13:49:39 2001 Page 17

Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD1A.CH Vial: 3
Acq On : 25 May 2001 12:59 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16022.D\ECD2B.CH Vial: 3
Acq On : 25 May 2001 13:24 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 13:49 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16033.D\ECD1A.CH Vial: 14
Acq On : 25 May 2001 17:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16033.D\ECD2B.CH Vial: 14
Acq On : 25 May 2001 18:16 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:10 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	3546.2E6	5252.7E6	49.991	50.274
	Spiked Amount 20.000	Range 13 - 154		Recovery =		249.96%#	251.37%#
22)	S Decachlorobiphen	15.16	14.80	1958.1E6	2396.2E6	47.817	48.193
	Spiked Amount 20.000	Range 25 - 140		Recovery =		239.08%#	240.97%#
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4908.7E6	7356.8E6	51.408	51.457
3)	gamma-BHC	9.16	8.38	4356.8E6	6343.6E6	50.604	51.136
4)	beta-BHC	9.32	8.54	1852.9E6	2664.1E6	48.856	49.312
5)	Heptachlor	9.94	9.08	3917.5E6	5369.4E6	50.230	50.692
6)	delta-BHC	9.61	9.01	4242.9E6	6039.1E6	51.345	51.801
7)	Aldrin	10.41	9.58	3689.5E6	5061.3E6	50.805	51.284
8)	Heptachlor Epoxi	11.33	10.47	3281.6E6	4281.1E6	49.673	50.822
9)	gamma-Chlordane	11.52	10.75	3302.1E6	4339.1E6	50.001	50.446
10)	alpha-Chlordane	11.71	10.97	3026.0E6	4060.1E6	51.926	50.061
11)	Endosulfan I	11.91	11.04	3006.9E6	3879.0E6	49.750	50.105
12)	4,4'-DDE	11.84	11.24	3014.1E6	4052.2E6	51.007	51.220
13)	Dieldrin	12.25	11.45	3108.9E6	4149.5E6	50.296	51.111
14)	Endrin	12.58	11.89	2828.4E6	3260.7E6	50.528	51.216
15)	4,4'-DDD	12.68	12.08	2604.8E6	3144.1E6	54.333	51.221
16)	Endosulfan II	12.87	12.20	2697.4E6	3341.1E6	49.909	50.319
17)	4,4'-DDT	13.03	12.52	2841.0E6	3070.8E6	55.206	51.871
18)	Endrin Aldehyde	13.39	12.67	2109.1E6	2558.7E6	47.789	51.734
19)	Endosulfan Sulfa	13.88	13.02	1883.8E6	2517.8E6	50.015	51.628
20)	Methoxychlor	13.61	13.37	1096.1E6	1374.0E6	49.004	51.322
21)	Endrin Ketone	14.18	13.62	2416.8E6	3038.2E6	50.001	51.165

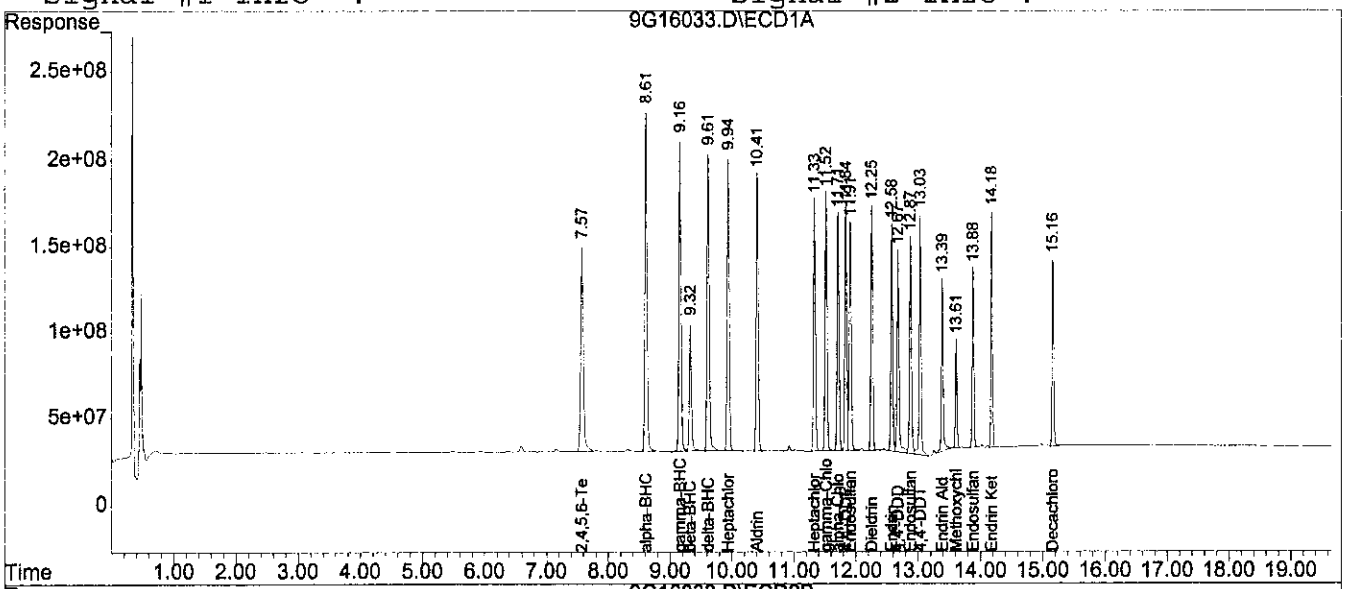
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16033.D\ECD1A.CH Vial: 14
Acq On : 25 May 2001 17:52 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16033.D\ECD2B.CH Vial: 14
Acq On : 25 May 2001 18:16 Operator: ECL
Sample : PEST CCV 50 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:10 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16034.D\ECD1A.CH Vial: 15
Acq On : 25 May 2001 18:16 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16034.D\ECD2B.CH Vial: 15
Acq On : 25 May 2001 18:40 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 7:10 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	Target Compounds						
1)	L1 TOXAPHENE-1	12.38	12.32	114.2E6	546.1E6	254.431	254.298
2)	L1 TOXAPHENE-2	13.28	12.68	124.6E6	357.5E6	251.388	238.342
3)	L1 TOXAPHENE-3	13.76	13.29	264.4E6	339.9E6	244.271	236.364
4)	L1 TOXAPHENE-4	13.95	13.36	121.8E6	218.5E6	240.896	236.015
5)	L1 TOXAPHENE-5	14.15	13.72	248.3E6	153.5E6	237.225	241.674
	Sum TOXAPHENE-1			873.2E6	1615.5E6	1228.211	1206.693
Average	TOXAPHENE-1					245.642	241.339

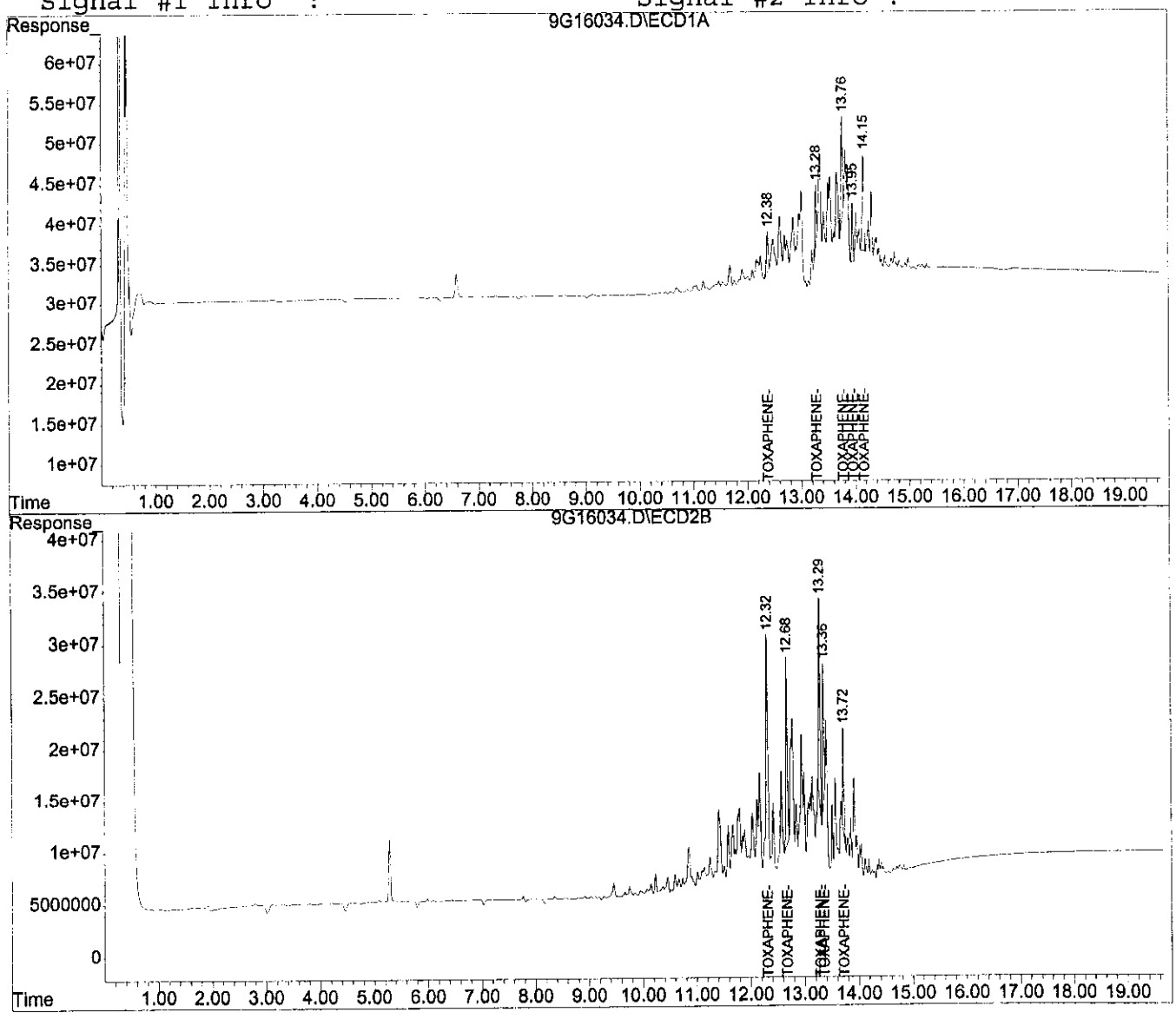
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16034.D\ECD1A.CH Vial: 15
Acq On : 25 May 2001 18:16 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16034.D\ECD2B.CH Vial: 15
Acq On : 25 May 2001 18:40 Operator: ECL
Sample : TOX CCV 0.25 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 7:10 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD1A.CH Vial: 26
Acq On : 25 May 2001 22:42 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD2B.CH Vial: 26
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	2,4,5,6-Tetrachloro-M-Xylen	20.000	20.009	-0.0	100	0.00
2		alpha-BHC	20.000	19.383	3.1	98	0.00
3		gamma-BHC	20.000	19.390	3.0	99	0.00
4		beta-BHC	20.000	18.957	5.2	99	0.00
5		Heptachlor	20.000	19.373	3.1	96	0.00
6		delta-BHC	20.000	19.582	2.1	99	0.00
7		Aldrin	20.000	19.544	2.3	97	0.00
8		Heptachlor Epoxide	20.000	19.441	2.8	97	0.00
9		gamma-Chlordane	20.000	19.205	4.0	97	0.00
10		alpha-Chlordane	20.000	18.967	5.2	91	0.00
11		Endosulfan I	20.000	19.390	3.0	96	0.00
12		4,4'-DDE	20.000	19.290	3.6	99	0.00
13		Dieldrin	20.000	19.189	4.1	95	0.00
14		Endrin	20.000	19.275	3.6	98	0.00
15		4,4'-DDD	20.000	18.723	6.4	98	0.00
16		Endosulfan II	20.000	18.937	5.3	97	0.00
17		4,4'-DDT	20.000	20.781	-3.9	99	0.00
18		Endrin Aldehyde	20.000	21.442	-7.2	103	0.00
19		Endosulfan Sulfate	20.000	20.396	-2.0	102	0.00
20		Methoxychlor	20.000	19.393	3.0	100	0.00
21		Endrin Ketone	20.000	19.707	1.5	98	0.00
22	S	Decachlorobiphenyl	20.000	20.285	-1.4	99	0.00

Signal #2

1	S	2,4,5,6-Tetrachloro-M-Xyl	20.000	20.454	-2.3	101	0.00
2		alpha-BHC	20.000	20.155	-0.8	100	0.00
3		gamma-BHC	20.000	19.972	0.1	99	0.00
4		beta-BHC	20.000	19.852	0.7	99	0.00
5		Heptachlor	20.000	20.231	-1.2	99	0.00
6		delta-BHC	20.000	20.256	-1.3	101	0.00
7		Aldrin	20.000	19.882	0.6	98	0.00
8		Heptachlor Epoxide	20.000	19.494	2.5	96	0.00
9		gamma-Chlordane	20.000	19.630	1.9	99	0.00
10		alpha-Chlordane	20.000	19.645	1.8	99	0.00

(#) = Out of Range
9G16045.D 8081.M Tue May 29 07:12:10 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD1A.CH Vial: 26
Acq On : 25 May 2001 22:42 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD2B.CH Vial: 26
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.01min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
11		Endosulfan I	20.000	19.768	1.2	99	0.00
12		4,4'-DDE	20.000	19.629	1.9	98	0.00
13		Dieldrin	20.000	19.621	1.9	98	0.00
14		Endrin	20.000	20.017	-0.1	102	0.00
15		4,4'-DDD	20.000	19.765	1.2	99	0.00
16		Endosulfan II	20.000	19.636	1.8	99	0.00
17		4,4'-DDT	20.000	19.611	1.9	101	0.00
18		Endrin Aldehyde	20.000	20.075	-0.4	103	0.00
19		Endosulfan Sulfate	20.000	20.571	-2.9	106	0.00
20		Methoxychlor	20.000	19.589	2.1	101	0.00
21		Endrin Ketone	20.000	19.733	1.3	100	0.00
22	S	Decachlorobiphenyl	20.000	19.484	2.6	100	0.00

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD1A.CH Vial: 26
Acq On : 25 May 2001 22:42 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD2B.CH Vial: 26
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:11 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.64	1419.3E6	2137.1E6	20.009	20.454
	Spiked Amount 20.000	Range 13 - 154		Recovery =		100.05%	102.27%
22)	S Decachlorobiphen	15.16	14.79	830.7E6	968.7E6	20.285	19.484
	Spiked Amount 20.000	Range 25 - 140		Recovery =		101.43%	97.42%
	Target Compounds						
2)	alpha-BHC	8.62	7.77	1850.8E6	2881.6E6	19.383	20.155
3)	gamma-BHC	9.16	8.38	1669.4E6	2477.6E6	19.390	19.972
4)	beta-BHC	9.33	8.54	719.0E6	1072.5E6	18.957	19.852
5)	Heptachlor	9.94	9.08	1510.9E6	2142.9E6	19.373	20.231
6)	delta-BHC	9.62	9.01	1618.1E6	2361.5E6	19.582	20.256
7)	Aldrin	10.41	9.58	1419.3E6	1962.2E6	19.544	19.882
8)	Heptachlor Epoxi	11.33	10.47	1284.4E6	1642.1E6	19.441	19.494
9)	gamma-Chlordane	11.52	10.75	1268.3E6	1688.5E6	19.205	19.630
10)	alpha-Chlordane	11.71	10.97	1105.3E6	1593.3E6	18.967	19.645
11)	Endosulfan I	11.91	11.04	1171.9E6	1530.4E6	19.390	19.768
12)	4,4'-DDE	11.84	11.24	1139.9E6	1552.9E6	19.290	19.629
13)	Dieldrin	12.26	11.45	1186.1E6	1592.9E6	19.189	19.621
14)	Endrin	12.58	11.88	1079.0E6	1274.4E6	19.275	20.017
15)	4,4'-DDD	12.68	12.08	897.6E6	1213.2E6	18.723	19.765
16)	Endosulfan II	12.88	12.20	1023.5E6	1303.8E6	18.937	19.636
17)	4,4'-DDT	13.03	12.52	1069.4E6	1161.0E6	20.781	19.611
18)	Endrin Aldehyde	13.39	12.67	946.3E6	992.9E6	21.442	20.075
19)	Endosulfan Sulfa	13.88	13.01	768.2E6	1003.2E6	20.396	20.571
20)	Methoxychlor	13.61	13.37	433.8E6	524.4E6	19.393	19.589
21)	Endrin Ketone	14.18	13.62	952.6E6	1171.7E6	19.707	19.733

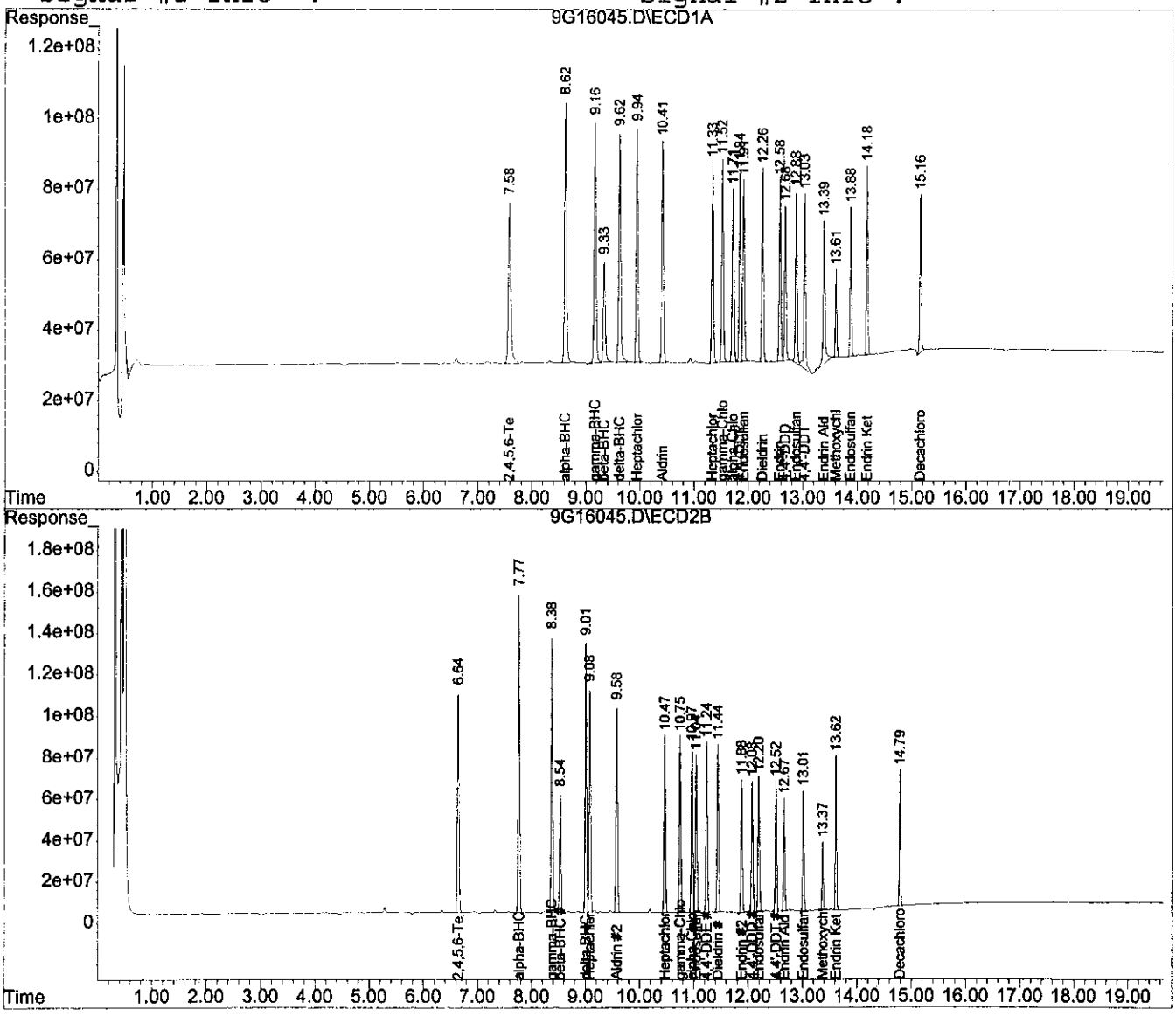
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD1A.CH Vial: 26
Acq On : 25 May 2001 22:42 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16045.D\ECD2B.CH Vial: 26
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : PEST CCV 20 PPB Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:11 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD1A.CH Vial: 27
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD2B.CH Vial: 27
Acq On : 25 May 2001 23:30 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	L1	TOXAPHENE-1	500.000	499.239	0.2	101	0.00
2	L1	TOXAPHENE-2	500.000	503.368	-0.7	98	0.00
3	L1	TOXAPHENE-3	500.000	488.918	2.2	98	0.00
4	L1	TOXAPHENE-4	500.000	514.599	-2.9	103	0.00
5	L1	TOXAPHENE-5	500.000	502.377	-0.5	101	0.00
		Signal #2					
1	L1	TOXAPHENE-1	500.000	522.015	-4.4	102	-0.01
2	L1	TOXAPHENE-2	500.000	513.630	-2.7	103	0.00
3	L1	TOXAPHENE-3	500.000	522.020	-4.4	105	0.00
4	L1	TOXAPHENE-4	500.000	483.106	3.4	97	0.00
5	L1	TOXAPHENE-5	500.000	497.096	0.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
9G16046.D TOX.M Tue May 29 07:11:35 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD1A.CH Vial: 27
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD2B.CH Vial: 27
Acq On : 25 May 2001 23:30 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 7:11 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
Target Compounds						
1) L1 TOXAPHENE-1	12.38	12.31	224.1E6	1121.0E6	499.239	522.015
2) L1 TOXAPHENE-2	13.28	12.67	249.6E6	770.4E6	503.368	513.630
3) L1 TOXAPHENE-3	13.76	13.29	529.1E6	750.7E6	488.918	522.020
4) L1 TOXAPHENE-4	13.95	13.35	260.1E6	447.3E6	514.599	483.106
5) L1 TOXAPHENE-5	14.15	13.72	525.8E6	315.8E6	502.377	497.096
Sum TOXAPHENE-1			1788.7E6	3405.2E6	2508.503	2537.868
Average TOXAPHENE-1					501.701	507.574

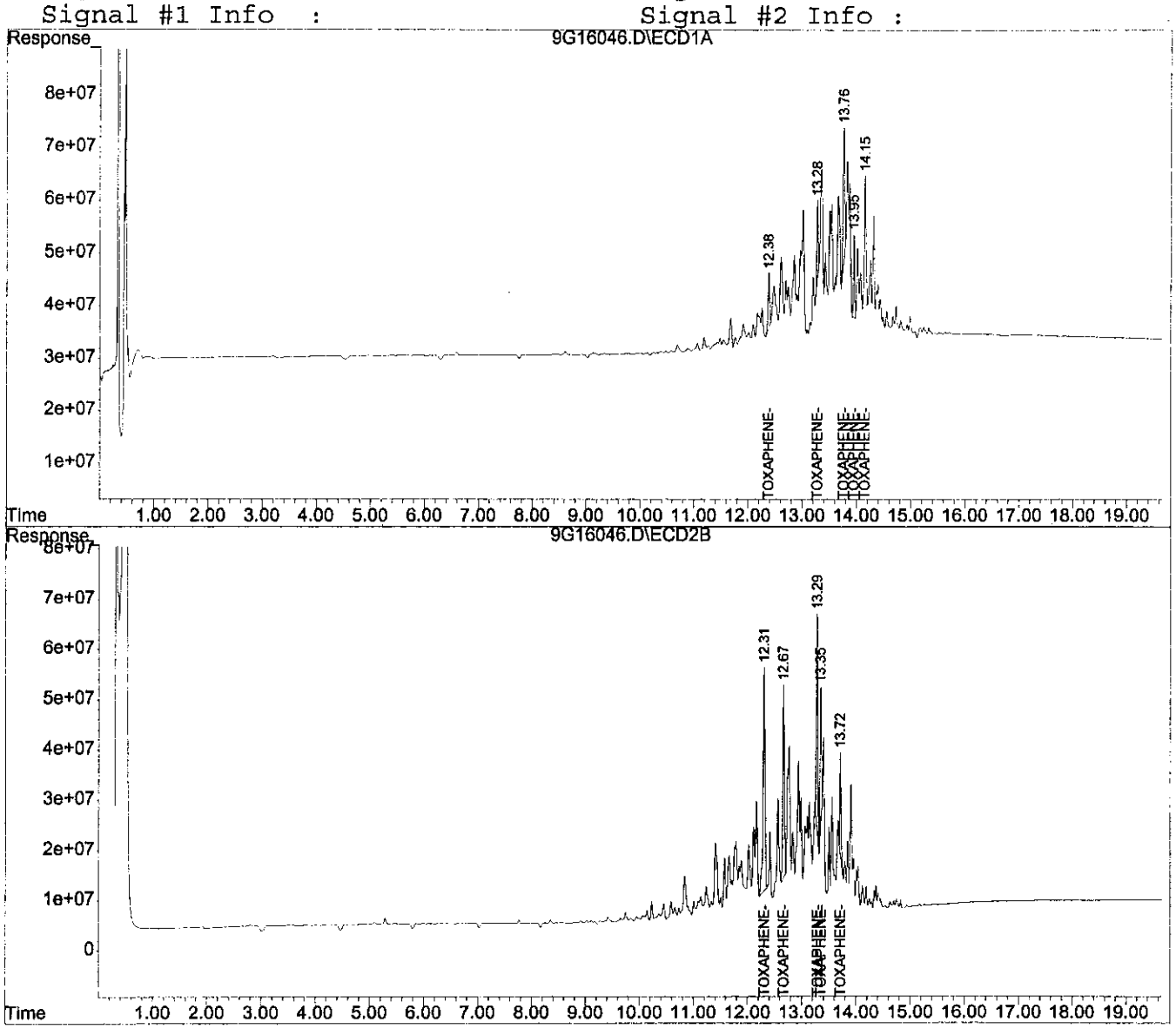
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD1A.CH Vial: 27
Acq On : 25 May 2001 23:06 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : .E

Data File : C:\HPCHEM\1\DATA\052501\9G16046.D\ECD2B.CH Vial: 27
Acq On : 25 May 2001 23:30 Operator: ECL
Sample : TOX CCV 0.5 PPM Inst : HP9
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 7:11 2001 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Thu May 24 11:42:32 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



2.2.2.4 Raw QC Data

ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G15963.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2585294072	77869714	63717816	5.19 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2300440563	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G15963.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3210508651	42204375	89737368	3.95 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2810999852	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1) S	2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22) S	Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.57	11.89	2585.3E6	3210.5E6	51.368	51.587
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.02	12.52	2300.4E6	2811.0E6	51.355	47.906
18)	Endrin Aldehyde	13.38	12.67	77869714	42204375	2.054	0.856 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.17	13.62	63717816	89737368	1.370	1.597

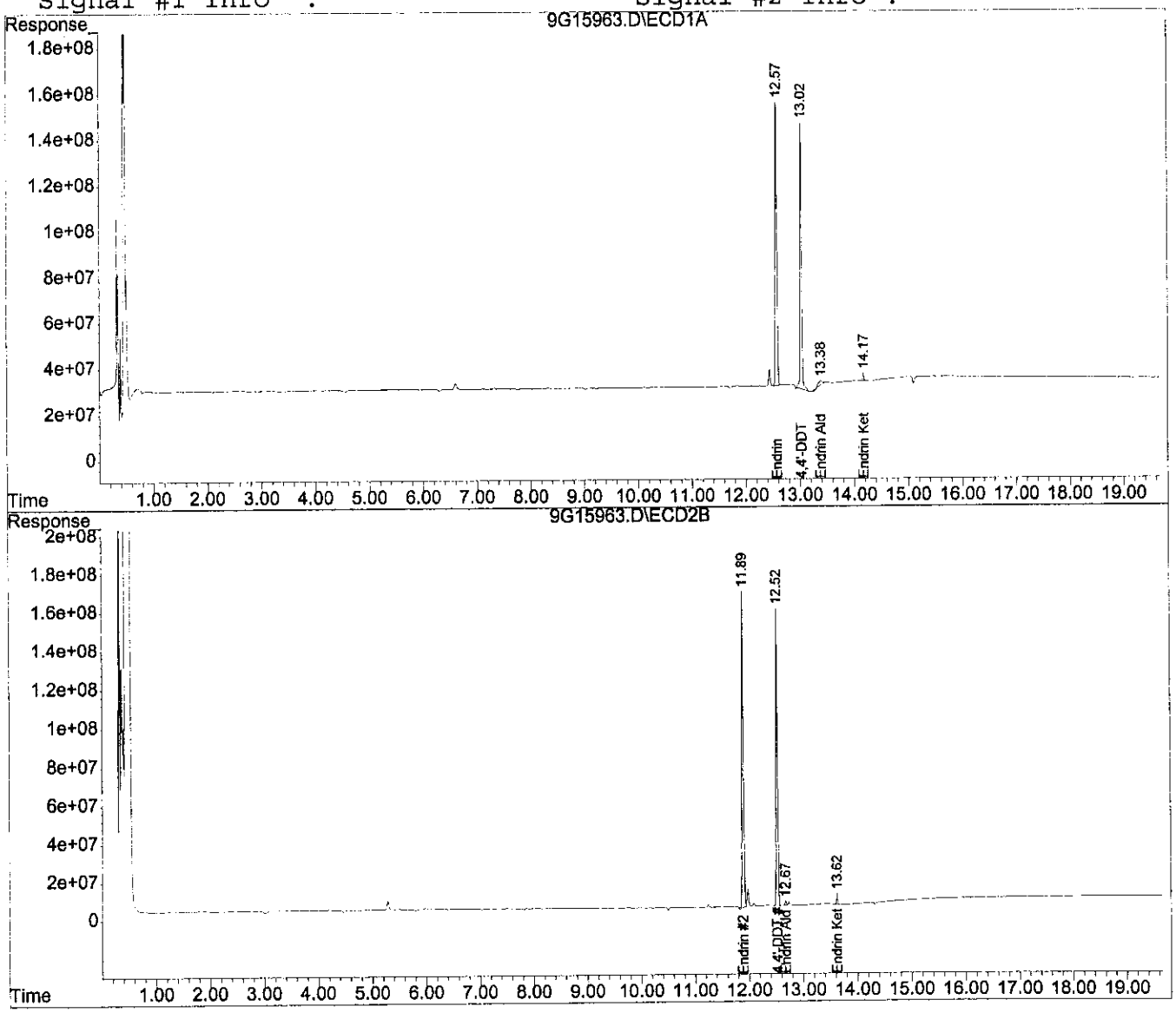
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD1A.CH Vial: 1
Acq On : 24 May 2001 8:46 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052401\9G15963.D\ECD2B.CH Vial: 1
Acq On : 24 May 2001 9:10 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 24 9:31 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 22, 2001
Last Update : Wed May 23 08:10:56 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16020.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2846780568	52976959.85	92094687	4.85 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2325700238	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16020.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3211481899	63222144	111114433	5.15 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2822388278	0	33685184	1.18 %

Data File : C:\HPCHEM\1\DATA\052501\9G16020.D\ECD1A.CH Vial: 1
Acq On : 25 May 2001 12:11 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16020.D\ECD2B.CH Vial: 1
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 13:08 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	13 - 154	Recovery	=	0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range	25 - 140	Recovery	=	0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.56	11.88	2846.8E6	3211.5E6	50.857	50.443
15)	4,4'-DDD	0.00	12.07	0	33685184	N.D.	0.549 #
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.02	12.51	2325.7E6	2822.4E6	45.193	47.675
18)	Endrin Aldehyde	13.37	12.66	52976960	63222144	1.200	1.278
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.16	13.61	92094687	111.1E6	1.905	1.871

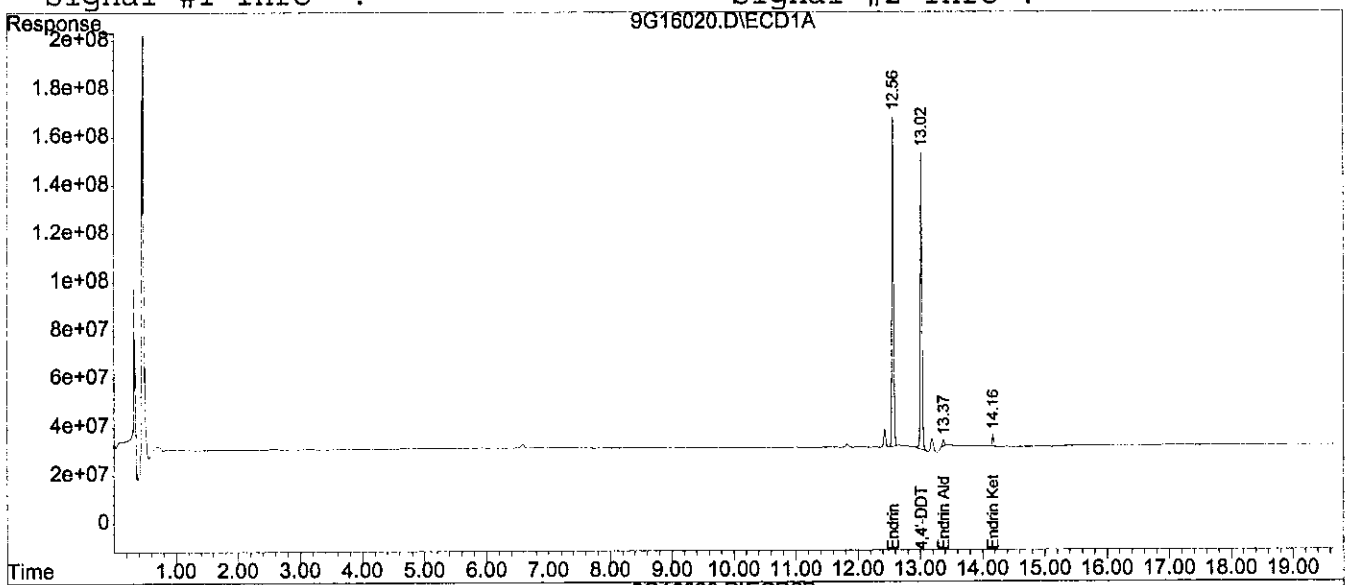
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

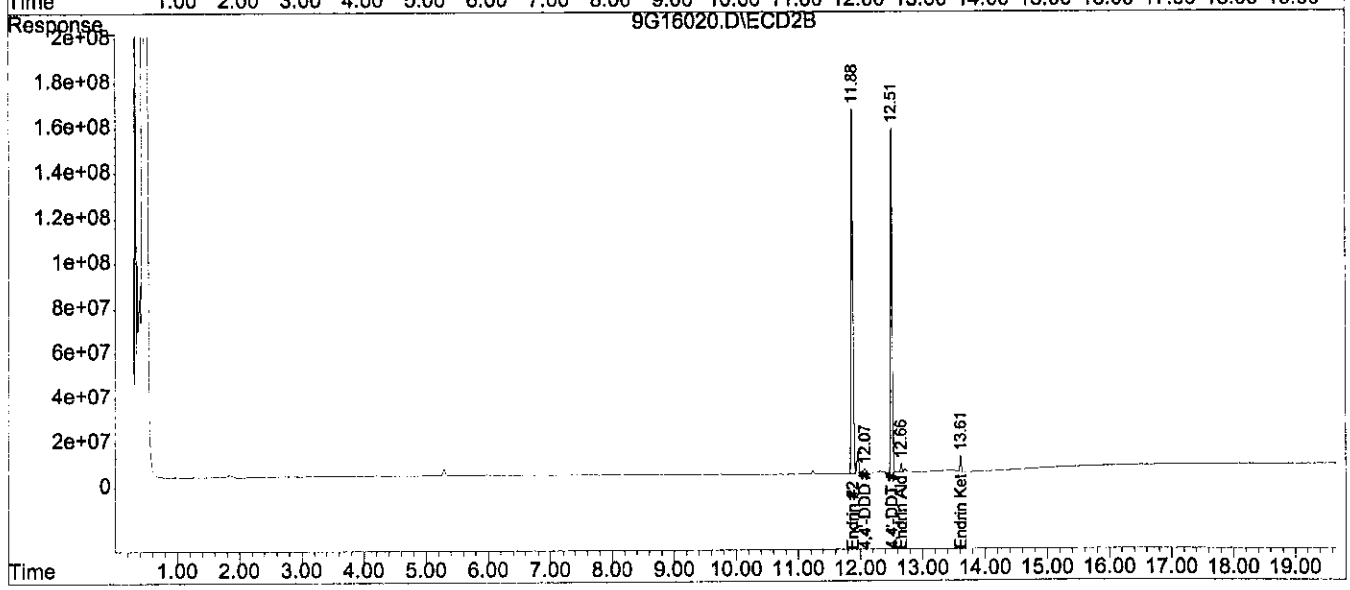
Data File : C:\HPCHEM\1\DATA\052501\9G16020.D\ECD1A.CH Vial: 1
Acq On : 25 May 2001 12:11 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16020.D\ECD2B.CH Vial: 1
Acq On : 25 May 2001 12:35 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 25 13:08 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16032.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2763066520	117843208	87892622	6.93 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2273407774	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16032.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3228711694	65499617	111017249	5.18 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2828414245	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052501\9G16032.D\ECD1A.CH Vial: 13
Acq On : 25 May 2001 17:28 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16032.D\ECD2B.CH Vial: 13
Acq On : 25 May 2001 17:52 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:09 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.58	11.89	2763.1E6	3228.7E6	49.361	50.713
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.03	12.52	2273.4E6	2828.4E6	44.177	47.777
18)	Endrin Aldehyde	13.39	12.67	117.8E6	65499617	2.670	1.324 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.18	13.62	87892622	111.0E6	1.818	1.870

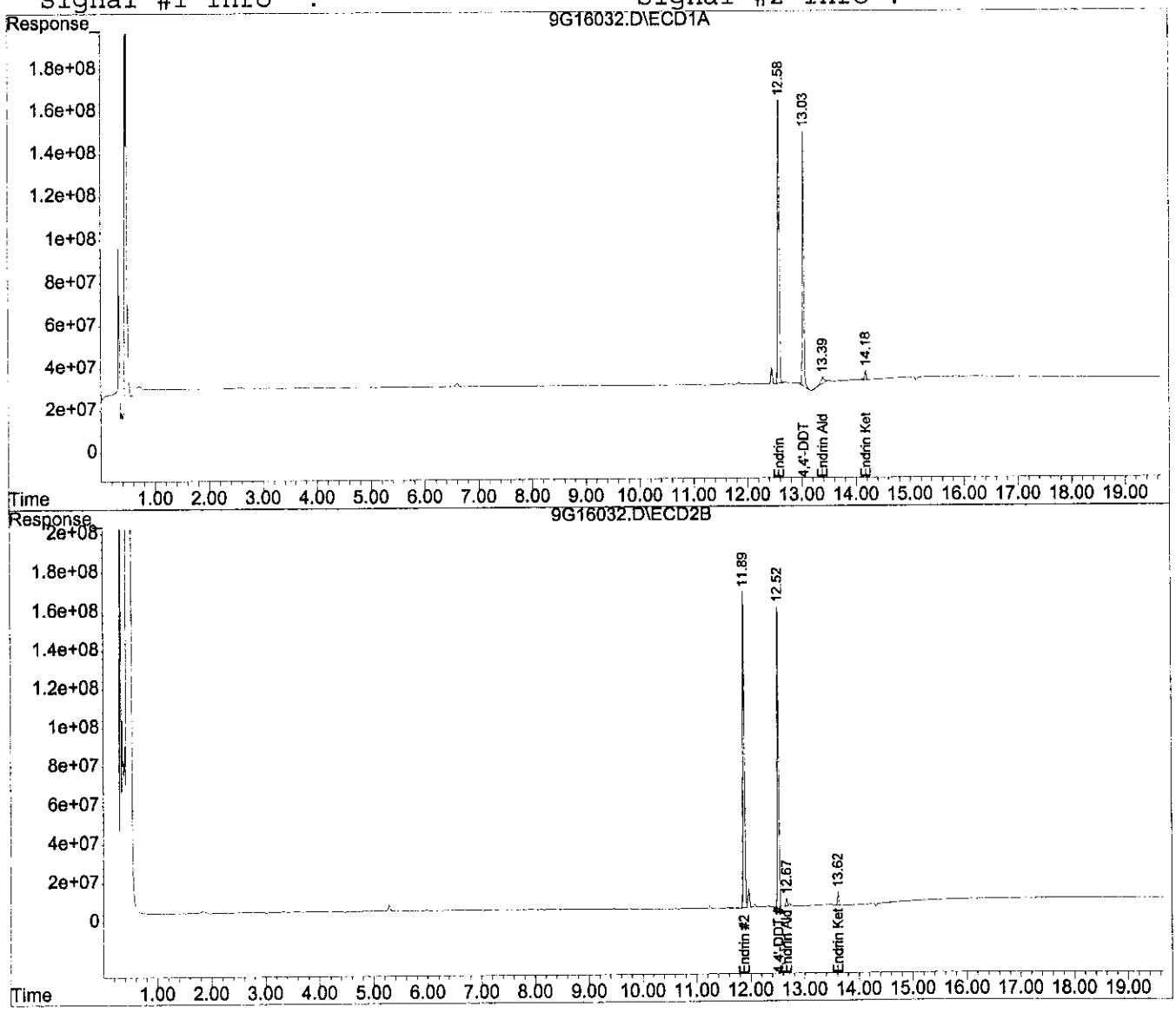
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16032.D\ECD1A.CH Vial: 13
Acq On : 25 May 2001 17:28 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16032.D\ECD2B.CH Vial: 13
Acq On : 25 May 2001 17:52 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:09 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16044.D\ECD1A.CH Vial: 25
Acq On : 25 May 2001 22:18 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16044.D\ECD2B.CH Vial: 25
Acq On : 25 May 2001 22:42 Operator: ECL
Sample : ENDRIN/DDT Inst : HP9
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 29 7:12 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 13 - 154		Recovery =		0.00%#	0.00%#
22)	S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 20.000	Range 25 - 140		Recovery =		0.00%#	0.00%#
	Target Compounds						
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.
9)	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
14)	Endrin	12.56	11.88	2726.4E6	3319.0E6	48.706	52.131
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.
17)	4,4'-DDT	13.02	12.52	2294.9E6	2853.0E6	44.594	48.193
18)	Endrin Aldehyde	13.37	12.67	5730232	53621871	0.130	1.084 #
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	Endrin Ketone	14.16	13.62	68987267	105.3E6	1.427	1.773

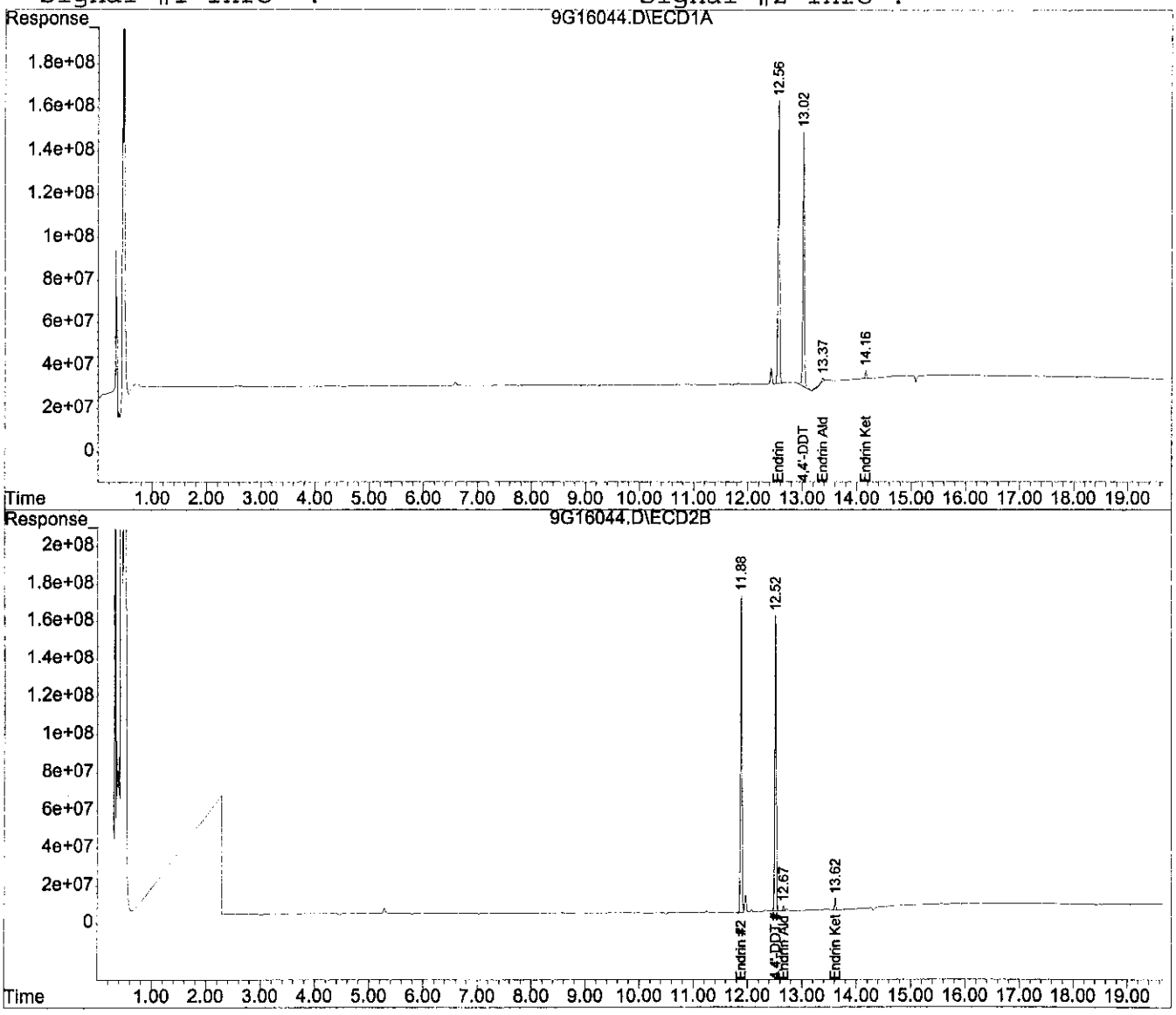
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

```
Data File : C:\HPCHEM\1\DATA\052501\9G16044.D\ECD1A.CH   Vial: 25
Acq On    : 25 May 2001  22:18                          Operator: ECL
Sample    : ENDRIN/DDT                                  Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16044.D\ECD2B.CH   Vial: 25
Acq On    : 25 May 2001  22:42                          Operator: ECL
Sample    : ENDRIN/DDT                                  Inst    : HP9
Misc      :                                             Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 29  7:12 2001  Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title        : CALIBRATION May 24, 2001
Last Update  : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



ENDRIN/ 4-4' DDT BREAKDOWN

INSTRUMENT: HP 9

COLUMN: RTx-CLP (FRONT)

Data File Name: 9G16044.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
2726419520	5730232	68987267	2.67 %

4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
2294851296	0	0	0.00 %

COLUMN: RTx-CLP II (REAR)

Data File Name: 9G16044.D

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3318985506	53621871	105298651	4.57 %

4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
2853042760	0	0	0.00 %

Data File : C:\HPCHEM\1\DATA\052501\9G16023.D\ECD1A.CH Vial: 4
Acq On : 25 May 2001 13:50 Operator: ECL
Sample : WG98040-02 BLANK V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16023.D\ECD2B.CH Vial: 4
Acq On : 25 May 2001 14:14 Operator: ECL
Sample : WG98040-02 BLANK V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:16 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.58	6.65	1215.1E6	1787.8E6	17.130	17.111	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		85.65%	85.56%	
22)	S Decachlorobiphen	15.16	14.79	744.5E6	988.0E6	18.180	19.871	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		90.90%	99.35%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	68941712	0	0.345	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	13.38	0.00	86674735	0	0.648	N.D.	#
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

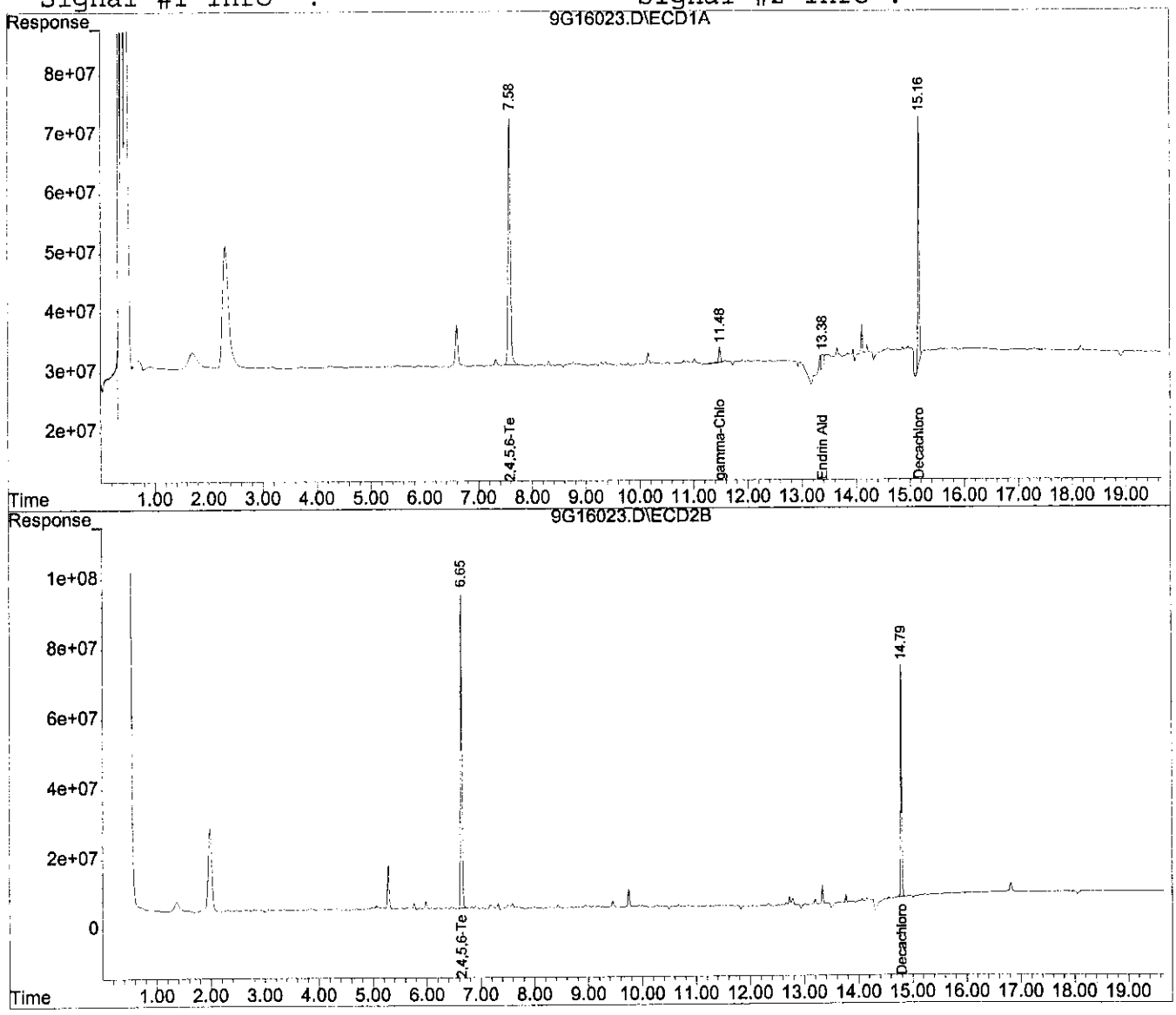
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16023.D\ECD1A.CH Vial: 4
Acq On : 25 May 2001 13:50 Operator: ECL
Sample : WG98040-02 BLANK V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16023.D\ECD2B.CH Vial: 4
Acq On : 25 May 2001 14:14 Operator: ECL
Sample : WG98040-02 BLANK V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:16 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16030.D\ECD1A.CH Vial: 11
Acq On : 25 May 2001 16:39 Operator: ECL
Sample : WG98007-02 BLANK V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16030.D\ECD2B.CH Vial: 11
Acq On : 25 May 2001 17:04 Operator: ECL
Sample : WG98007-02 BLANK V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1) S	2,4,5,6-Tetrachl	7.58	6.64	554.5E6	718.5E6	7.818	6.877	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		39.09%	34.38%	
22) S	Decachlorobiphen	15.16	14.79	619.7E6	767.0E6	15.134	15.426	
	Spiked Amount 20.000	Range 25 - 140		Recovery =		75.67%	77.13%	
	Target Compounds							
2)	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.	
3)	gamma-BHC	0.00	0.00	0	0	N.D.	N.D.	
4)	beta-BHC	0.00	0.00	0	0	N.D.	N.D.	
5)	Heptachlor	0.00	0.00	0	0	N.D.	N.D.	
6)	delta-BHC	0.00	0.00	0	0	N.D.	N.D.	
7)	Aldrin	0.00	0.00	0	0	N.D.	N.D.	
8)	Heptachlor Epoxi	0.00	0.00	0	0	N.D.	N.D.	
9)	gamma-Chlordane	11.48f	0.00	47882451	0	0.007	N.D.	#
10)	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.	
11)	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.	
12)	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.	
13)	Dieldrin	0.00	0.00	0	0	N.D.	N.D.	
14)	Endrin	0.00	0.00	0	0	N.D.	N.D.	
15)	4,4'-DDD	0.00	0.00	0	0	N.D.	N.D.	
16)	Endosulfan II	0.00	0.00	0	0	N.D.	N.D.	
17)	4,4'-DDT	0.00	0.00	0	0	N.D.	N.D.	
18)	Endrin Aldehyde	0.00	0.00	0	0	N.D.	N.D.	
19)	Endosulfan Sulfa	0.00	0.00	0	0	N.D.	N.D.	
20)	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.	
21)	Endrin Ketone	0.00	0.00	0	0	N.D.	N.D.	

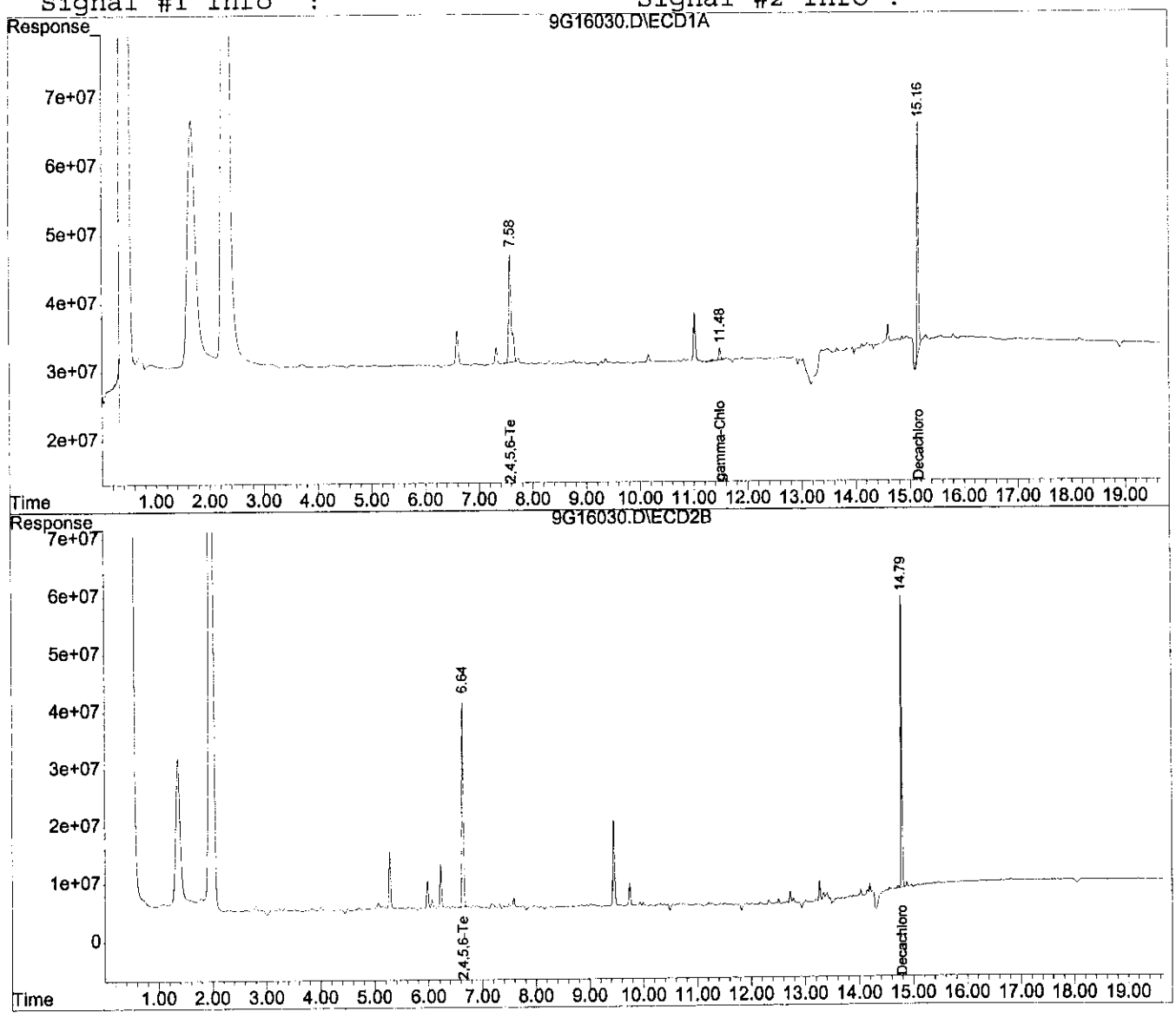
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16030.D\ECD1A.CH Vial: 11
Acq On : 25 May 2001 16:39 Operator: ECL
Sample : WG98007-02 BLANK V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16030.D\ECD2B.CH Vial: 11
Acq On : 25 May 2001 17:04 Operator: ECL
Sample : WG98007-02 BLANK V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16024.D\ECD1A.CH Vial: 5
Acq On : 25 May 2001 14:14 Operator: ECL
Sample : WG98040-03 LCS V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16024.D\ECD2B.CH Vial: 5
Acq On : 25 May 2001 14:38 Operator: ECL
Sample : WG98040-03 LCS V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:17 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L	
	System Monitoring Compounds							
1)	S 2,4,5,6-Tetrachl	7.58	6.64	1376.2E6	2123.3E6	19.401	20.322	
	Spiked Amount 20.000	Range 13 - 154		Recovery =		97.00%	101.61%	
22)	S Decachlorobiphen	15.16f	14.79	734.8E6	1151.5E6	17.945	23.159	#
	Spiked Amount 20.000	Range 25 - 140		Recovery =		89.72%	115.80%	
	Target Compounds							
2)	alpha-BHC	8.61	7.77	5009.1E6	7511.5E6	17.311	17.338	
3)	gamma-BHC	9.16	8.37	4623.9E6	6499.4E6	17.723	17.290	
4)	beta-BHC	9.32	8.53	1971.8E6	2768.8E6	17.158	16.912	
5)	Heptachlor	9.94	9.08	4173.7E6	5709.7E6	17.660	17.789	
6)	delta-BHC	9.61	9.00	4312.4E6	6374.3E6	17.222	18.043	
7)	Aldrin	10.41	9.58	3754.6E6	5067.6E6	17.062	16.945	
8)	Heptachlor Epoxi	11.33	10.46	3633.1E6	4609.3E6	18.148	18.057	
9)	gamma-Chlordane	11.52	10.75	3699.2E6	4718.8E6	18.485	18.104	
10)	alpha-Chlordane	11.71	10.96	3221.4E6	4446.6E6	18.242	18.093	
11)	Endosulfan I	11.91	11.04	2512.5E6	3250.3E6	13.718	13.855	
12)	4,4'-DDE	11.84	11.23	3428.3E6	4478.5E6	19.146	18.681	
13)	Dieldrin	12.25	11.44	3527.7E6	4563.7E6	18.833	18.550	
14)	Endrin	12.58	11.88	3236.0E6	3738.4E6	19.077	19.377	
15)	4,4'-DDD	12.67	12.07	2901.9E6	3552.0E6	19.975	19.096	
16)	Endosulfan II	12.88	12.19	2023.3E6	2506.5E6	12.354	12.458	
17)	4,4'-DDT	13.03	12.51	3008.1E6	3387.6E6	19.290	18.883	
18)	Endrin Aldehyde	13.39	12.66	1366.7E6	1519.1E6	10.219	10.136	
19)	Endosulfan Sulfa	13.88	13.01	1459.6E6	1783.1E6	12.788	12.066	
20)	Methoxychlor	13.61	13.37	1318.1E6	1600.2E6	19.446	19.725	
21)	Endrin Ketone	14.18	13.61	1905.4E6	2330.9E6	13.009	12.954	

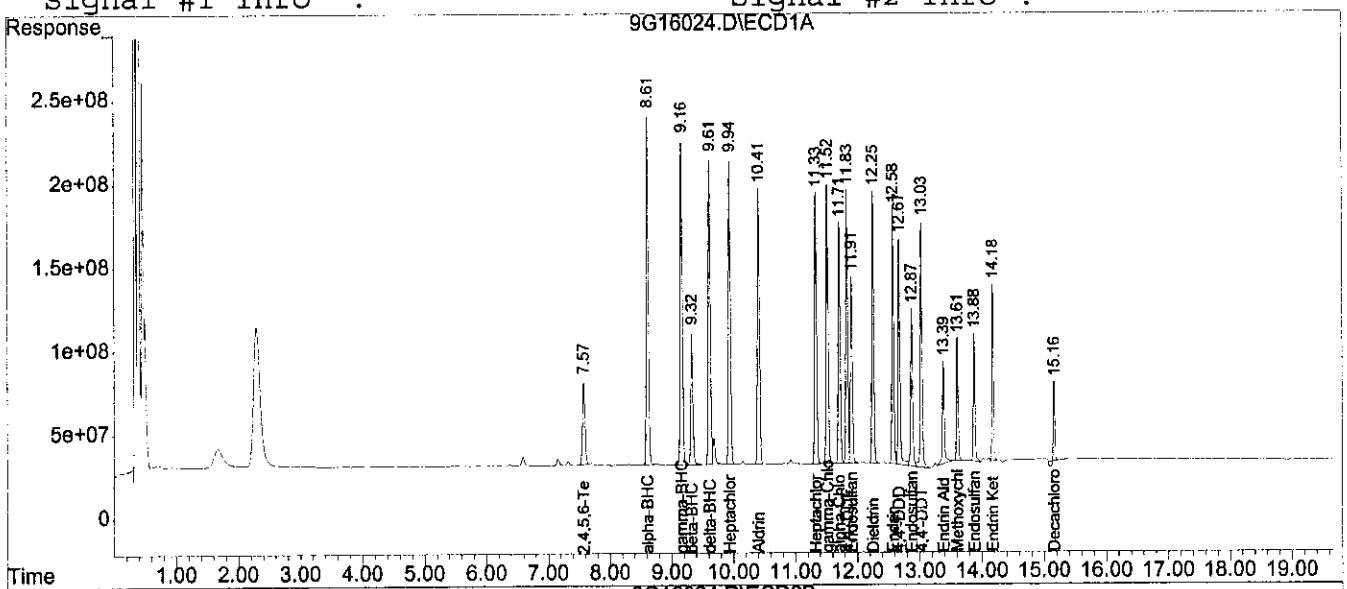
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

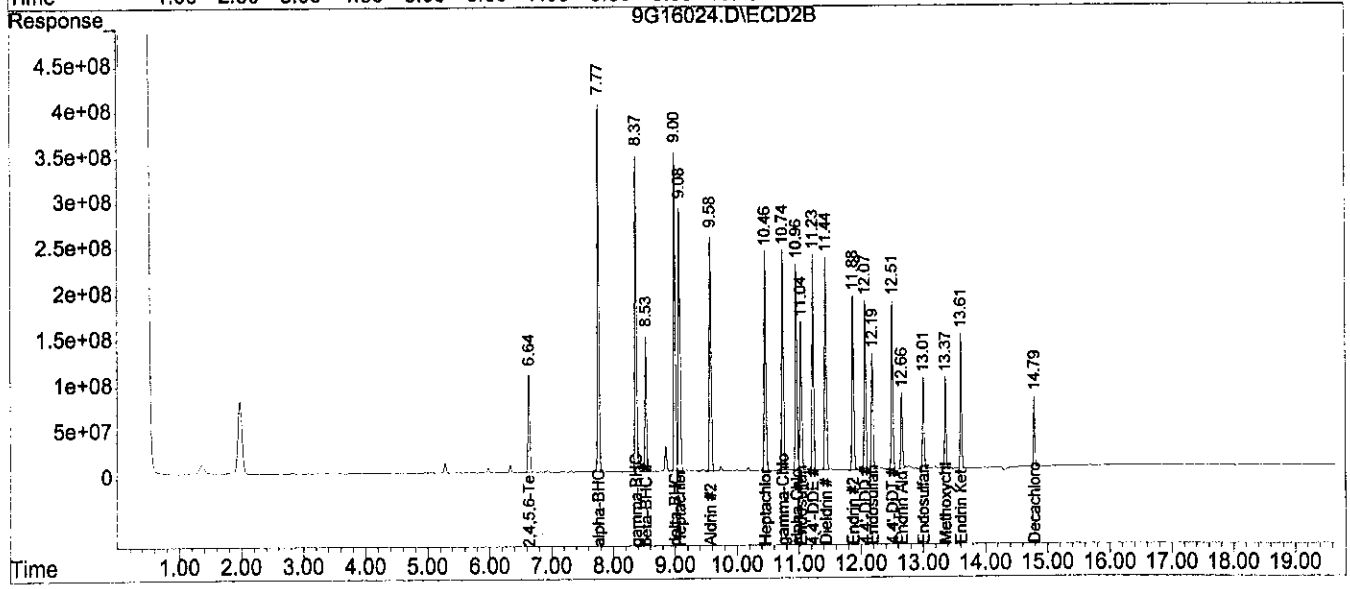
Data File : C:\HPCHEM\1\DATA\052501\9G16024.D\ECD1A.CH Vial: 5
Acq On : 25 May 2001 14:14 Operator: ECL
Sample : WG98040-03 LCS V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16024.D\ECD2B.CH Vial: 5
Acq On : 25 May 2001 14:38 Operator: ECL
Sample : WG98040-03 LCS V163 P197 Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:17 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\052501\9G16031.D\ECD1A.CH Vial: 12
Acq On : 25 May 2001 17:04 Operator: ECL
Sample : WG98007-03 LCS V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16031.D\ECD2B.CH Vial: 12
Acq On : 25 May 2001 17:28 Operator: ECL
Sample : WG98007-03 LCS V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:19 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

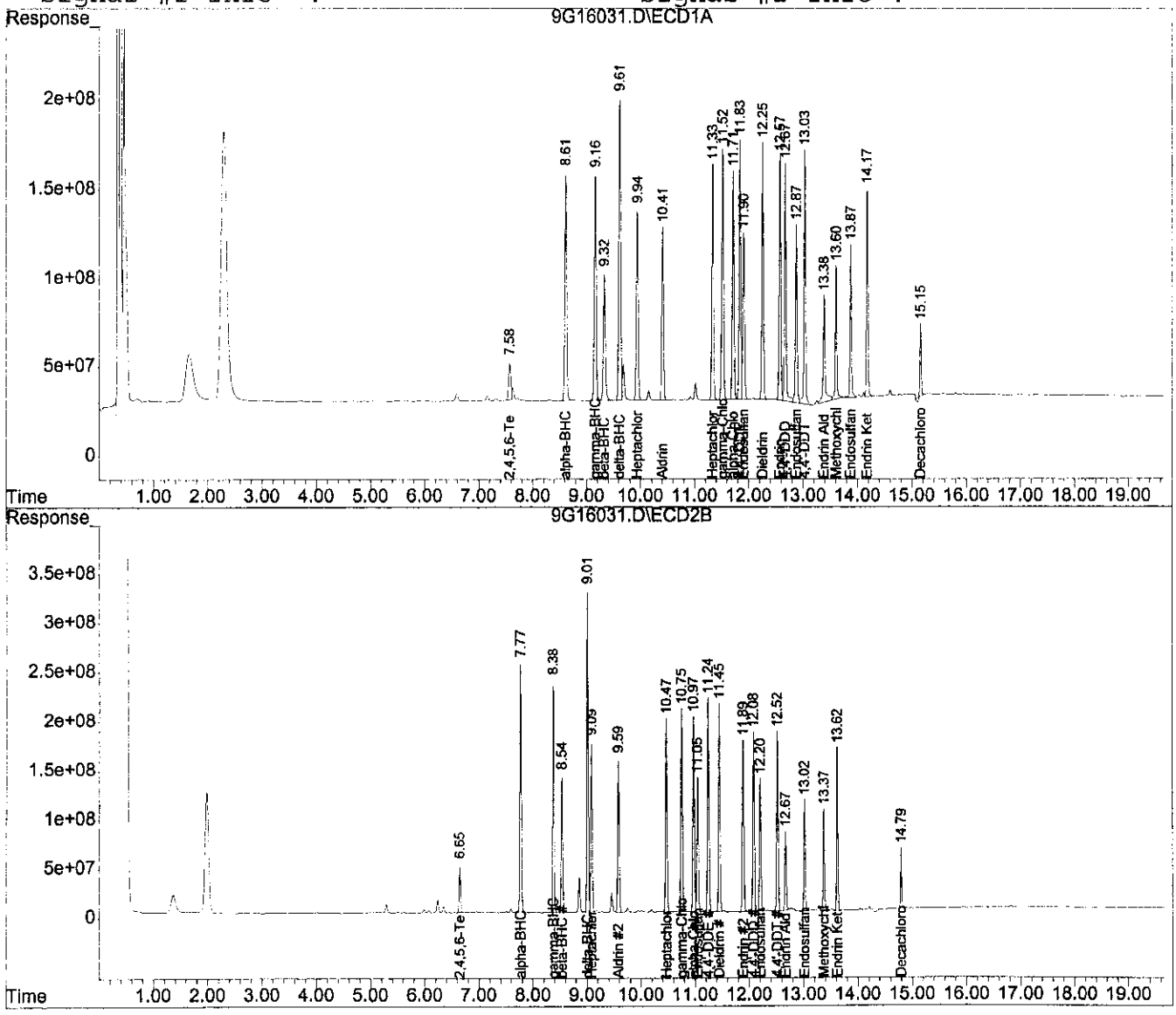
	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.58	6.65	589.7E6	925.9E6	8.313	8.862
	Spiked Amount 20.000	Range 13 - 154		Recovery =		41.57%	44.31%
22)	S Decachlorobiphen	15.16	14.80	647.8E6	916.6E6	15.820	18.436
	Spiked Amount 20.000	Range 25 - 140		Recovery =		79.10%	92.18%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	3074.0E6	4742.3E6	0.322	0.332
3)	gamma-BHC	9.16	8.38	3026.0E6	4357.6E6	0.351	0.351
4)	beta-BHC	9.32	8.54	1801.5E6	2559.2E6	0.475	0.474
5)	Heptachlor	9.94	9.09	2444.5E6	3418.5E6	0.313	0.323
6)	delta-BHC	9.61	9.01	4030.9E6	5984.9E6	0.488	0.513
7)	Aldrin	10.41	9.59	2196.5E6	3060.3E6	0.302	0.310
8)	Heptachlor Epoxi	11.33	10.47	2950.7E6	3788.7E6	0.447	0.450
9)	gamma-Chlordane	11.52	10.75	3131.5E6	4109.0E6	0.474	0.478
10)	alpha-Chlordane	11.71	10.97	2823.7E6	3929.0E6	0.485	0.484
11)	Endosulfan I	11.91	11.05	2109.6E6	2765.5E6	0.349	0.357
12)	4,4'-DDE	11.83	11.24	3076.6E6	4142.4E6	0.521	0.524
13)	Dieldrin	12.25	11.45	3157.4E6	4168.5E6	0.511	0.513
14)	Endrin	12.57	11.89	2916.7E6	3444.7E6	0.521	0.541
15)	4,4'-DDD	12.67	12.08	2846.2E6	3533.0E6	0.594	0.576
16)	Endosulfan II	12.87	12.20	2161.8E6	2685.3E6	0.400	0.404
17)	4,4'-DDT	13.03	12.52	2887.4E6	3330.0E6	0.561	0.562
18)	Endrin Aldehyde	13.38	12.67	1510.2E6	1470.5E6	0.342	0.297
19)	Endosulfan Sulfa	13.87	13.02	1629.9E6	1969.3E6	0.433	0.404
20)	Methoxychlor	13.60	13.37	1426.6E6	1808.9E6	0.638	0.676
21)	Endrin Ketone	14.17	13.62	2108.4E6	2613.4E6	0.436	0.440

Data File : C:\HPCHEM\1\DATA\052501\9G16031.D\ECD1A.CH Vial: 12
Acq On : 25 May 2001 17:04 Operator: ECL
Sample : WG98007-03 LCS V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16031.D\ECD2B.CH Vial: 12
Acq On : 25 May 2001 17:28 Operator: ECL
Sample : WG98007-03 LCS V163 P193 Inst : HP9
Misc : 1,1 Multiplr: 0.01
IntFile : autoint2.e
Quant Time: May 29 7:19 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\052501\9G16026.D\ECD1A.CH Vial: 7
Acq On : 25 May 2001 15:03 Operator: ECL
Sample : WG98040-04 L0105526-01 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16026.D\ECD2B.CH Vial: 7
Acq On : 25 May 2001 15:27 Operator: ECL
Sample : WG98040-04 L0105526-01 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:17 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1330.0E6	2089.7E6	18.749	20.000
	Spiked Amount 20.000	Range 13 - 154		Recovery =		93.74%	100.00%
22)	S Decachlorobiphen	15.15	14.79	908.5E6	1138.3E6	22.186	22.895
	Spiked Amount 20.000	Range 25 - 140		Recovery =		110.93%	114.47%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4825.3E6	7469.7E6	16.676	17.241
3)	gamma-BHC	9.15	8.37	4492.0E6	6467.1E6	17.217	17.204
4)	beta-BHC	9.32	8.53	1935.9E6	2773.8E6	16.845	16.943
5)	Heptachlor	9.93	9.08	4078.4E6	5740.6E6	17.257	17.885
6)	delta-BHC	9.61	9.00	4158.5E6	6286.4E6	16.607	17.795
7)	Aldrin	10.40	9.58	3763.4E6	5199.9E6	17.101	17.387
8)	Heptachlor Epoxi	11.32	10.46	3525.3E6	4613.1E6	17.610	18.072
9)	gamma-Chlordane	11.51	10.75	3576.4E6	4702.0E6	17.871	18.040
10)	alpha-Chlordane	11.70	10.96	3218.6E6	4433.5E6	18.226	18.039
11)	Endosulfan I	11.90	11.04	2447.6E6	3240.2E6	13.364	13.812
12)	4,4'-DDE	11.83	11.23	3320.3E6	4470.8E6	18.542	18.649
13)	Dieldrin	12.25	11.44	3404.6E6	4530.6E6	18.177	18.416
14)	Endrin	12.57	11.88	3113.6E6	3702.1E6	18.356	19.189
15)	4,4'-DDD	12.67	12.07	2780.3E6	3487.4E6	19.138	18.749
16)	Endosulfan II	12.87	12.19	1933.9E6	2439.3E6	11.808	12.124
17)	4,4'-DDT	13.02	12.51	2888.8E6	3397.1E6	18.524	18.936
18)	Endrin Aldehyde	13.38	12.66	1530.6E6	1404.0E6	11.444	9.368
19)	Endosulfan Sulfa	13.87	13.01	1472.9E6	1654.4E6	12.904	11.195
20)	Methoxychlor	13.60	13.37	1619.7E6	1681.3E6	23.896	20.724
21)	Endrin Ketone	14.17	13.61	1783.1E6	2244.5E6	12.174	12.473

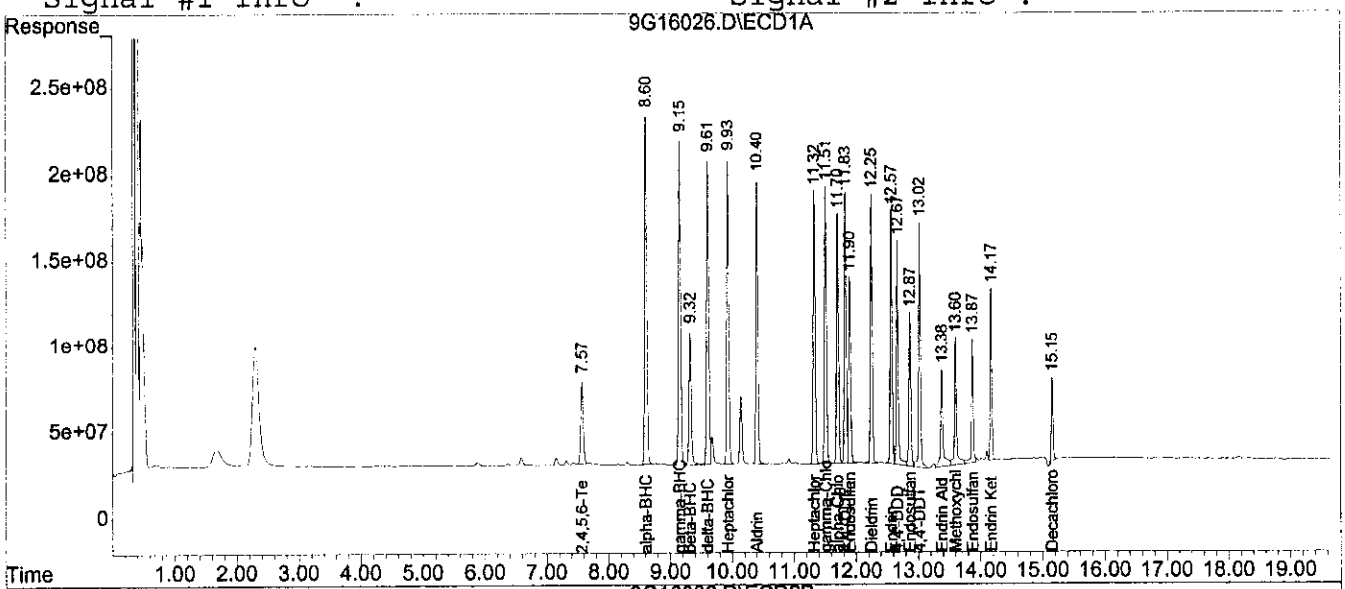
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

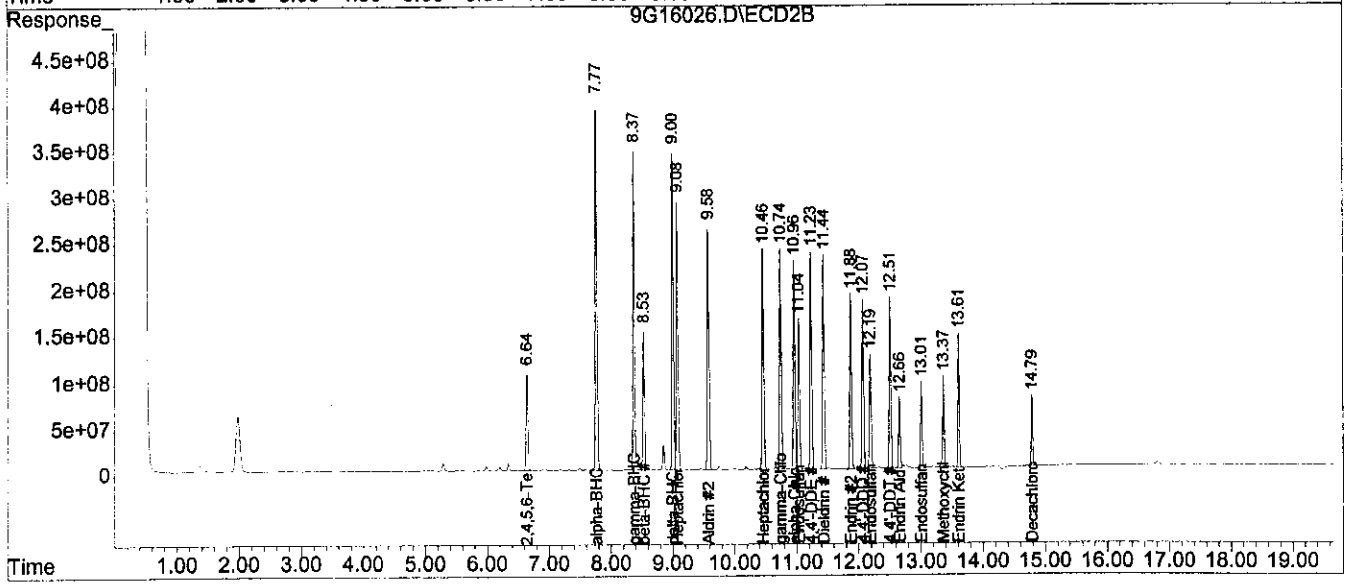
Data File : C:\HPCHEM\1\DATA\052501\9G16026.D\ECD1A.CH Vial: 7
Acq On : 25 May 2001 15:03 Operator: ECL
Sample : WG98040-04 L0105526-01 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16026.D\ECD2B.CH Vial: 7
Acq On : 25 May 2001 15:27 Operator: ECL
Sample : WG98040-04 L0105526-01 MS Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:17 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File : C:\HPCHEM\1\DATA\052501\9G16027.D\ECD1A.CH Vial: 8
Acq On : 25 May 2001 15:27 Operator: ECL
Sample : WG98040-05 L0105526-01 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16027.D\ECD2B.CH Vial: 8
Acq On : 25 May 2001 15:51 Operator: ECL
Sample : WG98040-05 L0105526-01 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
	System Monitoring Compounds						
1)	S 2,4,5,6-Tetrachl	7.57	6.64	1238.7E6	1934.3E6	17.463	18.514
	Spiked Amount 20.000	Range 13 - 154		Recovery =		87.32%	92.57%
22)	S Decachlorobiphen	15.15	14.79	821.1E6	1223.1E6	20.051	24.601
	Spiked Amount 20.000	Range 25 - 140		Recovery =		100.25%	123.00%
	Target Compounds						
2)	alpha-BHC	8.61	7.77	4600.0E6	6987.9E6	15.898	16.129
3)	gamma-BHC	9.15	8.37	4295.0E6	6094.2E6	16.462	16.212
4)	beta-BHC	9.32	8.53	1841.8E6	2612.2E6	16.026	15.956
5)	Heptachlor	9.93	9.08	3818.8E6	5384.0E6	16.158	16.774
6)	delta-BHC	9.61	9.00	4013.8E6	5922.0E6	16.029	16.763
7)	Aldrin	10.40	9.58	3586.2E6	4880.4E6	16.297	16.319
8)	Heptachlor Epoxi	11.32	10.46	3363.6E6	4365.6E6	16.802	17.102
9)	gamma-Chlordane	11.51	10.74	3388.7E6	4402.4E6	16.934	16.890
10)	alpha-Chlordane	11.70	10.96	3110.2E6	4137.7E6	17.613	16.836
11)	Endosulfan I	11.90	11.04	2333.5E6	3040.1E6	12.741	12.959
12)	4,4'-DDE	11.83	11.23	3136.3E6	4149.6E6	17.515	17.309
13)	Dieldrin	12.24	11.44	3256.1E6	4235.6E6	17.383	17.217
14)	Endrin	12.57	11.88	2936.1E6	3534.1E6	17.309	18.318
15)	4,4'-DDD	12.67	12.07	2468.7E6	3254.8E6	16.993	17.498
16)	Endosulfan II	12.87	12.19	1788.1E6	2436.7E6	10.918	12.111
17)	4,4'-DDT	13.02	12.51	2531.6E6	3151.3E6	16.234	17.566
18)	Endrin Aldehyde	13.38	12.66	1278.0E6	1417.7E6	9.556	9.459
19)	Endosulfan Sulfa	13.87	13.01	1426.7E6	1768.2E6	12.500	11.965
20)	Methoxychlor	13.60	13.37	1225.0E6	1572.5E6	18.072	19.384
21)	Endrin Ketone	14.17	13.61	1841.5E6	2283.3E6	12.572	12.689

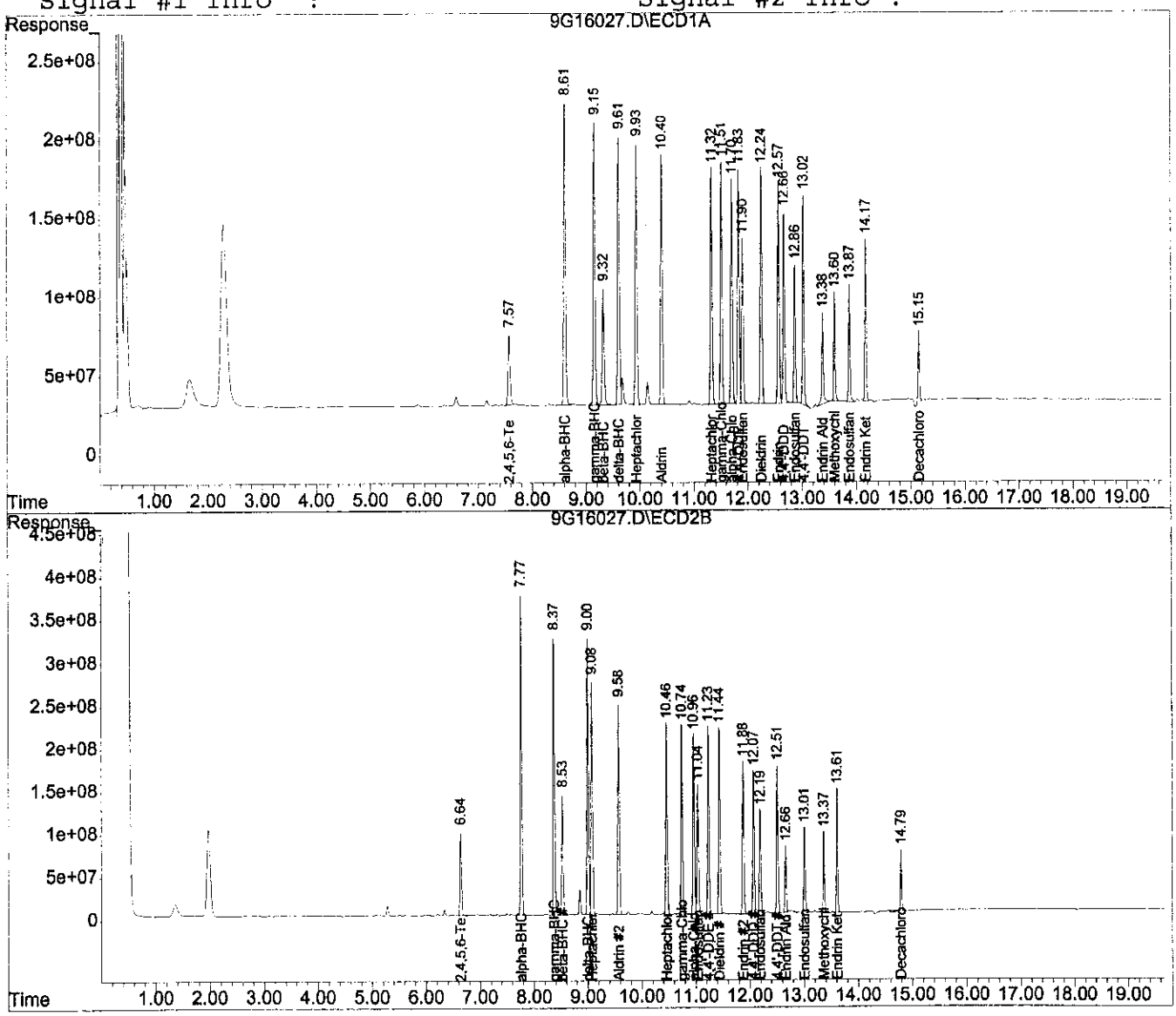
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\9G16027.D\ECD1A.CH Vial: 8
Acq On : 25 May 2001 15:27 Operator: ECL
Sample : WG98040-05 L0105526-01 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\052501\9G16027.D\ECD2B.CH Vial: 8
Acq On : 25 May 2001 15:51 Operator: ECL
Sample : WG98040-05 L0105526-01 MSD Inst : HP9
Misc : 7,1 Multiplr: 0.33
IntFile : autoint2.e
Quant Time: May 29 7:18 2001 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : CALIBRATION May 24, 2001
Last Update : Fri May 25 07:56:29 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP Front **Data Subdirectory** 052401

Analyst Initials EC2

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G15963	ENDRIN/DDT	NA	SV52-34		✓
64	TOX ICAL 2.0 PPM		SV51-06		
65	1.0 PPM				
66	0.5 PPM				
67	0.25 PPM				
68	0.1 PPM				✓
69	TOX ALT ICV 0.5 PPM		SV51-07		✓
70	WG98218-01 PEST ICAL 200 PPB		SV53-16		
71	-02 100 PPB				
72	-03 50 PPB				
73	-04 20 PPB				
74	-05 10 PPB				
75	-06 4 PPB				✓
76	-07 PEST ALT ICV 20 PPB		SV54-11		✓
77	WG97754-02 BLANK V163 P145				
78	-03 LCS V163 P145				
79	L0105404-01				
80	WG97754-01 L0105404-02				
81	-04 -03 MS				
82	-05 -04 MSD				
83	L0105404-05				
84	-06				
85	-07				
86	-08				
87	ENDRIN/DDT		SV52-34		
88	WG98218-08 PEST CCV 20 PPB		SV53-16		
89	TOX CCV 0.5 PPM		SV51-06		
90	L0105404-09				
91	-10				
92	WG97756-02 BLANK V163 P139				
93	-03 LCS V163 P139				
94	L0105404-11				
95	L0105373-01				
96	WG97758-04 L0105373-01 MS				✓

Reviewed By: EC2 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC2 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP **Data Subdirectory** 052401

Analyst Initials ECL

Front

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9615997	WG97758-05 L0105373-01 MSD	NA			✓
98	L0105373-02				
99	" -03				
9616000	ENDRIN/DDT		SV52-34		
01	WG98218-09 PEST CCV 50 PPB		SV53-16		
02	TOX CCV 0.25 PPM		SV51-06		
03	L0105373-05				
04	WG97640-02 BLANK V163 P121				
05	" -03 LCS V163 P121				
06	" -04 TOX LCS V163 P121				
07	" -01 L0105382-01				
08	" -05 " -01 MS				
09	" -06 " -01 MSD				
10	L0105382-02				
11	" -03				
12	" -04				
13	WG98218-10 PEST CCV 20 PPB		SV53-16		
14	TOX CCV 0.5 PPM		SV51-06		
15	L0105382-05				
16	" -06				✓*
17	ENDRIN/DDT		SV52-34		✓
18	WG98218-11 PEST CCV 50 PPB		SV53-16		✓
19	TOX CCV 0.25 PPM		SV51-06		✓

CAB 5-25-01

Reviewed By: ECL 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 Instrument ID HP9 Column ID RTX-CLP Data Subdirectory 052401

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP II **Data Subdirectory** 052401 Rear

Analyst Initials EC

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G159603	ENDRIN/DDT	N/A	SV52-34		✓
04	TOX ICAL 2.0 PPM		SV51-06		
05	1.0 PPM				
06	0.5 PPM				
07	0.25 PPM				
08	0.1 PPM				✓
09	TOX ALT ICV 0.5 PPM		SV51-07		✓
10	WG98218-01 PEST ICAL 200 PPB		SV53-16		
11	-02 PEST ICAL 100 PPB				
12	-03 50 PPB				
13	-04 20 PPB				
14	-05 10 PPB				
15	-06 4 PPB				✓
16	-07 PEST ALT ICV 20 PPB		SQS 54-11		✓
17	WG97754-02 BLANK V1103 P145				
18	-03 LCS V1103 P145				
19	L0105404-01				
20	WG97754-01 L0105404-02				
21	-04 L0105404-03 MS				
22	-05 -04 MSD				
23	L0105404-05				
24	-06				
25	-07				
26	-08				
27	ENDRIN/DDT		SV52-34		✓
28	WG98218-08 PEST CCV 20 PPB		SV53-16		✓
29	TOX CCV 0.5 PPM		SV51-06		✓
30	L0105404-09				
31	~~WG~~ -10				
32	WG97758-02 BLANK V1103 P139				
33	-03 LCS V1103 P139				
34	L0105404-11				
35	L0105373-01				
36	WG97758-04 L0105373-01 MS				✓

Reviewed By: EC 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP II **Data Subdirectory** 052401

Daily Check
- ☑ Gases >500 psi
- ☑ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLPII **Data Subdirectory** 052401

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9615997	WG97758-05 L0105373-01 MSD	NA			✓
98	L0105373-02				
99	↓ -03				
9616000 CAB 5-25-01	ENDRIN/DDT		SV52-34		
01	WG98218-09 PEST CCV 50 PPB		SV53-16		
02	TCX CCV 0.25 PPM		SV51-06		
03	L0105373-05				
04	WG97640-02 BLANK V1L3 P121				
05	↓ -03 LCS V1L3 P121				
06	-04 TCX LCS V1L3 P121				
07	-01 L0105382-01				
08	-05 -01 MS				
09	-06 -01 MSD				
10	L0105382-02				
11	-03				
12	↓ -04				
13	WG98218-10 PEST CCV 20 PPB		SV53-16		
14	TCX CCV 0.5 PPM		SV51-06		
15	L0105382-05				
16	↓ -06				✓
17	ENDRIN/DDT		SV52-34		✓
18	WG98218-11 PEST CCV 50 PPB		SV53-16		✓
19	TCX CCV 0.25 PPM	↓	SV51-06		✓

CAB 5-25-01

Reviewed By: EC2 5/25/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SM1 = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/24/01 **Instrument ID** HP9 **Column ID** RTX-CLP II **Data Subdirectory** 052401

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/25/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP9 Column ID RTX-CLP II Rear Data Subdirectory 5525C1

Analyst Initials ECL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status ✓
9G1605 20	ENDRIN/DDT	NA	SV52-34		
21	PEST CCV 20 PPB		SV53-16		
22	TOX CCV 0.5 PPM		SV51-CL		
23	WG98040-02 BLANK V1163 P197				
24	-03 LCS V1163 P197				
25	-01 L01055216-01				
26	-04 -01 MS				
27	-05 -01 MSD				
28	L01055216-02				
29	-03				
30	WG98007-02 BLANK V1163 P193				
31	-03 LCS V1163 P193				
32	ENDRIN/DDT		SV52-34		
33	PEST CCV 50 PPB		SV53-16		
34	TOX CCV 0.25 PPM		SV51-CL		
35	WG98007-01 L01054467-04				
36	-04 -04 MS				
37	-05 -04 MSD				
38	L01055501-01				
39	-03				
40	-05				
41	-07				
42	L01055216-04				
43	L01055525-01				
44	ENDRIN/DDT		SV52-34		
45	PEST CCV 20 PPB		SV53-16		
46	TOX CCV 0.5 PPM		SV51-CL		

CAB 5.27.01

Reviewed By: ade 5/29/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP 9 Column ID RTX-CLPII Data Subdirectory 052501

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: _____

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP 9 Column ID RTX-CLP Front Data Subdirectory 052501

Analyst Initials EOL

SOP # GCS09 Rev. # 1 ✓ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
9G1602C	ENDRIN/DDT	NA	SV52-34		✓
21	PEST CCV 20 PPB		SV53-16		
22	TOX CCV 0.5 PPM		SV51-06		
23	WG98040-02 BLANK V16 3 P197				
24	-03 LCS V16 3 P197				
25	-01 L01055206-01				
26	-04 -01 MS				
27	-05 -01 MSD				
28	L01055206-02				
29	-03				
30	WG98007-02 BLANK V16 3 P193				
31	-03 LCS V16 3 P193				
32	ENDRIN/DDT		SV52-34		
33	PEST CCV 50 PPB		SV53-16		
34	TOX CCV 0.25 PPM		SV51-06		
35	WG98007-01 L01054607-04				
36	-04 -04 MS				
37	-05 -04 MSD				
38	L01055201-01				
39	-03				
40	-05				
41	-07				
42	L01055206-04				
43	L01055205-01				
44	ENDRIN/DDT		SV52-34		
45	PEST CCV 20 PPB		SV53-16		
46	TOX CCV 0.5 PPM		SV51-06		

CAB 5/29/01

Reviewed By: [signature]

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP9 Column ID RTX-CLP Data Subdirectory 052501

Daily Check

- [x] Gases >500 psi
- [ ] Change liner
- [ ] Change septum

Preventative Maintenance

- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [ ] Change gases _____

Returned To Control?

Yes ___ No ____

Additional Maintenance

Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: _____

Sample Extract Log Sheet

Volume 163
Page 197

Parameter: Pest-Soil SOP #: EXP02 Revision #: 10
Extraction Analyst(s): JAG TV/KD Analyst(s): JAG
Date/Time Extracted: 5/23/01 19:00 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: JAG Witness: DCV
Surrogate #: ES5037-14 Earliest Hold Date: 6/5
Spike #: A = ES5003 35.19 Spike #: B = —

Extraction Work Group WG 98040
Analytical Work Group WG 98098
Extract Relinquished By: PLR
Extract Received By & Date: mk 5/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					30.0g	200µl		10ml	T				WG98040-02
2	LCS					1		250µl						WG 98040-03
3	03-5260-01	8081				30.02g								WG98040-01
4	01MS					30.01g		250µl						WG 98040-04
5	01MSD					30.3g		1						WG 98040-05
6	02					30.01g								
7	03					30.02g								
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAG

Methylene Chloride Lot #: —
Hexane Lot #: 91053
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #:
Reagent: 99:1 Lot #: ER1737
Reagent: 50:50 Lot #: ER1706
Reagent: — Lot #: —
Acid: ~~Conc H2SO4~~ Lot#: V03-57 JAG 5/23
Florisil Lot #: T99556
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1653

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	—	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	~~✓~~	N/A	
Sulfur 3660B			

JAG 5/23

Peer Reviewed By: _____ Date: 05/28/01

707

Sample Extract Log Sheet

Extraction Notes For Volume # 163 Page # 197

General Comments: nothing to report

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

Volume 163
Page 193

Sample Extract Log Sheet

Parameter: Resi H2O SOP #: EX801 Revision #: 9
Extraction Analyst(s): DP TV/KD Analyst(s): JAP
Date/Time Extracted: 5/23/01 0530 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: DP Witness: DCJ
Surrogate #: ES500332-12 Earliest Hold Date: 5/28/01
Spike #: A = ES500336-19 Spike #: B = —

Extraction Work Group WG 98007
Analytical Work Group WG 98096

Extract Relinquished By: MM
Extract Received By & Date: MM 5/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	200ul		10ml	T				WG 98007-02
2	LCS			✓		1		250ul						WG 98007-03
5/31 3	05-467-04	8081P		✓		960ml								WG 98007-01
4	1 -04MS			✓		490ml		250ul						-04
5	1 -04MD			✓		1		1						-05
6/1 6	05-501-01			✓		980ml								
7	1 -03			✓		1L								
8	1 -05			✓		~~980ml~~ 1L (05-503)								
9	1 -07	1		✓		1L								
10	05-526-04	8081		✓		890ml								
5/30 11	05-525-01	1		✓		930ml	1							
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAP

Methylene Chloride Lot #: H1016
Hexane Lot #: H253
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 346 Lot #: ER1727
Reagent: 50:50 Lot #: ER1701
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: 010552
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1758

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/24/01

709

Extraction Notes For Volume # 163 Page # 193

General Comments: Nothing to report

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

710

Example 8081 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
Where:	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.3 PCB GC Data (8082)

REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Samples: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Surrogates: Sample fraction 04 yielded a % recovery for DCBP that was below the lower surrogate limit. The 2,4,5,6-TCMX recovery was acceptable. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW__ REVIEWED: Stephanie R Lyon DATE: 5/31/01

Rev. 7/14/00

713

Date: 05-07-01
Analyst: SMW
Method: 8082
Instrument: HP7F
Work Group: 96858

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	✓
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	
Project / Client Specific Requirements	
Special Standards	
Blanks	
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	
Recoveries	
Surrogates	
MS / MSD / Duplicates	
Samples	
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	✓
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

05-017
05-59
05-60
05102

Primary Reviewer Initials & Date Checked SMW 05-08-01

Secondary Reviewer Initials & Date Checked AV 5/8/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/9/01

Comments: 05-017-10 and for RE - both surr. fail

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

714

Date: 5-24-01
Analyst: SMW
Method: 8082
Instrument: HP7F
Work Group: 98097

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	NA
Average RF	✓
Linear Reg or Higher Order Curve	✓
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	✓
Blanks	✓
TCL's	✓
Surrogates	✓
LCS (Laboratory Control Sample)	✓
Recoveries	✓
Surrogates	✓
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	✓
Surrogates	✓
Calculations & Correct Factors	✓
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

05-467
05-501
05-526

Primary Reviewer Initials & Date Checked SMW 5-25-01

Secondary Reviewer Initials & Date Checked EC2 5/25/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/25/01

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

715

Date: 05-25-01
Analyst: SMW
Method: 8082
Instrument: HP7F
Work Group: 98099, 98211

	Analyst
System Performance Check	
Endrin & DDT Breakdown	
Initial Calibration	NA
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	✓
Project / Client Specific Requirements	
Special Standards	
Blanks	
TCL's	
Surrogates	
LCS (Laboratory Control Sample)	
Recoveries	
Surrogates	
MS / MSD / Duplicates	
Samples	
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	✓
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

05-526
05-469
05-475
05-498
05-557
05-560

Primary Reviewer Initials & Date Checked SMW 05-30-01

Secondary Reviewer Initials & Date Checked [signature] 5/30/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 5/30/01

Comments:

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

716

PCB-GC DATA (8082)

Login Number: L0105526

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

Calibration verification standards (Continuing Calibration

✓ Data) initial and ending checks, chromatograms and external standard reports (chronological)

✓ Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: SMW Date: 5-3-01

717

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , FRONT

		INSTRUMENT : HP7			**SMPL ID :** NA
EXT'N DATE : 05/23/2001		**ANALYST :** SMW	**BLK FLNM :** 7G12776		**SMPL FLNM :** NA
EXT'N BENCH SHT : V163P195		**RUN DATE :** 05/24/2001	**LCS FLNM :** 7G12777		**MS FLNM :** NA
EXT'N WORK GRP : WG98008		**ANAL WORK GRP :** WG98097			**MSD FLNM :** NA

		CONCENTRATION , ug/L					% RECOVERY								PERCENT						
COMPOUND	RDL	Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	1.42	ND	NA	NA	NA	57.0	39	113	NA	NA	NA	39	113	NA	0-46					
AROCLOR 1221	0.5	ND	NS	ND	NS	NS	NA	NA	15	175	NA	NS	NS	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NS	ND	NS	NS	NA	NA	15	210	NA	NS	NS	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NS	ND	NS	NS	NA	NA	35	154	NA	NS	NS	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	NS	ND	NS	NS	NA	NA	34	116	NA	NS	NS	34	116	NA	0-31					
AROCLOR 1254	0.5	ND	NS	ND	NS	NS	NA	NA	25	135	NA	NS	NS	25	135	NA	0-36					
AROCLOR 1260	0.5	ND	2.34	ND	NA	NA	NA	93.6	44	129	NA	NA	NA	44	129	NA	0-41					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		6.10	7.55	NA	NA	NA	30.5	37.7	13	154	NA	NA	NA	13	154							
DECACHLOROBIPHENYL		15.4	15.0	NA	NA	NA	77.1	75.2	25	140	NA	NA	NA	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L — LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 20 ug/L — MS=MATRIX SPIKE
NA = NOT APPLICABLE — MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB SOILS , FRONT

INSTRUMENT : HP7
EXT'N DATE : 05/23/2001 ANALYST : SMW BLK FLNM : 7G12796 SMPL ID : L0105526-02
EXT'N BENCH SHT : V183P199 RUN DATE : 05/25/2001 LCS FLNM : 7G12797 SMPL FLNM : 7G12799
EXT'N WORK GRP : WG98041 ANAL WORK GRP : WG98099 MS FLNM : 7G12800
MSD FLNM : 7G12801

COMPOUND	RDL	CONCENTRATION , ug/Kg					% RECOVERY								PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	17.0	ND	92.9	ND	91.6	78.6	NA	111.5	10	241	NA	109.9	94.3	10	241	15.3	0-49					
AROCLOR 1221	17.0	ND	NS	ND	NS	NS	NA	NA	10	180	NA	NS	NS	10	180	NA	0-39					
AROCLOR 1232	17.0	ND	NS	ND	NS	NS	NA	NA	11	205	NA	NS	NS	11	205	NA	0-36					
AROCLOR 1242	17.0	ND	NS	ND	NS	NS	NA	NA	30	165	NA	NS	NS	30	165	NA	0-37					
AROCLOR 1248	17.0	ND	NS	ND	NS	NS	NA	NA	31	175	NA	NS	NS	31	175	NA	0-39					
AROCLOR 1254	17.0	ND	NS	ND	NS	NS	NA	NA	22	149	NA	NS	NS	22	149	NA	0-37					
AROCLOR 1260	17.0	ND	129	ND	140	121	NA	154.3	10	272	NA	168.4	145.6	10	272	14.5	0-82					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		20.1	21.4	16.8	20.1	16.2	100.5	106.8	29	133	84.2	100.7	81.1	29	133							
DECACHLOROBIPHENYL		28.3	29.6	22.1	27.9	23.1	141.3	147.9	30	173	110.3	139.4	115.6	30	173							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 83.3 ug/kg LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 20 ug/kg MS=MATRIX SPIKE
NA = NOT APPLICABLE MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

720

2.2.3.2 Sample Data

Data File : C:\HPCHEM\1\DATA\052501\7G12798.D Vial: 4
Acq On : 25 May 2001 13:56 Operator: SMW
Sample : L0105526-01 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

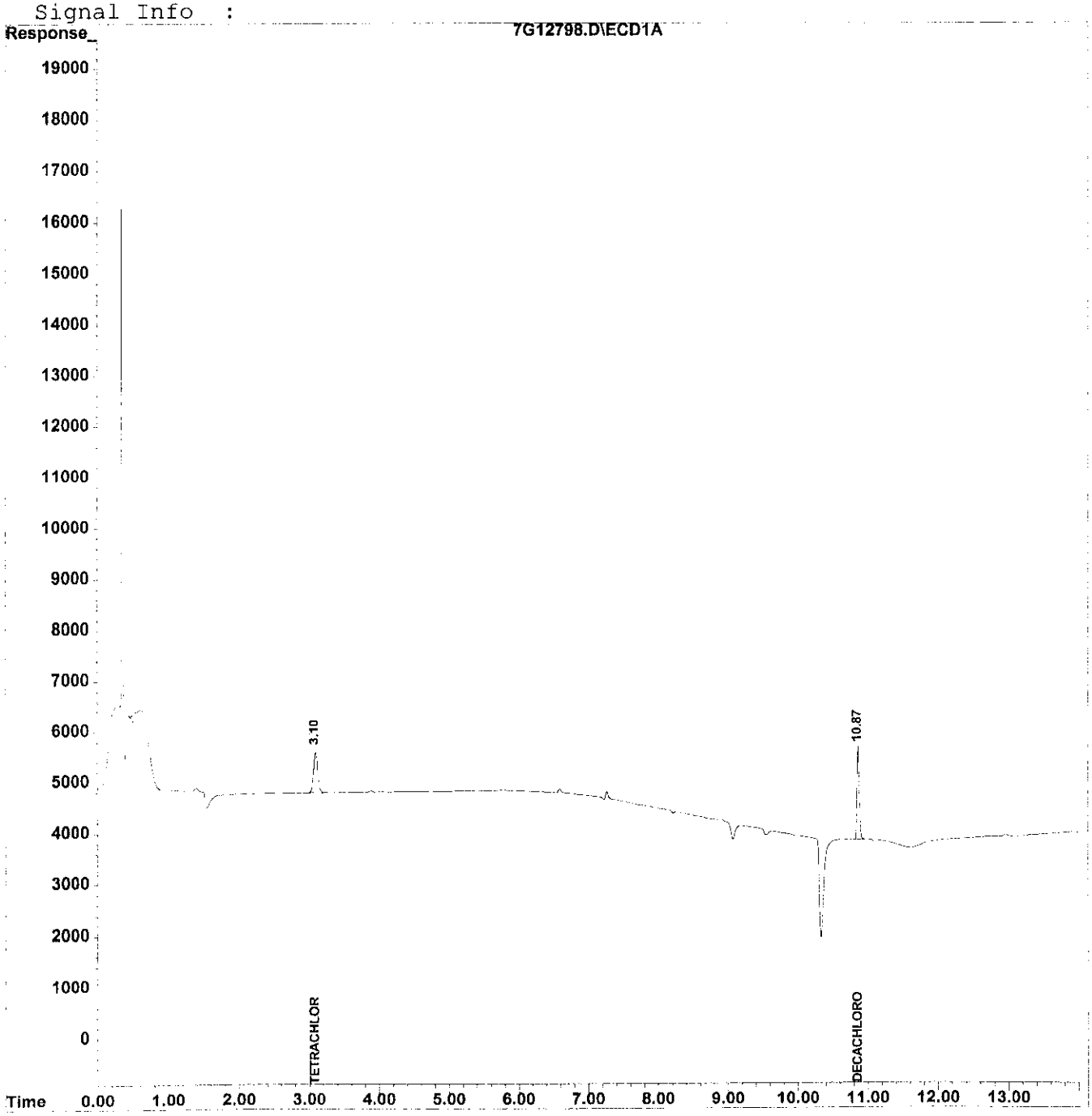
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	35037	18.756 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 93.78%	
12) S DECACHLOROBIPHENYL	10.87	40042	23.832 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 119.16%	
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12798.D 8082F.M Wed May 30 10:08:25 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12798.D Vial: 4
Acq On : 25 May 2001 13:56 Operator: SMW
Sample : L0105526-01 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12799.D Vial: 5
Acq On : 25 May 2001 14:15 Operator: SMW
Sample : WG98041-01 L0105526-02 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

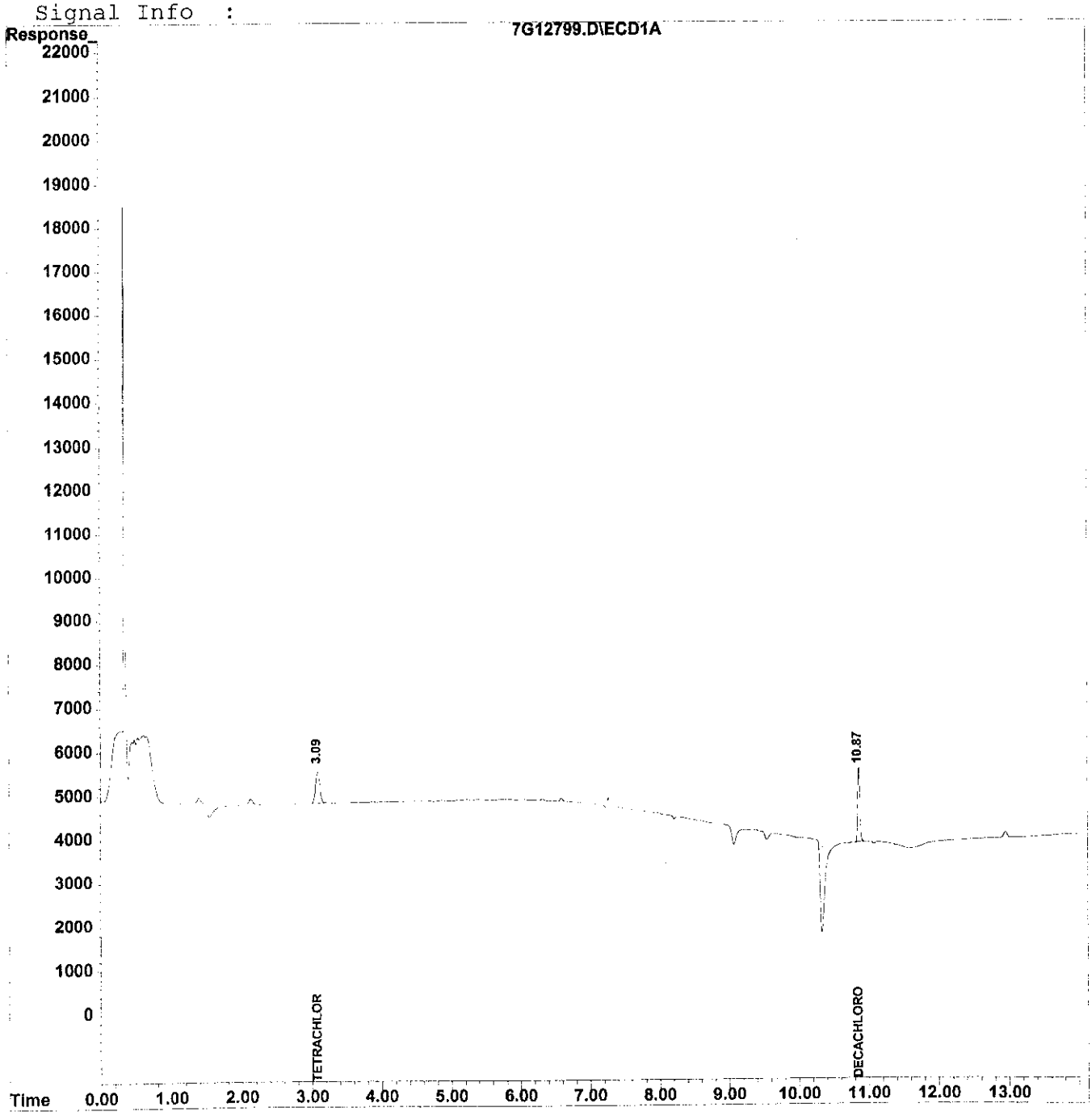
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	31445	16.833 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	84.16%
12) S DECACHLOROBIPHENYL	10.87	37062	22.059 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	110.30%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12799.D 8082F.M Wed May 30 10:08:43 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12799.D Vial: 5
Acq On : 25 May 2001 14:15 Operator: SMW
Sample : WG98041-01 L0105526-02 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12802.D Vial: 8
Acq On : 25 May 2001 15:12 Operator: SMW
Sample : L0105526-03 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	35888	19.211 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	96.05%
12) S DECACHLOROBIPHENYL	10.87	43617	25.959 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	129.80%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

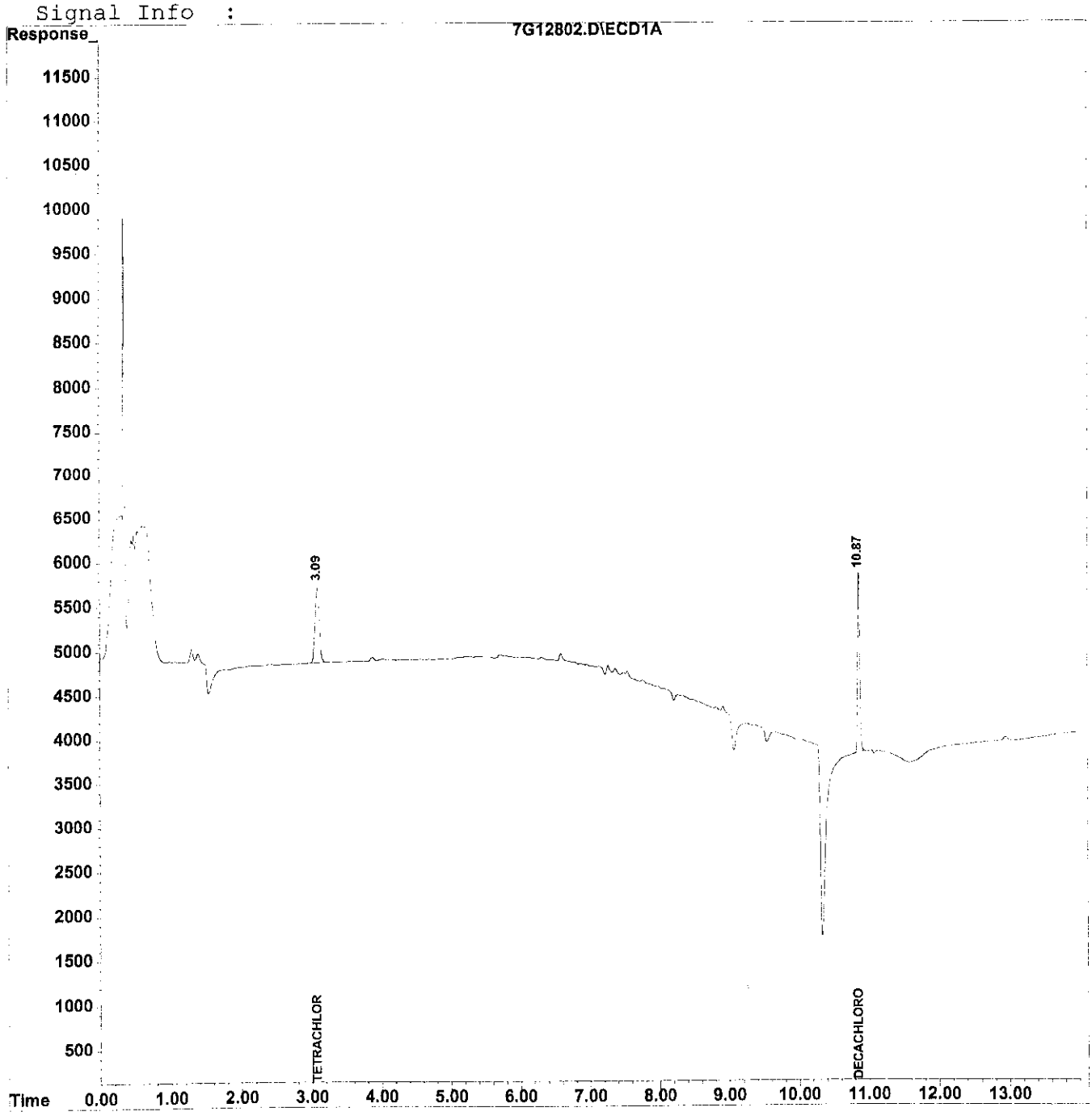
(f)=RT Delta > 1/2 Window (m)=manual int.
7G12802.D 8082F.M Wed May 30 10:10:19 2001 Page 1

726

Data File : C:\HPCHEM\1\DATA\052501\7G12802.D Vial: 8
Acq On : 25 May 2001 15:12 Operator: SMW
Sample : L0105526-03 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 30 10:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



7G12802.D 8082F.M Wed May 30 10:10:19 2001 Page 2

Data File : C:\HPCHEM\1\DATA\052401\7G12785.D Vial: 11
Acq On : 24 May 2001 16:15 Operator: SMW
Sample : L0105526-04 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 9:21 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

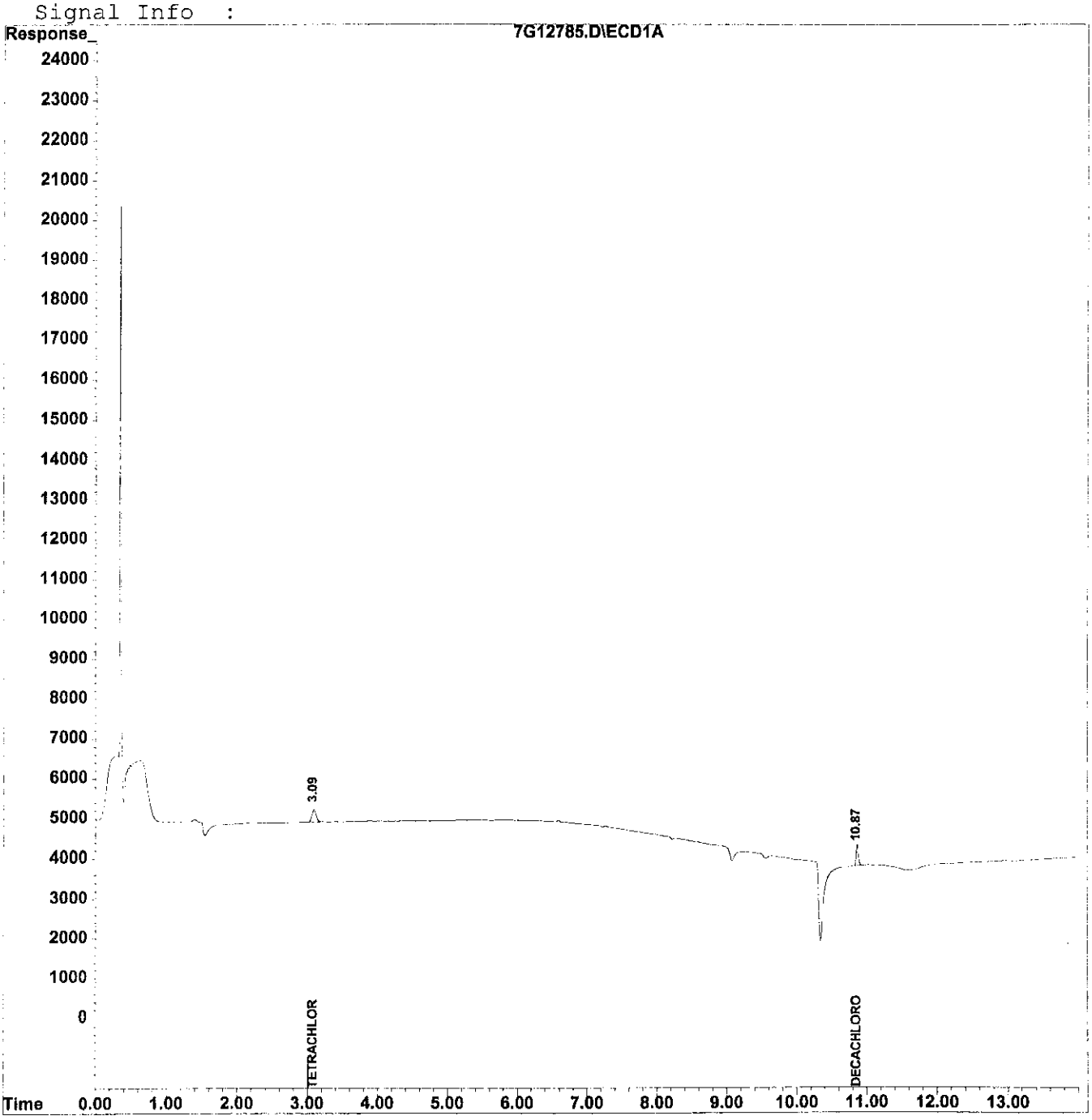
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	13145	7.037 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	35.19%
12) S DECACHLOROBIPHENYL	10.87	11005	6.550 UG/L m
Spiked Amount 20.000	Range 25 - 140	Recovery =	32.75%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\7G12785.D Vial: 11
Acq On : 24 May 2001 16:15 Operator: SMW
Sample : L0105526-04 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 9:21 2001 Quant Results File: 8082F.RES

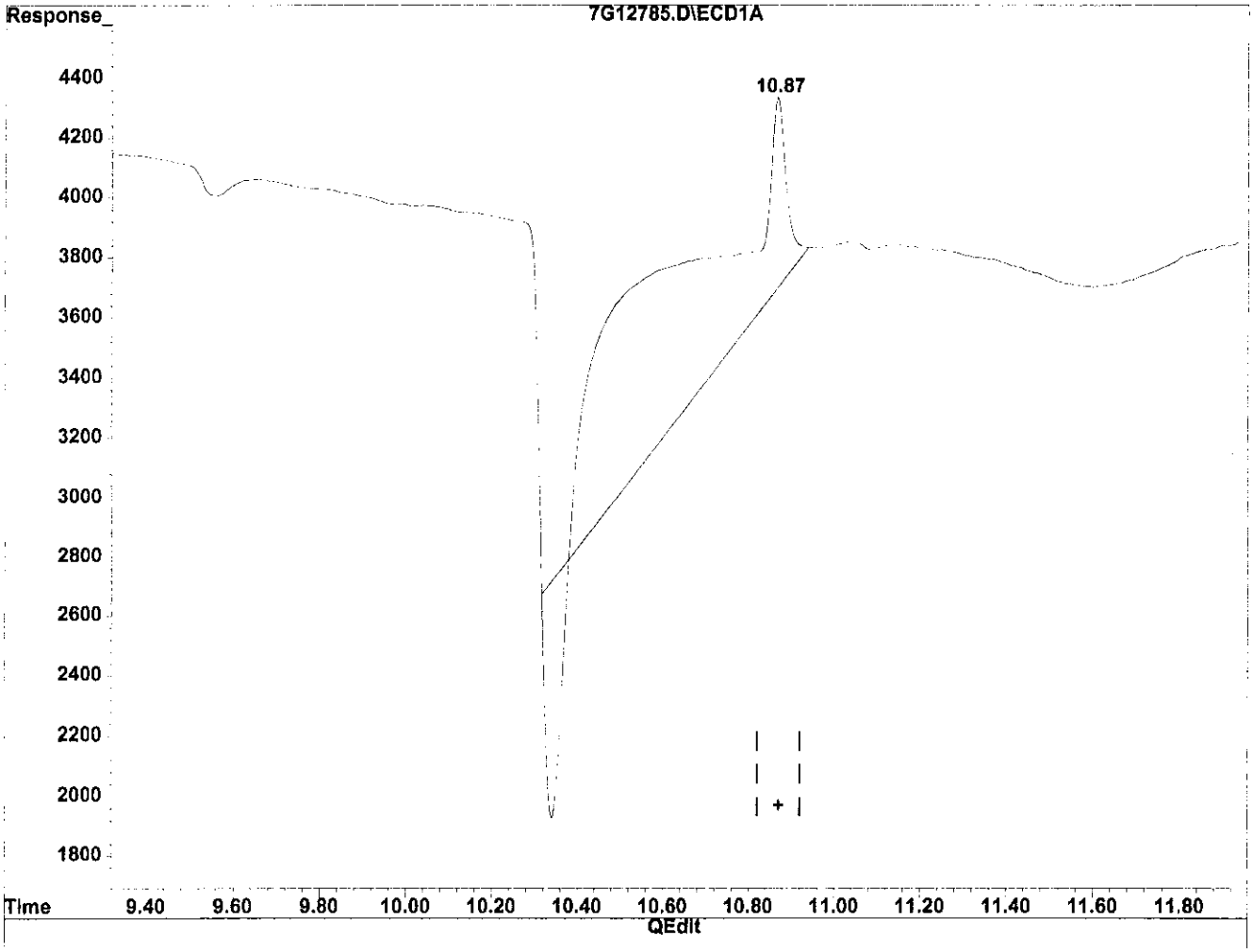
Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052401\7G12785.D Vial: 11
Acq On : 24 May 2001 16:15 Operator: SMW
Sample : L0105526-04 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 9:21 2001 Quant Results File: 8082F.RES

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration



(12) DECACHLOROBIPHENYL (S)

10.87min 75.272UG/L

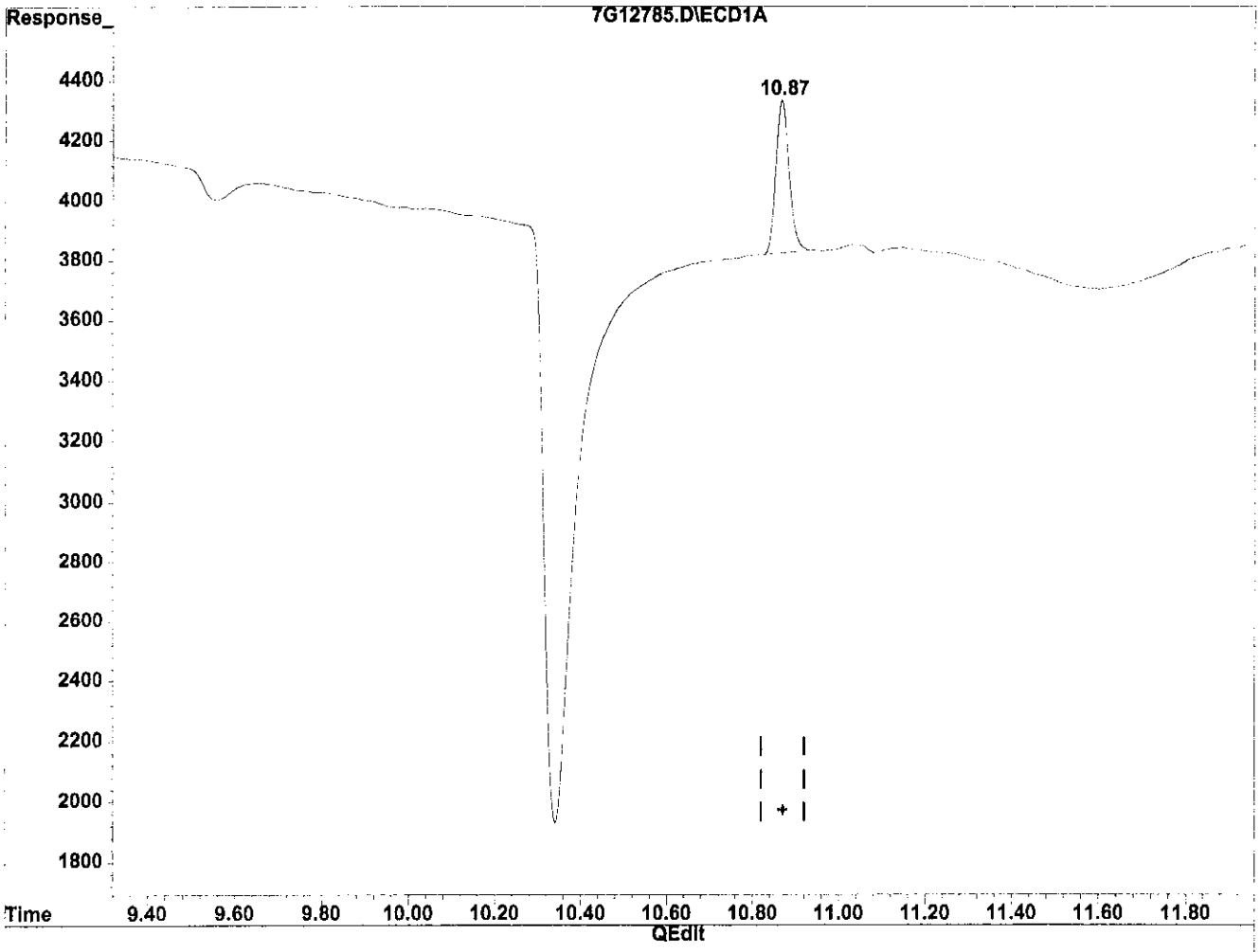
response 126471

(+) = Expected Retention Time
7G12785.D 8082F.M Fri May 25 09:21:22 2001

730

Data File : C:\HPCHEM\1\DATA\052401\7G12785.D Vial: 11
Acq On : 24 May 2001 16:15 Operator: SMW
Sample : L0105526-04 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 9:21 2001 Quant Results File: 8082F.RES

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration



(12) DECACHLOROBIPHENYL (S)

10.87min 6.550UG/L m

response 11005

SMW 5-25-01 VEO 5/25/01

(+) = Expected Retention Time
7G12785.D 8082F.M Fri May 25 09:21:32 2001

2.2.3.3 Standards Data

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001

Calibration Files
50 =7G12416.D 100 =7G12415.D 250 =7G12414.D
500 =7G12413.D 1000 =7G12412.D 2000 =7G12411.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	2.031	1.908	1.988	1.892	1.805	1.585	1.868	E3	8.53
2)	L1	PCB1016{1}	5.015	4.938	4.974	4.769	4.464	4.212	4.728	E1	6.85
3)	L1	PCB1016{2}	1.211	0.997	1.011	0.935	0.797	0.793	0.957	E2	16.31
4)	L1	PCB1016{3}	2.203	2.055	2.072	1.929	1.775	1.589	1.937	E2	11.55
5)	L1	PCB1016{4}	8.210	7.823	7.894	7.484	6.982	6.370	7.460	E1	9.09
6)	L1	PCB1016{5}	5.364	5.168	5.177	4.979	4.726	4.330	4.957	E1	7.58
7)	L2	PCB1260{1}	1.506	1.397	1.363	1.262	1.141	0.981	1.275	E2	14.90
8)	L2	PCB1260{2}	1.531	1.430	1.423	1.340	1.233	1.087	1.341	E2	11.87
9)	L2	PCB1260{3}	2.052	1.894	1.995	1.871	1.711	1.503	1.838	E2	10.96
10)	L2	PCB1260{4}	2.107	1.932	2.075	1.891	1.852	1.543	1.900	E2	10.65
11)	L2	PCB1260{5}	5.974	5.791	5.807	5.632	5.218	4.617	5.507	E1	9.19
12)	S	DECACHLOROBIPHENYL	1.981	1.758	1.751	1.691	1.564	1.337	1.680	E3	12.86

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\050701\7G12411.D Vial: 2
Acq On : 7 May 2001 14:12 Operator: SMW
Sample : 1660 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

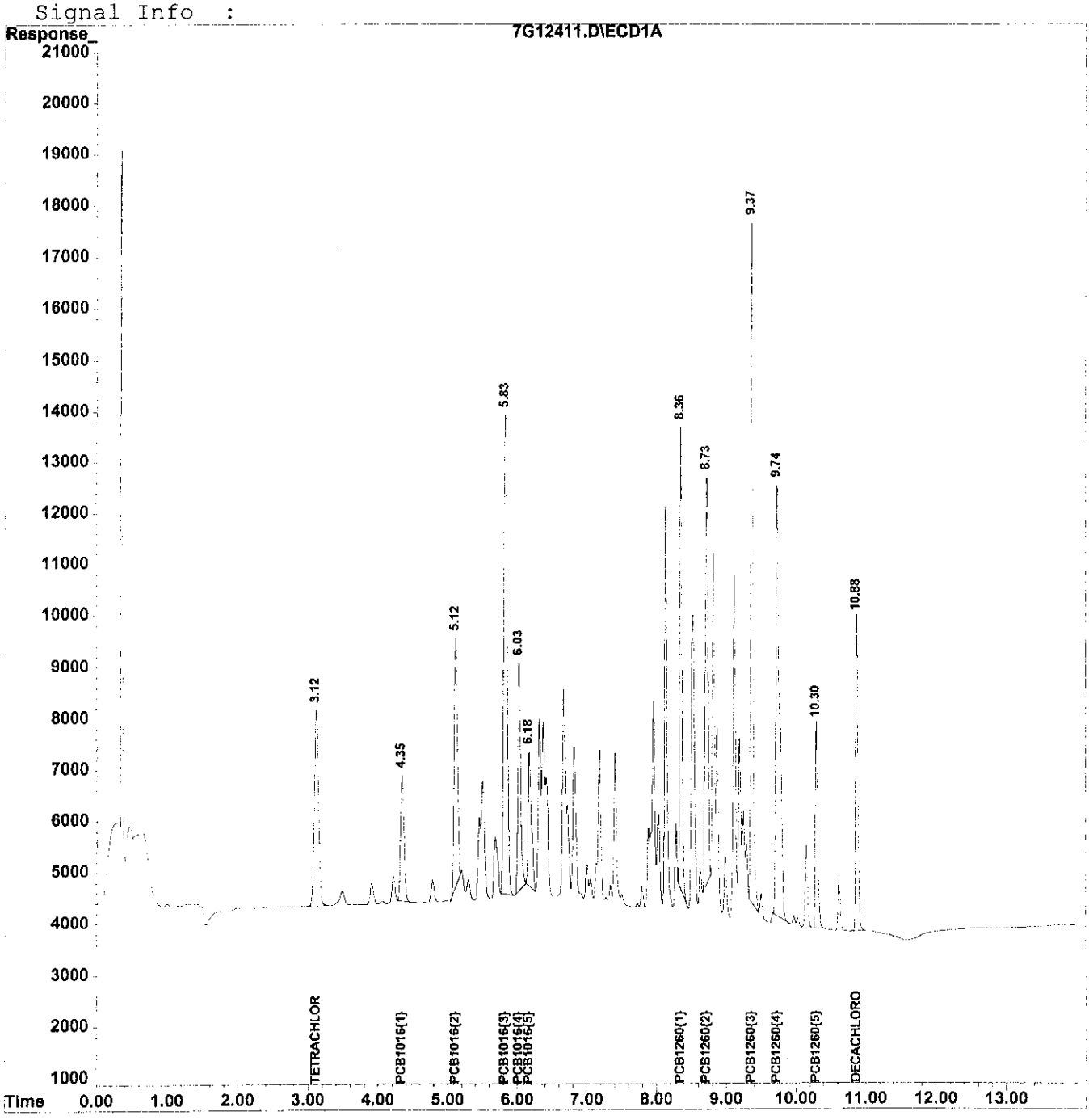
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.12	158682	84.945 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 424.72%#	
12) S DECACHLOROBIPHENYL	10.88	133754	79.607 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 398.04%#	
Target Compounds			
2) L1 PCB1016{1}	4.35	84076	1778.092 UG/L
3) L1 PCB1016{2}	5.12	159149	1662.501 UG/L
4) L1 PCB1016{3}	5.84	317871	1640.655 UG/L
5) L1 PCB1016{4}	6.04	126820	1699.880 UG/L
6) L1 PCB1016{5}	6.18	86607	1747.012 UG/L
Sum PCB1016		774522	8528.140 UG/L
Average PCB1016			1705.628 UG/L
7) L2 PCB1260{1}	8.36	196244	1539.164 UG/L
8) L2 PCB1260{2}	8.73	217426	1621.883 UG/L
9) L2 PCB1260{3}	9.38	300632	1635.828 UG/L
10) L2 PCB1260{4}	9.74	308478	1623.675 UG/L
11) L2 PCB1260{5}	10.31	92348	1677.058 UG/L
Sum PCB1260		1115127	8097.609 UG/L
Average PCB1260			1619.522 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12411.D 8082F.M Tue May 08 06:10:10 2001 Page 734

Data File : C:\HPCHEM\1\DATA\050701\7G12411.D Vial: 2
Acq On : 7 May 2001 14:12 Operator: SMW
Sample : 1660 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12412.D Vial: 3
Acq On : 7 May 2001 14:31 Operator: SMW
Sample : 1660 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

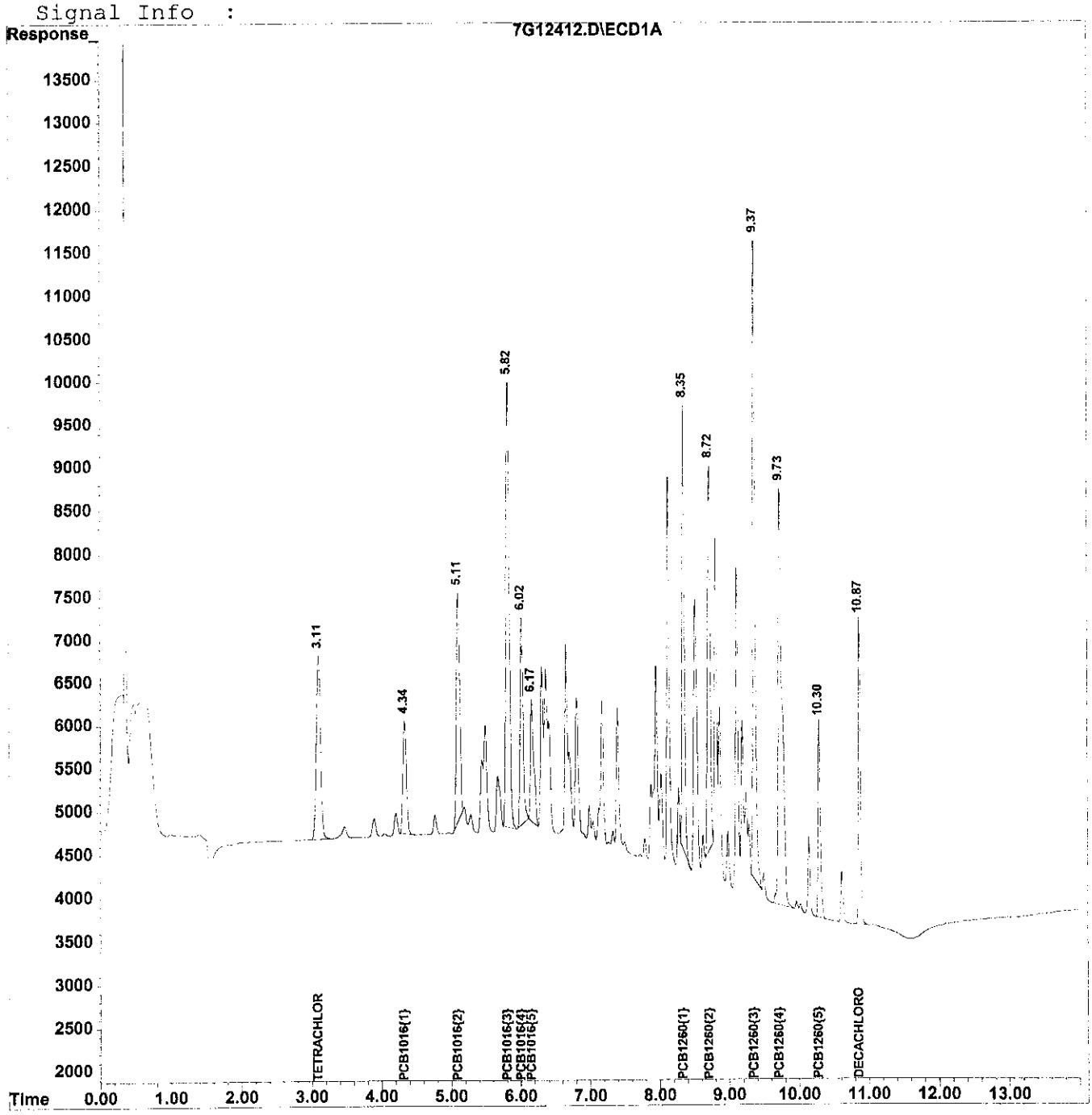
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.11	90829	48.622 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 243.11%#	
12) S DECACHLOROBIPHENYL	10.87	78186	46.534 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 232.67%#	
Target Compounds			
2) L1 PCB1016{1}	4.34	44702	945.381 UG/L
3) L1 PCB1016{2}	5.11	88654	926.094 UG/L
4) L1 PCB1016{3}	5.83	177523	916.262 UG/L
5) L1 PCB1016{4}	6.03	69534	932.030 UG/L
6) L1 PCB1016{5}	6.17	47260	953.323 UG/L
Sum PCB1016		427672	4673.091 UG/L
Average PCB1016			934.618 UG/L
7) L2 PCB1260{1}	8.35	114077	894.719 UG/L
8) L2 PCB1260{2}	8.72	123342	920.068 UG/L
9) L2 PCB1260{3}	9.37	171113	931.079 UG/L
10) L2 PCB1260{4}	9.74	185478	976.262 UG/L
11) L2 PCB1260{5}	10.30	52179	947.587 UG/L
Sum PCB1260		646189	4669.716 UG/L
Average PCB1260			933.943 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12412.D Vial: 3
Acq On : 7 May 2001 14:31 Operator: SMW
Sample : 1660 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12413.D Vial: 4
Acq On : 7 May 2001 14:50 Operator: SMW
Sample : 1660 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

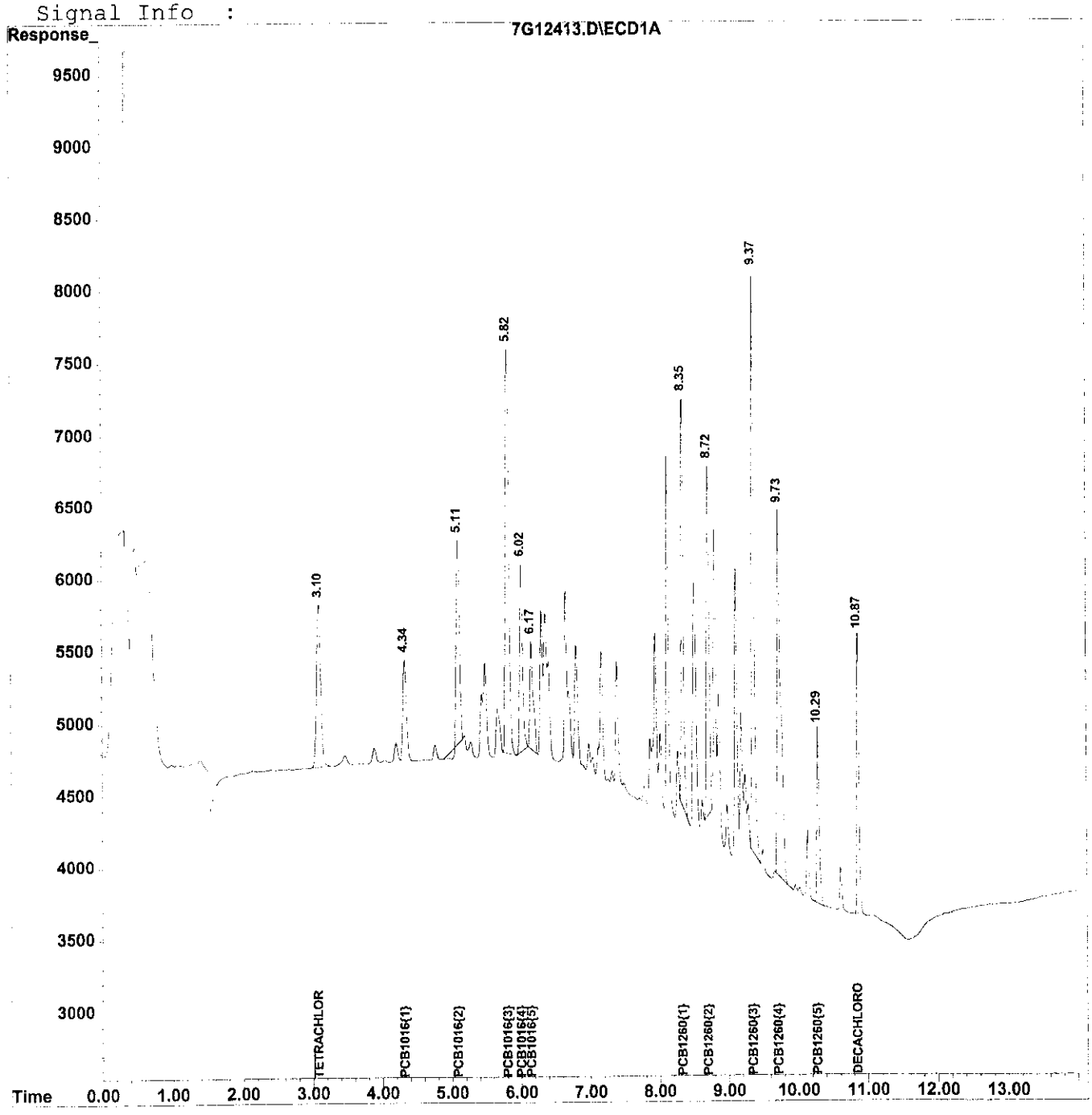
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	47798	25.587 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery = 127.94%	
12) S DECACHLOROBIPHENYL	10.87	42263	25.154 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery = 125.77%	
Target Compounds			
2) L1 PCB1016{1}	4.34	23945	506.403 UG/L
3) L1 PCB1016{2}	5.11	42417	443.100 UG/L
4) L1 PCB1016{3}	5.82	96449	497.809 UG/L
5) L1 PCB1016{4}	6.02	37274	499.619 UG/L
6) L1 PCB1016{5}	6.17	24894	502.153 UG/L
Sum PCB1016		224979	2449.085 UG/L
Average PCB1016			489.817 UG/L
7) L2 PCB1260{1}	8.35	63088	494.804 UG/L
8) L2 PCB1260{2}	8.72	66984	499.668 UG/L
9) L2 PCB1260{3}	9.37	93554	509.058 UG/L
10) L2 PCB1260{4}	9.73	94443	497.101 UG/L
11) L2 PCB1260{5}	10.30	28161	511.416 UG/L
Sum PCB1260		346231	2512.049 UG/L
Average PCB1260			502.410 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12413.D 8082F.M Tue May 08 06:10:19 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12413.D Vial: 4
Acq On : 7 May 2001 14:50 Operator: SMW
Sample : 1660 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12414.D Vial: 5
Acq On : 7 May 2001 15:09 Operator: SMW
Sample : 1660 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

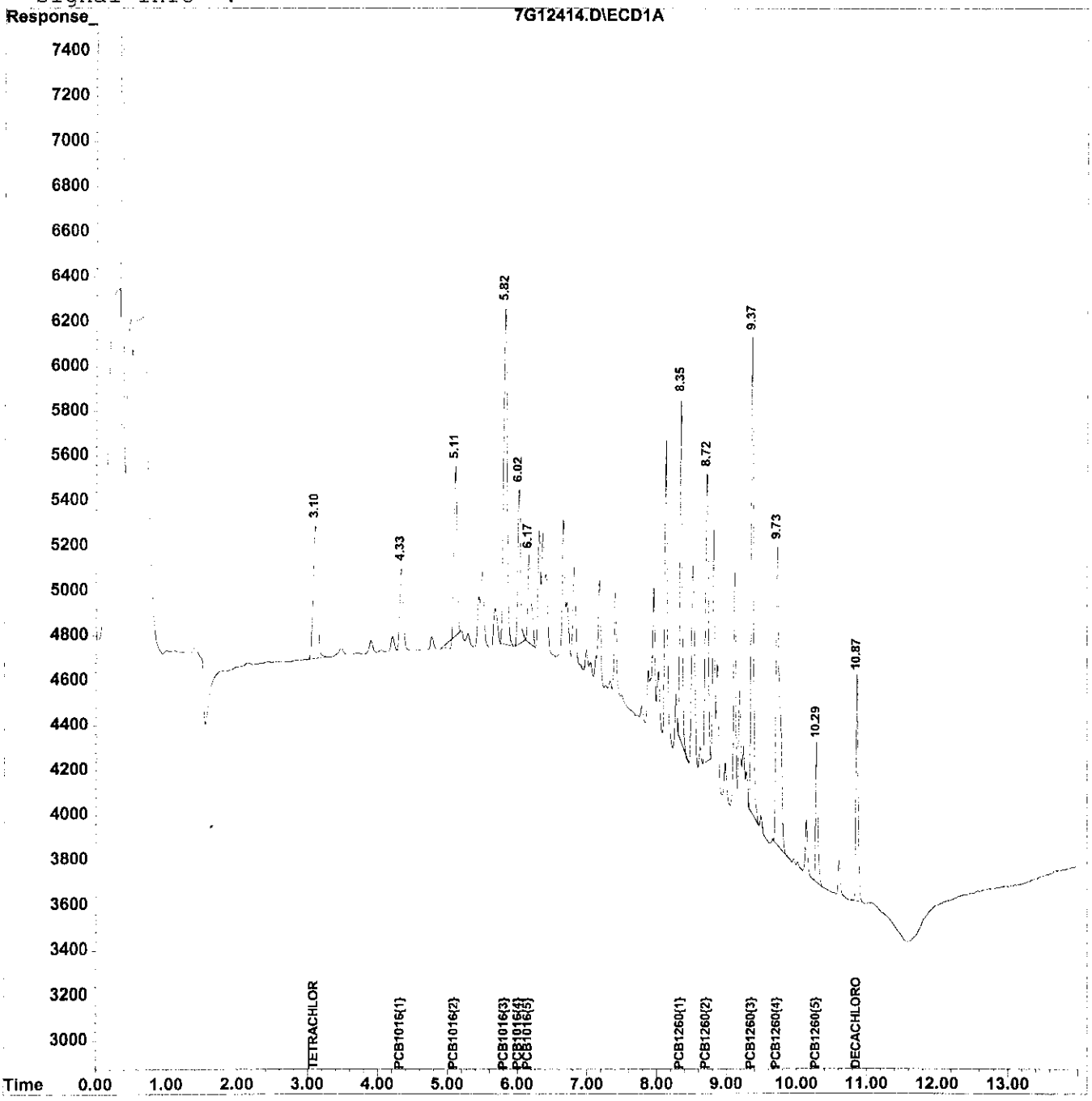
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	25191	13.485 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	67.43%
12) S DECACHLOROBIPHENYL	10.87	21932	13.053 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	65.27%
Target Compounds			
2) L1 PCB1016{1}	4.34	12278	259.664 UG/L
3) L1 PCB1016{2}	5.11	22850	238.695 UG/L
4) L1 PCB1016{3}	5.82	51813	267.427 UG/L
5) L1 PCB1016{4}	6.02	19725	264.389 UG/L
6) L1 PCB1016{5}	6.17	13045	263.137 UG/L
Sum PCB1016		119711	1293.312 UG/L
Average PCB1016			258.662 UG/L
7) L2 PCB1260{1}	8.35	34081	267.302 UG/L
8) L2 PCB1260{2}	8.72	35570	265.331 UG/L
9) L2 PCB1260{3}	9.37	49882	271.425 UG/L
10) L2 PCB1260{4}	9.73	49384	259.931 UG/L
11) L2 PCB1260{5}	10.30	14521	263.708 UG/L
Sum PCB1260		183438	1327.696 UG/L
Average PCB1260			265.539 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12414.D Vial: 5
Acq On : 7 May 2001 15:09 Operator: SMW
Sample : 1660 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:10 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12415.D Vial: 6
Acq On : 7 May 2001 15:29 Operator: SMW
Sample : 1660 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/02/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

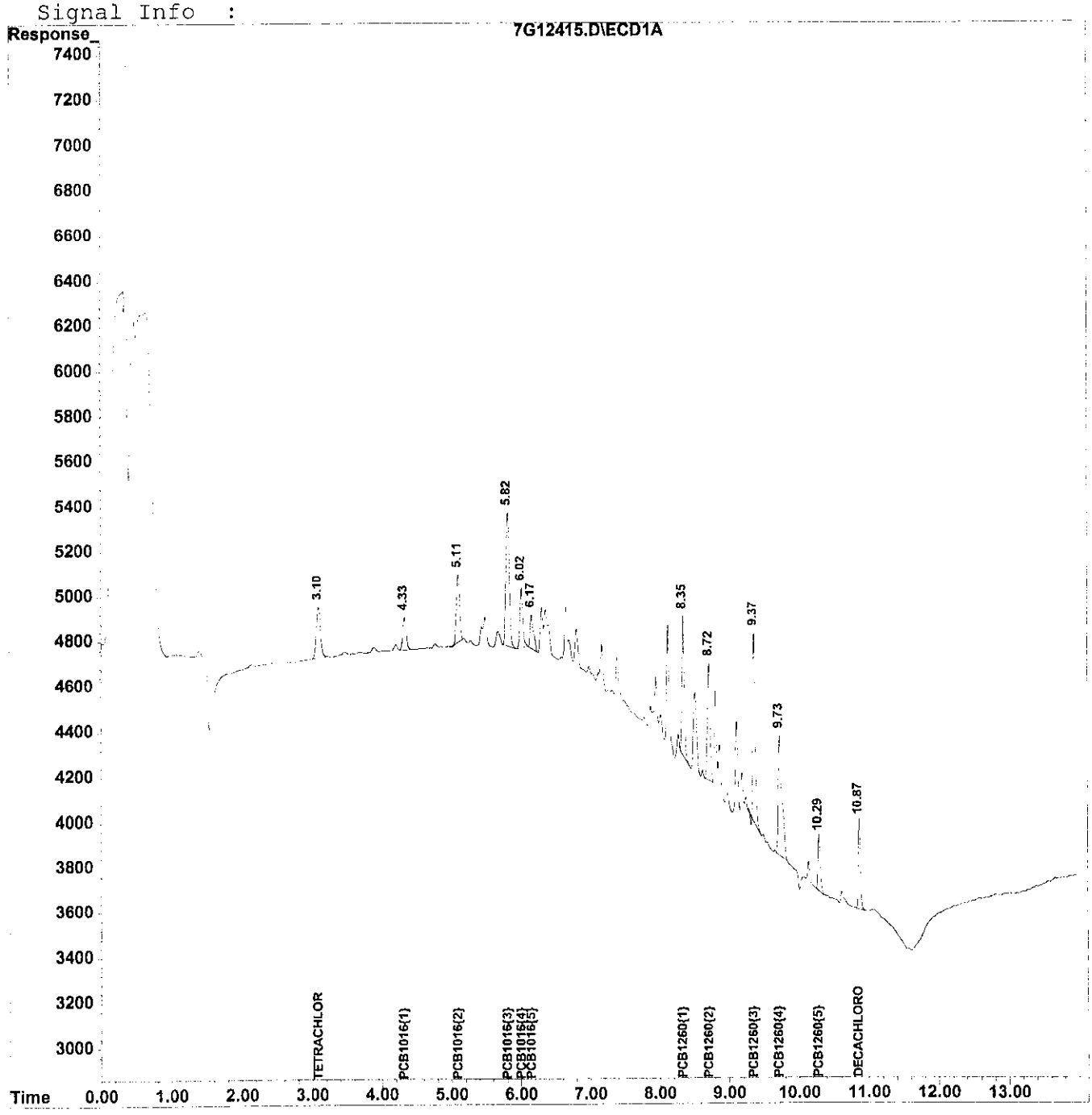
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		3.10	9540	5.119 UG/L
Spiked Amount	20.000	Range 13 - 154		Recovery =	25.60%
12) S	DECACHLOROBIPHENYL		10.87	8789	5.280 UG/L
Spiked Amount	20.000	Range 25 - 140		Recovery =	26.40%
Target Compounds					
2) L1	PCB1016{1}		4.34	4938	105.094 UG/L
3) L1	PCB1016{2}		5.11	9969	103.952 UG/L
4) L1	PCB1016{3}		5.82	20554	106.109 UG/L
5) L1	PCB1016{4}		6.02	7823	105.008 UG/L
6) L1	PCB1016{5}		6.17	5168	104.527 UG/L
Sum	PCB1016			48453	524.689 UG/L
Average	PCB1016				104.938 UG/L
7) L2	PCB1260{1}		8.35	13974	109.637 UG/L
8) L2	PCB1260{2}		8.72	14295	106.661 UG/L
9) L2	PCB1260{3}		9.37	18943	101.454 UG/L
10) L2	PCB1260{4}		9.73	19319	100.679 UG/L
11) L2	PCB1260{5}		10.29	5791	106.262 UG/L
Sum	PCB1260			72321	524.693 UG/L
Average	PCB1260				104.939 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12415.D Vial: 6
Acq On : 7 May 2001 15:29 Operator: SMW
Sample : 1660 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:08 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/02/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12416.D Vial: 7
Acq On : 7 May 2001 15:48 Operator: SMW
Sample : 1660 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:07 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/02/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

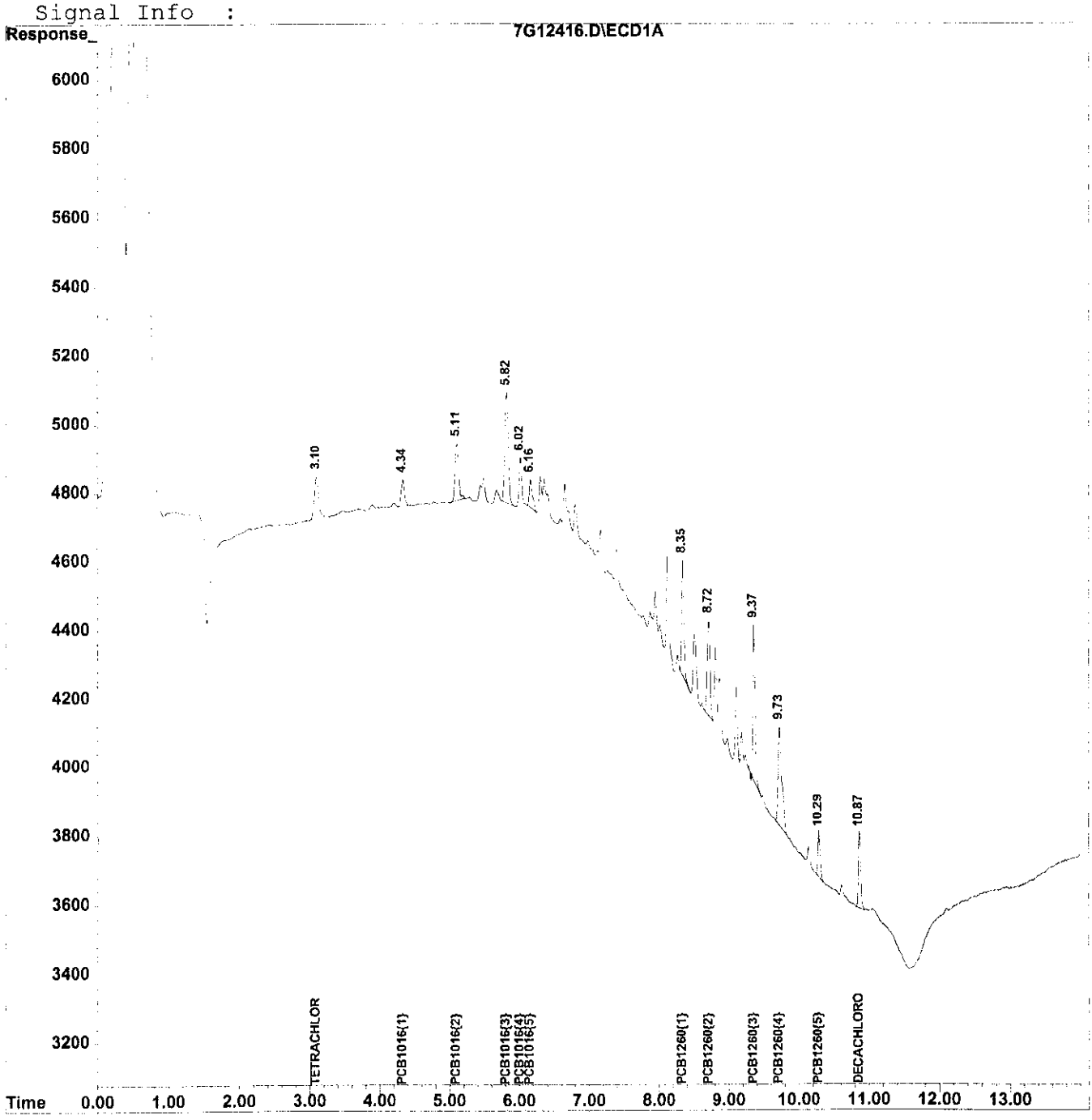
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	5078	2.765 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	13.83%
12) S DECACHLOROBIPHENYL	10.87	4953	3.124 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	15.62%#
Target Compounds			
2) L1 PCB1016{1}	4.34	2507	54.087 UG/L
3) L1 PCB1016{2}	5.11	6055	64.550 UG/L
4) L1 PCB1016{3}	5.82	11017	56.783 UG/L
5) L1 PCB1016{4}	6.02	4105	55.740 UG/L
6) L1 PCB1016{5}	6.17	2682	55.179 UG/L
Sum PCB1016		26366	286.338 UG/L
Average PCB1016			57.268 UG/L
7) L2 PCB1260{1}	8.35	7528	59.184 UG/L
8) L2 PCB1260{2}	8.72	7654	57.196 UG/L
9) L2 PCB1260{3}	9.37	10259	55.038 UG/L
10) L2 PCB1260{4}	9.73	10536	54.717 UG/L
11) L2 PCB1260{5}	10.29	2987	56.164 UG/L
Sum PCB1260		38965	282.299 UG/L
Average PCB1260			56.460 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12416.D Vial: 7
Acq On : 7 May 2001 15:48 Operator: SMW
Sample : 1660 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:07 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/02/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12417.D Vial: 8
Acq On : 7 May 2001 16:07 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	21.895	12.4	86	0.00
2	L1	PCB1016{1}	500.000	436.870	12.6	87	0.00
3	L1	PCB1016{2}	500.000	431.648	13.7	88	0.00
4	L1	PCB1016{3}	500.000	437.508	12.5	88	0.00
5	L1	PCB1016{4}	500.000	434.558	13.1	87	0.00
6	L1	PCB1016{5}	500.000	436.526	12.7	87	0.00
7	L2	PCB1260{1}	500.000	450.929	9.8	91	0.00
8	L2	PCB1260{2}	500.000	493.911	1.2	99	0.00
9	L2	PCB1260{3}	500.000	424.554	15.1#	83	0.00
10	L2	PCB1260{4}	500.000	407.964	18.4#	82	0.00
11	L2	PCB1260{5}	500.000	389.282	22.1#	76	0.00
12	S	DECACHLOROBIPHENYL	25.000	25.938	-3.8	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12417.D 8082F.M Tue May 08 06:11:58 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12417.D Vial: 8
Acq On : 7 May 2001 16:07 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:11 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

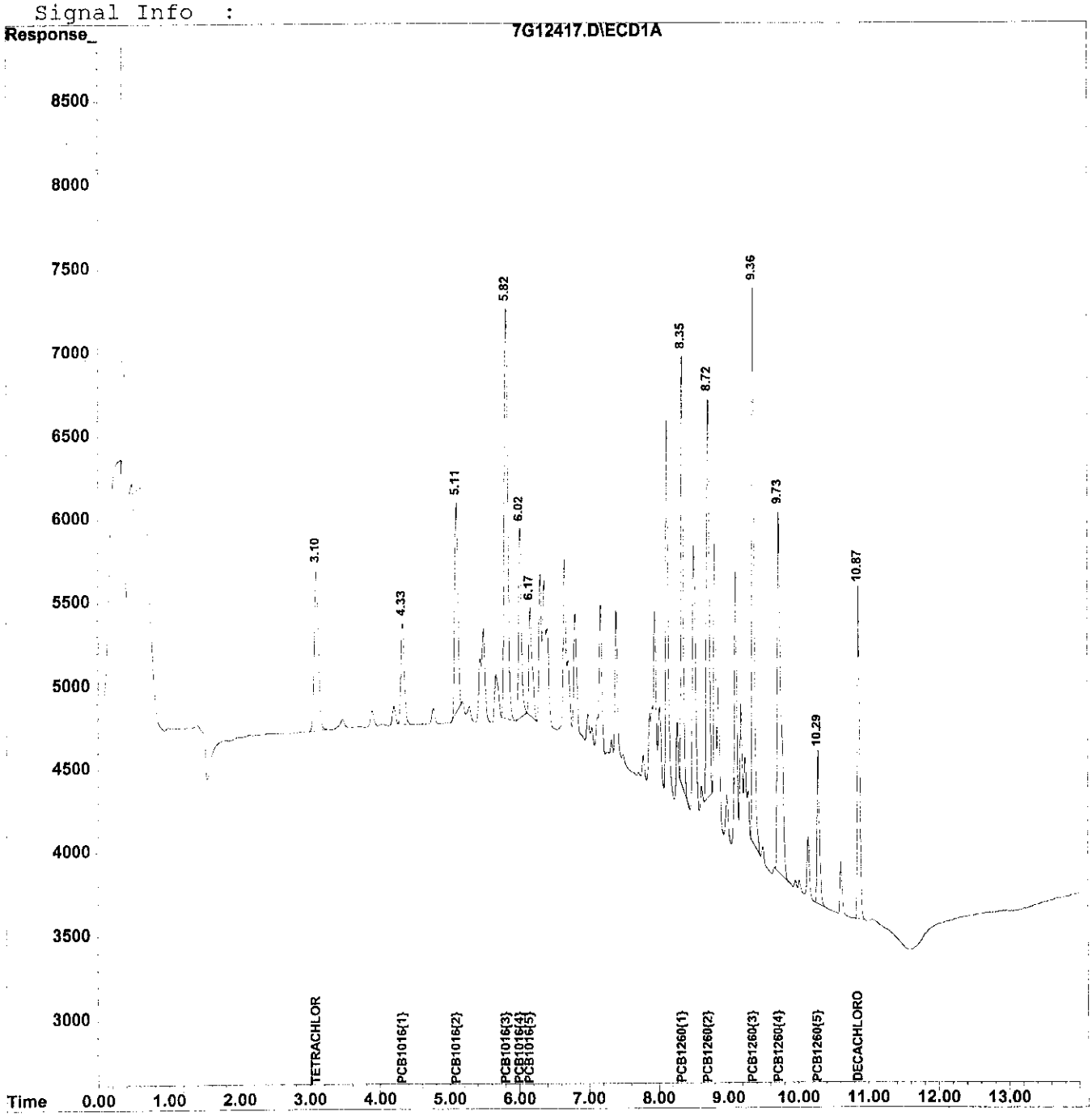
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	40901	21.895 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 109.48%	
12) S DECACHLOROBIPHENYL	10.87	43580	25.938 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 129.69%	
Target Compounds			
2) L1 PCB1016{1}	4.34	20657	436.870 UG/L
3) L1 PCB1016{2}	5.11	41321	431.648 UG/L
4) L1 PCB1016{3}	5.82	84766	437.508 UG/L
5) L1 PCB1016{4}	6.02	32420	434.558 UG/L
6) L1 PCB1016{5}	6.17	21640	436.526 UG/L
Sum PCB1016		200804	2177.110 UG/L
Average PCB1016			435.422 UG/L
7) L2 PCB1260{1}	8.35	57493	450.929 UG/L
8) L2 PCB1260{2}	8.72	66213	493.911 UG/L
9) L2 PCB1260{3}	9.37	78024	424.554 UG/L
10) L2 PCB1260{4}	9.73	77508	407.964 UG/L
11) L2 PCB1260{5}	10.30	21436	389.282 UG/L
Sum PCB1260		300674	2166.639 UG/L
Average PCB1260			433.328 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12417.D Vial: 8
Acq On : 7 May 2001 16:07 Operator: SMW
Sample : 1660 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:11 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001

Calibration Files
50 =7G12423.D 100 =7G12422.D 250 =7G12421.D
500 =7G12420.D 1000 =7G12419.D 2000 =7G12418.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	1.758	1.709	1.696	1.762	1.649	1.629	1.701	E3	3.21
2)	L1	PCB1254{1}	6.757	6.559	6.534	6.810	6.330	6.014	6.501	E1	4.52
3)	L1	PCB1254{2}	9.256	8.549	8.018	8.007	7.103	6.531	7.911	E1	12.38
4)	L1	PCB1254{3}	1.118	1.063	1.038	1.052	0.954	0.901	1.021	E2	7.75
5)	L1	PCB1254{4}	1.171	1.217	1.102	1.197	1.083	1.045	1.136	E2	6.04
6)	L1	PCB1254{5}	3.357	3.063	3.248	3.350	3.102	3.106	3.204	E1	4.11
7)	S	DECACHLOROBIPHENYL	2.056	2.012	1.972	2.013	1.798	1.802	1.942	E3	5.83

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\050701\7G12418.D Vial: 9
Acq On : 7 May 2001 16:26 Operator: SMW
Sample : 1254 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

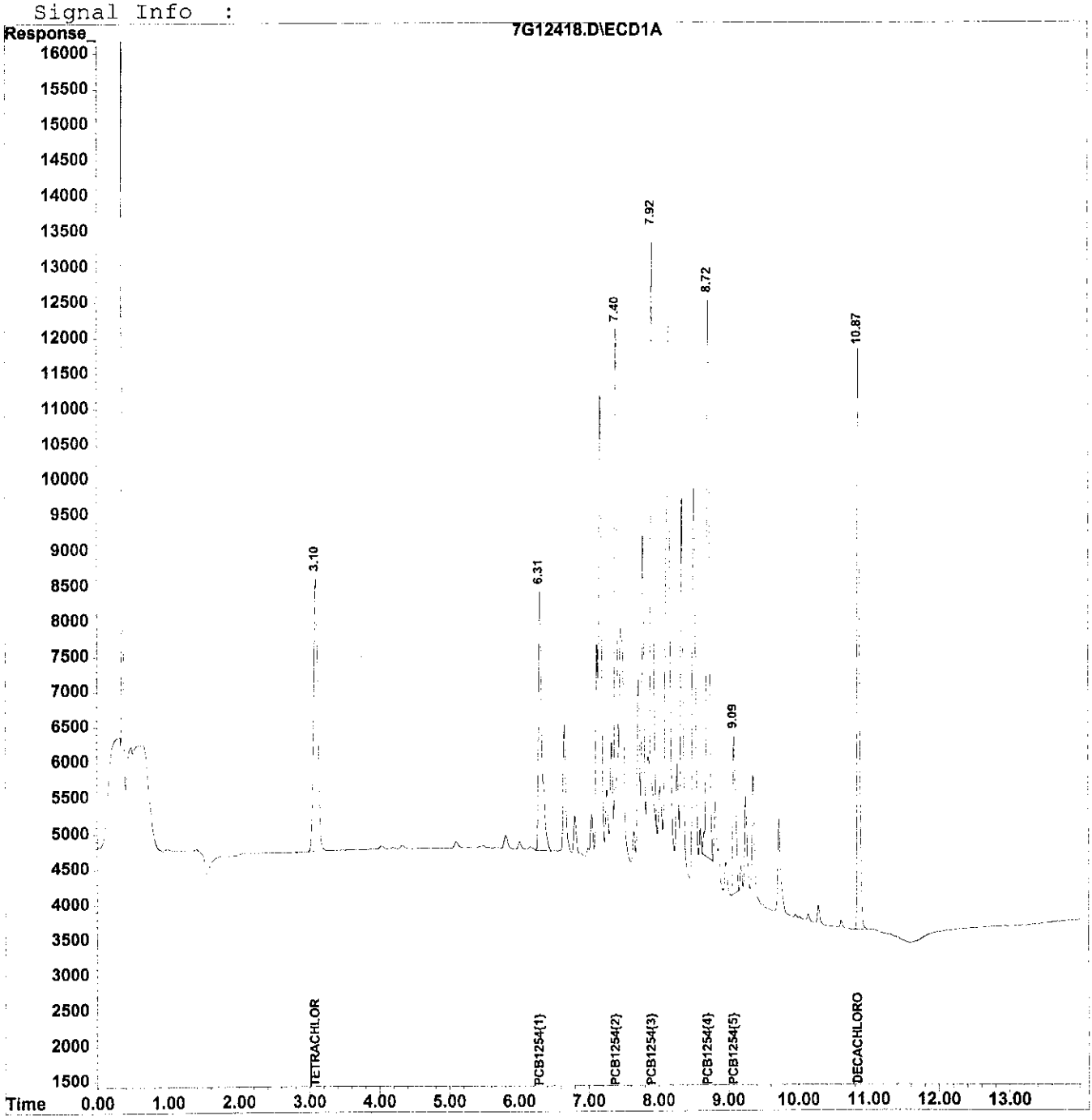
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	162889	95.785 UG/L
Spiked Amount 20.000	Range 27 - 132	Recovery = 478.93%#	
7) S DECACHLOROBIPHENYL	10.87	180243	92.804 UG/L
Spiked Amount 20.000	Range 50 - 150	Recovery = 464.02%#	
Target Compounds			
2) L1 PCB1254{1}	6.31	120270	1850.159 UG/L
3) L1 PCB1254{2}	7.40	130611	1651.097 UG/L
4) L1 PCB1254{3}	7.92	180253	1765.223 UG/L
5) L1 PCB1254{4}	8.72	209037	1840.597 UG/L
6) L1 PCB1254{5}	9.09	62122	1938.779 UG/L
Sum PCB1254		702294	9045.856 UG/L
Average PCB1254			1809.171 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12418.D Vial: 9
Acq On : 7 May 2001 16:26 Operator: SMW
Sample : 1254 ICAL 2.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12419.D Vial: 10
Acq On : 7 May 2001 16:45 Operator: SMW
Sample : 1254 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

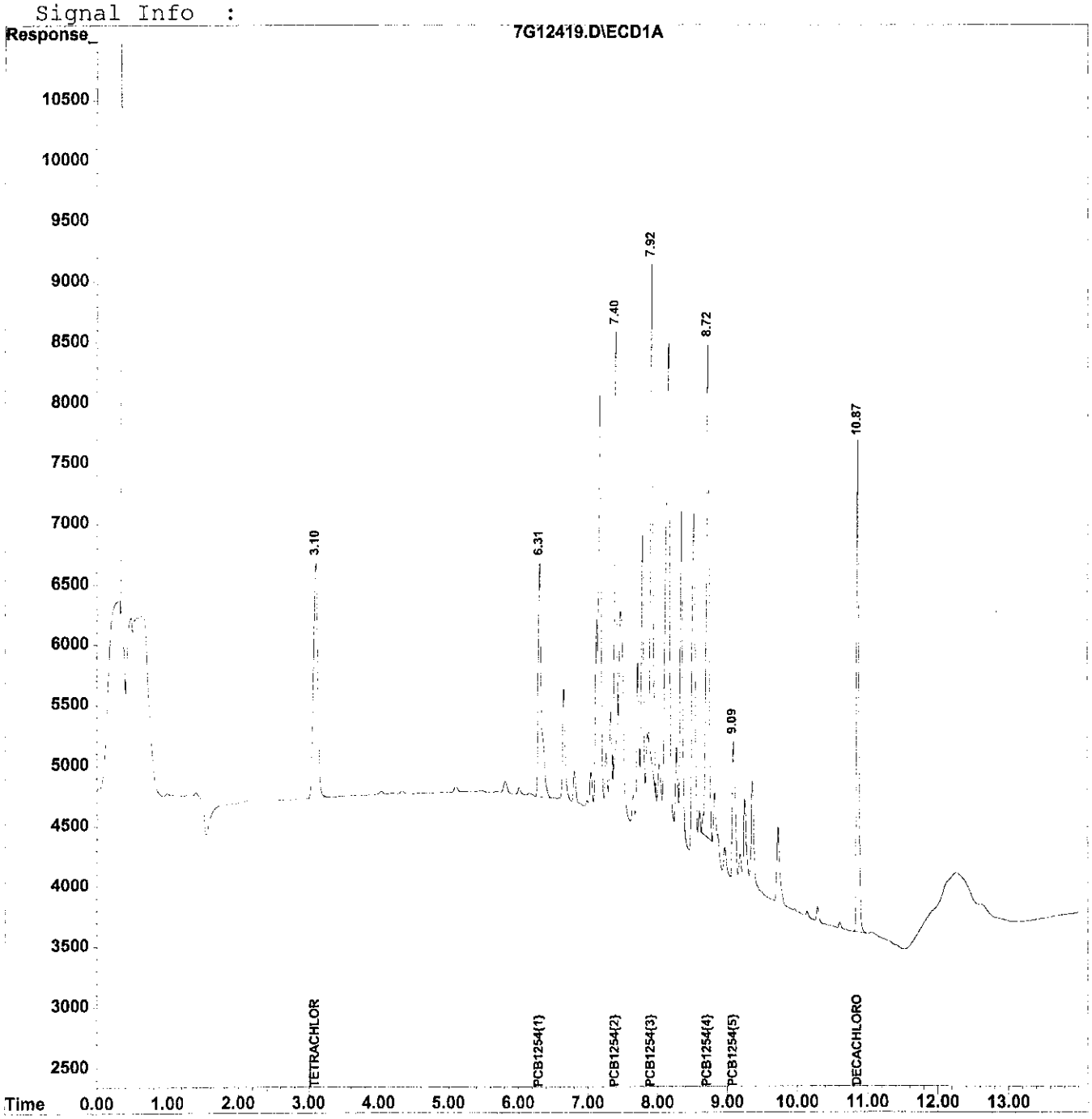
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	82470	48.496 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 242.48%#	
7) S DECACHLOROBIPHENYL	10.87	89879	46.277 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 231.39%#	
Target Compounds			
2) L1 PCB1254{1}	6.31	63298	973.737 UG/L
3) L1 PCB1254{2}	7.40	71032	897.939 UG/L
4) L1 PCB1254{3}	7.92	95422	934.470 UG/L
5) L1 PCB1254{4}	8.72	108321	953.775 UG/L
6) L1 PCB1254{5}	9.09	31015	967.955 UG/L
Sum PCB1254		369088	4727.875 UG/L
Average PCB1254			945.575 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12419.D 1254FCG.M Tue May 08 06:13:17 2001 Page 15

Data File : C:\HPCHEM\1\DATA\050701\7G12419.D Vial: 10
Acq On : 7 May 2001 16:45 Operator: SMW
Sample : 1254 ICAL 1.0 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12420.D Vial: 11
Acq On : 7 May 2001 17:04 Operator: SMW
Sample : 1254 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

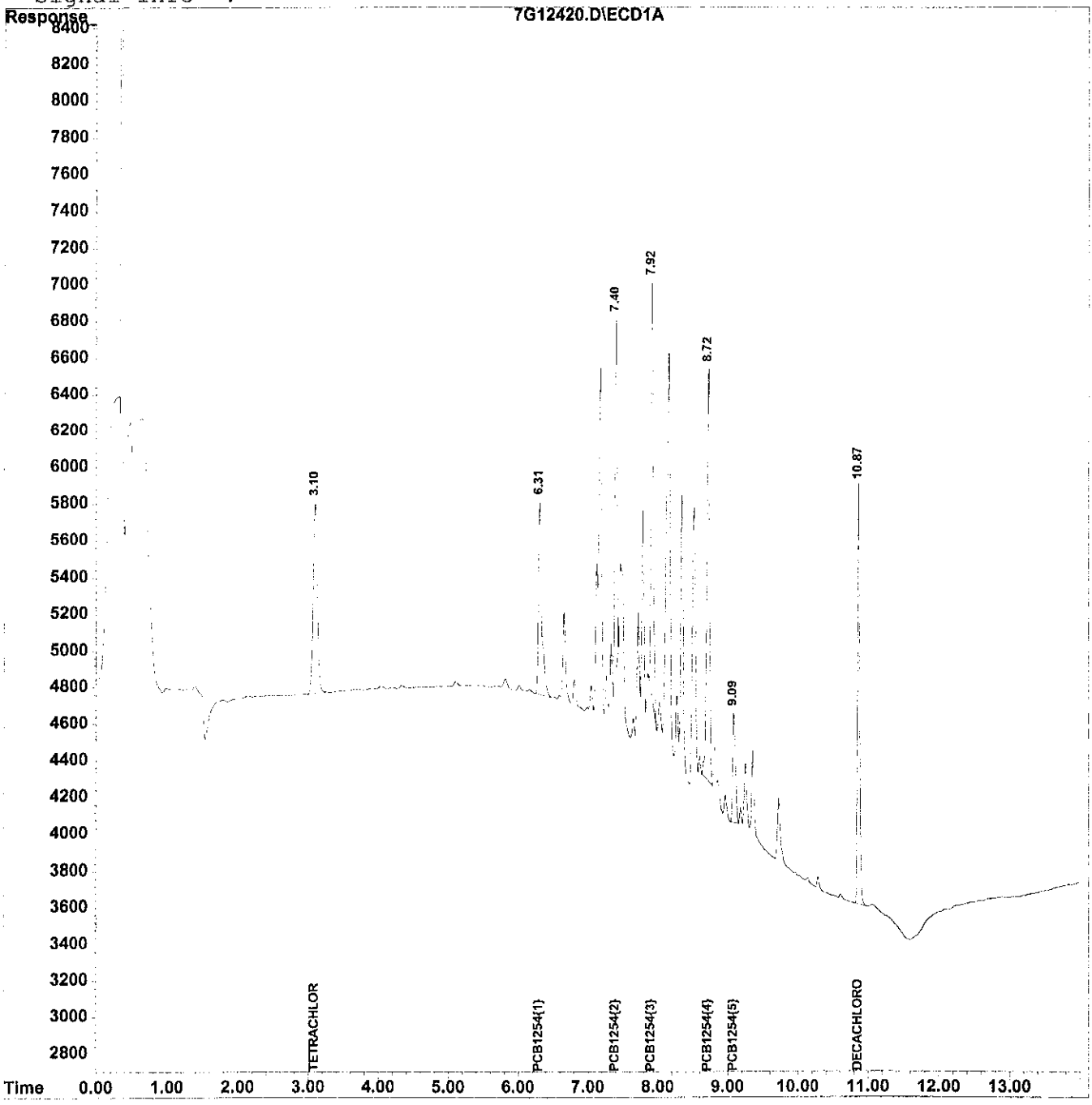
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	44050	25.903 UG/L
Spiked Amount 20.000	Range 27 - 132	Recovery = 129.52%	
7) S DECACHLOROBIPHENYL	10.87	50336	25.917 UG/L
Spiked Amount 20.000	Range 50 - 150	Recovery = 129.59%	
Target Compounds			
2) L1 PCB1254{1}	6.31	34050	523.804 UG/L
3) L1 PCB1254{2}	7.40	40036	506.102 UG/L
4) L1 PCB1254{3}	7.92	52600	515.118 UG/L
5) L1 PCB1254{4}	8.72	59831	526.817 UG/L
6) L1 PCB1254{5}	9.09	16749	522.730 UG/L
Sum PCB1254		203266	2594.570 UG/L
Average PCB1254			518.914 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12420.D 1254FCG.M Tue May 08 06:13:21 2001 Page 754

Data File : C:\HPCHEM\1\DATA\050701\7G12420.D Vial: 11
Acq On : 7 May 2001 17:04 Operator: SMW
Sample : 1254 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12421.D Vial: 12
Acq On : 7 May 2001 17:23 Operator: SMW
Sample : 1254 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

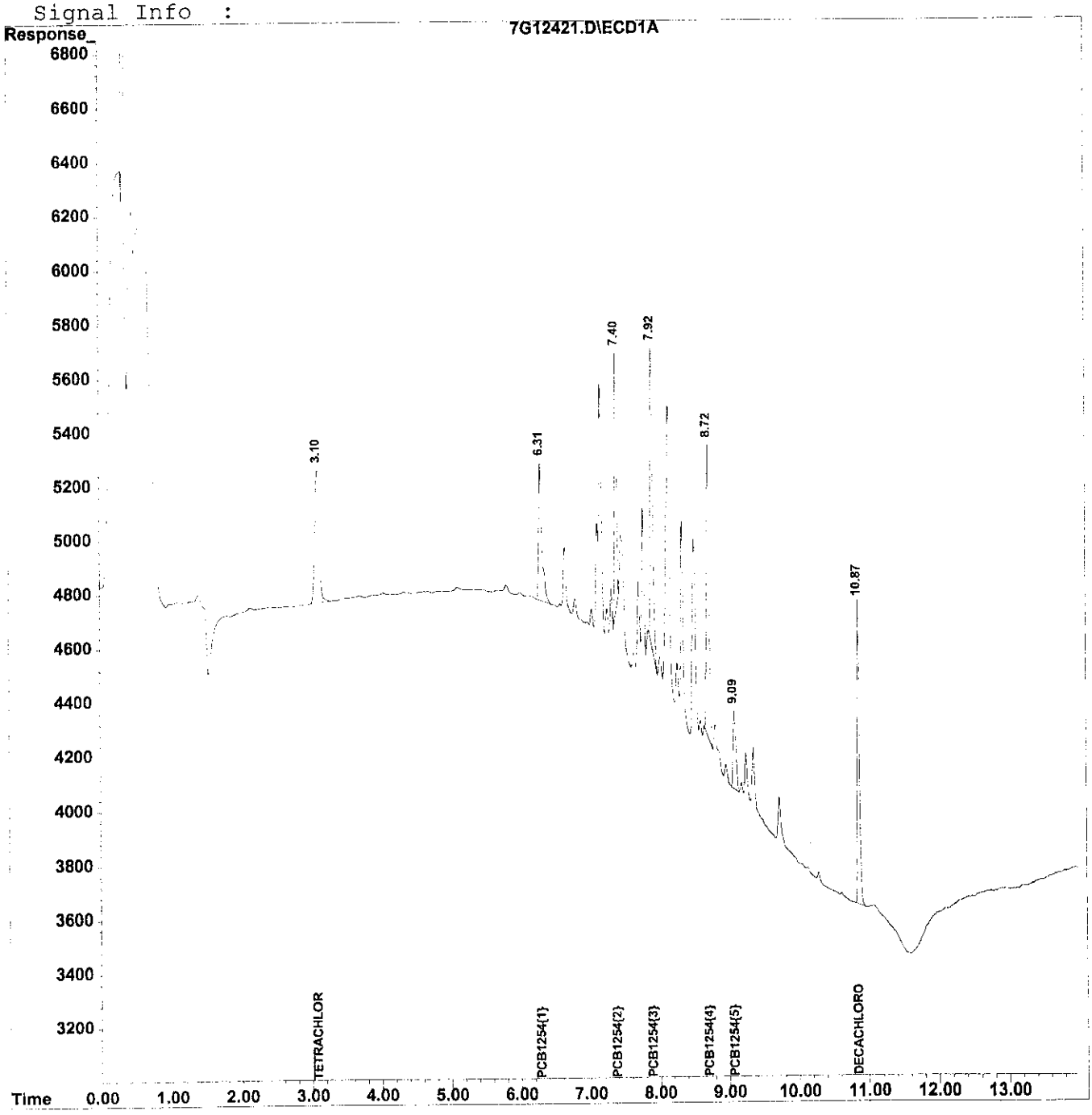
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		3.10	21197	12.465 UG/L
Spiked Amount	20.000	Range	27 - 132	Recovery =	62.33%
7) S	DECACHLOROBIPHENYL		10.87	24655	12.694 UG/L
Spiked Amount	20.000	Range	50 - 150	Recovery =	63.47%
Target Compounds					
2) L1	PCB1254{1}		6.31	16334	251.275 UG/L
3) L1	PCB1254{2}		7.40	20045	253.390 UG/L
4) L1	PCB1254{3}		7.92	25944	254.067 UG/L
5) L1	PCB1254{4}		8.72	27550	242.582 UG/L
6) L1	PCB1254{5}		9.09	8120	253.429 UG/L
Sum	PCB1254			97993	1254.744 UG/L
Average	PCB1254				250.949 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12421.D Vial: 12
Acq On : 7 May 2001 17:23 Operator: SMW
Sample : 1254 ICAL 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12422.D Vial: 13
Acq On : 7 May 2001 17:42 Operator: SMW
Sample : 1254 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

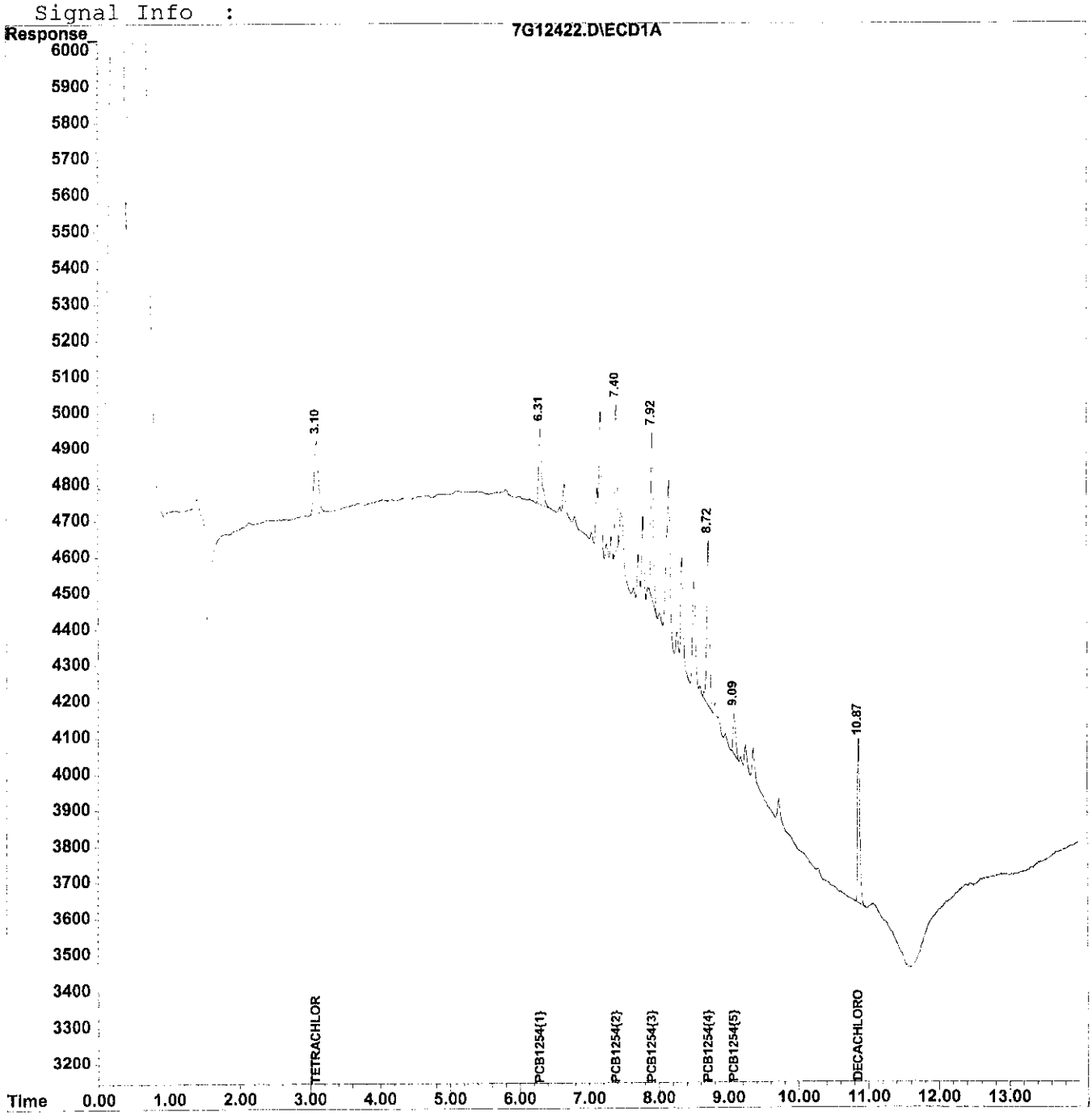
Compound		R.T.	Response	Conc Units
System Monitoring Compounds				
1) S	TETRACHLORO-M-XYL	3.10	8546	5.025 UG/L
Spiked Amount	20.000 Range	27 - 132	Recovery =	25.13%#
7) S	DECACHLOROBIPHENYL	10.87	10058	5.179 UG/L
Spiked Amount	20.000 Range	50 - 150	Recovery =	25.90%#
Target Compounds				
2) L1	PCB1254{1}	6.31	6559	100.905 UG/L
3) L1	PCB1254{2}	7.40	8549	108.067 UG/L
4) L1	PCB1254{3}	7.92	10632	104.123 UG/L
5) L1	PCB1254{4}	8.72	12167	107.130 UG/L
6) L1	PCB1254{5}	9.09	3063	95.586 UG/L
Sum	PCB1254		40970	515.811 UG/L
Average	PCB1254			103.162 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12422.D Vial: 13
Acq On : 7 May 2001 17:42 Operator: SMW
Sample : 1254 ICAL 0.1 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12423.D Vial: 14
Acq On : 7 May 2001 18:00 Operator: SMW
Sample : 1254 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

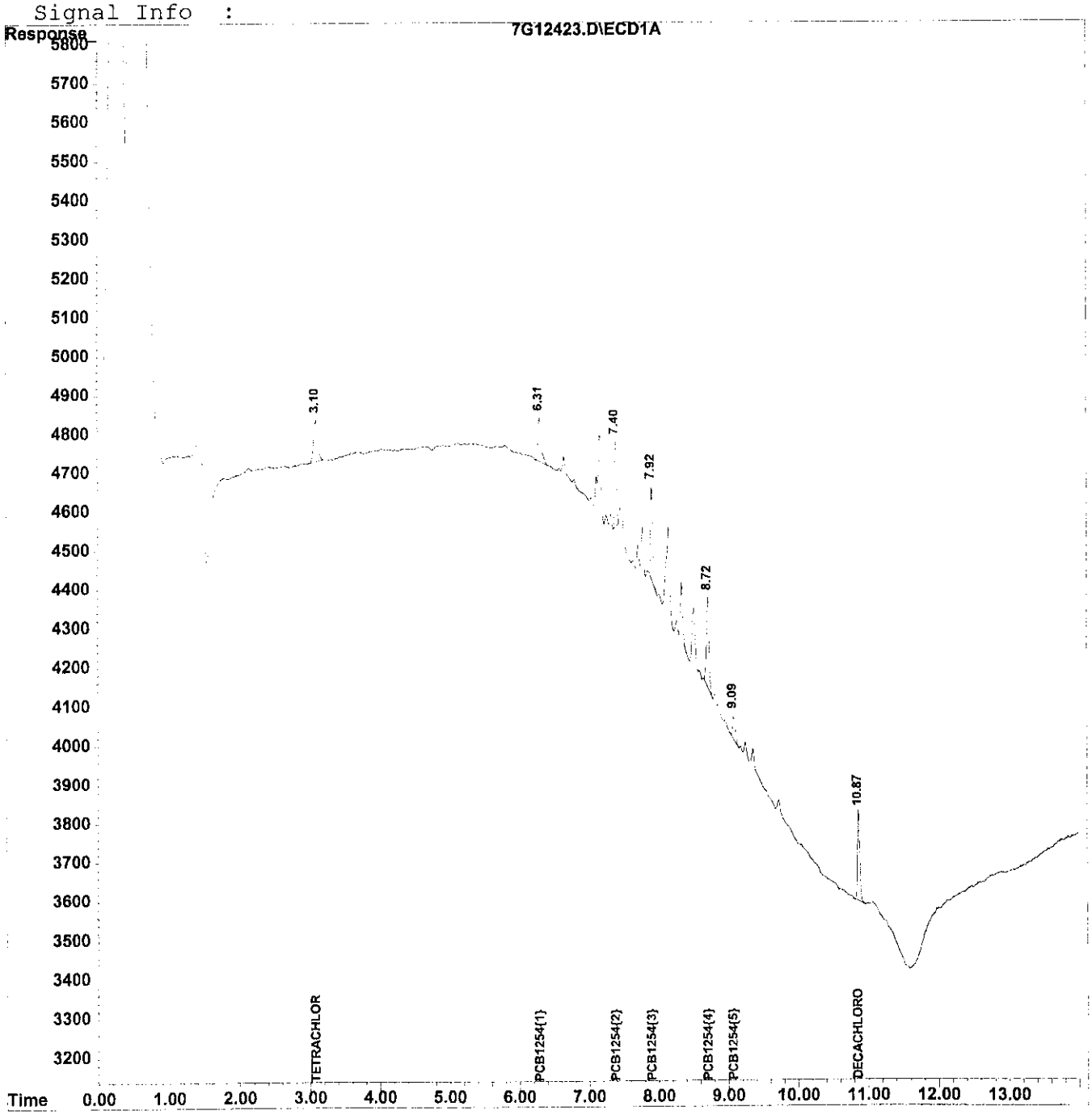
Compound			R.T.	Response	Conc Units
System Monitoring Compounds					
1) S	TETRACHLORO-M-XYL		3.10	4395	2.585 UG/L
Spiked Amount	20.000	Range	27 - 132	Recovery =	12.93%#
7) S	DECACHLOROBIPHENYL		10.87	5140	2.646 UG/L
Spiked Amount	20.000	Range	50 - 150	Recovery =	13.23%#
Target Compounds					
2) L1	PCB1254{1}		6.31	3378	51.971 UG/L
3) L1	PCB1254{2}		7.40	4628	58.504 UG/L
4) L1	PCB1254{3}		7.92	5592	54.759 UG/L
5) L1	PCB1254{4}		8.72	5853	51.533 UG/L
6) L1	PCB1254{5}		9.09	1678	52.381 UG/L
Sum	PCB1254			21129	269.148 UG/L
Average	PCB1254				53.830 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12423.D Vial: 14
Acq On : 7 May 2001 18:00 Operator: SMW
Sample : 1254 ICAL 0.05 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12424.D Vial: 15
Acq On : 7 May 2001 18:19 Operator: SMW
Sample : 1254 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	26.478	-5.9	102	0.00
2	L1	PCB1254{1}	500.000	550.634	-10.1	105	0.00
3	L1	PCB1254{2}	500.000	478.809	4.2	95	0.00
4	L1	PCB1254{3}	500.000	499.449	0.1	97	0.00
5	L1	PCB1254{4}	500.000	451.873	9.6	86	0.00
6	L1	PCB1254{5}	500.000	454.840	9.0	87	0.00
7	S	DECACHLOROBIPHENYL	25.000	26.897	-7.6	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12424.D 1254FCG.M Tue May 08 06:14:05 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12424.D Vial: 15
Acq On : 7 May 2001 18:19 Operator: SMW
Sample : 1254 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

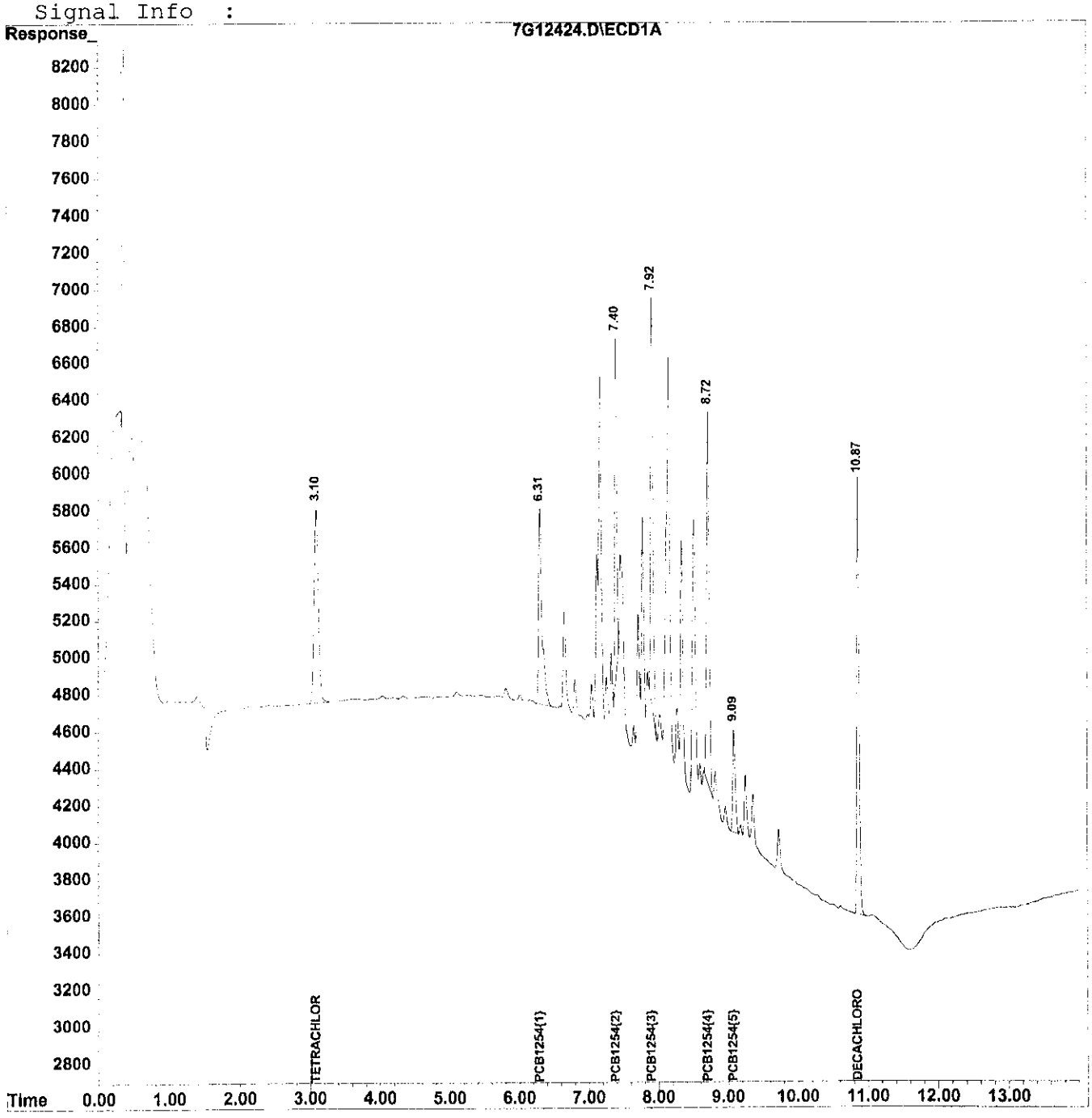
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	45028	26.478 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 132.39%#	
7) S DECACHLOROBIPHENYL	10.87	52240	26.897 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 134.49%	
Target Compounds			
2) L1 PCB1254{1}	6.31	35794	550.634 UG/L
3) L1 PCB1254{2}	7.40	37877	478.809 UG/L
4) L1 PCB1254{3}	7.92	51000	499.449 UG/L
5) L1 PCB1254{4}	8.72	51319	451.873 UG/L
6) L1 PCB1254{5}	9.09	14574	454.840 UG/L
Sum PCB1254		190564	2435.604 UG/L
Average PCB1254			487.121 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12424.D Vial: 15
Acq On : 7 May 2001 18:19 Operator: SMW
Sample : 1254 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 8 6:13 2001 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 05/07/01
Last Update : Tue May 08 06:12:18 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000

Calibration Files
500 =7G12425.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	1.773	1.773 E3	0.00
2)	L1	PCB1221{1}	6.973	6.973 E1	0.00
3)	L1	PCB1221{2}	1.104	1.104 E1	0.00
4)	L1	PCB1221{3}	2.397	2.397 E1	0.00
5)	L1	PCB1221{4}	1.537	1.537 E1	0.00
6)	L1	PCB1221{5}	6.305	6.305 E1	0.00
7)	S	DECACHLOROBIPHENYL	1.901	1.901 E3	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\050701\7G12425.D Vial: 16
Acq On : 7 May 2001 18:38 Operator: SMW
Sample : 1221 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:15 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

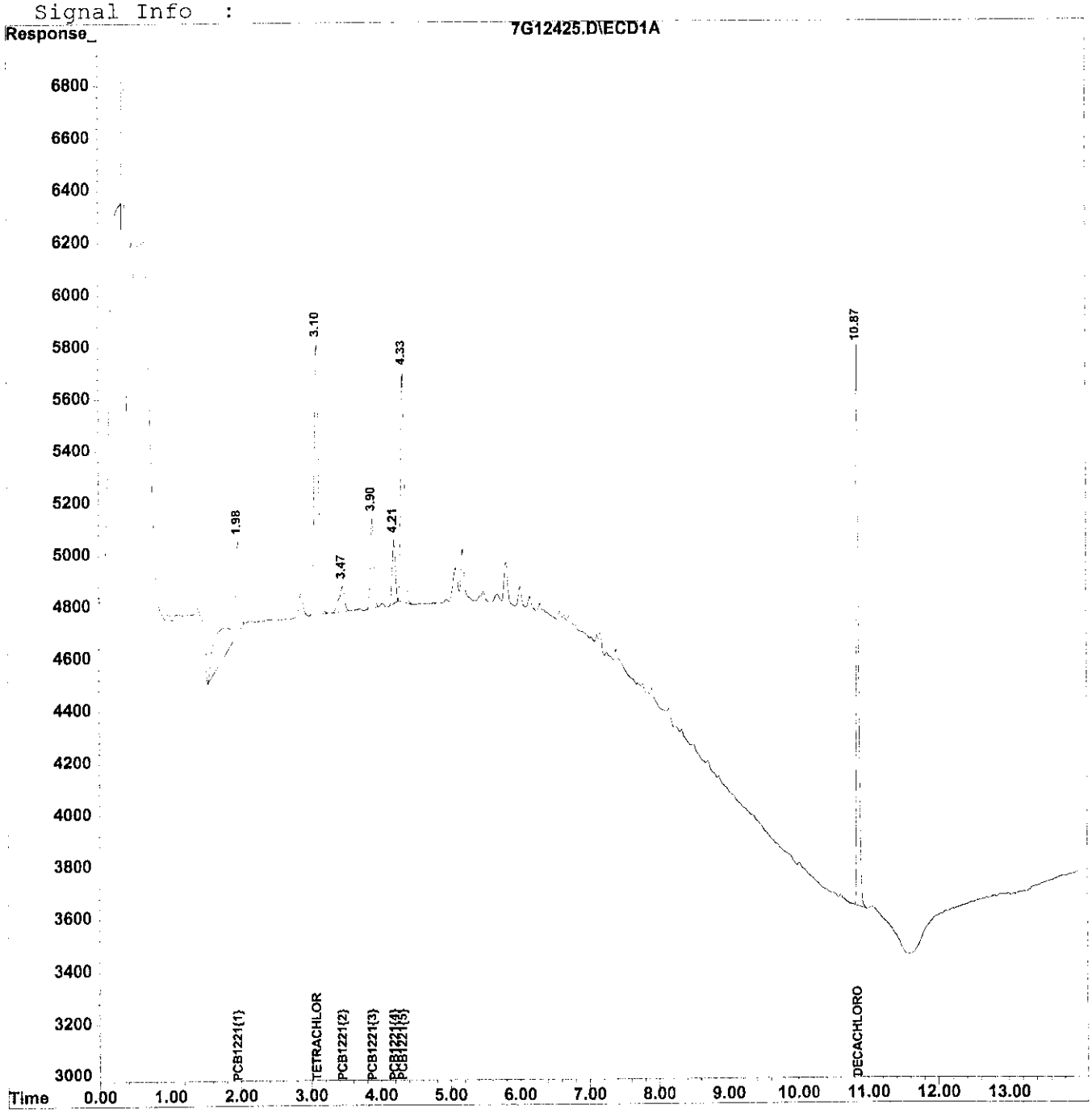
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	44337	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.87	47527	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1221{1}	1.98	34863	500.000 UG/L
3) L1 PCB1221{2}	3.47	5518	500.000 UG/L
4) L1 PCB1221{3}	3.90	11984	500.000 UG/L
5) L1 PCB1221{4}	4.21	7683	500.000 UG/L
6) L1 PCB1221{5}	4.34	31524	500.000 UG/L
Sum PCB1221		91571	2500.000 UG/L
Average PCB1221			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12425.D 1221SF.M Tue May 08 06:15:03 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12425.D Vial: 16
Acq On : 7 May 2001 18:38 Operator: SMW
Sample : 1221 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:15 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001

Calibration Files
500 =7G12426.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	1.612	1.612 E3	0.00
2)	L1	PCB1232{1}	1.177	1.177 E1	0.00
3)	L1	PCB1232{2}	3.951	3.951 E1	0.00
4)	L1	PCB1232{3}	3.329	3.329 E1	0.00
5)	L1	PCB1232{4}	7.098	7.098 E1	0.00
6)	L1	PCB1232{5}	2.684	2.684 E1	0.00
7)	S	DECACHLOROBIPHENYL	1.853	1.853 E3	0.00

(#) = Out of Range
1232SF.M Tue May 08 06:16:22 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12426.D Vial: 17
Acq On : 7 May 2001 18:57 Operator: SMW
Sample : 1232 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:16 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	40304	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.87	46333	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1232{1}	3.90	5884	500.000 UG/L
3) L1 PCB1232{2}	4.34	19754	500.000 UG/L
4) L1 PCB1232{3}	5.11	16647	500.000 UG/L
5) L1 PCB1232{4}	5.82	35492	500.000 UG/L
6) L1 PCB1232{5}	6.02	13422	500.000 UG/L
Sum PCB1232		91199	2500.000 UG/L
Average PCB1232			500.000 UG/L

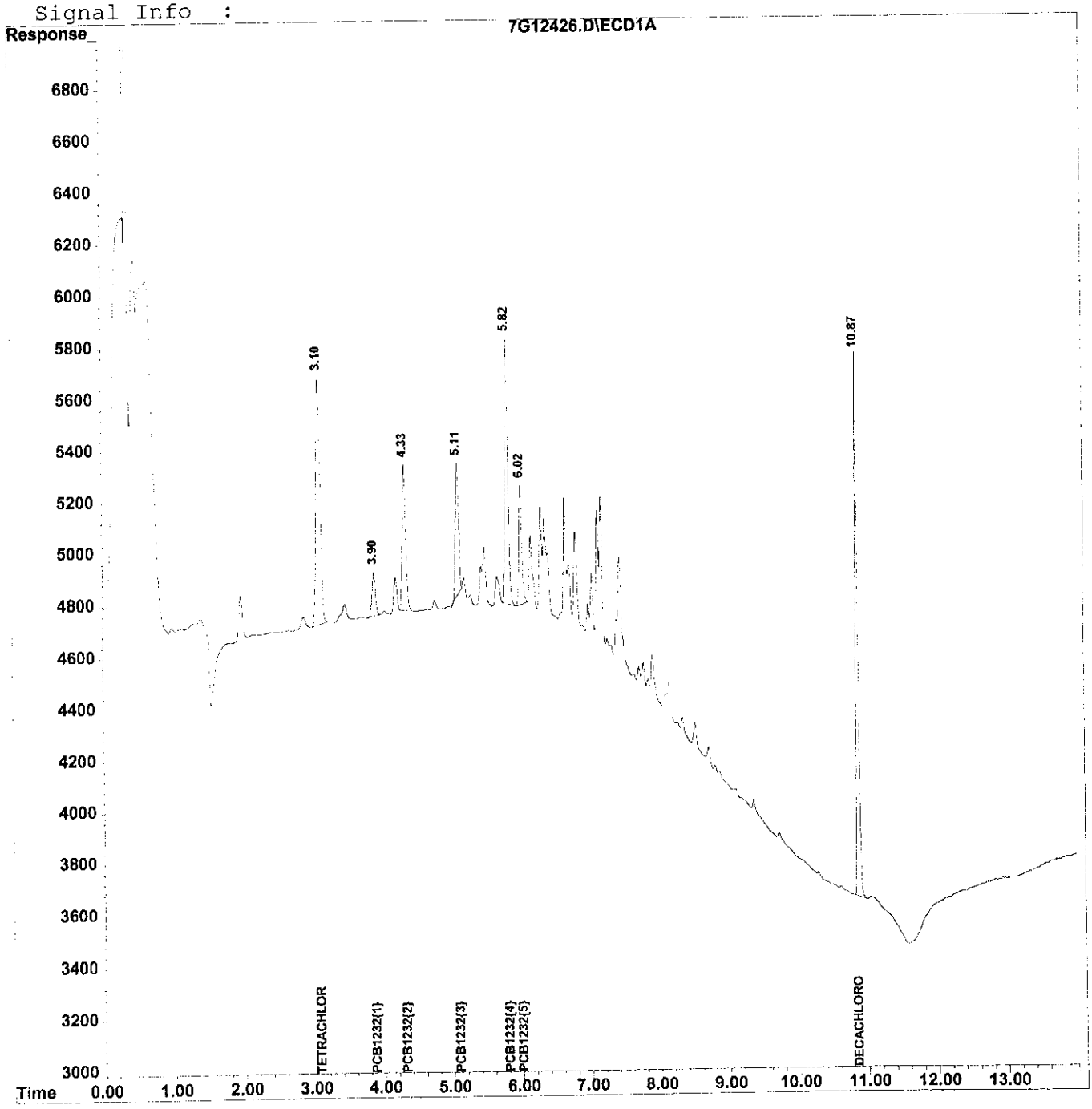
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12426.D
Acq On : 7 May 2001 18:57
Sample : 1232 ICAL 0.5 PPM
Misc :
IntFile : AUTOINT1.E
Quant Time: May 8 6:16 2001 Quant Results File: 1232SF.RES

Vial: 17
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000

Calibration Files
500 =7G12427.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	1.692	1.692 E3	0.00
2)	L1	PCB1242{1}	3.531	3.531 E1	0.00
3)	L1	PCB1242{2}	6.615	6.615 E1	0.00
4)	L1	PCB1242{3}	1.378	1.378 E2	0.00
5)	L1	PCB1242{4}	5.243	5.243 E1	0.00
6)	L1	PCB1242{5}	3.574	3.574 E1	0.00
7)	S	DECACHLOROBIPHENYL	1.273	1.273 E3	0.00

(#) = Out of Range
1242SF.M Tue May 08 06:17:26 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12427.D Vial: 18
Acq On : 7 May 2001 19:16 Operator: SMW
Sample : 1242 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:17 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

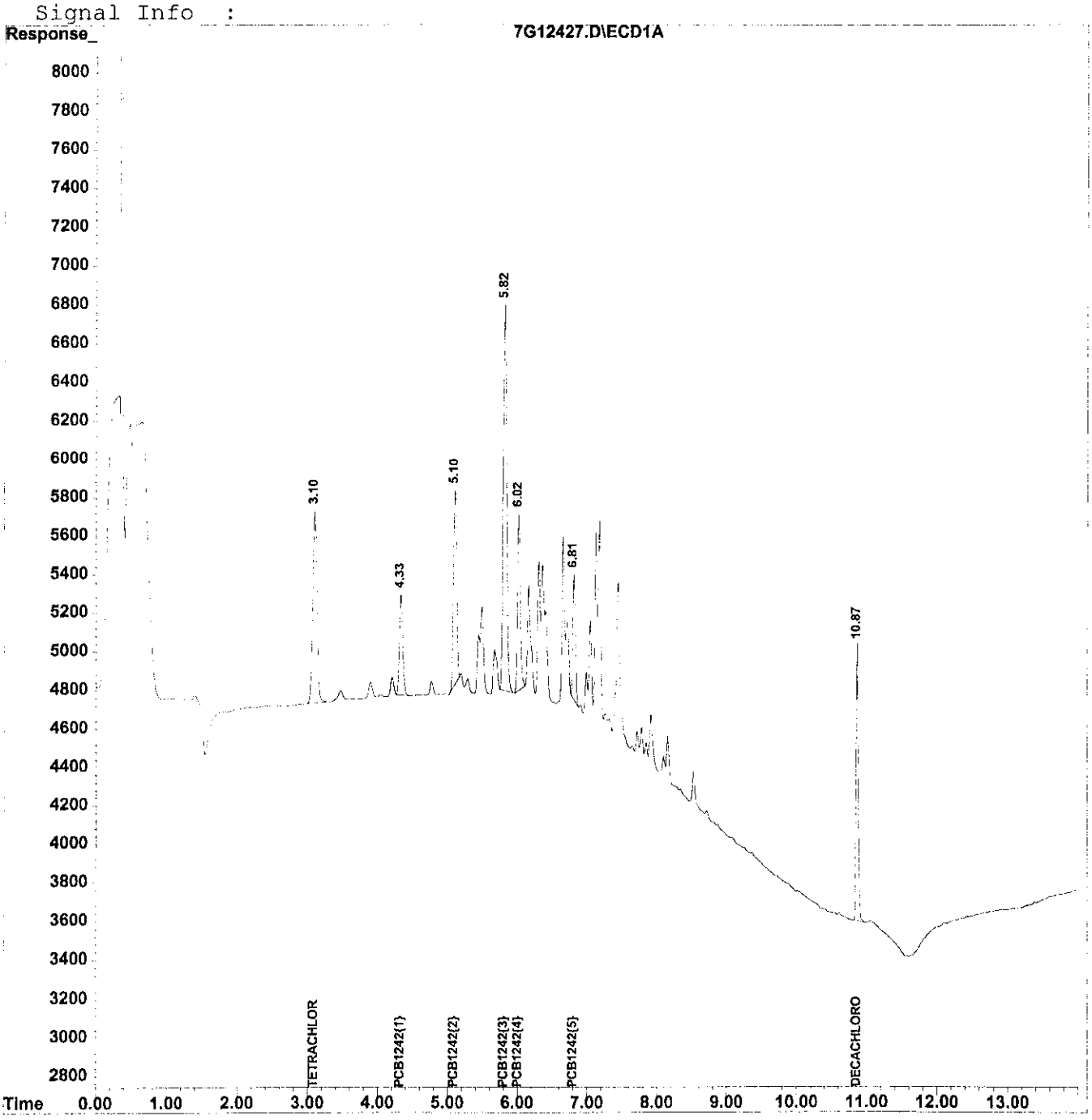
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	42305	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.87	31834	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1242{1}	4.33	17653	500.000 UG/L
3) L1 PCB1242{2}	5.11	33075	500.000 UG/L
4) L1 PCB1242{3}	5.82	68924	500.000 UG/L
5) L1 PCB1242{4}	6.02	26217	500.000 UG/L
6) L1 PCB1242{5}	6.81	17872	500.000 UG/L
Sum PCB1242		163741	2500.000 UG/L
Average PCB1242			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12427.D 1242SF.M Tue May 08 06:17:21 2001 Page 772

Data File : C:\HPCHEM\1\DATA\050701\7G12427.D Vial: 18
Acq On : 7 May 2001 19:16 Operator: SMW
Sample : 1242 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:17 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:46:37 2001

Calibration Files
500 =7G12428.D = =
= =

		Compound	500	Avg	%RSD
1)	S	TETRACHLORO-M-XYL	1.678	1.678 E3	0.00
2)	L1	PCB1248{1}	3.784	3.784 E1	0.00
3)	L1	PCB1248{2}	1.169	1.169 E2	0.00
4)	L1	PCB1248{3}	6.292	6.292 E1	0.00
5)	L1	PCB1248{4}	4.414	4.414 E1	0.00
6)	L1	PCB1248{5}	2.695	2.695 E1	0.00
7)	S	DECACHLOROBIPHENYL	1.897	1.897 E3	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\050701\7G12428.D Vial: 19
Acq On : 7 May 2001 19:35 Operator: SMW
Sample : 1248 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:18 2001 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:46:37 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

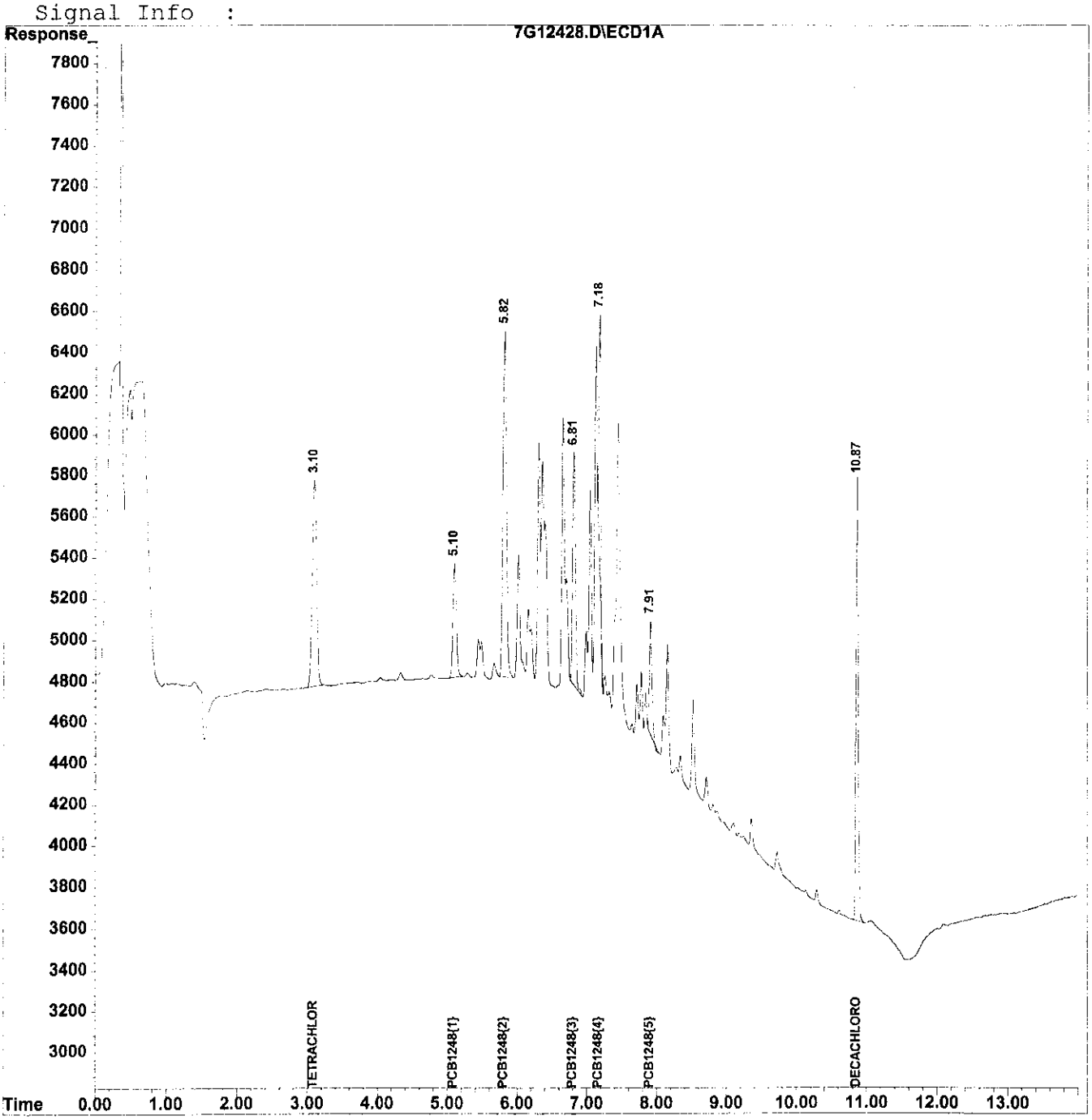
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	41948	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.87	47419	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1248{1}	5.10	18919	500.000 UG/L
3) L1 PCB1248{2}	5.82	58440	500.000 UG/L
4) L1 PCB1248{3}	6.81	31460	500.000 UG/L
5) L1 PCB1248{4}	7.18	22072	500.000 UG/L
6) L1 PCB1248{5}	7.92	13477	500.000 UG/L
Sum PCB1248		144368	2500.000 UG/L
Average PCB1248			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12428.D Vial: 19
Acq On : 7 May 2001 19:35 Operator: SMW
Sample : 1248 ICAL 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:18 2001 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:46:37 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12429.D Vial: 20
Acq On : 7 May 2001 19:54 Operator: SMW
Sample : 1221 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1221{1}	500.000	384.381	23.1#	77	0.00
3	L1	PCB1221{2}	500.000	446.353	10.7	89	0.00
4	L1	PCB1221{3}	500.000	465.293	6.9	93	0.00
5	L1	PCB1221{4}	500.000	434.931	13.0	87	0.00
6	L1	PCB1221{5}	500.000	453.687	9.3	91	0.00
7	S	DECACHLOROBIPHENYL	25.000	0.287	98.9#	1	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12429.D 1221SF.M Tue May 08 06:15:29 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12429.D Vial: 20
Acq On : 7 May 2001 19:54 Operator: SMW
Sample : 1221 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:15 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

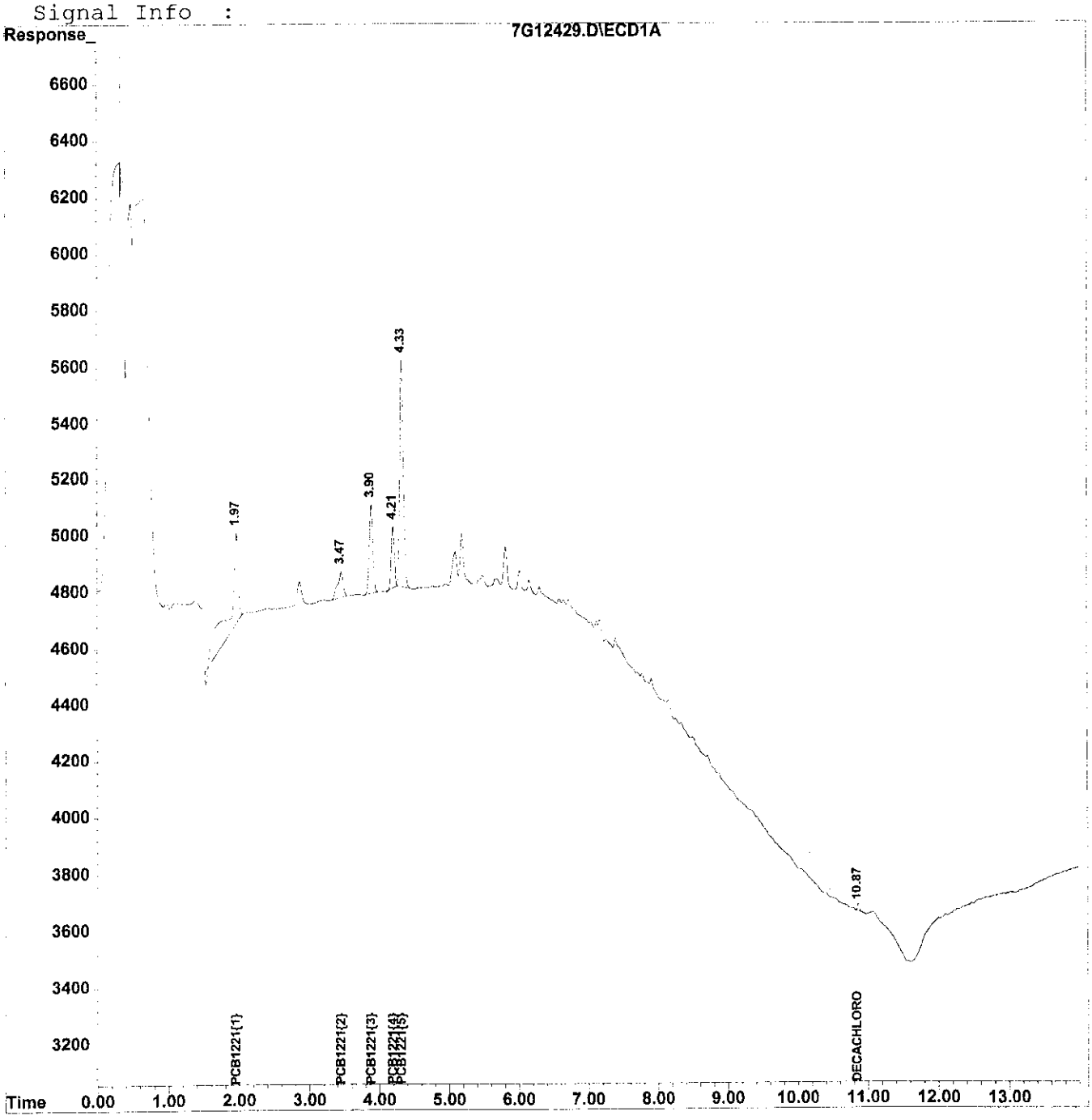
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	10.87	546	0.287 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	1.44%#
Target Compounds			
2) L1 PCB1221{1}	1.98	26801	384.381 UG/L
3) L1 PCB1221{2}	3.47	4926	446.353 UG/L
4) L1 PCB1221{3}	3.90	11152	465.293 UG/L
5) L1 PCB1221{4}	4.21	6683	434.931 UG/L
6) L1 PCB1221{5}	4.33	28604	453.687 UG/L
Sum PCB1221		78166	2184.644 UG/L
Average PCB1221			436.929 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12429.D 1221SF.M Tue May 08 06:15:25 2001 -Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12429.D Vial: 20
Acq On : 7 May 2001 19:54 Operator: SMW
Sample : 1221 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:15 2001 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12430.D Vial: 21
Acq On : 7 May 2001 20:13 Operator: SMW
Sample : 1232 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1232{1}	500.000	676.965	-35.4#	135	0.00
3	L1	PCB1232{2}	500.000	615.106	-23.0#	123	0.00
4	L1	PCB1232{3}	500.000	517.951	-3.6	104	0.00
5	L1	PCB1232{4}	500.000	512.544	-2.5	103	0.00
6	L1	PCB1232{5}	500.000	510.692	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12430.D 1232SF.M Tue May 08 06:16:43 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12430.D Vial: 21
Acq On : 7 May 2001 20:13 Operator: SMW
Sample : 1232 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:16 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

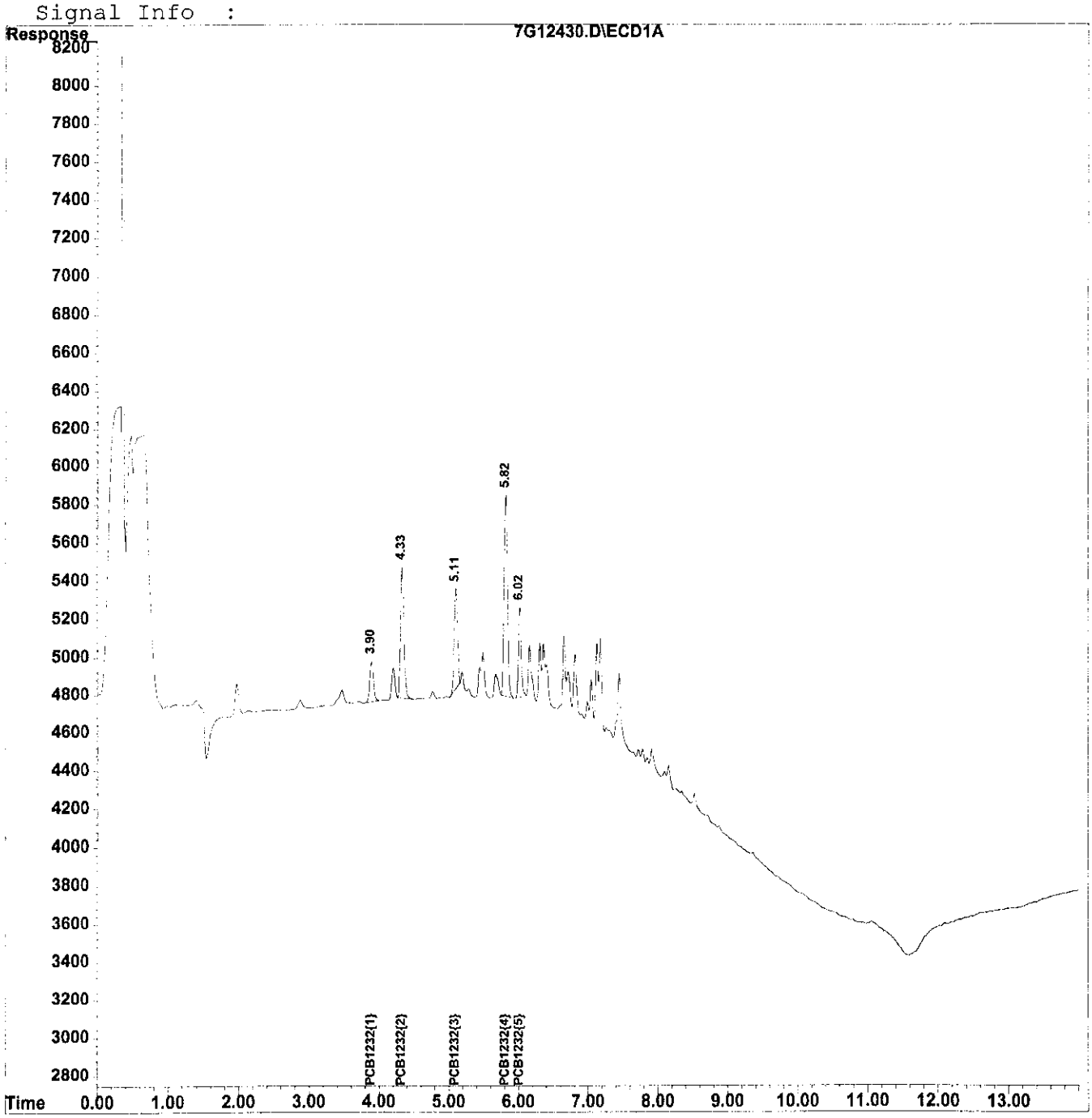
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	3.90	7967	676.965 UG/L
3) L1 PCB1232{2}	4.34	24302	615.106 UG/L
4) L1 PCB1232{3}	5.11	17244	517.951 UG/L
5) L1 PCB1232{4}	5.82	36383	512.544 UG/L
6) L1 PCB1232{5}	6.02	13709	510.692 UG/L
Sum PCB1232		99604	2833.258 UG/L
Average PCB1232			566.652 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\050701\7G12430.D Vial: 21
Acq On : 7 May 2001 20:13 Operator: SMW
Sample : 1232 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:16 2001 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:39:26 2001
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12431.D Vial: 22
Acq On : 7 May 2001 20:32 Operator: SMW
Sample : 1242 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1242{1}	500.000	518.160	-3.6	104	0.00
3	L1	PCB1242{2}	500.000	523.798	-4.8	105	0.00
4	L1	PCB1242{3}	500.000	518.071	-3.6	104	0.00
5	L1	PCB1242{4}	500.000	521.806	-4.4	104	0.00
6	L1	PCB1242{5}	500.000	525.954	-5.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12431.D 1242SF.M Tue May 08 06:17:47 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12431.D Vial: 22
Acq On : 7 May 2001 20:32 Operator: SMW
Sample : 1242 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:17 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

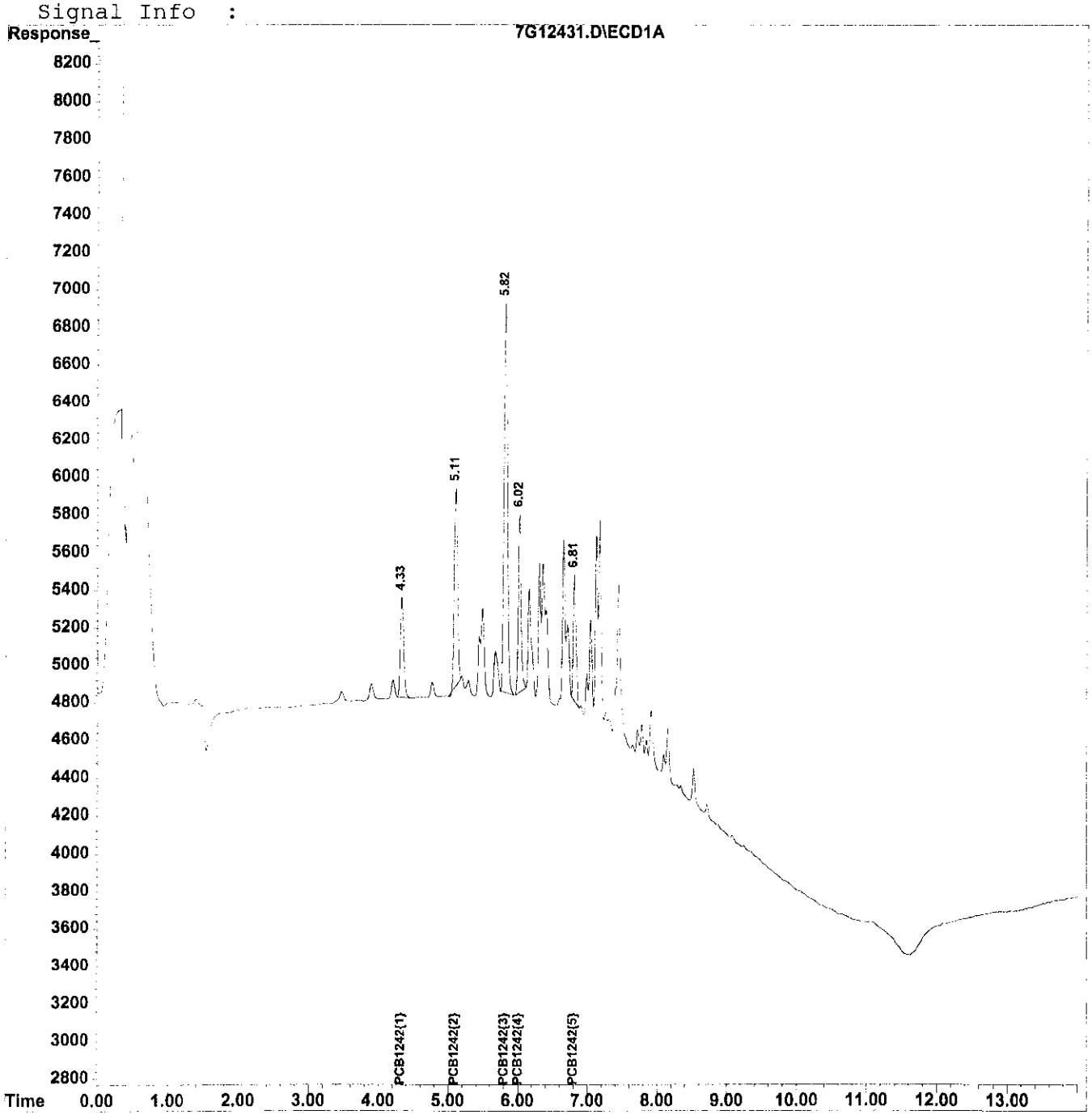
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154	Recovery =	0.00%#	
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140	Recovery =	0.00%#	
Target Compounds			
2) L1 PCB1242{1}	4.34	18294	518.160 UG/L
3) L1 PCB1242{2}	5.11	34649	523.798 UG/L
4) L1 PCB1242{3}	5.82	71415	518.071 UG/L
5) L1 PCB1242{4}	6.02	27361	521.806 UG/L
6) L1 PCB1242{5}	6.81	18800	525.954 UG/L
Sum PCB1242		170518	2607.790 UG/L
Average PCB1242			521.558 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12431.D 1242SF.M Tue May 08 06:17:43 2001 Page 1

Data File : C:\HPCHEM\1\DATA\050701\7G12431.D Vial: 22
Acq On : 7 May 2001 20:32 Operator: SMW
Sample : 1242 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 8 6:17 2001 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\050701\7G12432.D Vial: 23
Acq On : 7 May 2001 20:51 Operator: SMW
Sample : 1248 ALT ICV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB CALIBRATION 05/07/01
Last Update : Tue Mar 06 12:46:37 2001
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1248{1}	500.000	486.599	2.7	97	0.00
3 L1	PCB1248{2}	500.000	391.474	21.7#	78	0.00
4 L1	PCB1248{3}	500.000	517.352	-3.5	103	0.00
5 L1	PCB1248{4}	500.000	509.767	-2.0	102	0.00
6 L1	PCB1248{5}	500.000	629.697	-25.9#	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12432.D 1248SF.M Tue May 08 06:18:45 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12775.D Vial: 1
Acq On : 24 May 2001 11:11 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	24.205	3.2	96	0.02
2	L1	PCB1016{1}	500.000	572.266	-14.5	113	0.01
3	L1	PCB1016{2}	500.000	477.668	4.5	98	0.01
4	L1	PCB1016{3}	500.000	515.570	-3.1	104	0.01
5	L1	PCB1016{4}	500.000	538.177	-7.6	107	0.01
6	L1	PCB1016{5}	500.000	529.586	-5.9	105	0.01
7	L2	PCB1260{1}	500.000	504.387	-0.9	102	0.01
8	L2	PCB1260{2}	500.000	510.477	-2.1	102	0.01
9	L2	PCB1260{3}	500.000	521.563	-4.3	102	0.01
10	L2	PCB1260{4}	500.000	500.668	-0.1	101	0.01
11	L2	PCB1260{5}	500.000	468.402	6.3	92	0.01
12	S	DECACHLOROBIPHENYL	25.000	24.579	1.7	98	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12775.D 8082F.M Fri May 25 08:43:00 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12775.D Vial: 1
Acq On : 24 May 2001 11:11 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:25 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

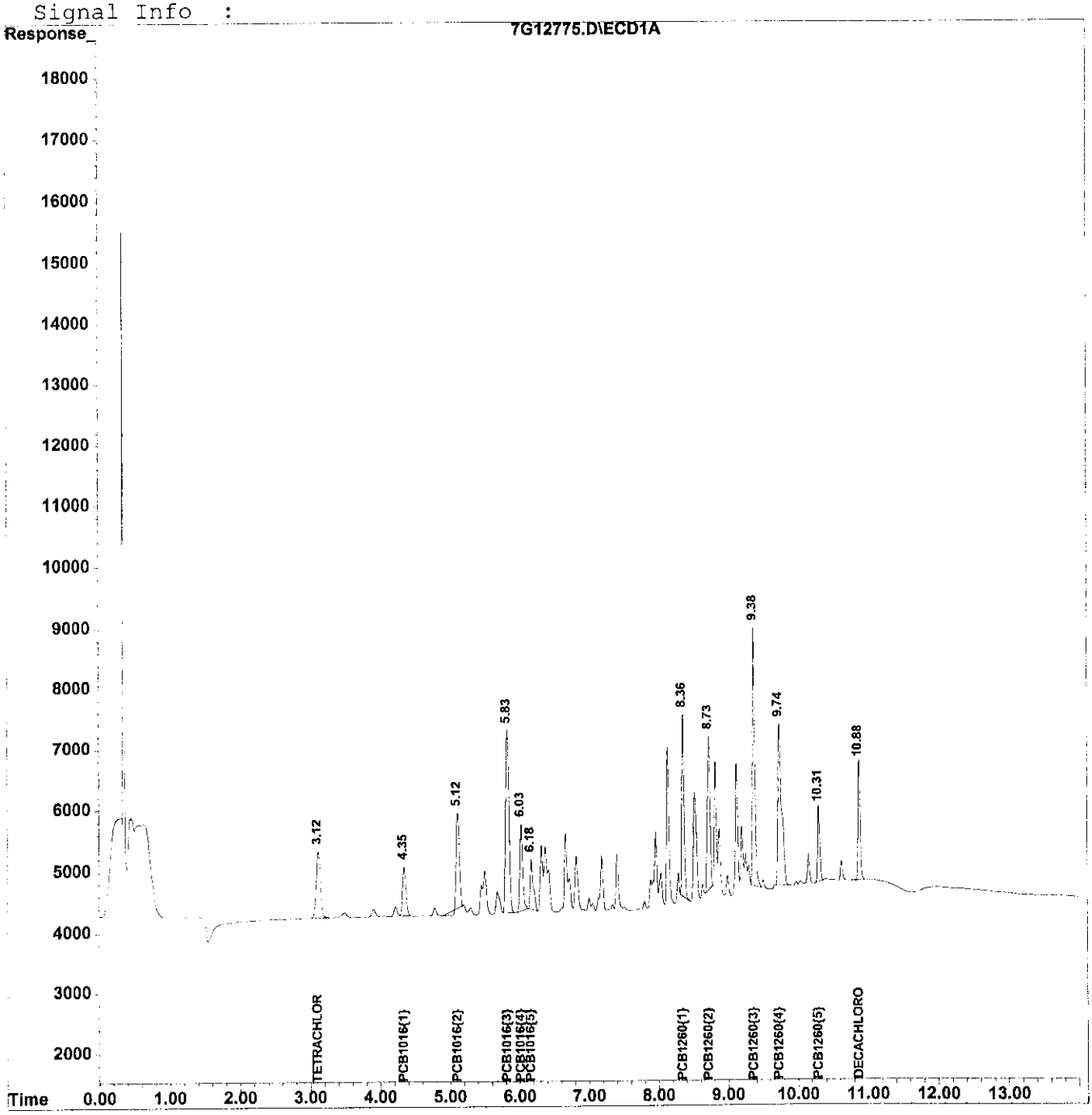
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.12	45217	24.205 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 121.03%	
12) S DECACHLOROBIPHENYL	10.88	41298	24.579 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 122.90%	
Target Compounds			
2) L1 PCB1016{1}	4.35	27059	572.266 UG/L
3) L1 PCB1016{2}	5.12	45726	477.668 UG/L
4) L1 PCB1016{3}	5.83	99890	515.570 UG/L
5) L1 PCB1016{4}	6.04	40151	538.177 UG/L
6) L1 PCB1016{5}	6.18	26254	529.586 UG/L
Sum PCB1016		239080	2633.267 UG/L
Average PCB1016			526.653 UG/L
7) L2 PCB1260{1}	8.36	64309	504.387 UG/L
8) L2 PCB1260{2}	8.73	68433	510.477 UG/L
9) L2 PCB1260{3}	9.38	95852	521.563 UG/L
10) L2 PCB1260{4}	9.74	95121	500.668 UG/L
11) L2 PCB1260{5}	10.31	25793	468.402 UG/L
Sum PCB1260		349509	2505.497 UG/L
Average PCB1260			501.099 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12775.D 8082F.M Fri May 25 08:42:55 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12775.D Vial: 1
Acq On : 24 May 2001 11:11 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 24 11:25 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052401\7G12786.D Vial: 12
Acq On : 24 May 2001 16:34 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	12.813	-2.5	96	0.00
2	L1	PCB1016{1}	250.000	243.615	2.6	93	0.00
3	L1	PCB1016{2}	250.000	224.425	10.2	85	0.00
4	L1	PCB1016{3}	250.000	260.022	-4.0	97	0.00
5	L1	PCB1016{4}	250.000	256.006	-2.4	97	0.00
6	L1	PCB1016{5}	250.000	259.574	-3.8	99	0.00
7	L2	PCB1260{1}	250.000	270.746	-8.3	101	0.00
8	L2	PCB1260{2}	250.000	272.834	-9.1	103	0.00
9	L2	PCB1260{3}	250.000	282.025	-12.8	104	0.00
10	L2	PCB1260{4}	250.000	275.050	-10.0	101	0.00
12	S	DECACHLOROBIPHENYL	12.500	13.990	-11.9	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12786.D 8082F.M Fri May 25 08:43:16 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12786.D Vial: 12
Acq On : 24 May 2001 16:34 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 6:13 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

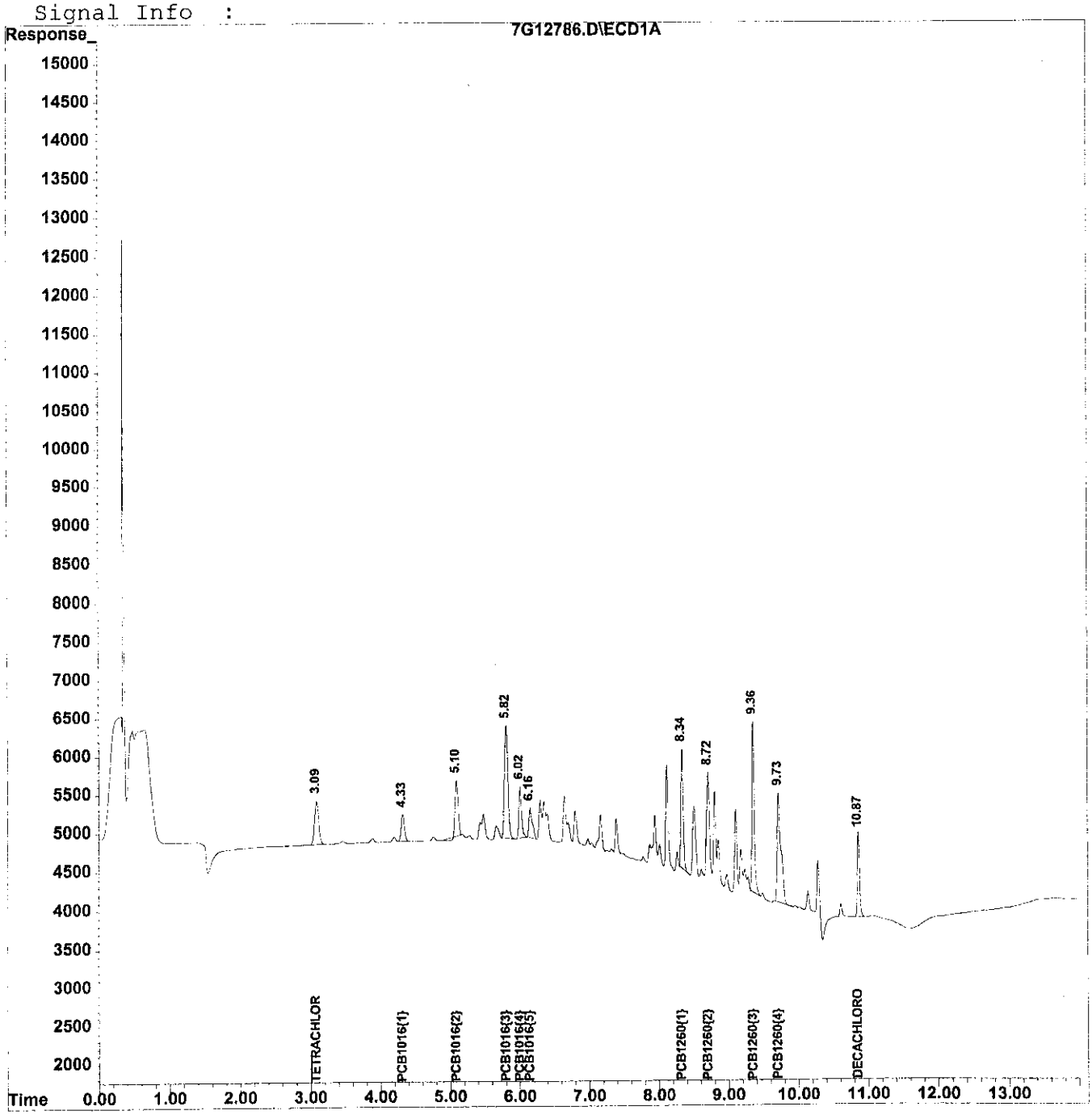
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	23935	12.813 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	64.07%
12) S DECACHLOROBIPHENYL	10.87	23505	13.990 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	69.95%
Target Compounds			
2) L1 PCB1016{1}	4.33	11519	243.615 UG/L
3) L1 PCB1016{2}	5.10	21484	224.425 UG/L
4) L1 PCB1016{3}	5.82	50378	260.022 UG/L
5) L1 PCB1016{4}	6.02	19099	256.006 UG/L
6) L1 PCB1016{5}	6.16	12868	259.574 UG/L
Sum PCB1016		115349	1243.642 UG/L
Average PCB1016			248.728 UG/L
7) L2 PCB1260{1}	8.35	34520	270.746 UG/L
8) L2 PCB1260{2}	8.72	36576	272.834 UG/L
9) L2 PCB1260{3}	9.36	51830	282.025 UG/L
10) L2 PCB1260{4}	9.73	52256	275.050 UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		175182	1100.655 UG/L
Average PCB1260			275.164 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052401\7G12786.D Vial: 12
Acq On : 24 May 2001 16:34 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 6:13 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12795.D Vial: 1
Acq On : 25 May 2001 8:40 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	23.856	4.6	94	0.02
2	L1	PCB1016{1}	500.000	562.745	-12.5	112	0.01
3	L1	PCB1016{2}	500.000	524.793	-5.0	107	0.01
4	L1	PCB1016{3}	500.000	508.882	-1.8	102	0.01
5	L1	PCB1016{4}	500.000	528.714	-5.7	105	0.01
6	L1	PCB1016{5}	500.000	522.714	-4.5	104	0.01
7	L2	PCB1260{1}	500.000	502.363	-0.5	102	0.01
8	L2	PCB1260{2}	500.000	508.674	-1.7	102	0.01
9	L2	PCB1260{3}	500.000	521.257	-4.3	102	0.01
10	L2	PCB1260{4}	500.000	504.598	-0.9	101	0.01
11	L2	PCB1260{5}	500.000	470.628	5.9	92	0.01
12	S	DECACHLOROBIPHENYL	25.000	24.935	0.3	99	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12795.D 8082F.M Tue May 29 06:00:13 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12795.D Vial: 1
Acq On : 25 May 2001 8:40 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:56 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

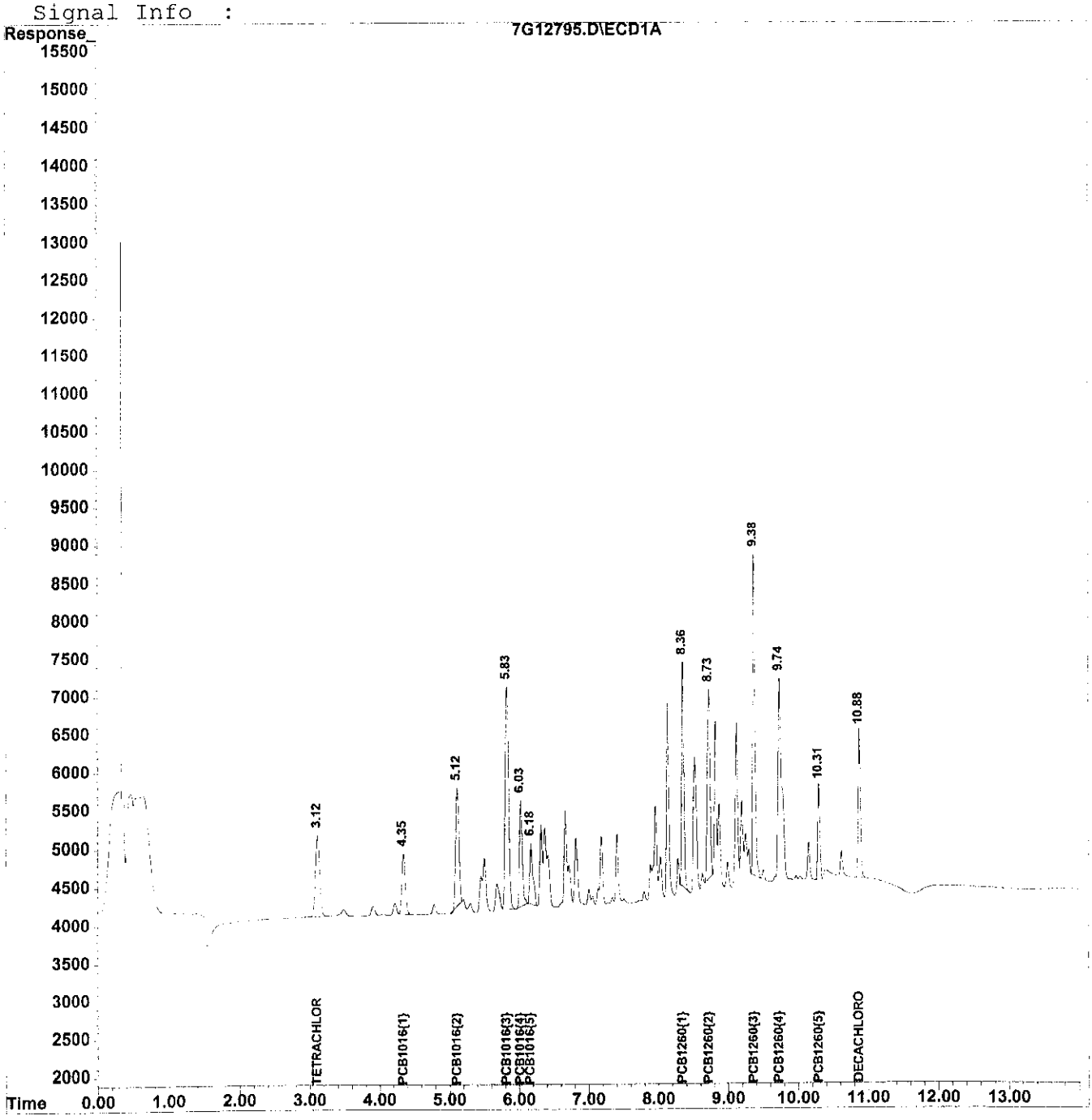
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.12	44565	23.856 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 119.28%	
12) S DECACHLOROBIPHENYL	10.88	41896	24.935 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 124.68%	
Target Compounds			
2) L1 PCB1016{1}	4.35	26609	562.745 UG/L
3) L1 PCB1016{2}	5.12	50238	524.793 UG/L
4) L1 PCB1016{3}	5.83	98594	508.882 UG/L
5) L1 PCB1016{4}	6.04	39445	528.714 UG/L
6) L1 PCB1016{5}	6.18	25913	522.714 UG/L
Sum PCB1016		240799	2647.848 UG/L
Average PCB1016			529.570 UG/L
7) L2 PCB1260{1}	8.36	64051	502.363 UG/L
8) L2 PCB1260{2}	8.73	68192	508.674 UG/L
9) L2 PCB1260{3}	9.38	95796	521.257 UG/L
10) L2 PCB1260{4}	9.74	95867	504.598 UG/L
11) L2 PCB1260{5}	10.31	25915	470.628 UG/L
Sum PCB1260		349822	2507.519 UG/L
Average PCB1260			501.504 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\7G12795.D Vial: 1
Acq On : 25 May 2001 8:40 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 25 8:56 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12803.D Vial: 9
Acq On : 25 May 2001 15:31 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	13.064	-4.5	98	0.00
2	L1	PCB1016{1}	250.000	257.338	-2.9	98	0.00
3	L1	PCB1016{2}	250.000	229.740	8.1	87	0.00
4	L1	PCB1016{3}	250.000	263.276	-5.3	98	0.00
5	L1	PCB1016{4}	250.000	256.157	-2.5	97	0.00
6	L1	PCB1016{5}	250.000	258.970	-3.6	99	0.00
7	L2	PCB1260{1}	250.000	270.473	-8.2	101	0.00
8	L2	PCB1260{2}	250.000	270.849	-8.3	102	0.00
9	L2	PCB1260{3}	250.000	280.591	-12.2	103	0.00
10	L2	PCB1260{4}	250.000	269.582	-7.8	99	0.00
11	L2	PCB1260{5}	250.000	231.761	7.3	88	0.00
12	S	DECACHLOROBIPHENYL	12.500	13.619	-9.0	105	0.00

Data File : C:\HPCHEM\1\DATA\052501\7G12803.D Vial: 9
Acq On : 25 May 2001 15:31 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 6:00 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

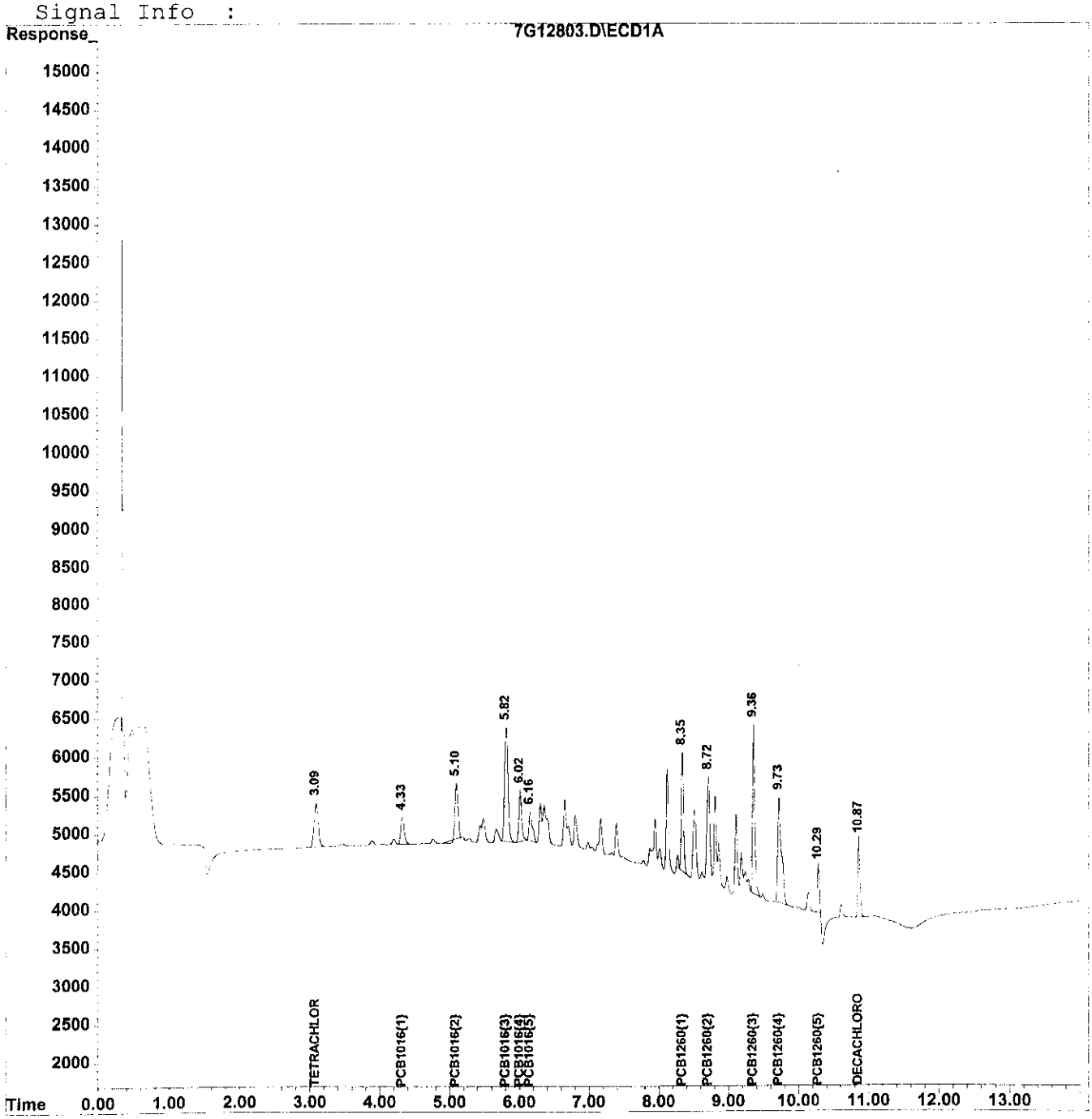
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	24405	13.064 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	65.32%
12) S DECACHLOROBIPHENYL	10.87	22883	13.619 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	68.10%
Target Compounds			
2) L1 PCB1016{1}	4.33	12168	257.338 UG/L
3) L1 PCB1016{2}	5.10	21993	229.740 UG/L
4) L1 PCB1016{3}	5.82	51009	263.276 UG/L
5) L1 PCB1016{4}	6.02	19111	256.157 UG/L
6) L1 PCB1016{5}	6.16	12838	258.970 UG/L
Sum PCB1016		117118	1265.481 UG/L
Average PCB1016			253.096 UG/L
7) L2 PCB1260{1}	8.35	34485	270.473 UG/L
8) L2 PCB1260{2}	8.72	36309	270.849 UG/L
9) L2 PCB1260{3}	9.36	51567	280.591 UG/L
10) L2 PCB1260{4}	9.73	51217	269.582 UG/L
11) L2 PCB1260{5}	10.29	12762	231.761 UG/L m
Sum PCB1260		186341	1323.257 UG/L
Average PCB1260			264.651 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\052501\7G12803.D Vial: 9
Acq On : 25 May 2001 15:31 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 6:00 2001 Quant Results File: 8082F.RES

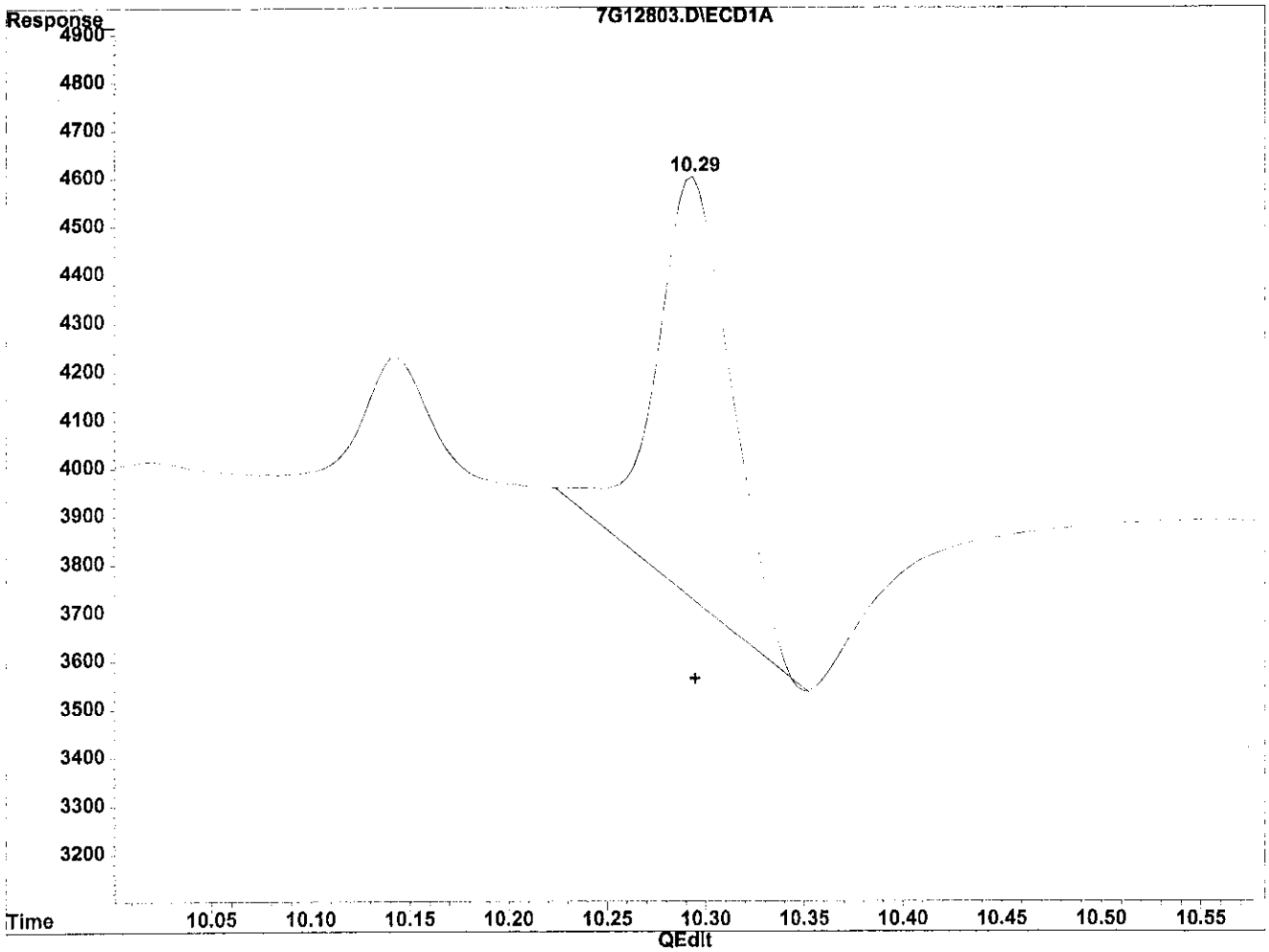
Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12803.D Vial: 9
Acq On : 25 May 2001 15:31 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 6:00 2001 Quant Results File: 8082F.RES

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration



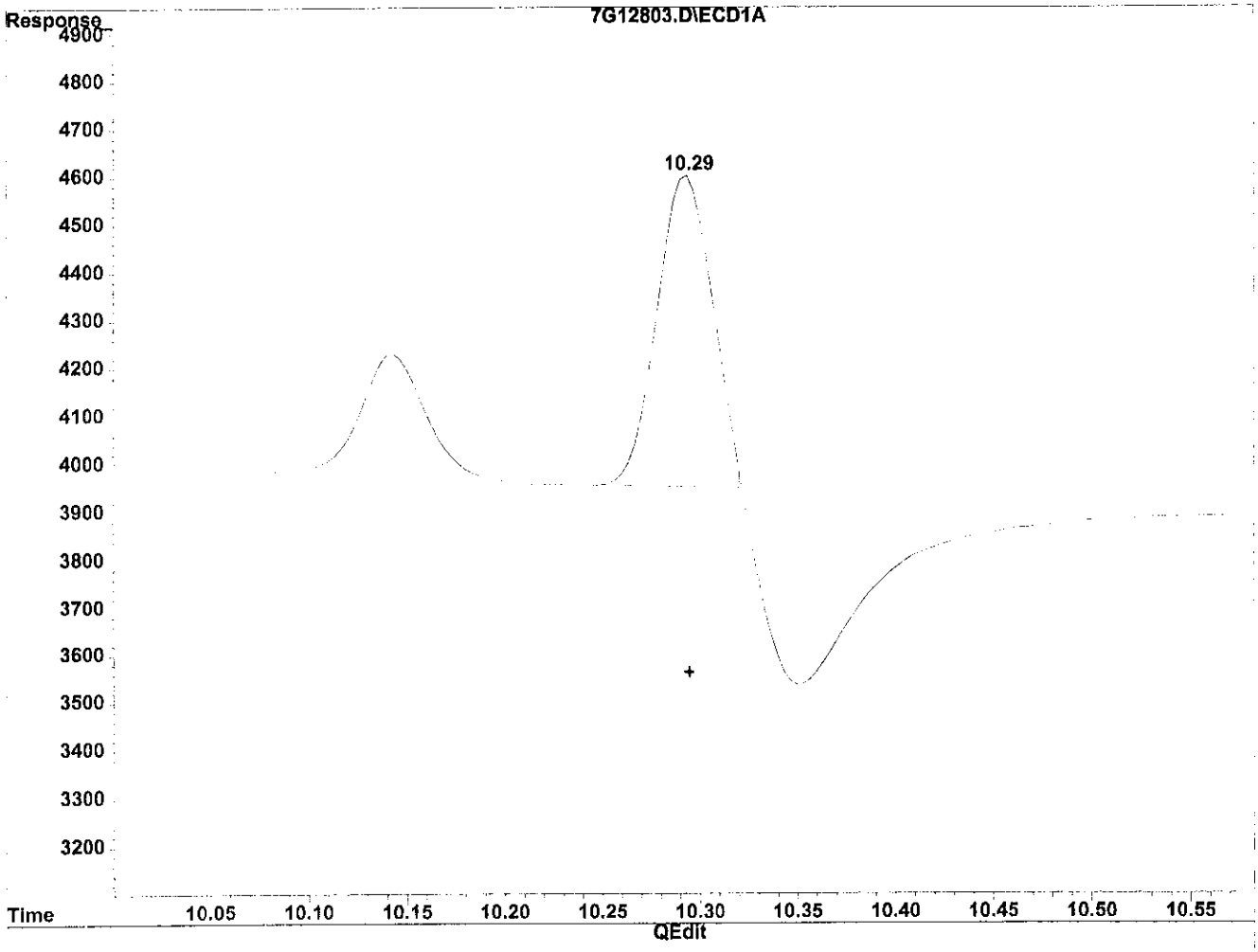
(11) PCB1260(5) (L2)

R.T.	Response	Conc
10.29	24042	436.61

(+) = Expected Retention Time
7G12803.D 8082F.M Tue May 29 06:00:45 2001

Data File : C:\HPCHEM\1\DATA\052501\7G12803.D Vial: 9
Acq On : 25 May 2001 15:31 Operator: SMW
Sample : 1660 CCV 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 6:00 2001 Quant Results File: 8082F.RES

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration



(11) PCB1260{5} (L2)

R.T.	Response	Conc
10.29	12762	231.76

SMW 5-30-01

(+) = Expected Retention Time
7G12803.D 8082F.M Tue May 29 06:00:52 2001

800

Data File : C:\HPCHEM\1\DATA\052501\7G12804.D
Acq On : 25 May 2001 15:50
Sample : 1660 CCV 0.5 PPM
Misc :
IntFile : EVENTS.E

Vial: 10
Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	25.669	-2.7	101	0.00
2	L1	PCB1016{1}	500.000	489.512	2.1	97	0.00
3	L1	PCB1016{2}	500.000	446.387	10.7	91	0.00
4	L1	PCB1016{3}	500.000	498.079	0.4	100	0.00
5	L1	PCB1016{4}	500.000	496.543	0.7	99	0.00
6	L1	PCB1016{5}	500.000	503.306	-0.7	100	0.00
7	L2	PCB1260{1}	500.000	505.735	-1.1	102	0.00
8	L2	PCB1260{2}	500.000	515.688	-3.1	103	0.00
9	L2	PCB1260{3}	500.000	532.783	-6.6	105	0.00
10	L2	PCB1260{4}	500.000	524.503	-4.9	105	0.00
11	L2	PCB1260{5}	500.000	616.176	-23.2#	120	0.00
12	S	DECACHLOROBIPHENYL	25.000	26.677	-6.7	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G12804.D 8082F.M Tue May 29 06:01:29 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12804.D Vial: 10
Acq On : 25 May 2001 15:50 Operator: SMW
Sample : 1660 CCV 0.5 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 29 6:01 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.09	47952	25.669 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 128.35%	
12) S DECACHLOROBIPHENYL	10.87	44823	26.677 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 133.39%	
Target Compounds			
2) L1 PCB1016{1}	4.33	23146	489.512 UG/L
3) L1 PCB1016{2}	5.10	42732	446.387 UG/L
4) L1 PCB1016{3}	5.82	96501	498.079 UG/L
5) L1 PCB1016{4}	6.02	37045	496.543 UG/L
6) L1 PCB1016{5}	6.16	24951	503.306 UG/L
Sum PCB1016		224375	2433.827 UG/L
Average PCB1016			486.765 UG/L
7) L2 PCB1260{1}	8.35	64481	505.735 UG/L
8) L2 PCB1260{2}	8.72	69132	515.688 UG/L
9) L2 PCB1260{3}	9.36	97915	532.783 UG/L
10) L2 PCB1260{4}	9.73	99649	524.503 UG/L
11) L2 PCB1260{5}	10.29	33930	616.176 UG/L
Sum PCB1260		365107	2694.885 UG/L
Average PCB1260			538.977 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12804.D 8082F.M Tue May 29 06:01:25 2001 Page 1

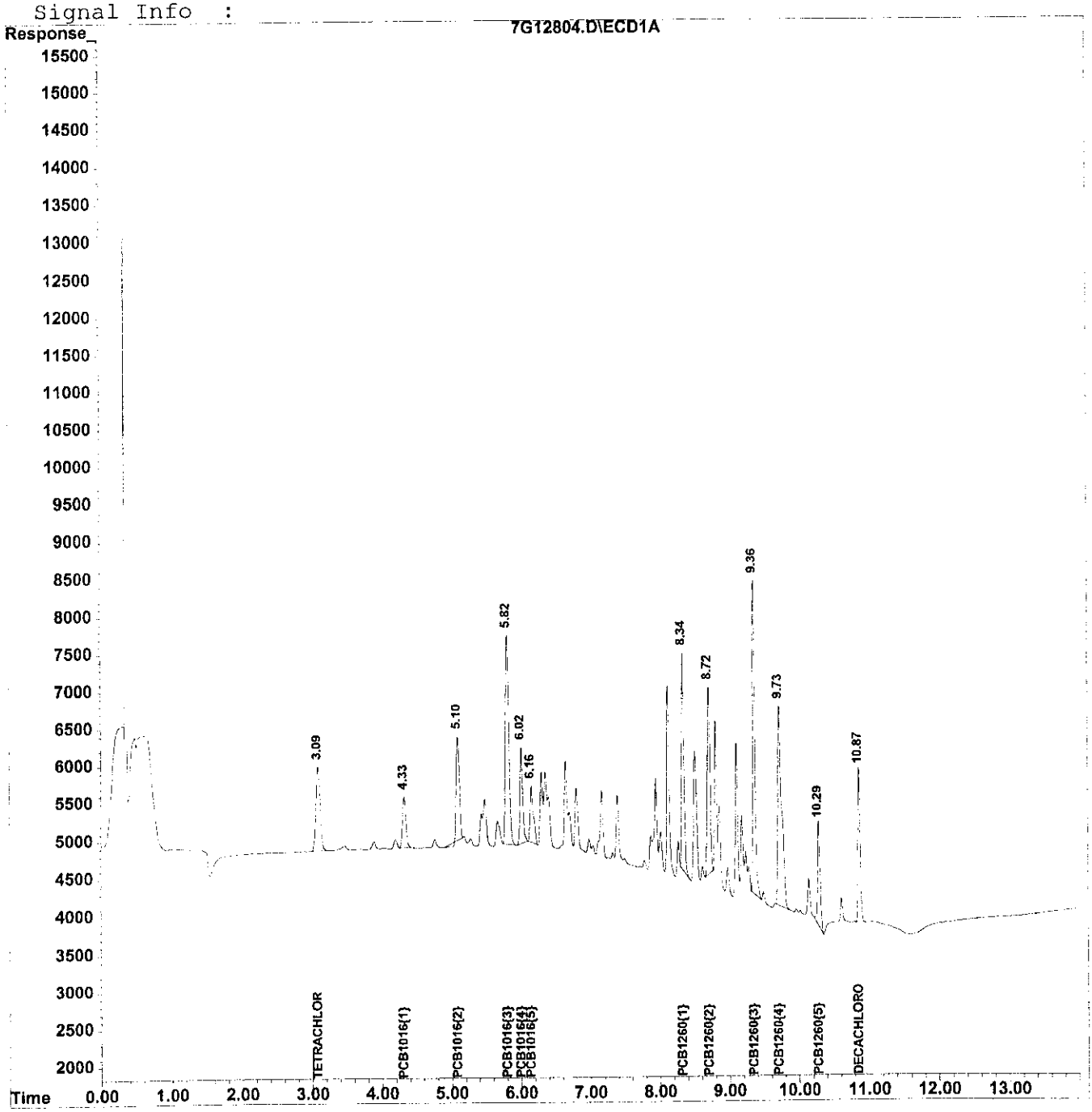
802

Data File : C:\HPCHEM\1\DATA\052501\7G12804.D
Acq On : 25 May 2001 15:50
Sample : 1660 CCV 0.5 PPM
Misc :
IntFile : EVENTS.E
Quant Time: May 29 6:01 2001 Quant Results File: 8082F.RES

Vial: 10
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



RETENTION TIME WINDOWS

Lab Name: Kemron Environmental Services

Instrument ID: HP-7 FRONT

GC Column: RTX-CLP II

	STANDARD #1	STANDARD #2	STANDARD #3
Date Run	04/02/2001	04/03/2001	04/04/2001
File #	040201\7g11867	040301\7G11902	040401\7G11944

COMPOUND	STD #1 RT	STD #2 RT	STD #3 RT	RT WIN
AR 1016 #1	4.37	4.36	4.37	0.017
AR 1016 #2	5.14	5.13	5.14	0.017
AR 1016 #3	5.85	5.84	5.85	0.017
AR 1016 #4	6.05	6.05	6.05	0.000
AR 1016 #5	6.20	6.19	6.19	0.017
AR 1260 #1	8.38	8.37	8.37	0.017
AR 1260 #2	8.75	8.74	8.74	0.017
AR 1260 #3	9.40	9.39	9.39	0.017
AR 1260 #4	9.76	9.75	9.76	0.017
AR 1260 #5	10.32	10.32	10.32	0.000
TETRACHLORO-M-XYLENE	3.15	3.14	3.14	0.017
DECACHLOROBIPHENYL	10.90	10.89	10.90	0.017

2.2.3.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\052401\7G12776.D Vial: 2
Acq On : 24 May 2001 13:25 Operator: SMW
Sample : WG98008-02 BLANK V163P195 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 8:43 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

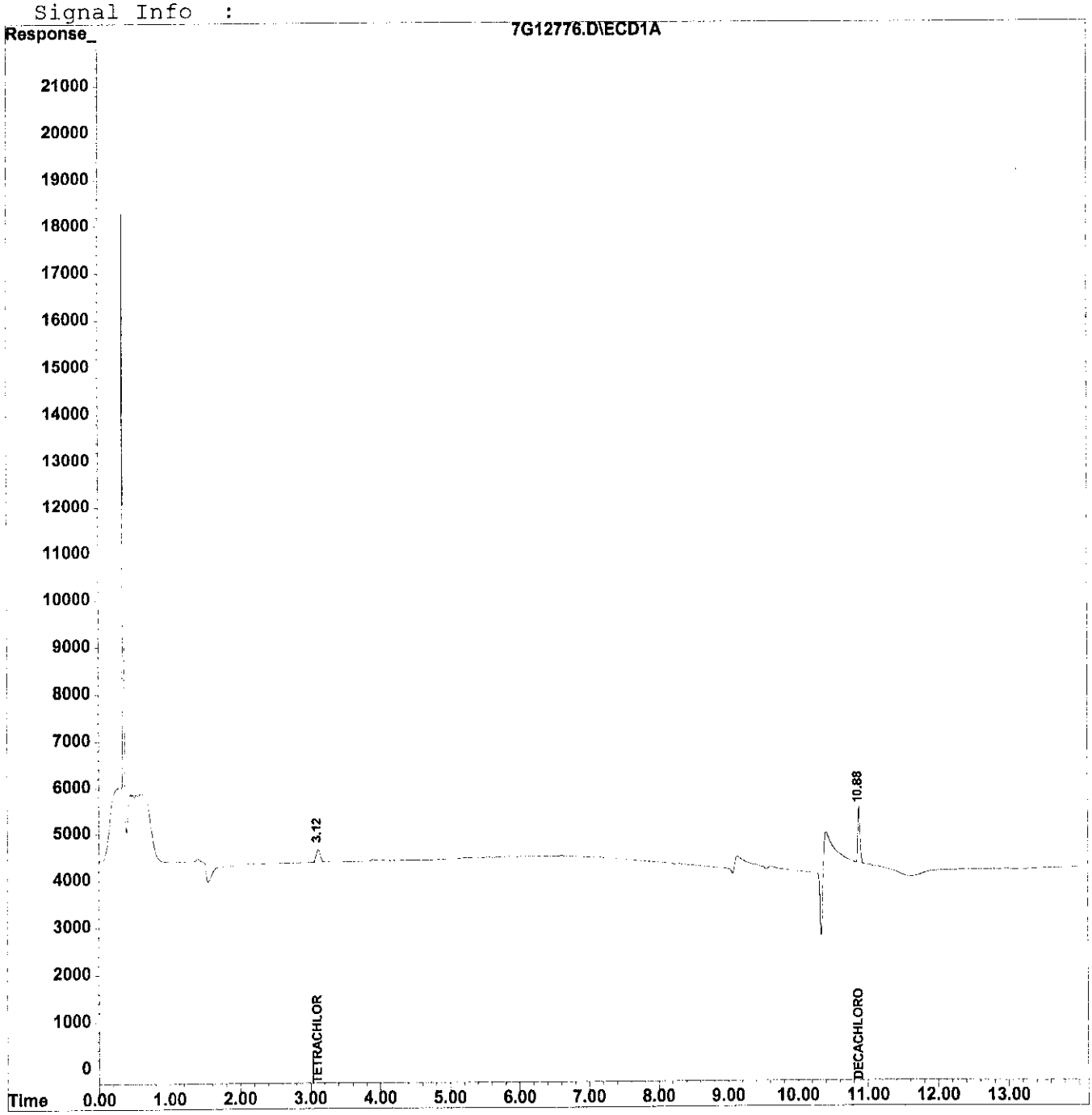
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.12	11399	6.102 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	30.51%
12) S DECACHLOROBIPHENYL	10.89	25894	15.411 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	77.05%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12776.D 8082F.M Fri May 25 08:43:34 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12776.D Vial: 2
Acq On : 24 May 2001 13:25 Operator: SMW
Sample : WG98008-02 BLANK V163P195 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 8:43 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12796.D Vial: 2
Acq On : 25 May 2001 13:18 Operator: SMW
Sample : WG98041-02 BLANK V163P199 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

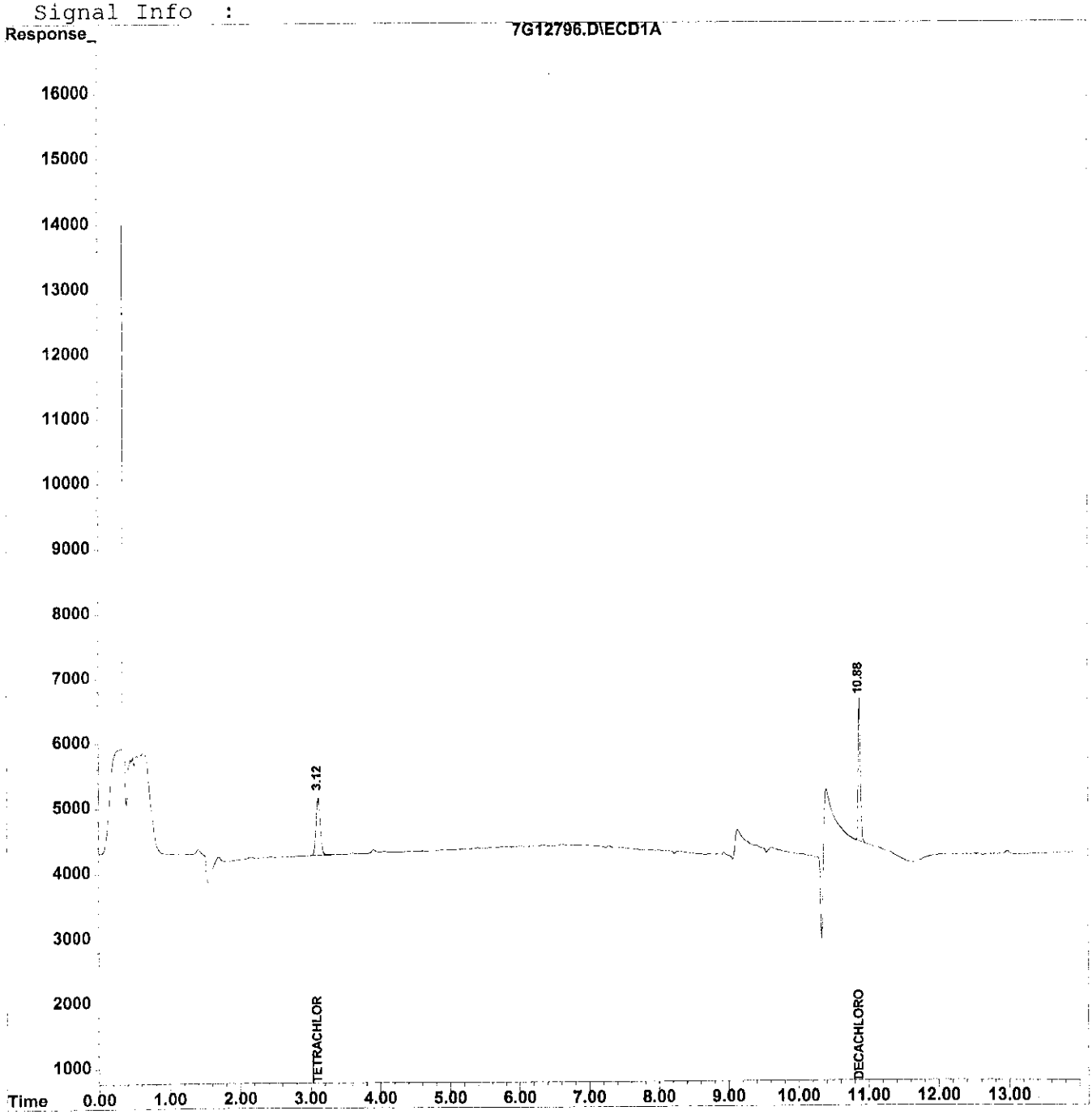
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.12	37558	20.105 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery = 100.53%	
12) S DECACHLOROBIPHENYL	10.88	47482	28.260 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery = 141.30%#	
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12796.D 8082F.M Tue May 29 06:02:40 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12796.D Vial: 2
Acq On : 25 May 2001 13:18 Operator: SMW
Sample : WG98041-02 BLANK V163P199 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052401\7G12777.D Vial: 3
Acq On : 24 May 2001 13:44 Operator: SMW
Sample : WG98008-03 LCS V163P195 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 8:43 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

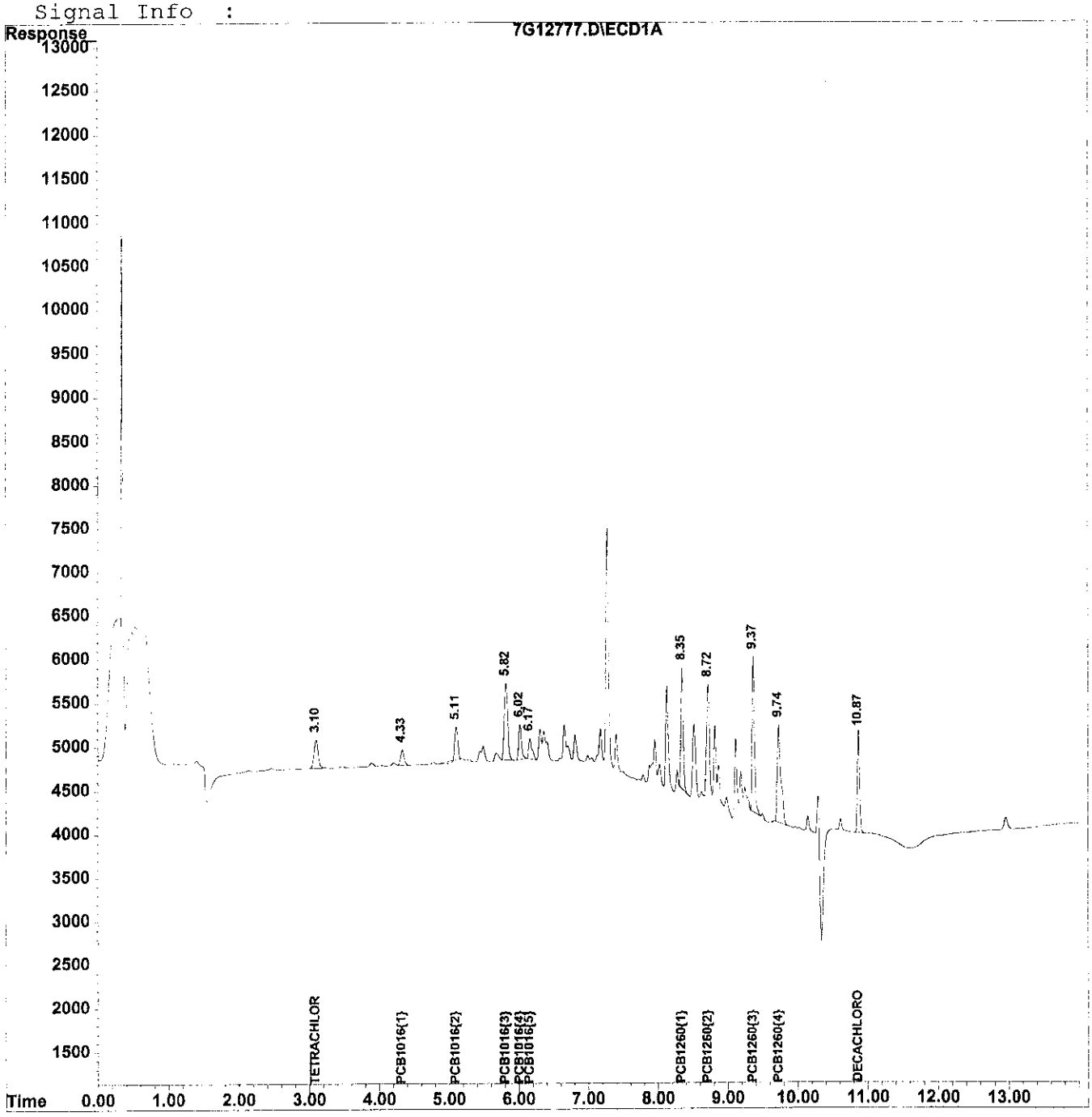
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	14097	7.547 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	37.74%
12) S DECACHLOROBIPHENYL	10.88	25282	15.047 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	75.24%
Target Compounds			
2) L1 PCB1016{1}	4.33	6146	1.300 UG/L
3) L1 PCB1016{2}	5.11	10415	1.088 UG/L
4) L1 PCB1016{3}	5.82	30106	1.554 UG/L
5) L1 PCB1016{4}	6.02	11769	1.577 UG/L
6) L1 PCB1016{5}	6.17	7933	1.600 UG/L
Sum PCB1016		66368	7.119 UG/L
Average PCB1016			1.424 UG/L
7) L2 PCB1260{1}	8.35	30539	2.395 UG/L
8) L2 PCB1260{2}	8.72	34887	2.602 UG/L
9) L2 PCB1260{3}	9.37	42200	2.296 UG/L
10) L2 PCB1260{4}	9.74	39263	2.067 UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		146890	9.360 UG/L
Average PCB1260			2.340 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12777.D 8082F.M Fri May 25 08:43:38 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052401\7G12777.D Vial: 3
Acq On : 24 May 2001 13:44 Operator: SMW
Sample : WG98008-03 LCS V163P195 Inst : HP7
Misc : 1,1 Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: May 25 8:43 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12797.D Vial: 3
Acq On : 25 May 2001 13:37 Operator: SMW
Sample : WG98041-03 LCS V163P199 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

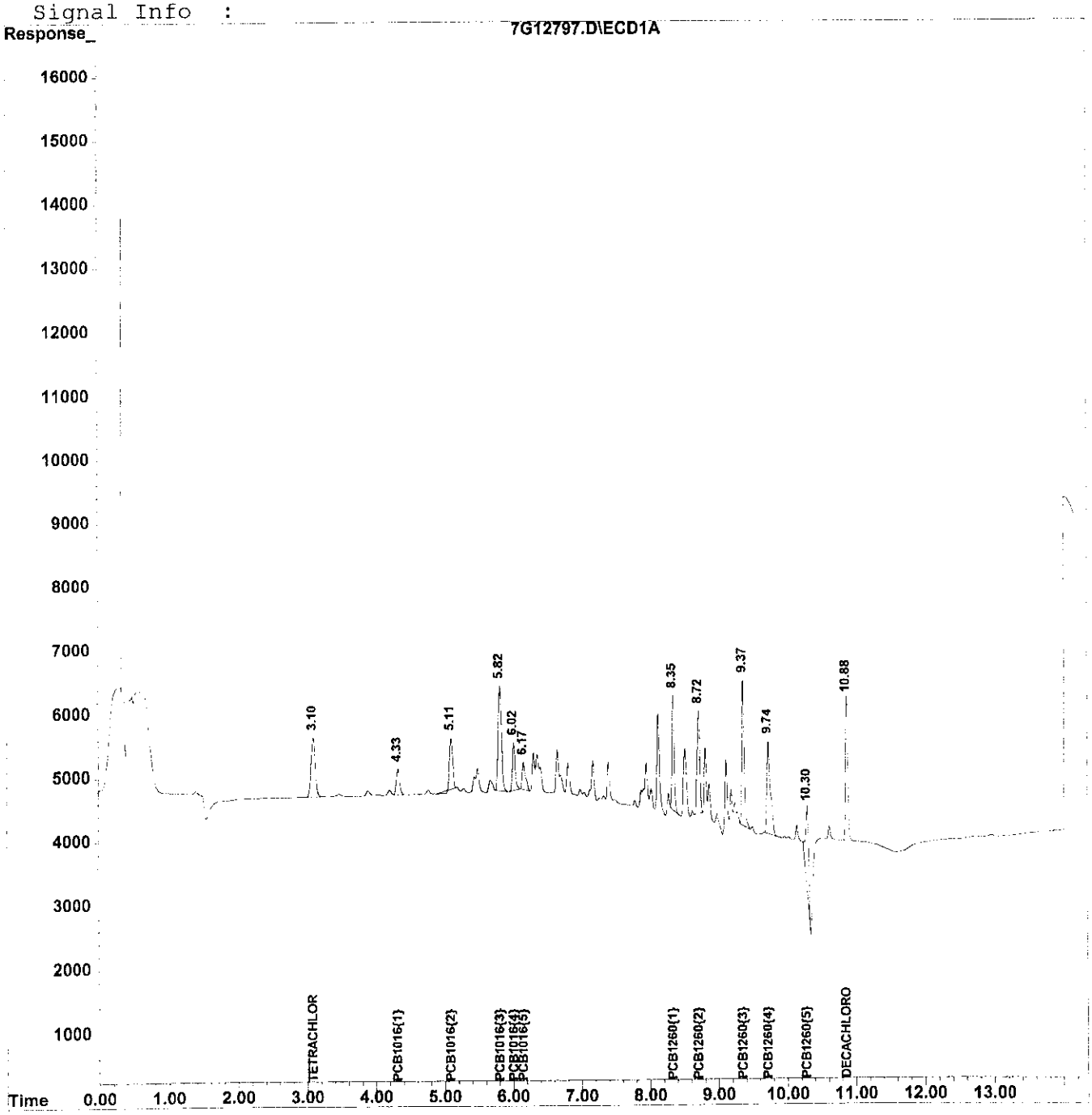
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	39915	21.367 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 106.84%	
12) S DECACHLOROBIPHENYL	10.88	49690	29.574 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 147.87%#	
Target Compounds			
2) L1 PCB1016{1}	4.34	13282	92.693 UG/L
3) L1 PCB1016{2}	5.11	24349	83.938 UG/L
4) L1 PCB1016{3}	5.82	57037	97.148 UG/L
5) L1 PCB1016{4}	6.02	21696	95.966 UG/L
6) L1 PCB1016{5}	6.17	14204	94.550 UG/L
Sum PCB1016		130567	464.295 UG/L
Average PCB1016			92.859 UG/L
7) L2 PCB1260{1}	8.35	39897	103.263 UG/L
8) L2 PCB1260{2}	8.73	44662	109.942 UG/L
9) L2 PCB1260{3}	9.37	53681	96.392 UG/L
10) L2 PCB1260{4}	9.74	51784	89.946 UG/L
11) L2 PCB1260{5}	10.30	40580	243.192 UG/L
Sum PCB1260		230605	642.736 UG/L
Average PCB1260			128.547 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12797.D 8082F.M Tue May 29 06:02:44 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12797.D Vial: 3
Acq On : 25 May 2001 13:37 Operator: SMW
Sample : WG98041-03 LCS V163P199 Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12800.D Vial: 6
Acq On : 25 May 2001 14:34 Operator: SMW
Sample : WG98041-04 L0105526-02 MS Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

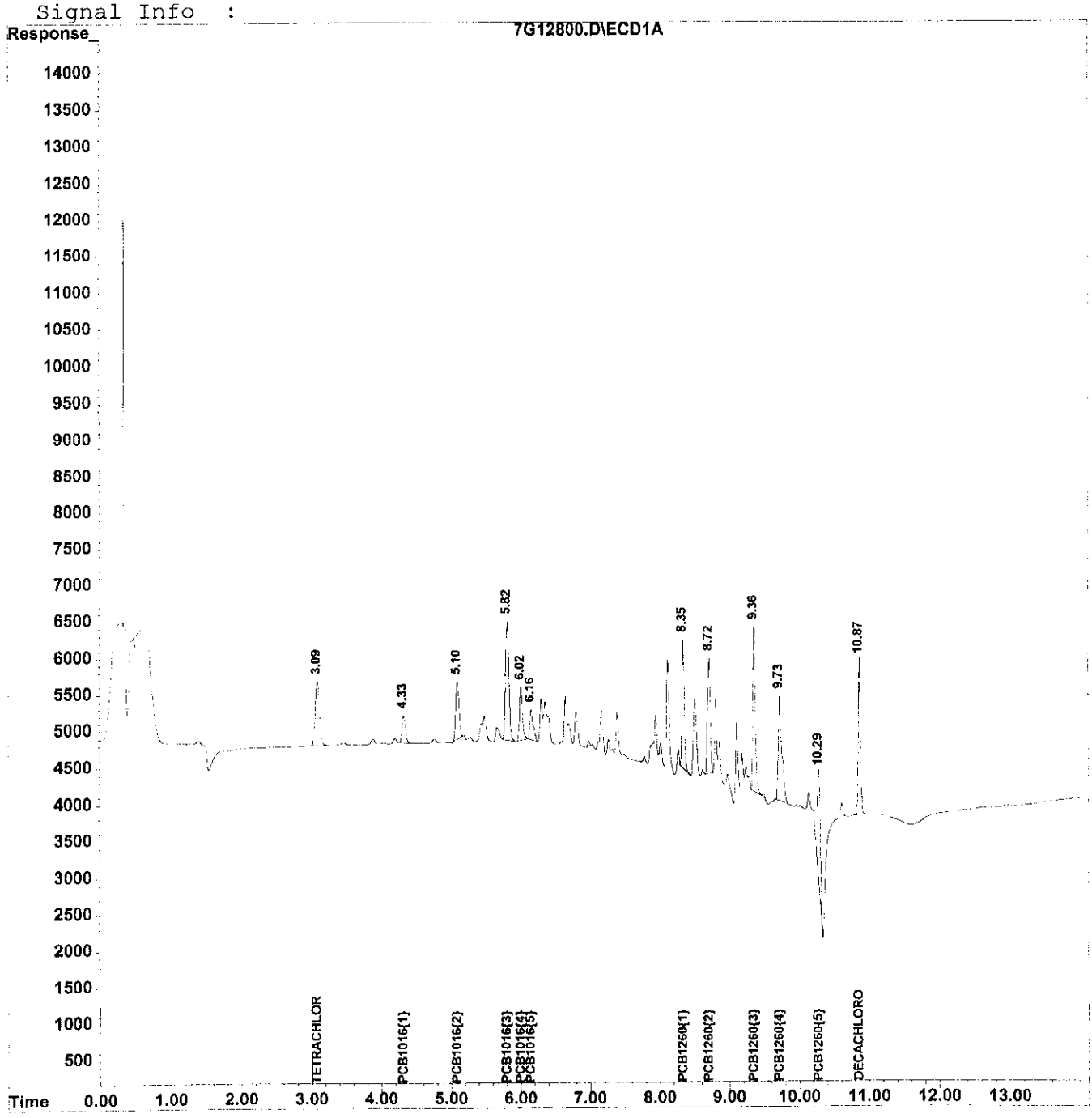
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.10	37625	20.141 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 100.71%	
12) S DECACHLOROBIPHENYL	10.87	46859	27.889 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 139.45%	
Target Compounds			
2) L1 PCB1016{1}	4.33	12611	88.013 UG/L
3) L1 PCB1016{2}	5.10	25994	89.609 UG/L
4) L1 PCB1016{3}	5.82	55796	95.034 UG/L
5) L1 PCB1016{4}	6.02	21009	92.931 UG/L
6) L1 PCB1016{5}	6.16	13856	92.233 UG/L
Sum PCB1016		129266	457.820 UG/L
Average PCB1016			91.564 UG/L
7) L2 PCB1260{1}	8.35	38992	100.919 UG/L
8) L2 PCB1260{2}	8.72	43852	107.946 UG/L
9) L2 PCB1260{3}	9.37	52471	94.219 UG/L
10) L2 PCB1260{4}	9.73	50679	88.027 UG/L
11) L2 PCB1260{5}	10.29	51766	310.227 UG/L
Sum PCB1260		237759	701.339 UG/L
Average PCB1260			140.268 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12800.D 8082F.M Tue May 29 06:02:56 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12800.D Vial: 6
Acq On : 25 May 2001 14:34 Operator: SMW
Sample : WG98041-04 L0105526-02 MS Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:02 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\052501\7G12801.D Vial: 7
Acq On : 25 May 2001 14:53 Operator: SMW
Sample : WG98041-05 L0105526-02 MSD Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:03 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

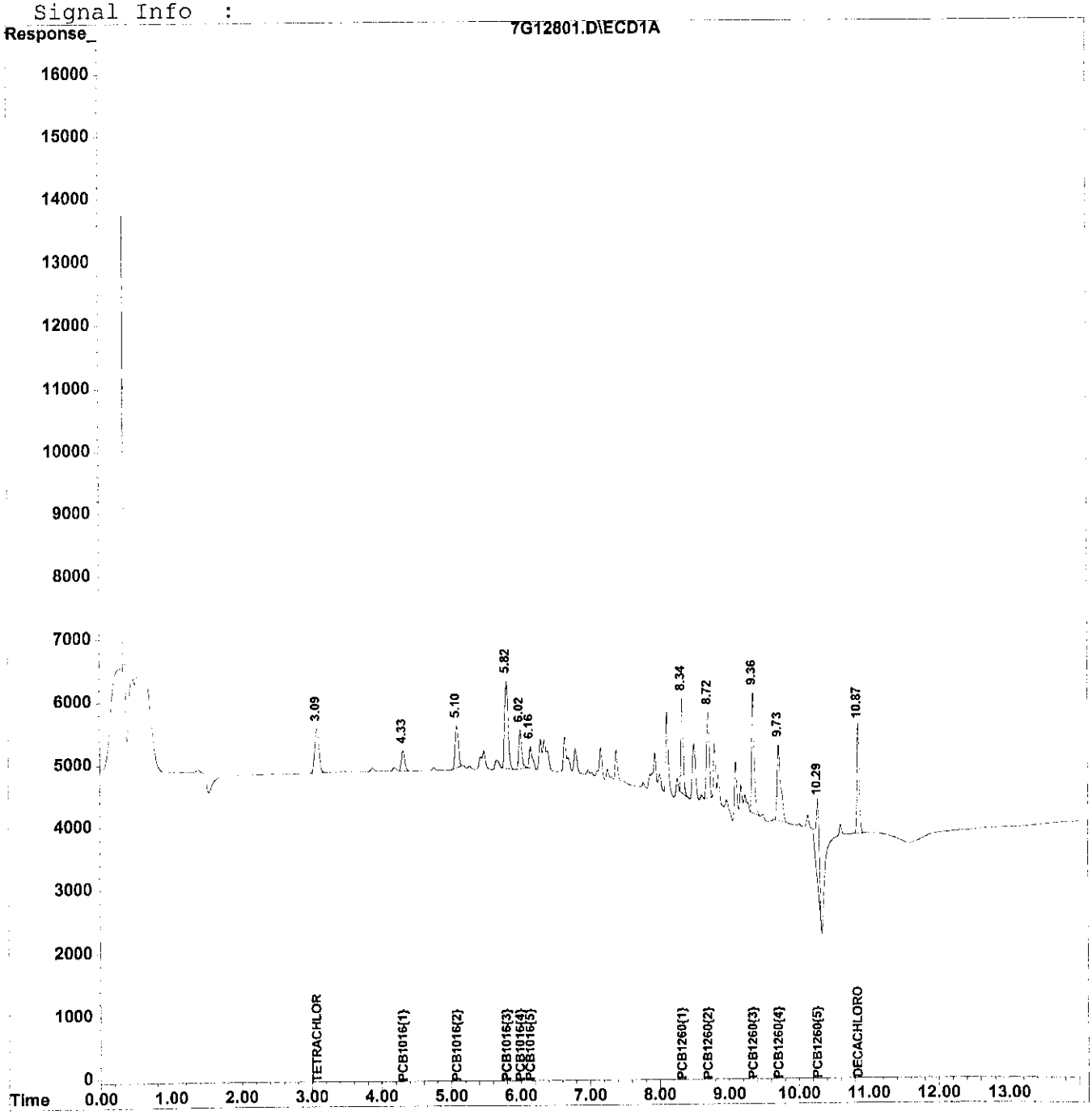
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.09	30304	16.222 UG/L
Spiked Amount 20.000	Range 13 - 154	Recovery =	81.11%
12) S DECACHLOROBIPHENYL	10.87	38838	23.116 UG/L
Spiked Amount 20.000	Range 25 - 140	Recovery =	115.58%
Target Compounds			
2) L1 PCB1016{1}	4.33	10867	75.839 UG/L
3) L1 PCB1016{2}	5.10	22183	76.471 UG/L
4) L1 PCB1016{3}	5.82	48183	82.067 UG/L
5) L1 PCB1016{4}	6.02	18068	79.922 UG/L
6) L1 PCB1016{5}	6.16	11791	78.489 UG/L
Sum PCB1016		111092	392.789 UG/L
Average PCB1016			78.558 UG/L
7) L2 PCB1260{1}	8.35	33893	87.723 UG/L
8) L2 PCB1260{2}	8.72	37870	93.223 UG/L
9) L2 PCB1260{3}	9.36	45450	81.611 UG/L
10) L2 PCB1260{4}	9.73	43576	75.690 UG/L
11) L2 PCB1260{5}	10.29	44779	268.356 UG/L
Sum PCB1260		205568	606.603 UG/L
Average PCB1260			121.321 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G12801.D 8082F.M Tue May 29 06:03:00 2001 Page 1

Data File : C:\HPCHEM\1\DATA\052501\7G12801.D Vial: 7
Acq On : 25 May 2001 14:53 Operator: SMW
Sample : WG98041-05 L0105526-02 MSD Inst : HP7
Misc : 7.1 Multiplr: 0.33
IntFile : EVENTS.E
Quant Time: May 29 6:03 2001 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 05/07/01
Last Update : Tue May 08 06:06:45 2001
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-17-01 Instrument ID HP7F Column ID RTX-CLP II Data Subdirectory 050701

Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
TG12410	1660 CCV 0.5 PPM	1	SS3-41		CC
11	1646 ICAL 2.0 PPM				✓
12	1.0				
13	0.5				
14	0.25				
15	0.1				
16	0.05				
17	1806 ALT ICV 0.5 PPM		SS1-32		
18	1854 ICAL 2.0 PPM		SS3-13		
19	1.0				
20	0.5				
21	0.25				
22	0.1				
23	0.05				
24	1954 ALT ICV 0.5 PPM		SS1-28		
25	1971 ICAL 0.5 PPM		SS2-36		
26	1932		SS3-03		
27	1942		SS3-11		
28	1948		SS3-12		
29	1971 ALT ICV 0.5 PPM		SS3-14		
30	1932		SS3-24		
31	1942		~~SS4-35~~ 321 49 SMI		
32	1948		SS2-35		
33	INST BLK		SS2-56		
34	L01004498-03				
35	1954 CCV 0.5 PPM		SS3-13		
36	1806		SS2-41		
37	INST BLK		SS2-50		
38	1806 CCV 0.5 PPM		SS2-41		
39	WG 96830-02 BLK VB2P105				
40	03 LCS				
41	L01052173 03				
42	05				
43	05MS				

Reviewed By: EC2 5/8/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-07-01 Instrument ID HP7F Column ID RTX-CLP IF Data Subdirectory 050701

Daily Check
- [x] Gases >500 psi
- [ ] Change liner
- [x] Change septum

Preventative Maintenance
- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [x] Change gases ARGON/METH

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: ECZ 5/8/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-07-01 CONT Instrument ID HP7F Column ID RTX-CLP II Data Subdirectory 050701
Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7G12444	L0105017-05MSD	1			✓
45	-07				
46	-09				
47	-10				
48	-12				
49	1660 CCV 0.25PPM		S52-41		
50	L0105059-08				
51	L0105060-01				
52	L01102-01				
53	1660 CCV 0.5 PPM		S52-41		

SMW 05-08-01

Reviewed By: EC2 5/8/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-07-01 Instrument ID HP 1F Column ID RTX-CLPII Data Subdirectory 050701

Daily Check
- ☐ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ___

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: EC 5/8/01

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-24-01 Instrument ID HP7F Column ID RTX-CLP Data Subdirectory 05240I

Analyst Initials SMW

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
76 12775	1ng/0 CCV 0.5 ppm		557-41		✓
76	WG 98005-02 BLK VIL63 P195				
77	1 -03 LCS 1				
78	L0105467-04				
79	L0105521-01				
80	-03				
81	-03 MS				
82	-03 MSD				
83	-05				
84	-07				
85	L0105526-01				
86	1ng/0 CCV 0.25 ppm				
87	WG 98041-02 BLK VIL63P199				RR
88	1 -05 LCS 1				
89	L0105526-01				
90	-02				
91	-02 MS				
92	-02 MSD				
93	-03				
	shutdown stopped				
	SMW 5-25-01				

Reviewed By: _____

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 05-24-01 Instrument ID HP1F Column ID Rtx-CLPII Data Subdirectory 052401

Daily Check

- [x] Gases >500 psi
- [ ] Change liner
- [ ] Change septum

Preventative Maintenance

- [ ] Change o-ring
- [ ] Clip column (___cm)
- [ ] Injection port seal (goldseal)
- [ ] Change gases _____

Returned To Control?

Yes ___ No ___

Additional Maintenance

Problem: Chart stopped

Action Taken: changed syringe

Comments

Reviewed By: [signature]

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP 7 Column ID RTX-CLPII Data Subdirectory 052501
Front
Analyst Initials SMC

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ____ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)
SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
7G12795	1660 CCV 0.5 PPM	1	S52-41		✓
96	WG98041-02 BLANK V1163P199				
97	WG98041-03 LCS V1163P199				
98	L01055216-01				
99	WG98041-01 L01055216-02				
7G12800	" -04 " -02 MS				
01	" -05 " -02 MSD				
02	L01055216-03				
03	1660 CCV 0.25 PPM		S52-41		
04	" 0.5 PPM		S52-41		
05	INST BLK S52-50		S52-50		
06	WG98129-01 BLANK V1164P19				
07	" -02 LCS V1164P19				
08	L01054469-23				
09	" -30				
10	L01054735-24				
11	L01055498-06				
12	L01055546-18				
13	L01055557-23				
14	L01055660-03				
15	1254 CCV 0.5 PPM		S53 13		
16	1660 "		S52-41		
17	INST BLK	~~S52-50~~ CAB 5-29-01	S52-50		
18	HEXANE	1			

CAB 5-29-01

Reviewed By: RRC 5/30/01

Status:
✓ = Compliant Analysis, Reanalysis complete IS or SS = Interference with internal and/or surrogate standards SMI = Sample matrix interference
RR = Rerun MT = Missed Tune, beyond method tuning requirements CC = Continuing calibration failed
RR# = Rerun at a specified dilution RE = Re-extraction analysis required CF = Confirmation required
* = See comments on opposite page

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time 5/25/01 Instrument ID HP 7 Column ID RTX-CLPII Data Subdirectory 052501

Daily Check
- ☑ Gases >500 psi
- ☐ Change liner
- ☐ Change septum

Preventative Maintenance
- ☐ Change o-ring
- ☐ Clip column (___cm)
- ☐ Injection port seal (goldseal)
- ☐ Change gases _____

Returned To Control?
Yes ___ No ____

Additional Maintenance
Problem: _____

_____

_____

Action Taken: _____

_____

Comments

Reviewed By: RLC 5/30/01

Parameter: PCB HW SOP #: EXP01 Revision #: 9
Extraction Analyst(s): DP TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/23/01 @ 1530 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: DP Witness: [illegible]
Surrogate #: ES5003 37-14 Earliest Hold Date: 5/28/01
Spike #: A = ES5003 36-35 Spike #: B = —

Extraction Work Group WG 98008
Analytical Work Group WG 98097
Extract Relinquished By: DP
Extract Received By & Date: mdc 5/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank			✓		1L	2000 µl		10ml	T				WG 98008-02
2	LCS			✓		1		1000 µl						WG 98008-03
5/31 3	05-467-04	8082		✓		960ml								
6/1 4	05-501-01			✓		980ml								
5	-03			✓		1L								WO 98008-01
6	-03MS			✓		1180ml		1000 µl						-04
7	-03MSD			✓		1		1						1 -05
8	-05			✓		1L								
9	1 -07			✓		1								
7/30 10	05-526-04	1		✓		890ml	1		1	1				
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAQ

Methylene Chloride Lot #: HI076
Hexane Lot #: 5053
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 9416 Lot #: ER1737
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: Conc H_2SO_4 Lot #: V030557
Florisil Lot #: V05554
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1733

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	✓	N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/24/01

Extraction Notes For Volume # 163 Page # 195

General Comments:	Nothing to report

Extraction Anomalies:	Nothing to report

Concentration Anomalies:	Nothing to report

Clean-Up Anomalies:	Nothing to report

Supervisor Review: _____ Date: _____

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Volume 163
Page 199

Parameter: PCB-Soil SOP #: Ex102 Revision #: 10
Extraction Analyst(s): JAQ TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/23/01 14:00 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: JAQ Witness: DCJ
Surrogate #: ES3037-14 Earliest Hold Date: 6/5
Spike #: A = ES3036-35 Spike #: B = —

Extraction Work Group WG 98041
Analytical Work Group WG 98099
Extract Relinquished By: DM
Extract Received By & Date: mds/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					30.01g	200µl		10ml	T				WG 98041-02
2	LCS					1		100µl						WG 98041-03
3	03-526-01	8032				30.03g								
4	02					30.01g								WG 98041-01
5	02MS					30.01g		100µl						WG 98041-04
6	02MSD					30.00g		+						WG 98041-05
7	03					30.02g		100µl						
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAQ

Methylene Chloride Lot #: —
Hexane Lot #: 41053
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 9416 Lot #: ER1737
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: Conc H2SO4 Lot #: V03351
Florisil Lot #: V05552
Silica Gel Lot #: —
IR Analyst / Date / Time: --
Dried Na_2SO_4 Lot #: FB153

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B	✓	GPC 3640A	
Silica Gel 3630C		Other	
Acid 3664A	✓	N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 05/24/01

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Extraction Notes For Volume # 163 Page # 191

General Comments: nothing to report

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

Example 8082 Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.2.5 DRO GC Data (8015)

REPORT NARRATIVE
GC PRO RANGE ORGANICS

KEMRON Report No.: L0105526

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: All acceptance criteria were met

SAMPLES

Samples: All acceptance criteria were met.
Surrogates: The method blank associated with this sample delivery group yielded %recovery for 0-terphenyl, lower than an advisory limits. Recovery from re-analysis was with in the limits. All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: HV REVIEWED Stephanie Kluge DATE: 6/7/01

Rev. 7/14/00

Analyst: HV
Method: 8in - 91A - PRO 0552b-04 - need level 4
Instrument: HP2
Work Group: WG98088

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	NA
Initial Calibration	
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	✓
Check Standards	✓
Project / Client Specific Requirements	✓
Special Standards	
Blanks	✓
TCL's	✓
Surrogates	
LCS (Laboratory Control Sample)	✓
%Recoveries	✓
Surrogates	
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	✓
Check Sample Histories	
Ending Check Standards	✓
Excel Spreadsheets	✓
Case Narrative	
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked HV 5/31/09
Secondary Reviewer Initials & Date Checked DRR 5/31/09

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked DRR 6/3/09

Comments: The analytical batch blank had to RR' to confirm the low surr recovery - but the recovery from RR' sample was good -

✓ - Checked & OK
NA - Not Applicable

Date: 5/31/01 12:31:01

Analyst: HV

Method: 8015 - GLA PRO soil 05526 (1-3) need level 4

Instrument: HP2

Work Group: WG98089

	Analyst
System Performance Check	✓
Endrin & DDT Breakdown	NA
Initial Calibration	
Average RF	
Linear Reg or Higher Order Curve	
Second Source Standard % Difference	
Check Standards	✓
Project / Client Specific Requirements	
Special Standards	
Blanks	✓
TICs	
Surrogates	
LCS (Laboratory Control Sample)	✓
Recoveries	
Surrogates	
MS / MSD / Duplicates	✓
Samples	✓
TCL Hits	
Surrogates	
Calculations & Correct Factors	
Dilutions Run	
Reruns	
Check Sample Histories	✓
Ending Check Standards	
Excel Spreadsheets	✓
Case Narrative	
Corrective Action	
Results Reporting / Data Qualifiers	
WorkGroups Traceability	
Client Data Package Assembly	
Check for Completeness	

Primary Reviewer Initials & Date Checked HV 5/31/01

Secondary Reviewer Initials & Date Checked [signature] 6/3/01

- Check for compliance with Method and project-specific requirements
- Check the completeness of the reported information
- Check the information for the report narrative
- Check the reasonableness of results

Supervisory Review Initials & Date Checked [signature] 6/4/01

Comments: There were no anamolies and tech. difficulties were encountered.

✓ - Checked & OK
NA - Not Applicable

DRO-GC DATA (8015)

Login Number: 1010522b

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

NA Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: HV Date: 5/31/01

835

2.2.5.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES , OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG98088 | EXT DATE : 05-23-01 | RUN DATE : 05-30-01
METHOD : 8015-PRO | EXT BENCH SHEET : V164-P07 | SMPL ID : L0105526-04
MATRIX : WATER | BLK FILENAME : 2G12716 | SMPL FLNM : 2G12692
CONCENTRATION UNITS : ug / l | LCS FILENAME : 2G12691 | MS FLNM : 2G12693
PREP WORK GRP : WG98050 | INSTRUMENT : HP 2 | MSD FLNM : 2G12694

	CONCENTRATION , ug / L									PERCENT RECOVERY , %										PERCENT		
ANALYTE	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPL	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS ULC	SAMPL	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
PRO (C8 - C40)	500	ND	3400	2683	NA	ND	7140	5645	4921	NA	78.9	NA	55	118	ND	79.1	68.9	41	101	NA	14	20
SURROGATE																						
o-TERPHENYL		11.1	20	18.2	NA	12.4	20	17.9	16.9	55.4	90.8	NA	49	174	61.9	89.6	84.6	49	174	NA	6	20

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

KEMRON ENVIRONMENTAL SERVICES , OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG98089 | EXT DATE : 05-23-01 | RUN DATE : 05-30-01
METHOD : 8015-PRO | EXT BENCH SHEET : V184-P03 | SMPL ID : L0105526-03
MATRIX : soil | BLK FILENAME : 2G12697 | SMPL FLNM : 2G12701
CONCENTRATION UNITS : ug / kg | LCS FILENAME : 2G12698 | MS FLNM : 2G12702
PREP WORK GRP : WG98042 | INSTRUMENT : HP2 | MSD FLNM : 2G12703

ANALYTE	CONCENTRATION , ug / kg									PERCENT RECOVERY , %										PERCENT		
	RDL	BLANK	LCS SPIKE ADDED	LCS	LCS DUP	SAMPL	MS SPIKE ADDED	MS	MSD	BLANK	LCS	LCS DUP	LCS LCL	LCS UCL	SAMPL	MS	MSD	MS LCL	MS UCL	DUP RPD	MSD RPD	RPD UCL
PRO (C8 - C40)	10000	ND	136000	106413	NA	15157	136000	108298	102459	NA	78.2	NA	63	153	15157	68.5	64.2	62	204	NA	6	25
SURROGATE																						
o-TERPHENYL		812	800	723	NA	689	800	896	691	102	90.3	NA	62	109	86.1	87.0	86.4	62	109	NA	1	25

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

2.2.5.2 Sample Data

Data File : C:\HPCHEM\1\DATA\053001B\2G12699.D Vial: 13
Acq On : 30 May 2001 23:58 Operator: HV
Sample : L0105526-01 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

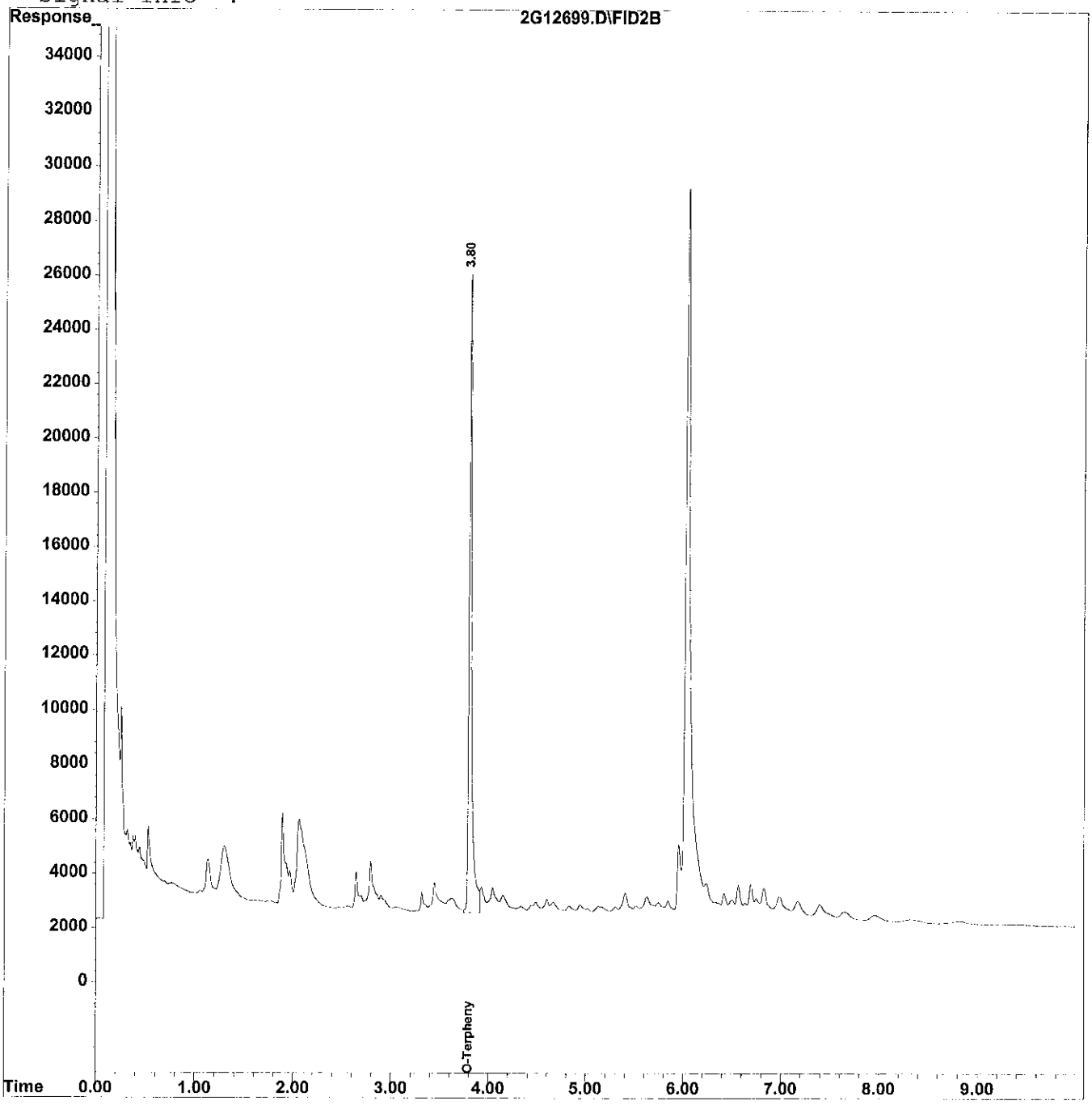
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	458845	684.954 ppb
Spiked Amount 800.000 Range 43 - 136 Recovery = 85.62%			
Target Compounds			
1) H Petroleum Range	3.60	3223610	6506.467 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12699.D Vial: 13
Acq On : 30 May 2001 23:58 Operator: HV
Sample : L0105526-01 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12700.D Vial: 14
Acq On : 31 May 2001 00:12 Operator: HV
Sample : L0105526-02 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

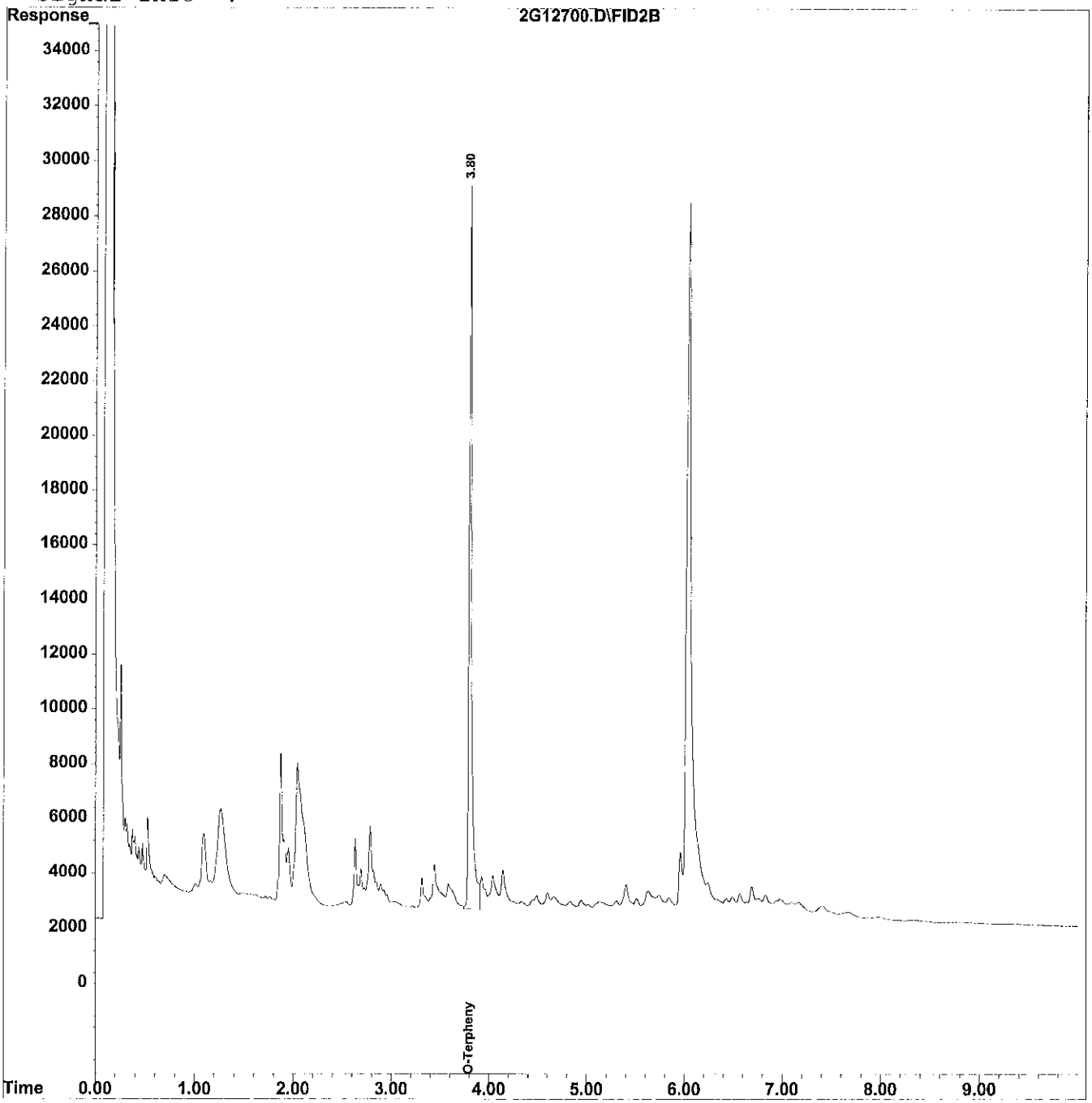
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	503771	752.019 ppb
Spiked Amount 800.000 Range 43 - 136 Recovery = 94.00%			
Target Compounds			
1) H Petroleum Range	3.60	3584042	7233.955 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12700.D Vial: 14
Acq On : 31 May 2001 00:12 Operator: HV
Sample : L0105526-02 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12701.D Vial: 15
Acq On : 31 May 2001 00:26 Operator: HV
Sample : L0105526-03 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

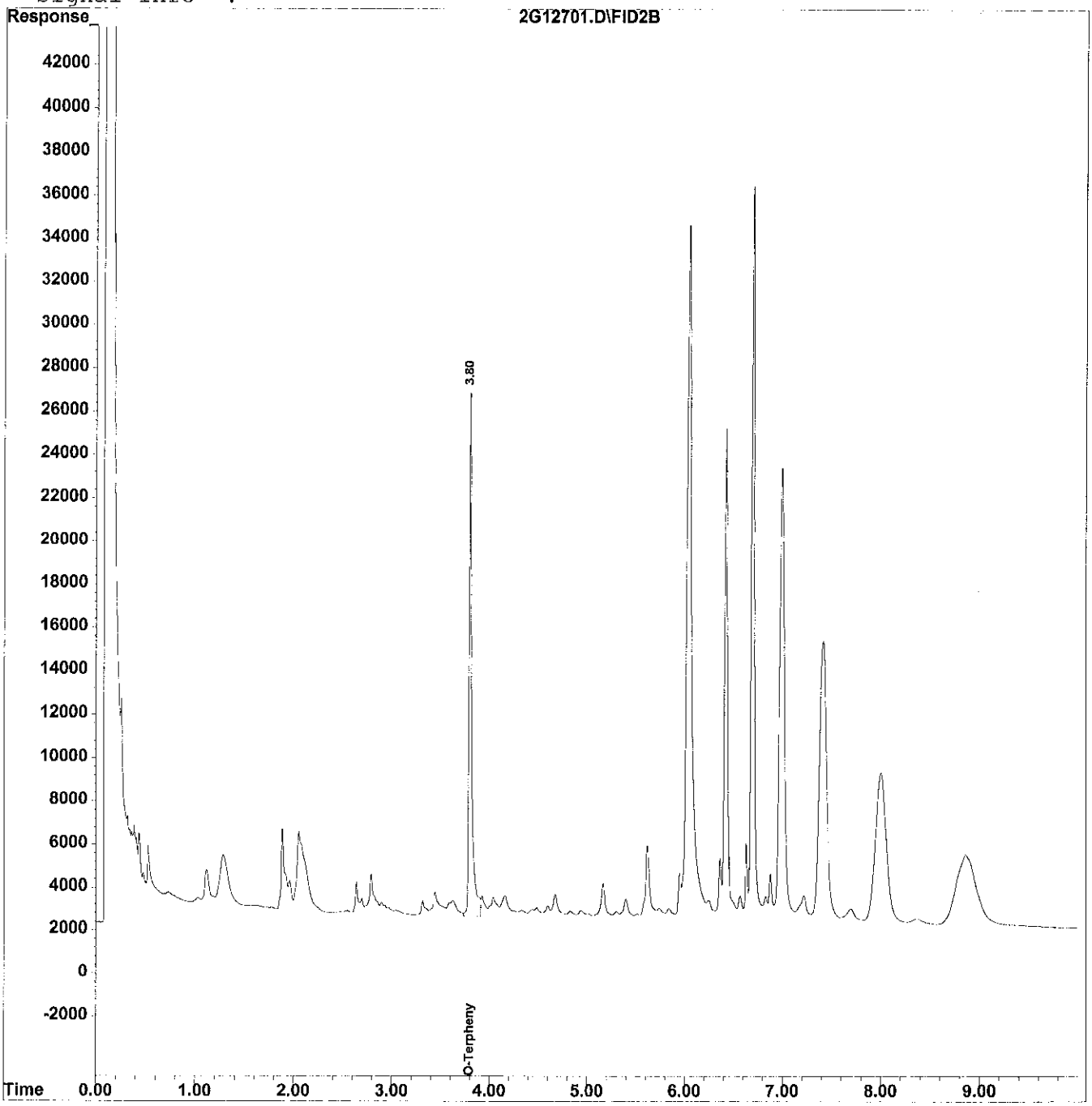
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	461398	688.766 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	86.10%
Target Compounds			
1) H Petroleum Range	3.60	7509554	15157.125 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12701.D Vial: 15
Acq On : 31 May 2001 00:26 Operator: HV
Sample : L0105526-03 FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12692.D Vial: 6
Acq On : 30 May 2001 22:19 Operator: HV
Sample : L0105526-04 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.05
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

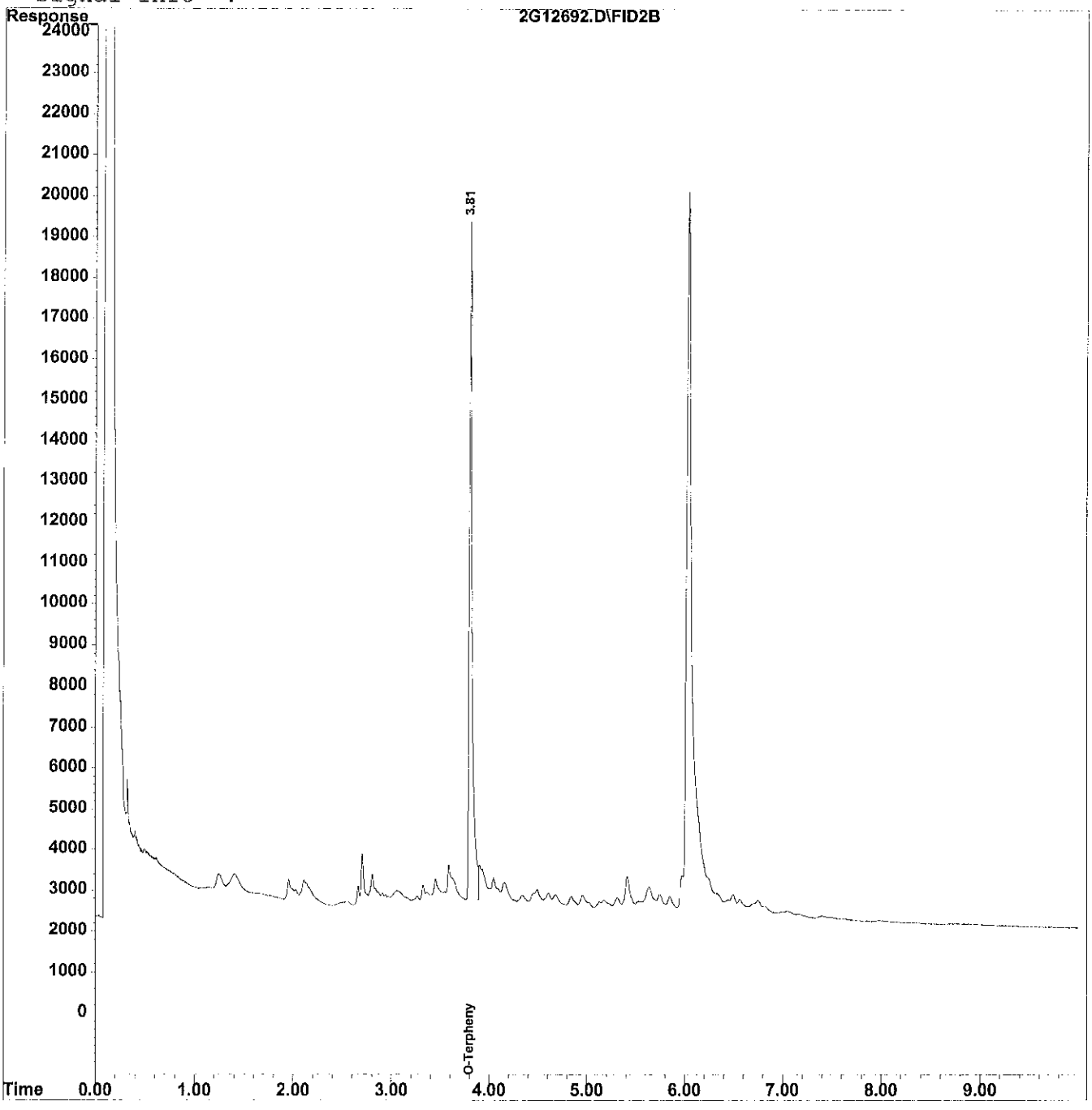
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.81	331521	12.372 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	61.86%
Target Compounds			
1) H Petroleum Range	3.60	1638962	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12692.D Vial: 6
Acq On : 30 May 2001 22:19 Operator: HV
Sample : L0105526-04 FLA PRO water Inst : hp2
Misc : water Multiplr: 1.05
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.3 Standards Data

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed May 16 14:48:49 2001

Calibration Files
5 =2G12361.D 50 =2G12360.D 100 =2G12359.D
200 =2G12356.D 400 =2G12358.D 600 =2G12357.D

	Compound	5	50	100	200	400	600	Avg	%RSD
1) H	Petroleum Range	2.375	2.048	2.010	2.068	1.792	1.598	1.982 E4	13.38
2) S	O-Terphenyl	2.788	2.805	2.711	2.948	2.540	2.285	2.680 E4	8.77

(#) = Out of Range
FLASHPRO.M Wed May 16 14:49:31 2001 Page 1

Data File : C:\HPCHEM\1\DATA\051601A\2G12356.D Vial: 3
Acq On : 16 May 2001 13:21 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

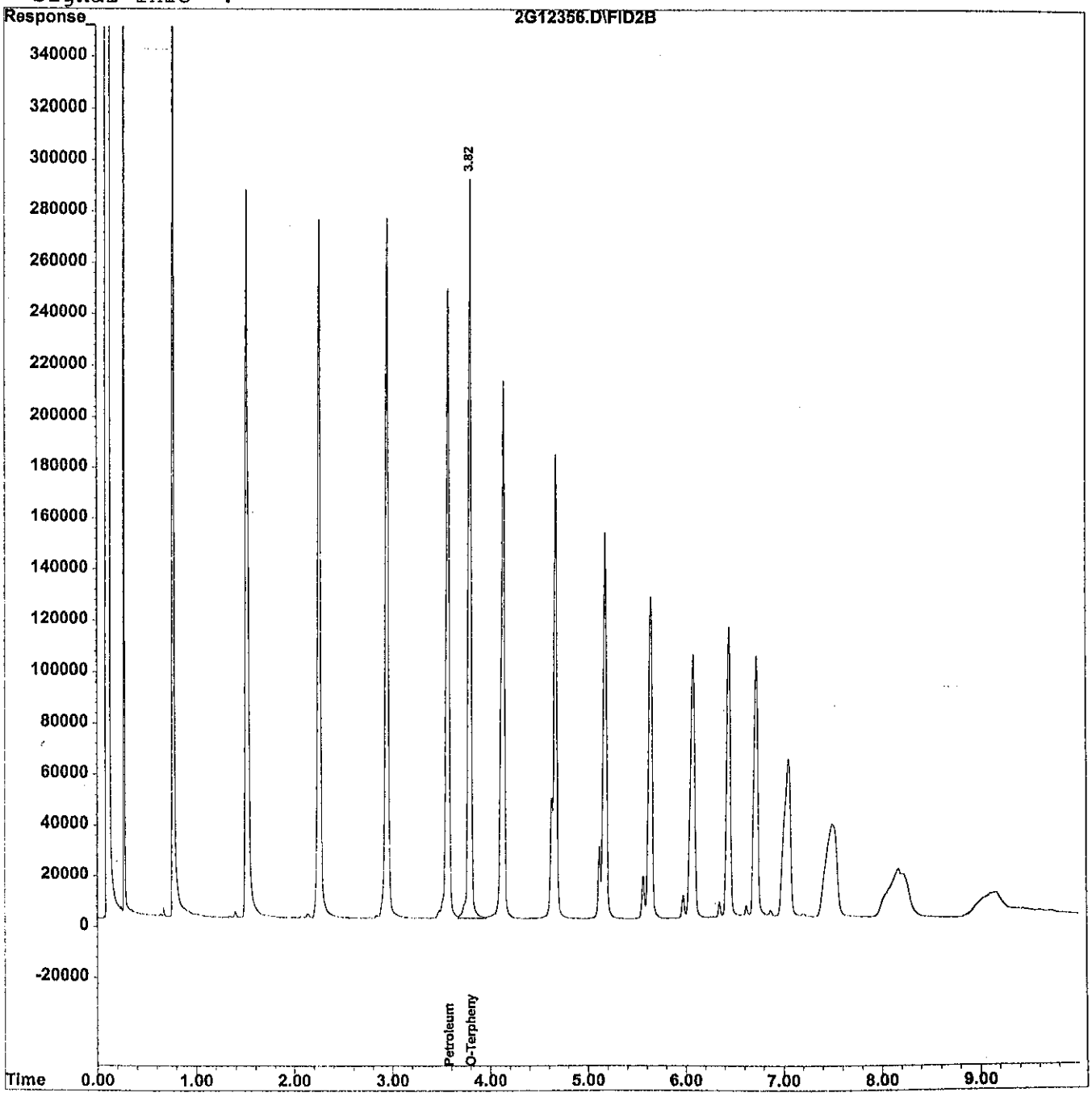
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.82	5896052	254.553 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1272.77%#
Target Compounds			
1) H Petroleum Range	3.60	70324135	3936.603 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12356.D Vial: 3
Acq On : 16 May 2001 13:21 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12357.D
Acq On : 16 May 2001 13:36
Sample : PRO STD 600ppm
Misc : SV 53-34
IntFile : PETRO.E
Vial: 4
Operator: HV
Inst : hp2
Multiplr: 1.00
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

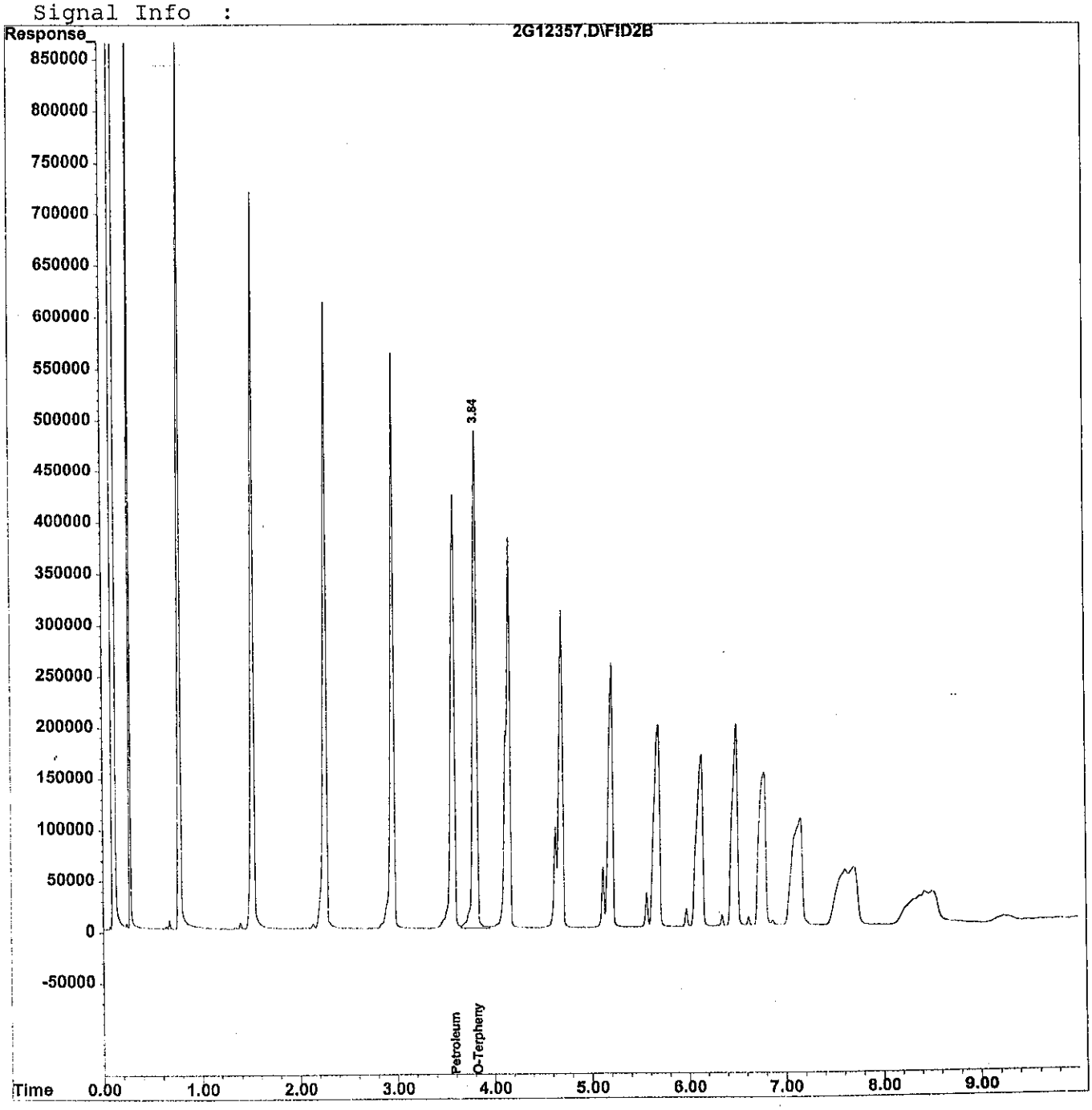
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.84	13709213	591.874 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 2959.37%#	
Target Compounds			
1) H Petroleum Range	3.60	162958400	9122.083 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12357.D Vial: 4
Acq On : 16 May 2001 13:36 Operator: HV
Sample : PRO STD 600ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12358.D Vial: 5
Acq On : 16 May 2001 13:50 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

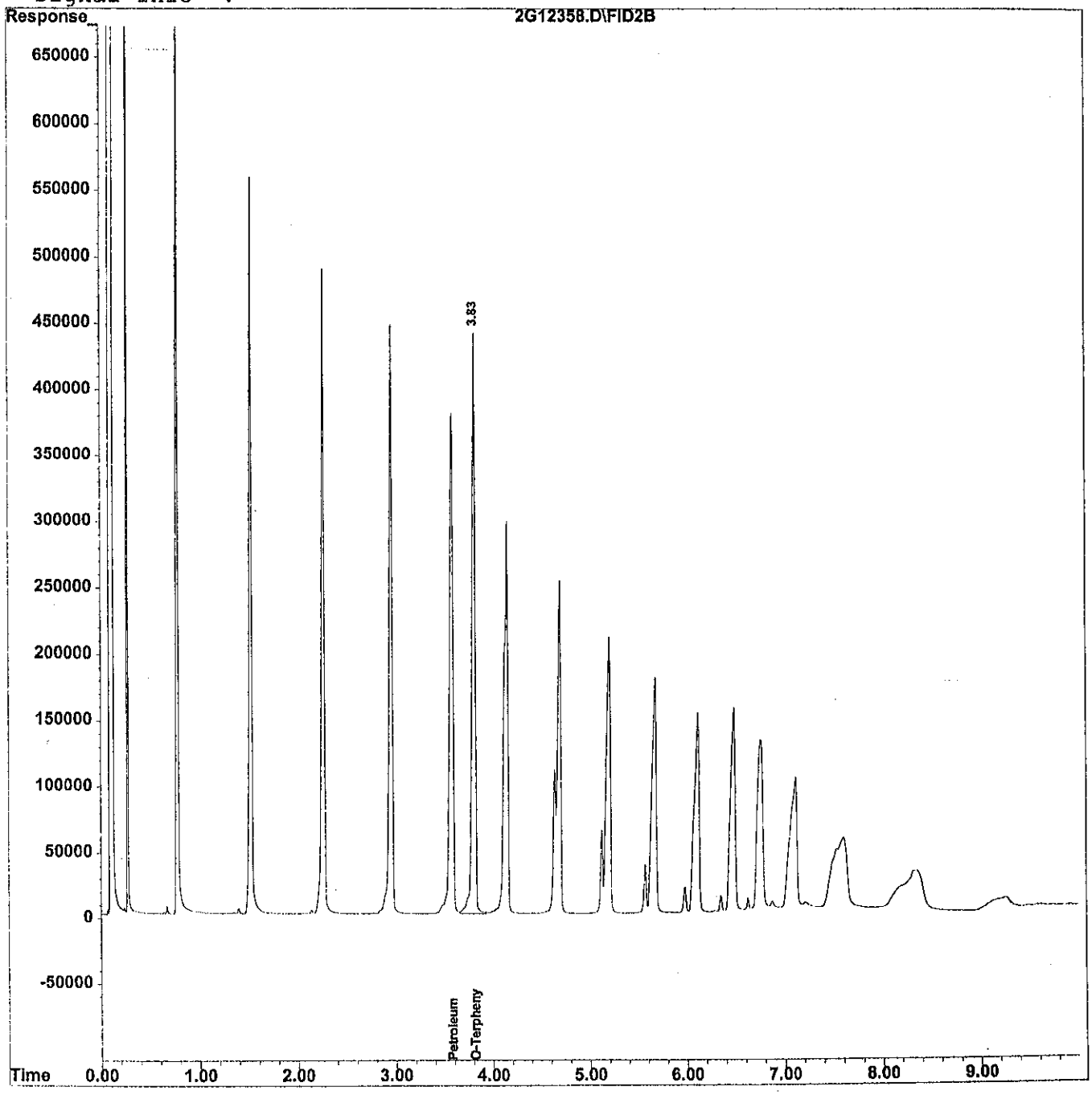
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.83	10160155	438.649 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 2193.25%#
Target Compounds			
1) H Petroleum Range	3.60	121826151	6819.583 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12358.D Vial: 5
Acq On : 16 May 2001 13:50 Operator: HV
Sample : PRO STD 400ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12359.D Vial: 6
Acq On : 16 May 2001 14:04 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

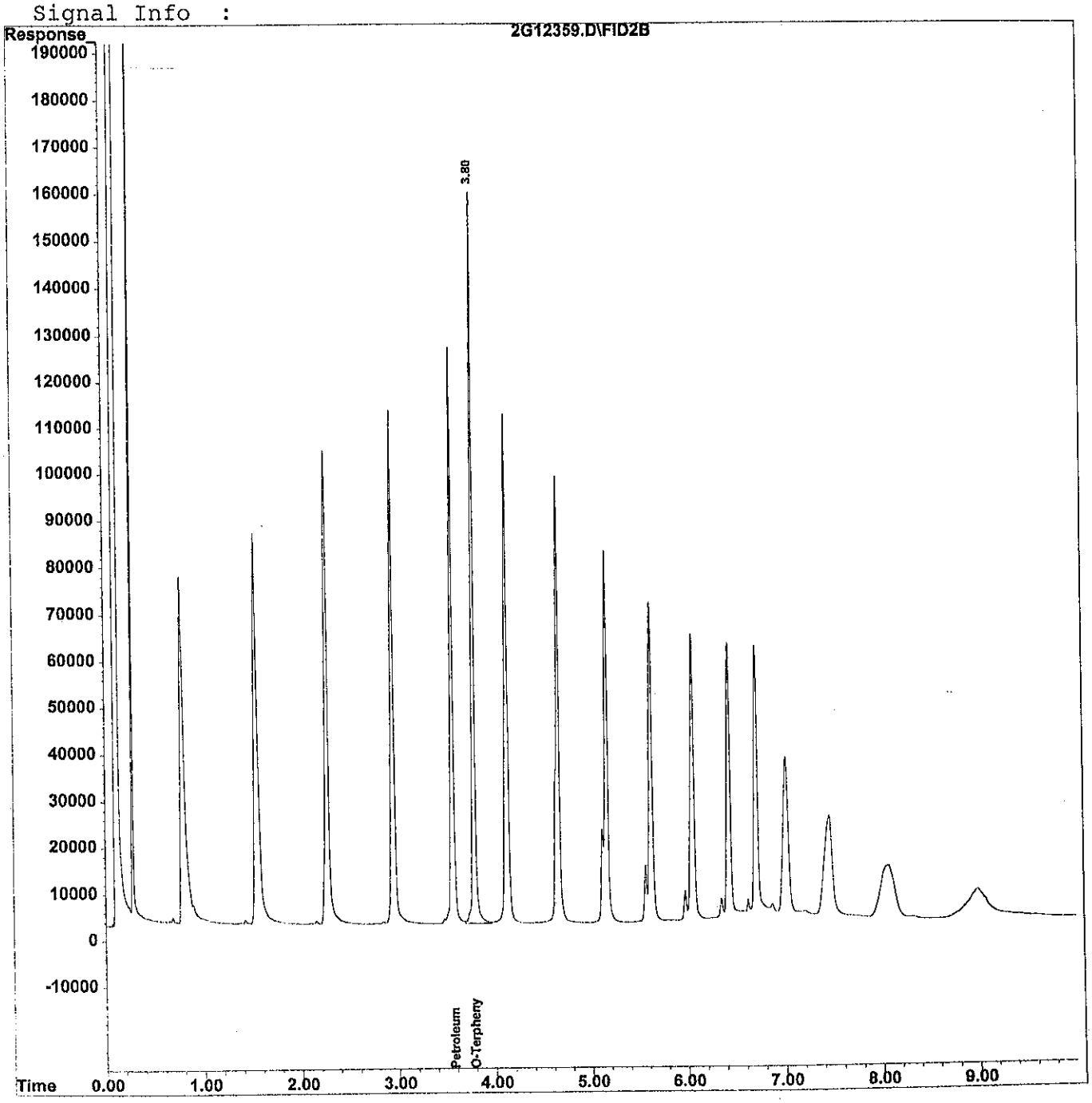
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	2711175	117.051 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	585.26%#
Target Compounds			
1) H Petroleum Range	3.60	34171288	1912.840 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12359.D Vial: 6
Acq On : 16 May 2001 14:04 Operator: HV
Sample : PRO STD 100ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:31 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12360.D Vial: 7
Acq On : 16 May 2001 14:19 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:38 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

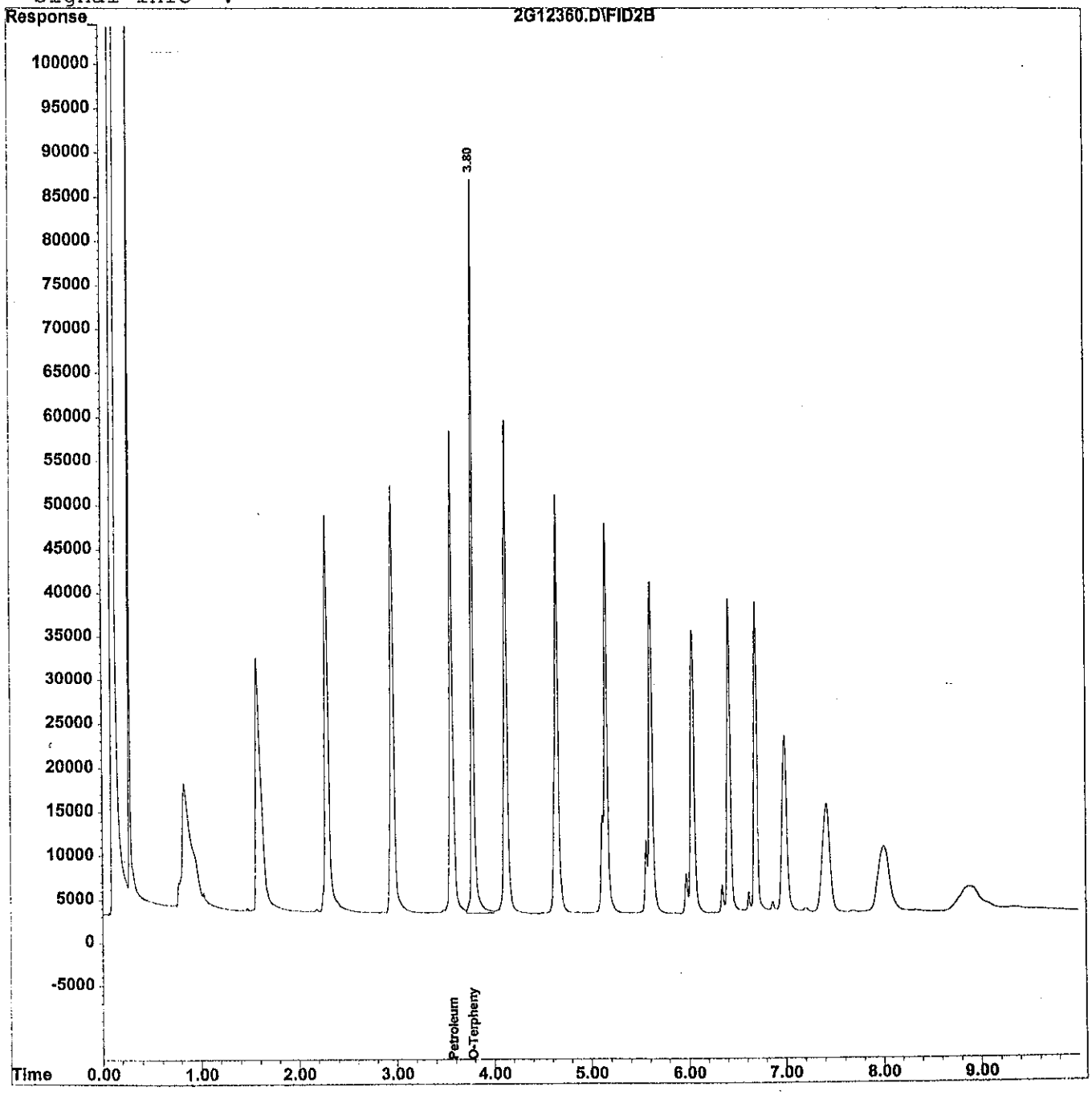
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	1402432	60.548 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	302.74%#
Target Compounds			
1) H Petroleum Range	3.60	17405467	974.323 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12360.D Vial: 7
Acq On : 16 May 2001 14:19 Operator: HV
Sample : PRO STD 50ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:38 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/04/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12361.D Vial: 8
Acq On : 16 May 2001 14:33 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:51 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

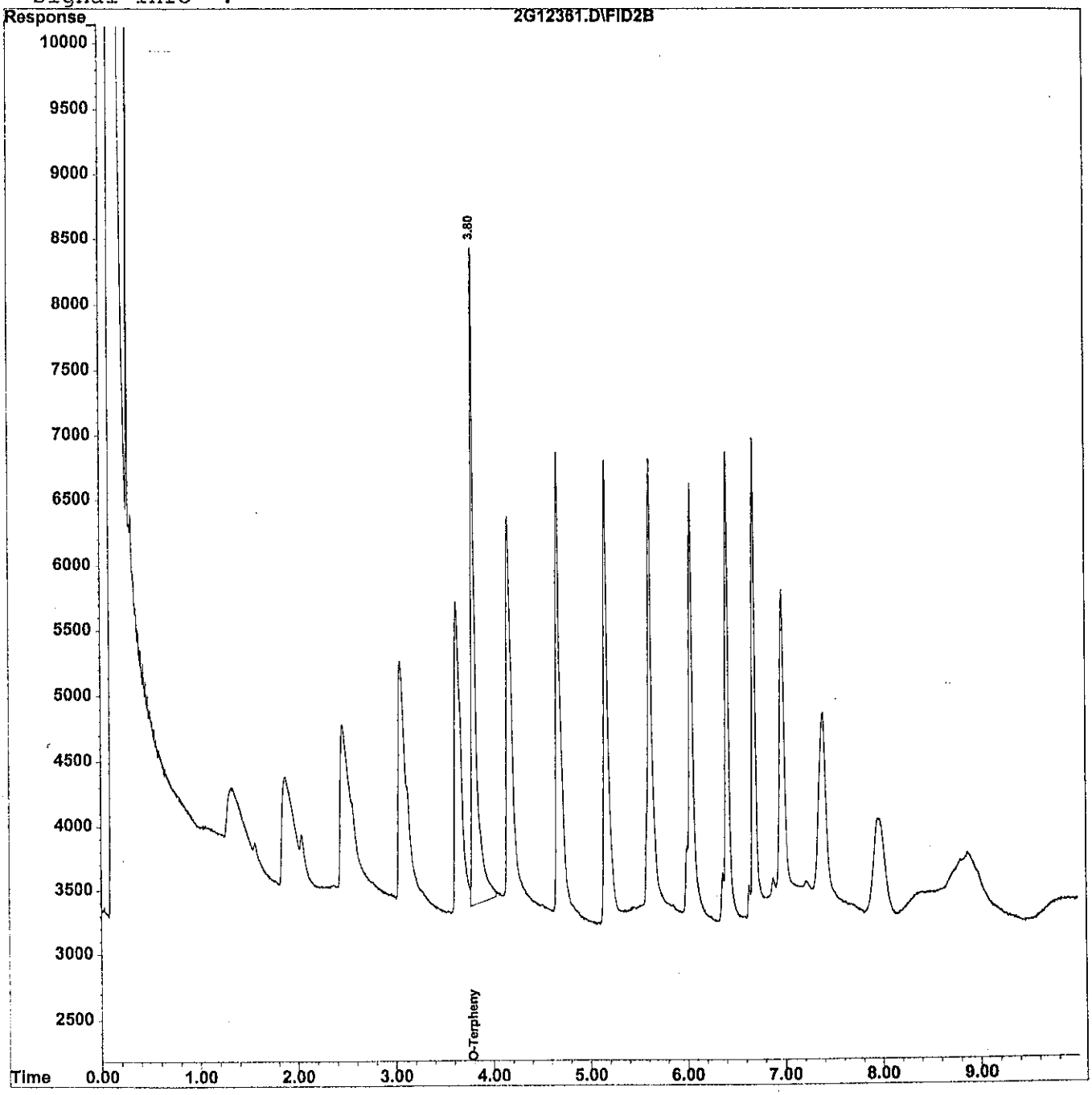
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	139421	5.203 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	26.02%#
Target Compounds			
1) H Petroleum Range	3.60	2019092	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12361.D Vial: 8
Acq On : 16 May 2001 14:33 Operator: HV
Sample : PRO STD 5ppm Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 14:51 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D Vial: 9
Acq On : 16 May 2001 15:06 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 52-07 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3261.889	4.1	92	0.00
2	S	O-Terphenyl	200.000	1.079	99.5#	0	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12362.D FLASHPRO.M Thu May 17 08:22:21 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D Vial: 9
Acq On : 16 May 2001 15:06 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 52-07 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 15:17 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

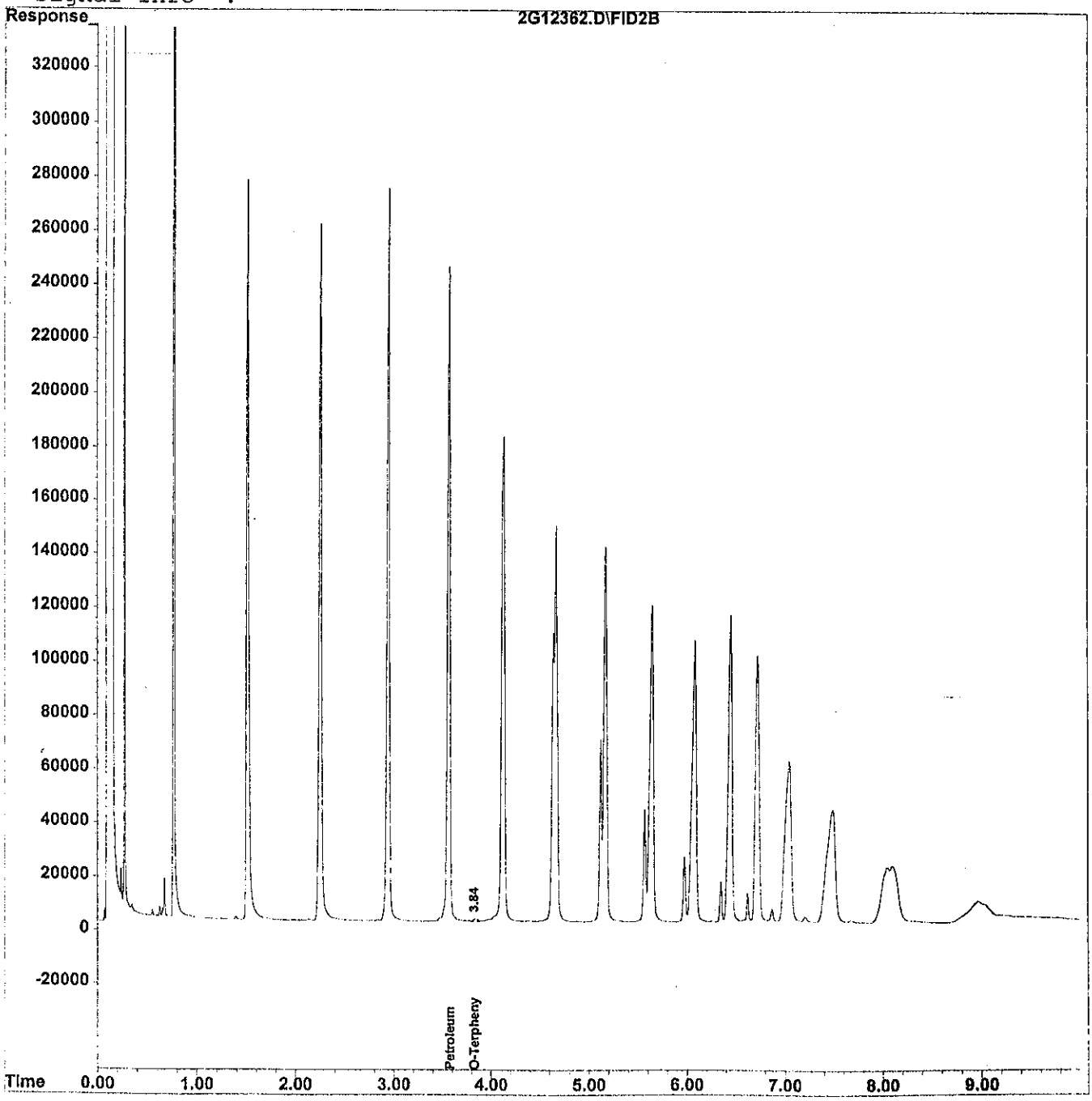
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.84	28902	1.079 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	5.40%#
Target Compounds			
1) H Petroleum Range	3.60	64643730	3261.889 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\051601A\2G12362.D Vial: 9
Acq On : 16 May 2001 15:06 Operator: HV
Sample : ALT PRO @200ppm Inst : hp2
Misc : SV 52-07 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 16 15:17 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12689.D Vial: 3
Acq On : 30 May 2001 21:35 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3040.650	10.6	86	0.00
2	S	O-Terphenyl	200.000	174.802	12.6	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12689.D FLASHPRO.M Thu May 31 11:42:13 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\053001B\2G12689.D Vial: 3
Acq On : 30 May 2001 21:35 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\053001B\2G12689.D Vial: 3
Acq On : 30 May 2001 21:35 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 30 21:47 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

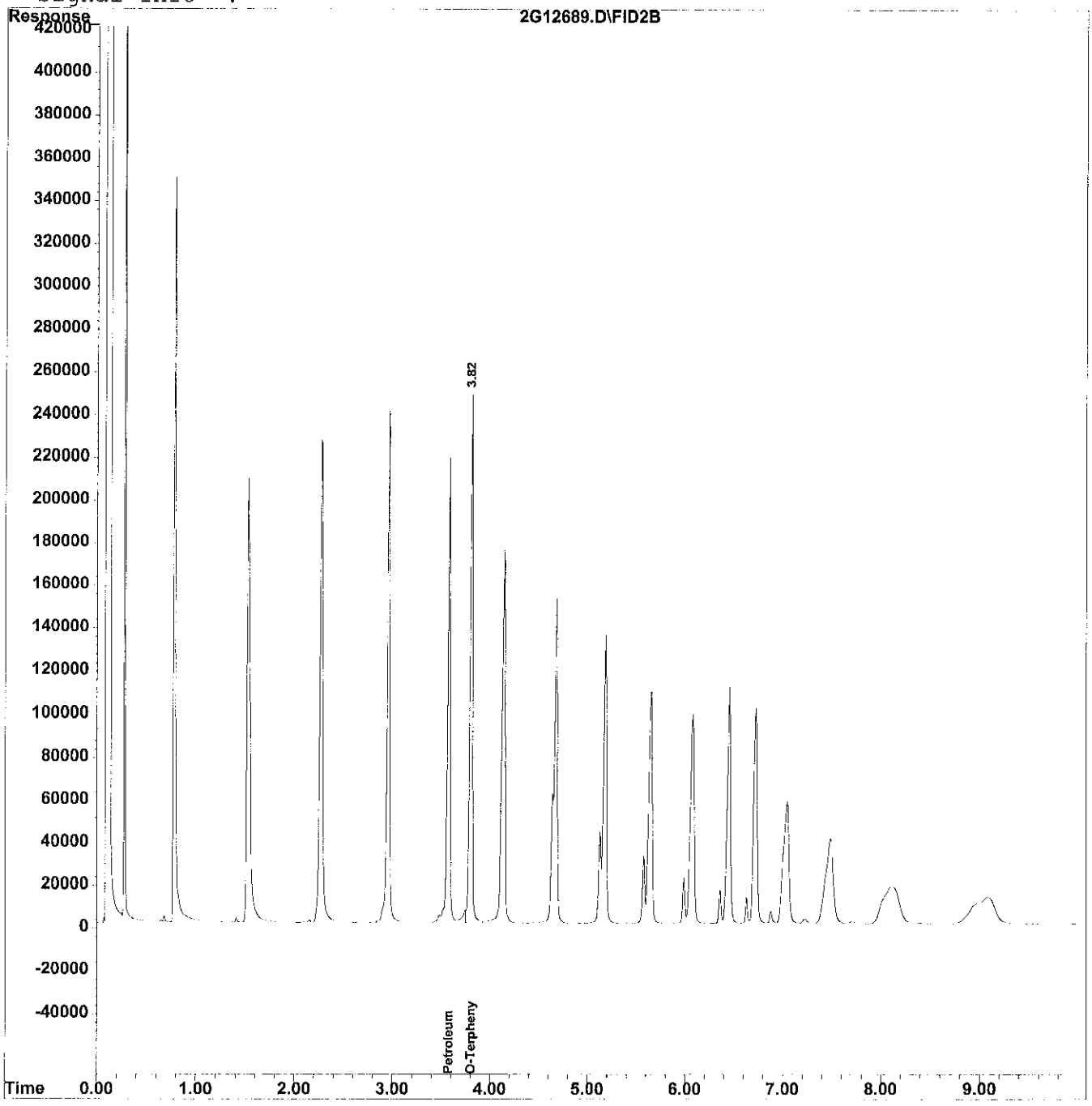
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.82	4683930	174.802 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 874.01%#	
Target Compounds			
1) H Petroleum Range	3.60	60259250	3040.650 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12689.D Vial: 3
Acq On : 30 May 2001 21:35 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : SV 53-34 Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 30 21:47 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12696.D Vial: 10
Acq On : 30 May 2001 23:15 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3693.807	-8.6	104	0.00
2	S	O-Terphenyl	200.000	216.176	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12696.D FLASHPRO.M Thu May 31 11:46:20 2001 Page 1

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Data File : C:\HPCHEM\1\DATA\053001B\2G12696.D Vial: 10
Acq On : 30 May 2001 23:15 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\053001B\2G12696.D Vial: 10
Acq On : 30 May 2001 23:15 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

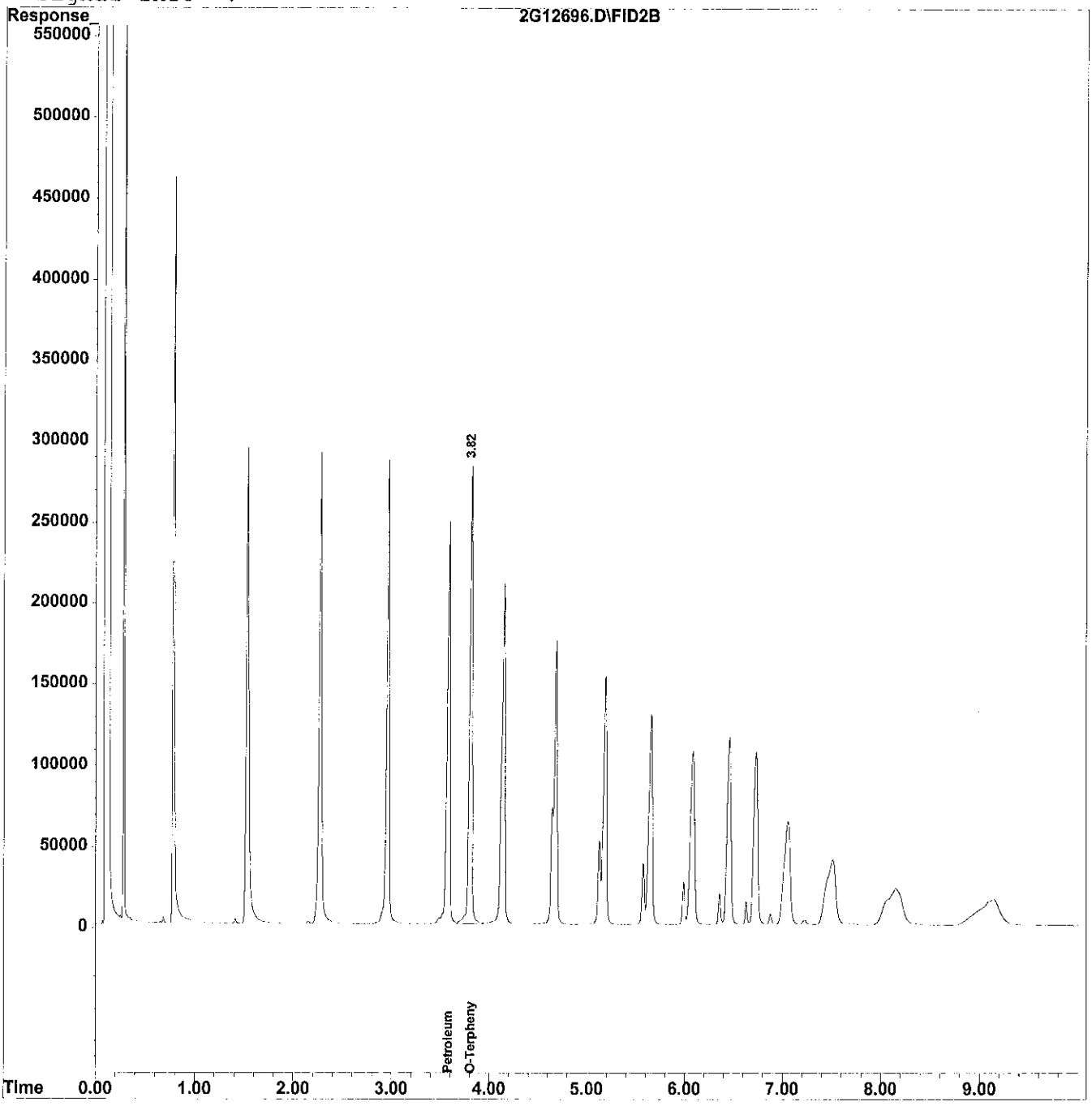
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.82	5792565	216.176 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery	= 1080.88%#
Target Compounds			
1) H Petroleum Range	3.60	73203446	3693.807 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12696.D FLASHPRO.M Thu May 31 11:43:55 2001 Page 1

Data File : C:\HPCHEM\1\DATA\053001B\2G12696.D Vial: 10
Acq On : 30 May 2001 23:15 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12705.D Vial: 10
Acq On : 31 May 2001 1:24 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	H	Petroleum Range	3400.000	3457.327	-1.7	97	0.00
2	S	O-Terphenyl	200.000	212.659	-6.3	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G12705.D FLASHPRO.M Thu May 31 11:46:11 2001 Page 1

Data File : C:\HPCHEM\1\DATA\053001B\2G12705.D Vial: 10
Acq On : 31 May 2001 1:24 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E

Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

Data File : C:\HPCHEM\1\DATA\053001B\2G12705.D Vial: 10
Acq On : 31 May 2001 1:24 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:44 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

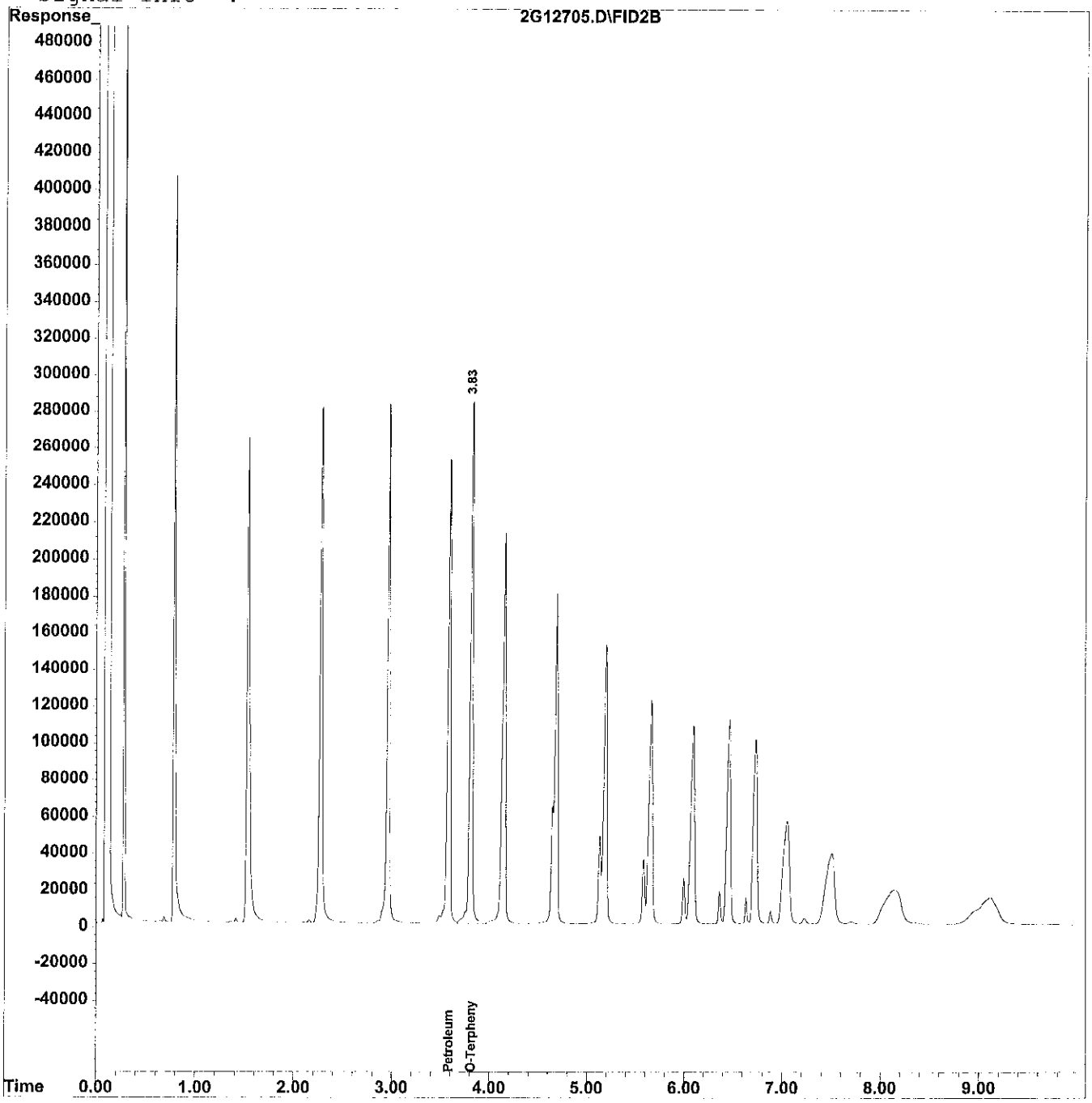
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.83	5698333	212.659 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 1063.30%#	
Target Compounds			
1) H Petroleum Range	3.60	68516912	3457.327 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12705.D Vial: 10
Acq On : 31 May 2001 1:24 Operator: HV
Sample : PRO CONT CHK Inst : hp2
Misc : Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:44 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.5.4 Raw QC Data

Data File : C:\HPCHEM\1\DATA\053001B\2G12690.D Vial: 4
Acq On : 30 May 2001 21:51 Operator: HV
Sample : PRO water BLK V164-P07 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:42 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

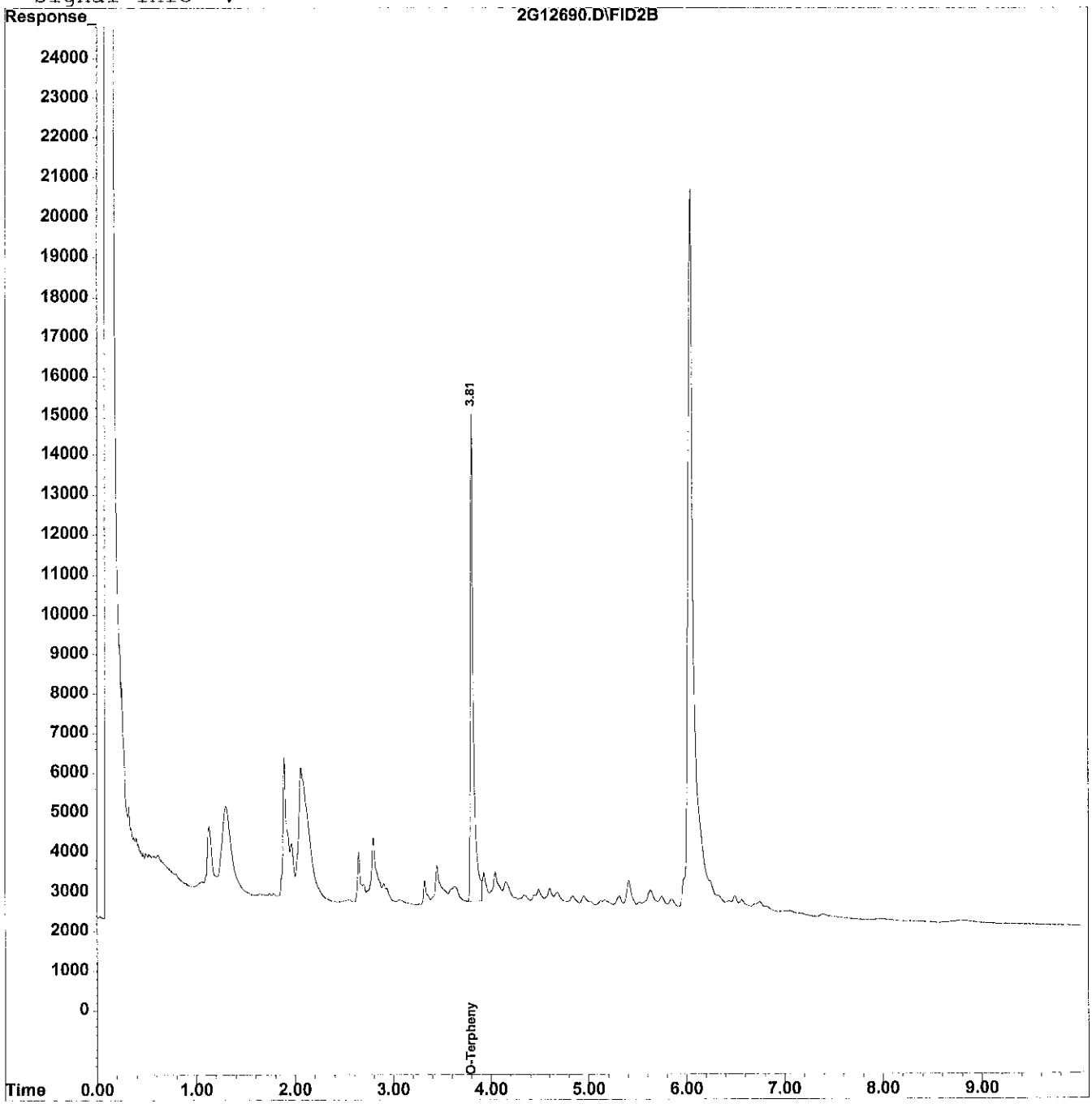
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.81	255226	9.525 ppb
Spiked Amount 20.000 Range 49 - 174	Recovery =	47.63%#	
Target Compounds			
1) H Petroleum Range	3.60	2373460	<MDL ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12690.D Vial: 4
Acq On : 30 May 2001 21:51 Operator: HV
Sample : PRO water BLK V164-P07 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:42 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Fri May 04 11:43:38 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12691.D Vial: 5
Acq On : 30 May 2001 22:05 Operator: HV
Sample : PRO water LCS V164-P07 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

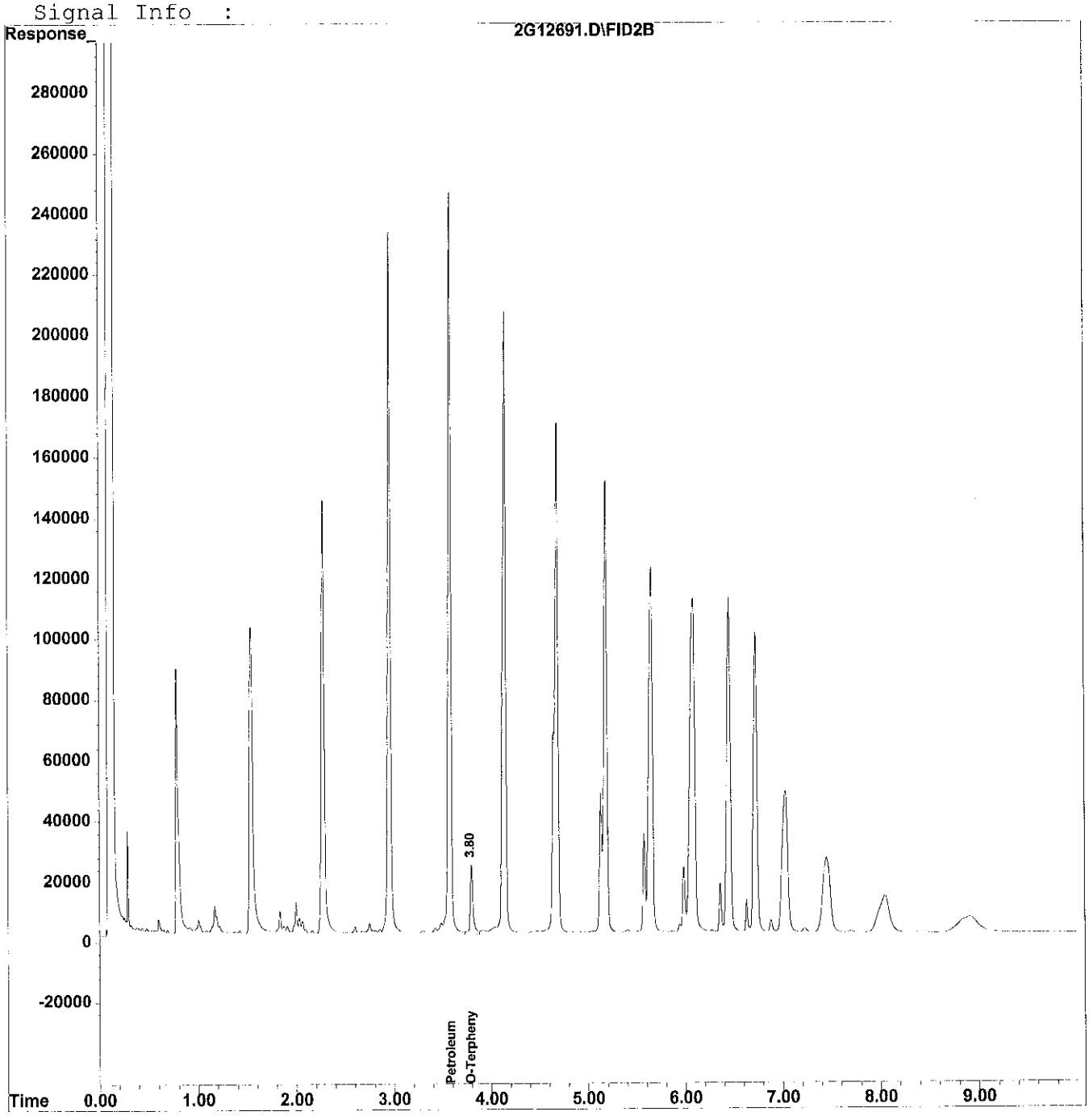
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	486555	18.158 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	90.79%
Target Compounds			
1) H Petroleum Range	3.60	53175176	2683.192 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12691.D Vial: 5
Acq On : 30 May 2001 22:05 Operator: HV
Sample : PRO water LCS V164-P07 Inst : hp2
Misc : water Multiplr: 1.00
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12693.D Vial: 7
Acq On : 30 May 2001 22:33 Operator: HV
Sample : L0105526-04 MS FLA PRO water Inst : hp2
Misc : water Multiplr: 2.10
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

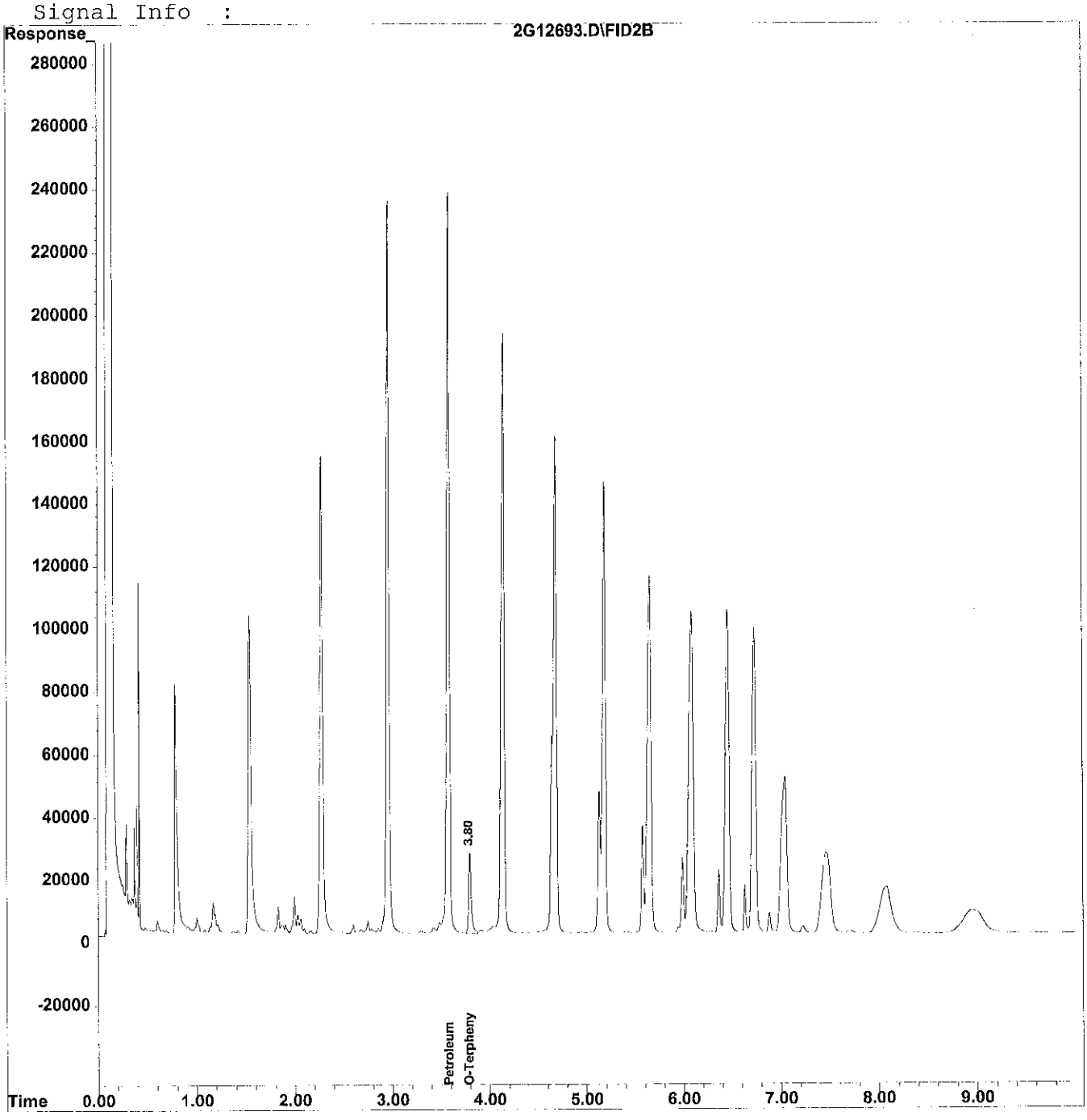
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	480174	17.920 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery = 89.60%	
Target Compounds			
1) H Petroleum Range	3.60	53273133	5645.082 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
2G12693.D FLASHPRO.M Thu May 31 11:43:39 2001 Page 10

Data File : C:\HPCHEM\1\DATA\053001B\2G12693.D Vial: 7
Acq On : 30 May 2001 22:33 Operator: HV
Sample : L0105526-04 MS FLA PRO water Inst : hp2
Misc : water Multiplr: 2.10
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12694.D Vial: 8
Acq On : 30 May 2001 22:47 Operator: HV
Sample : L0105526-04 MSD FLA PRO water Inst : hp2
Misc : water Multiplr: 2.10
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

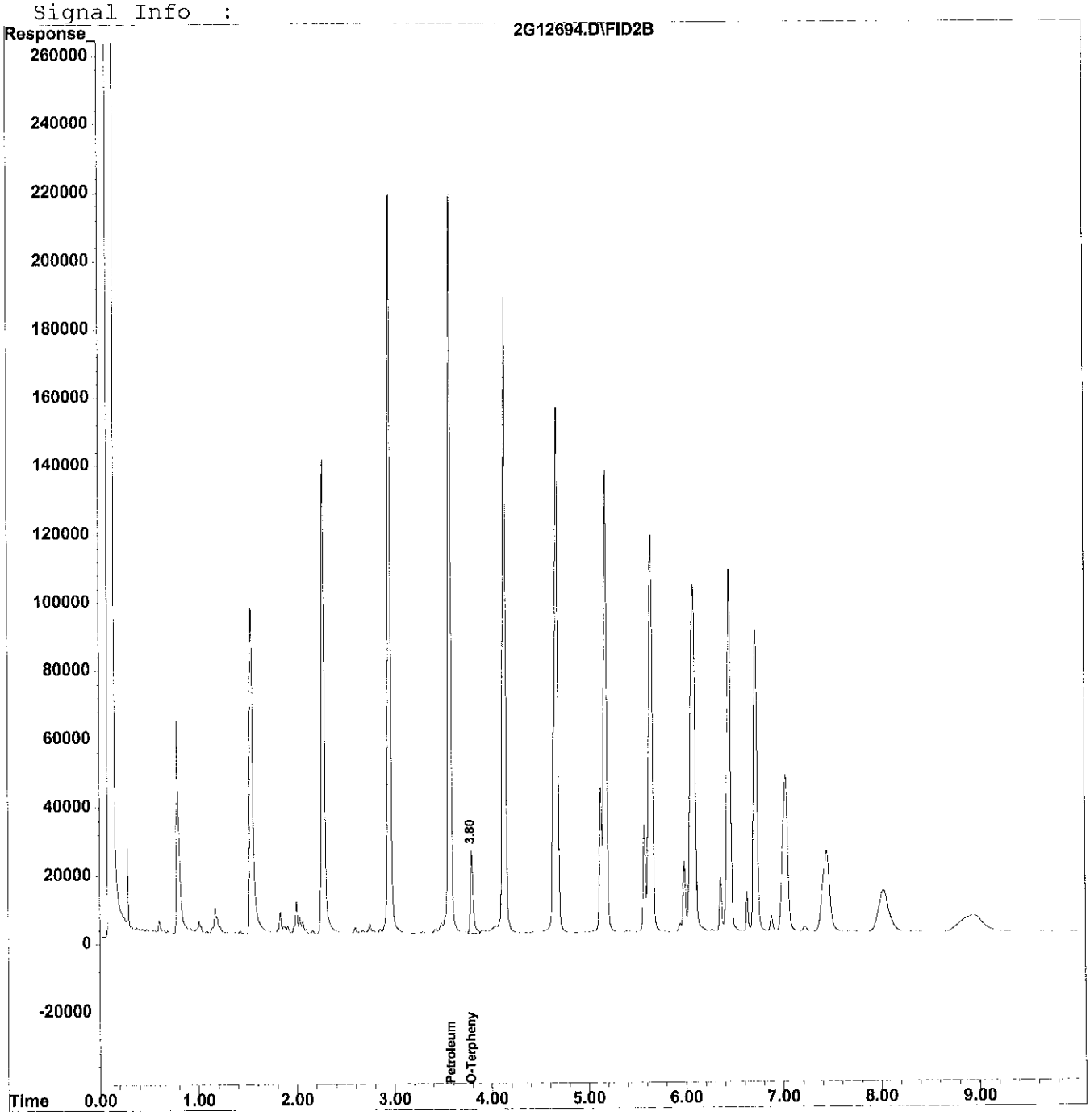
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	453513	16.925 ppb
Spiked Amount 20.000	Range 49 - 174	Recovery =	84.63%
Target Compounds			
1) H Petroleum Range	3.60	46438878	4920.891 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12694.D Vial: 8
Acq On : 30 May 2001 22:47 Operator: HV
Sample : L0105526-04 MSD FLA PRO water Inst : hp2
Misc : water Multiplr: 2.10
IntFile : PETRO.E
Quant Time: May 31 11:43 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12697.D Vial: 11
Acq On : 30 May 2001 23:30 Operator: HV
Sample : PRO soil BLK V164-P03 Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:49 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

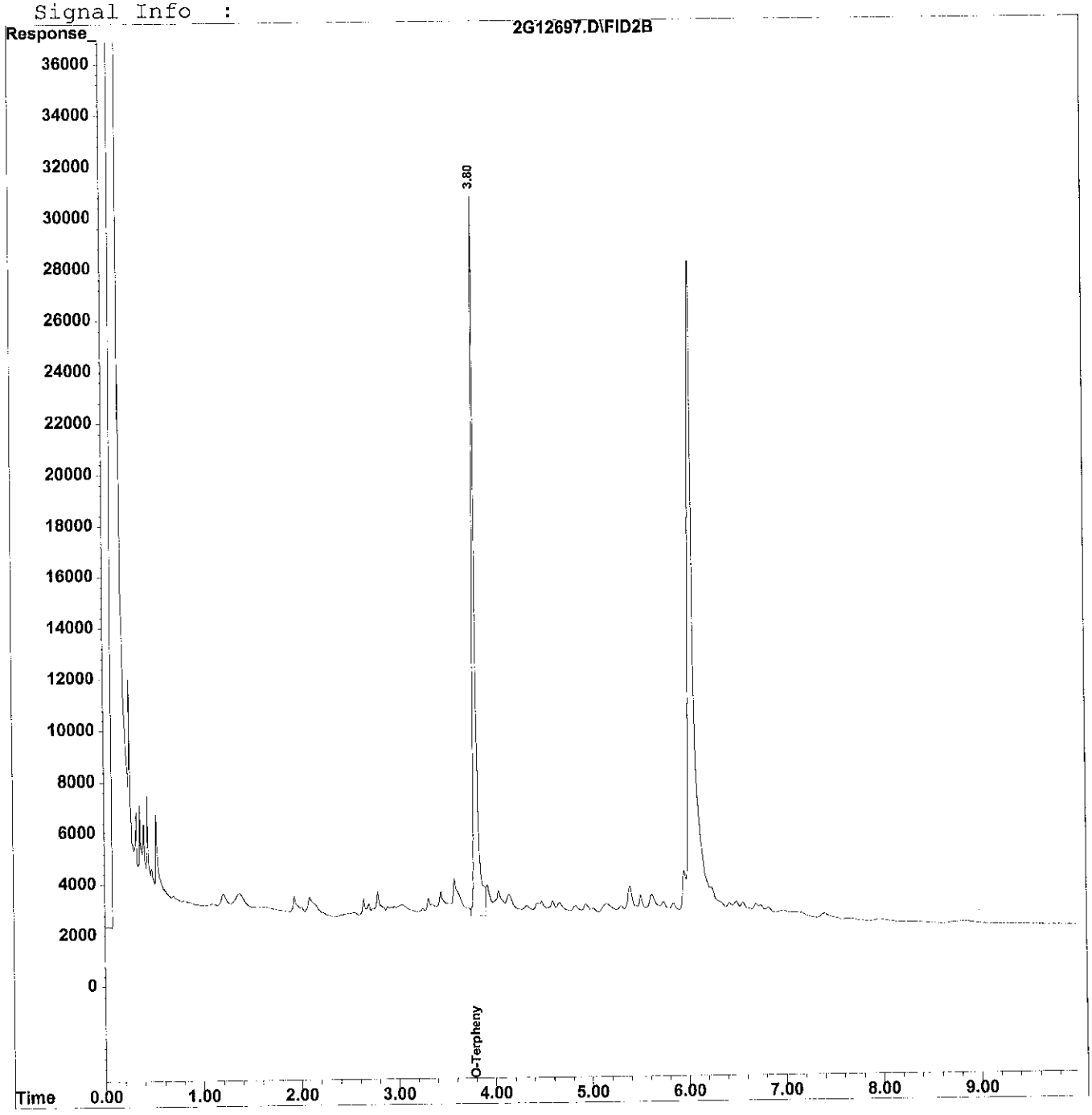
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.81	543963	812.017 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery = 101.50%	
Target Compounds			
1) H Petroleum Range	3.60	2988479	6031.884 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12697.D Vial: 11
Acq On : 30 May 2001 23:30 Operator: HV
Sample : PRO soil BLK V164-P03 Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:49 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12698.D
Acq On : 30 May 2001 23:44
Sample : PRO soil LCS V164-P03
Misc : soil
IntFile : PETRO.E
Quant Time: May 31 11:49 2001 Quant Results File: FLASHPRO.RES

Vial: 12
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

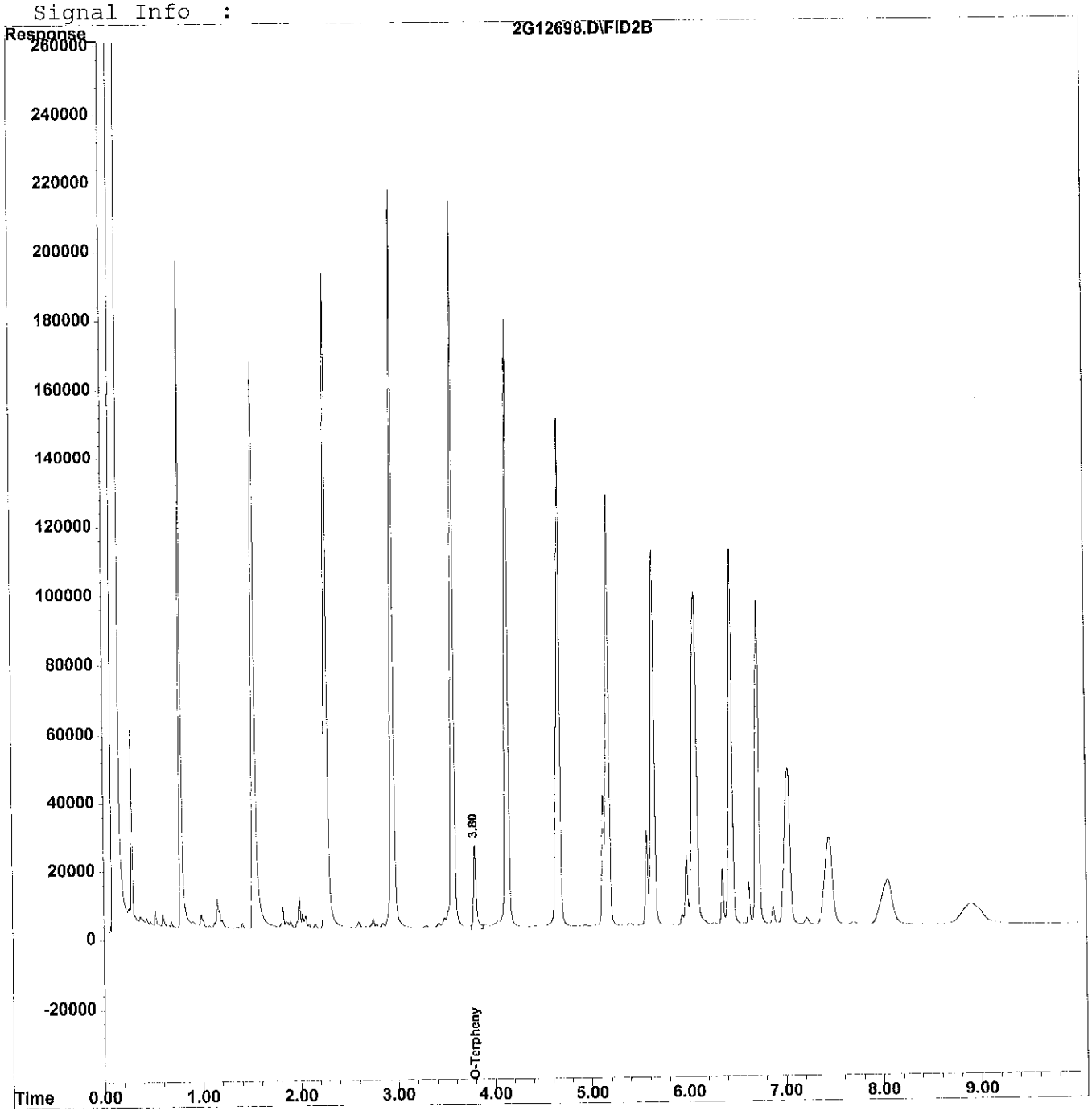
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	484130	722.699 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	90.34%
Target Compounds			
1) H Petroleum Range	3.60	52722029	106413.038 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12698.D Vial: 12
Acq On : 30 May 2001 23:44 Operator: HV
Sample : PRO soil LCS V164-P03 Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:49 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12702.D Vial: 16
Acq On : 31 May 2001 00:41 Operator: HV
Sample : L0105526-03 MS FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	466084	695.760 ppb
Spiked Amount 800.000 Range 43 - 136		Recovery =	86.97%
Target Compounds			
1) H Petroleum Range	3.60	53655681	108297.502 ppb

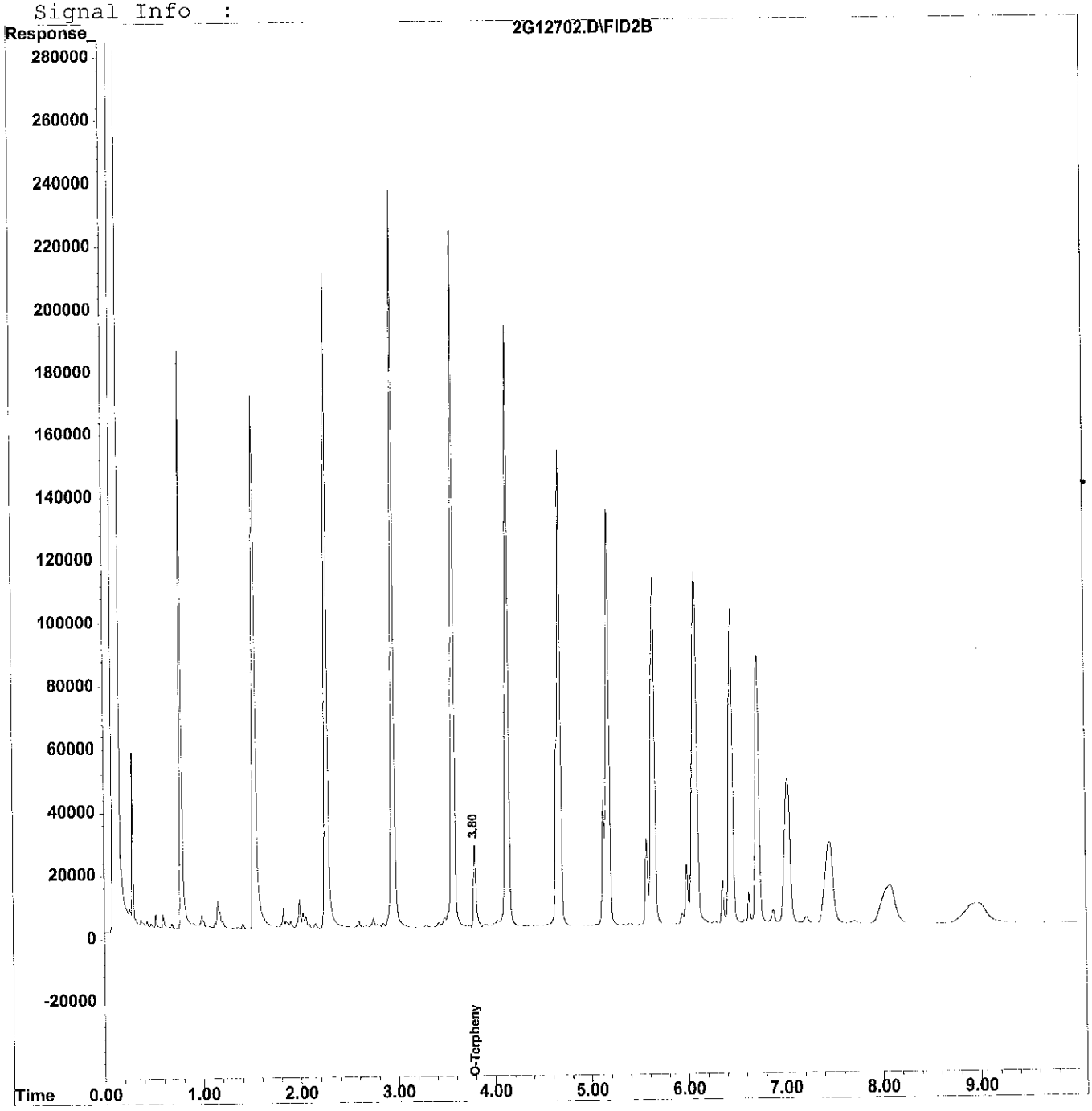
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12702.D
Acq On : 31 May 2001 00:41
Sample : L0105526-03 MS FLA PRO soil
Misc : soil
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Vial: 16
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\053001B\2G12703.D Vial: 17
Acq On : 31 May 2001 00:55 Operator: HV
Sample : L0105526-03 MSD FLA PRO soil Inst : hp2
Misc : soil Multiplr: 40.00
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Initial Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S O-Terphenyl	3.80	462919	691.036 ppb
Spiked Amount 800.000	Range 43 - 136	Recovery =	86.38%
Target Compounds			
1) H Petroleum Range	3.60	50763079	102459.135 ppb

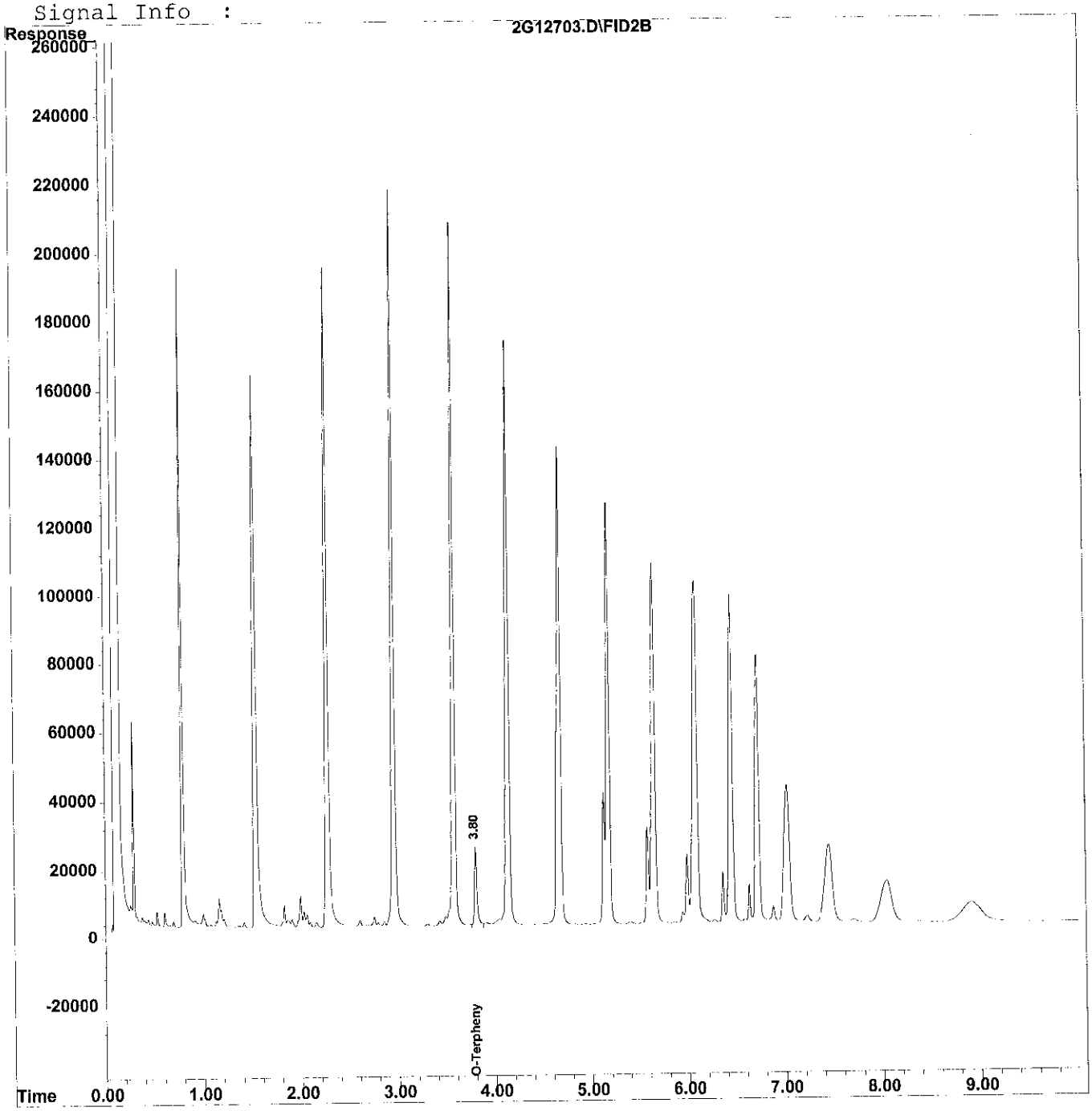
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\053001B\2G12703.D
Acq On : 31 May 2001 00:55
Sample : L0105526-03 MSD FLA PRO soil
Misc : soil
IntFile : PETRO.E
Quant Time: May 31 11:50 2001 Quant Results File: FLASHPRO.RES

Vial: 17
Operator: HV
Inst : hp2
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\FLASHPRO.M (Chemstation Integrator)
Title : PETROLEUM RANGE ORGANICS 05/16/01
Last Update : Wed Mar 28 11:02:03 2001
Response via : Multiple Level Calibration
DataAcq Meth : FLASHPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time May 10 Instrument ID HP2 Column ID RTX-5 Data Subdirectory 05b01A

Analyst Initials HV

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
2g123b3	Med2				✓
b4	"				
b5	WIN. Def. STD.		NS13-12		
b6	PRO CONT. CHK		SVA3-34		
b7	PRO STD. 800 ppm.				
b8	400				
b9	100				
60	50				
61	5				
62	ALT. PRO @ 200 ppm. Exp. 5/27/01		SVA1-12		
63	PRO, water BLK VHB-P73				
64	LCS 1				
65	1010b318-01 9LA PRO water				
66	-02				
67	-03 MS				
68	-04 MSD				
69	-05				
70	Med2				
71	PRO CONT. CHK		SVA3-34		

HV 5/17/01

Reviewed By: mdc 5/17/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time May 30 01 Instrument ID HP2 Column ID RTX-5 Data Subdirectory 053001B

Analyst Initials HV

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
29N187	Mech2				✓
88	WIN. DES. STD.		NS13-12		
89	PRO CONT. CHK		SV53-34		
90	PRO watr BLK V164 - P07				RR
91	1 LCS 1				✓
92	L010526-04 SLA PRO watr				
93	-04 MS				
94	-04 MSD				
95	Mech2				
96	PRO CONT. CHK		SV53-34		
97	PRO soil BLK V164 - P03				
98	1 LCS 1				
99	L010526-01 SLA PRO soil				
100	-02				
01	-03				
02	-03 MS				
03	-03 MSD				
04	Mech2				
05	PRO CONT. CHK		SV53-34		
06	PRO watr BLK V164 - P09				
07	1 LCS 1				RR1
08	L010555-01 SLA PRO watr				✓
09	L010573-01 1				RR-D
10	L010555-01 10X	10			✓
11	Mech				
12	PRO CONT. CHK		SV53-34		

HV 5/31/01

Reviewed By: [signature] 6/3/01

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SMI = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Analysis Date/Time May 31 01 Instrument ID HP2 Column ID RTX-5 Data Subdirectory 053101

Analyst Initials HT

SOP # GCS09 Rev. # 1 ____ 8081A
SOP # GCS04 Rev. # 2 ____ 8151
SOP # GCS03 Rev. # 0 ✓ PRO
SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol)

SOP # GCS10 Rev. # 3 ____ 8082
SOP # GCS01 Rev. # 1 ____ 8100
SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO)
SOP # GCS07 Rev. # 4 ____ 8011

Filename	Sample ID	Dilution Factor	Soln #	Re-analysis (if applicable)	Status
					✓
29 12713	MECH				
14	WIN. DFT-STD.		NS 13-12		
15	PRO CONT. CHK		SVS3-34		
16	PRO with BLK V164-P07 RR				
17	10105555-01 100X FIA-PRO with	100			
18	PRO CONT. CHK		SVS3-34		

Reviewed By: _____

Status:
✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified dilution
* = See comments on opposite page
IS or SS = Interference with internal and/or surrogate standards
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis required
SM1 = Sample matrix interference
CC = Continuing calibration failed
CF = Confirmation required

Volume 164
Page 7

Parameter: FLA-PRO H2O SOP #: EXPRO Revision #: 1
Extraction Analyst(s): DCU TV/KD Analyst(s): DCU
Date/Time Extracted: 5/23/01 1330 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: DCU Witness: JAB
Surrogate #: ES5003G-50 Earliest Hold Date: 5/29/01
Spike #: A = ES5003J-13 Spike #: B = —

Extraction Work Group WG 98050
Analytical Work Group WG 98088

Extract Relinquished By: [signature]
Extract Received By & Date: [signature] 5/24/01

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓			1L	1ml		1ml	T				WG 98050-02
2	LCS		✓			1	1	1ml	1	1				WG 98050-03
3	05-526-04	FLA.PRO	✓			950ml	1	1	1	1				MS 98050-01
4	" MS	1	✓			475ml	1	1ml	1	1				1 -04
5	" MSD	1	✓			1	1	1	1	1				1 -05
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAB

Methylene Chloride Lot #: H1016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: 1:1 HCl Lot #: ER1610
Florisil Lot #: —
Silica Gel Lot #: 139356
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1338

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C	✓	Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 5/24/01

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Extraction Notes For Volume # ~~163~~ Dec 5/13 164 Page # 7

General Comments: Nothing to report

Extraction Anomalies: Nothing to report

Concentration Anomalies: Nothing to report

Clean-Up Anomalies: Nothing to report

Supervisor Review: _____ Date: _____

Parameter: FLA-PRO 5.1 SOP #: ExPRO Revision #: 1
Extraction Analyst(s): JAQ TV/KD Analyst(s): JAQ
Date/Time Extracted: 5/23/01 2015 Date TV/KD: 5/23/01
Spike/Surrogate Analyst: JAQ Witness: DCV
Surrogate #: ES5036-50 Earliest Hold Date: 6/5
Spike #: A = ES5037-13 Spike #: B = —

Extraction Work Group WG 98042
Analytical Work Group WG 98041

Extract Relinquished By: [illegible]
Extract Received By & Date: [illegible] 5/24/01

	Sample ID	Test Code	pH / <2	pH / N	pH / >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					25.0g	1ml		1ml	T				WG 98042-02
2	LCS					1	1	1ml	1	1				WG 98042-03
3	05-526-01	FLA-PRO				25.05g	1		1	C				
4	02	1				25.07g				1				WG 98042-01
5	03					25.02g								WG 98042-04
6	03MS					25.00g		1ml						WG 98042-05
7	03MSD					25.03g		1						
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/23/01 JAQ

Methylene Chloride Lot #: 41016
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: — Lot #: —
Florisil Lot #: —
Silica Gel Lot #: T39556
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: ER1453

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B	✓				
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C	✓	Other	
Acid 3664A		N/A	
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 5/24/01

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Extraction Notes For Volume # 164 Page # 3

General Comments: nothing to report

Extraction Anomalies: nothing to report

Concentration Anomalies: nothing to report

Clean-Up Anomalies: nothing to report

Supervisor Review: _____ Date: _____

Example FLA-PRO Calculations

1.0 Calulating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = As/ Cs

Where:		Example:
	As = Area of the compound being measured in the standard	10000
	Cs = Concentration of the compound being measured (ng/ml).	100
	RF	**100**

2.0 Calculating the concentration (C) of a compound in water using data from prep log and quantitation report:

C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL). (prep log)	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	**100**
	Vi = Initial volume of sample (mL). (prep log)	1000
	C (ug/L) =	**0.1**

3.0 Calculating the concentration (C) of a compound in soil using data from prep log and quantitation report: C = [(Ax)(Vf)(D)] / [(RF)(Vi)]

Where:		Example:
	Ax = Area of the compound being measured	10000
	Vf = Final volume of sample extract (mL).	1
	D = Dilution factor for sample as a multiplier (10X = 10).	1
	RF = Response factor from ICAL calculated above.	100
	Wi = Initial weight of sample (g).	30
	C (ug/kg)	**3.333333**

2.3 Metals

2.3.1 Metals I C P Data

REPORT NARRATIVE
METALS

KEMRON Login No:L0105526

METHOD

Analysis: SW-846 6010/6020/7000

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met

SAMPLES

All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SLP,KHR,JYH,AMT REVIEWED: Maren Berry DATE: 06/01/01

Rev. 6/00

METALS - ICP DATA
Login Number: L0105526

A. QC Summary

✓ Batch QC Summary Form

B. Raw Data

✓ Analyst checksheet
✓ Analysis runlog
✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- ICP Interference check sample
- ICP Serial dilutions (as needed)
- Post digestion spike sample (if applicable)
- Standard addition results (as needed)

C. Preparation log(s)

D. Sample Calculations

Checked By: MMB Date: 06/01/01

2.3.1.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98336 **RUN DATE:** 5/29/2001
METHOD: 6010B **PREP DATE:** 5/24/2001
MATRIX: Water **ANALYST:** KHR
UNITS: mg/L **DUPLICATE:** L0105364-02
INSTRUMENT: Perkin Elmer Optima 3000 DV **MS/MSD:** L0105364-01

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	0.004	ND	0.200	0.198	0.005	0.005	ND	0.200	0.193	0.196	99.0	80.0	120.0	96.5	98.0	75.0	125.0	4.5	1.5	20
Aluminum	0.100	ND	10.000	10.000	0.120	0.121	ND	10.000	9.820	9.960	100.0	80.0	120.0	98.2	99.6	75.0	125.0	0.8	1.4	20
Arsenic	0.004	ND	1.000	0.961	0.006	0.006	0.007	1.000	0.946	0.963	96.1	80.0	120.0	93.9	95.6	75.0	125.0	3.3	1.8	20
Barium	0.010	ND	10.000	9.270	ND	ND	0.028	10.000	8.540	8.680	92.7	80.0	120.0	85.1	86.5	75.0	125.0	NA	1.6	20
Beryllium	0.01000	ND	1.000	0.985	ND	ND	ND	1.000	0.928	0.949	98.5	80.0	120.0	92.8	94.9	75.0	125.0	NA	2.2	20
Calcium	0.2000	0.0494	10.000	9.970	453.000	431.000	50.600	10.000	55.900	55.900	99.7	80.0	120.0	53.0	53.0	75.0	125.0	5.0	0.0	20
Cadmium	0.01000	ND	1.000	0.949	ND	ND	ND	1.000	0.910	0.921	94.9	80.0	120.0	91.0	92.1	75.0	125.0	NA	1.2	20
Cobalt	0.020	ND	1.000	0.972	0.434	0.416	ND	1.000	0.880	0.890	97.2	80.0	120.0	88.0	89.0	75.0	125.0	4.2	1.1	20
Chromium	0.005	ND	1.000	0.988	0.016	0.016	ND	1.000	0.927	0.937	98.8	80.0	120.0	92.7	93.7	75.0	125.0	3.1	1.1	20
Copper	0.005	ND	1.000	0.969	ND	ND	ND	1.000	0.922	0.939	96.9	80.0	120.0	92.2	93.9	75.0	125.0	NA	1.8	20
Iron	0.040	0.0082	1.000	0.972	199.000	188.000	5.920	1.000	6.900	6.920	97.2	80.0	120.0	98.0	100.0	75.0	125.0	5.7	0.3	20
Potassium	1.000	ND	50.000	50.200	3.420	3.020	1.640	50.000	50.900	51.700	100.4	80.0	120.0	98.5	100.1	75.0	125.0	12.4	1.6	20
Magnesium	0.500	ND	10.000	9.700	290.000	279.000	14.200	10.000	23.700	23.900	97.0	80.0	120.0	95.0	97.0	75.0	125.0	3.9	0.8	20
Manganese	0.010	0.0008	1.000	0.997	26.000	24.700	0.512	1.000	1.400	1.410	99.7	80.0	120.0	88.8	89.8	75.0	125.0	5.1	0.7	20
Molybdenum	0.100	ND	1.000	0.930	ND	ND	ND	1.000	0.897	0.908	93.0	80.0	120.0	89.7	90.8	75.0	125.0	NA	1.2	20
Sodium	0.500	ND	50.000	49.700	3.380	3.070	0.660	50.000	48.500	48.500	99.4	80.0	120.0	95.7	95.7	75.0	125.0	9.6	0.0	20
Nickel	0.040	ND	1.000	0.979	0.697	0.669	ND	1.000	0.898	0.907	97.9	80.0	120.0	89.8	90.7	75.0	125.0	4.1	1.0	20
Lead	0.005	ND	1.000	0.982	0.033	0.031	ND	1.000	0.917	0.934	98.2	80.0	120.0	91.7	93.4	75.0	125.0	6.3	1.8	20
Antimony	0.200	ND	1.000	0.948	ND	ND	ND	1.000	0.926	0.943	94.8	80.0	120.0	92.6	94.3	75.0	125.0	NA	1.8	20
Titanium	0.030	ND	1.000	1.010	0.082	0.080	ND	1.000	0.959	0.977	101.0	80.0	120.0	95.9	97.7	75.0	125.0	2.7	1.9	20
Vanadium	0.010	ND	1.000	0.971	ND	ND	ND	1.000	0.933	0.944	97.1	80.0	120.0	93.3	94.4	75.0	125.0	NA	1.2	20
Zinc	0.020	ND	1.000	0.988	0.240	0.232	ND	1.000	0.896	0.900	98.8	80.0	120.0	89.6	90.0	75.0	125.0	3.4	0.4	20
																		0.0	0.0	
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																		0.0	0.0	
																		0.0	0.0	

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT
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SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
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LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: wg98230
METHOD: 6020A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: ELAN 6100 ICP-MS

RUN DATE: 05/25/01
PREP DATE: 05/24/01
ANALYST: JYH
DUPLICATE: L0105502-01
MS/MSD: L0105502-04

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Lead	0.00100	ND	0.125	0.133	0.04920	0.04860	ND	0.125	0.130	0.127	106.4	80.0	120.0	104.0	101.6	75.0	125.0	1.2	2.3	20
Antimony	0.00100	ND	0.125	0.120	0.029	0.027	ND	0.125	0.093	0.099	96.0	80.0	120.0	74.2	79.1	80.0	120.0	4.6	6.5	20
Selenium	0.00100	ND	0.125	0.112	ND	ND	ND	0.125	0.097	0.097	89.6	80.0	120.0	77.7	77.5	75.0	125.0	NA	0.2	20
Thallium	0.00020	ND	0.125	0.133	ND	ND	ND	0.125	0.127	0.124	106.4	80.0	120.0	101.6	99.2	75.0	125.0	NA	2.4	20
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	
																		0.0	0.0	

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REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP:	WG98187	**RUN DATE:**	05/29/2001
METHOD:	6010B	**PREP DATE:**	05/23/2001
MATRIX:	Soil	**ANALYST:**	SLP
UNITS:	mg/kg	**DUPLICATE:**	L0105526-02
INSTRUMENT:	IRIS	**MS/MSD:**	L0105526-01

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Silver	2.00	ND	10.000	9.700	ND	ND	ND	10.000	9.490	9.270	97.0	80.0	120.0	94.9	92.7	75.0	125.0	NA	2.35	20
Aluminum	5.000	ND	500.000	475.000	1290.000	965.000	655.000	500.000	1290.000	1440.000	95.0	80.0	120.0	127.0	157.0	75.0	125.0	28.82	10.99	20
Barium	0.500	0.024	500.000	475.000	1.170	0.942	0.811	500.000	476.000	477.000	95.0	80.0	120.0	95.0	95.2	75.0	125.0	21.59	0.21	20
Beryllium	0.500	ND	50.000	47.300	0.008	ND	ND	50.000	49.200	50.400	94.6	80.0	120.0	98.4	100.8	75.0	125.0	NA	2.41	20
Calcium	10.000	3.150	500.000	478.000	66.400	61.000	147.000	500.000	626.000	655.000	95.6	80.0	120.0	95.8	101.6	75.0	125.0	8.48	4.53	20
Cadmium	0.500	ND	50.000	47.500	ND	ND	ND	50.000	46.600	46.200	95.0	80.0	120.0	93.2	92.4	75.0	125.0	NA	0.86	20
Cobalt	1.000	ND	50.000	47.400	0.092	ND	ND	50.000	47.200	47.100	94.8	80.0	120.0	94.4	94.2	75.0	125.0	NA	0.21	20
Chromium	1.000	ND	50.000	47.500	1.280	1.080	1.390	50.000	49.500	50.200	95.0	80.0	120.0	96.2	97.6	75.0	125.0	16.95	1.40	20
Copper	1.000	ND	50.000	47.200	ND	ND	ND	50.000	47.700	47.500	94.4	80.0	120.0	95.4	95.0	75.0	125.0	NA	0.42	20
Iron	2.000	ND	50.000	52.700	179.000	134.000	87.300	50.000	153.000	168.000	105.4	80.0	120.0	131.4	161.4	75.0	125.0	28.75	9.35	20
Potassium	50.000	ND	2500.000	2290.000	17.800	11.500	7.240	2500.000	2360.000	2380.000	91.6	80.0	120.0	94.1	94.9	75.0	125.0	43.00	0.84	20
Magnesium	25.000	6.850	500.000	484.000	32.600	31.000	17.700	500.000	509.000	509.000	96.8	80.0	120.0	98.3	98.3	75.0	125.0	5.03	0.00	20
Manganese	0.500	0.013	50.000	47.300	1.250	1.370	1.840	50.000	50.300	51.200	94.6	80.0	120.0	96.9	98.7	75.0	125.0	9.16	1.77	20
Sodium	25.000	2.550	2500.000	2380.000	3.460	5.870	1.900	2500.000	2340.000	2330.000	95.2	80.0	120.0	93.5	93.1	75.0	125.0	51.66	0.43	20
Nickel	2.000	ND	50.000	46.700	0.643	0.482	0.400	50.000	47.300	47.600	93.4	80.0	120.0	93.8	94.4	75.0	125.0	28.62	0.63	20
Antimony	10.000	ND	50.000	47.400	ND	ND	ND	50.000	44.500	44.700	94.8	80.0	120.0	89.0	89.4	75.0	125.0	NA	0.45	20
Selenium	1.000	0.339	50.000	45.000	0.349	ND	ND	50.000	44.100	43.900	90.0	80.0	120.0	88.2	87.8	75.0	125.0	NA	0.45	20
Thallium	2.000	ND	50.000	47.700	ND	ND	ND	50.000	47.800	47.600	95.4	80.0	120.0	95.6	95.2	75.0	125.0	NA	0.42	20
Vanadium	0.500	ND	50.000	47.900	1.010	0.600	0.426	50.000	49.400	49.800	95.8	80.0	120.0	97.9	98.7	75.0	125.0	50.93	0.81	20
Zinc	1.000	ND	50.000	47.200	ND	0.474	ND	50.000	47.400	47.400	94.4	80.0	120.0	94.8	94.8	75.0	125.0	NA	0.00	20
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NOTES & DEFINITIONS :

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MS RPD = RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP:	WG98247	**RUN DATE:**	5/25/01
METHOD:	6020A	**PREP DATE:**	5/24/01
MATRIX:	Soil	**ANALYST:**	JYH
UNITS:	mg/kg	**DUPLICATE:**	L0105526-01
INSTRUMENT:	ELAN 6100 ICP-MS	**MS/MSD:**	L0105526-02

			CONCENTRATION PPM								PERCENT RECOVERY							PERCENT		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Arsenic	0.500	ND	10.000	9.120	ND	ND	ND	10.000	8.940	8.570	91.2	80.0	120.0	89.4	85.7	75.0	125.0	NA	4.2	20
Lead	0.500	ND	10.000	9.130	0.615	0.540	0.670	10.000	10.900	10.300	91.3	80.0	120.0	102.3	96.3	75.0	125.0	13.0	5.7	20
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2.3.1.2 Raw Data

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST JVH DATE 5/25/01 TIME 9:44
METHOD # 6020A SOP # MC700 Rev # 1 WORK GROUP # 98230, 98190, 98247
CAL STD SOURCE MJ-9-50A ICV/CCV SOURCE MJ-10-28
ICS AB SOURCE MJ-9-42B ICS A SOURCE MJ-9-42A POST SPK SOURCE MS-1-8-L
Instrument ID: TJA IRIS: _____ Data File: 052401 Perkin Elmer Optima: _____ Perkin Elmer ELAN: —

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S0				27.	PBW62		40/50	WG98853-03
	1 1/10				28.	SPLP BLK 5-20			
	2 1/5				29.	LCSW62	4		04
	3 x 2				30.	054331 7	2		02
	ICV				31.	17DP			07
	ICB				32.	18			01
	ICSA				33.	18S			05
	ICSAB			cw/cuB	34.	18SD			06
1.	PBW62P			WG98172-03	35.	054041 1 PS			
2.	SPLP BLK 5-24		40/50		36.	11 SDL	10		
3.	LCSW62P	4		04	37.				
4.	055201	2		02	38.				
5.	01 DP			07	39.				
6.	04			01	40.				
7.	05 S			05	41.				
8.	06 SD			06	42.				
9.	04 PS				43.				
10.	04 SDL	10		cw/cuB	44.				
11.	02	2			45.				
12.	03				46.				
13.	07				47.				
14.	08				48.				
15.	09				49.				
16.	10				50.				
17.	11				51.				
18.	055251				52.				
19.	055260 1				53.				
20.	054041 1			cw/cuB	54.				
21.	054331 3				55.				
22.	14				56.				
23.	15				57.				
24.	16				58.				
25.	ICSA				59.				
26.	ICSAB			cw/cuB	60.				

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/25/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Antimony	0	13.638	10	71820	20	145284	100	726275			1.00000	
Selenium	0	115.52	10	3113.3	20	6152.8	100	29362.4			0.99998	
Thallium	0	98.002	10	110060	20	218616	100	1092392			1.00000	
Lead	0	191.34	10	378287	20	749071	100	3710913			1.00000	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 10:06 AM
CCV1 Time: 10:27 AM
CCV2 Time: 11:29 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.6	117.2	50	52.1	104.2	58.1	116.2	*
Antimony	50	49.0	98.0	50	47.4	94.8	47.7	95.4	
Arsenic	50	49.9	99.8	50	48.4	96.8	48.9	97.8	
Barium	50	53.8	107.6	50	52.7	105.4	50.3	100.6	
Beryllium	50	56.1	112.2	50	44.6	89.2	52.9	105.8	*
Cadmium	50	50.1	100.2	50	49.0	98.0	49.4	98.8	
Calcium	5000	5460	109.2	5000	6100	122.0	5620	112.4	*
Chromium	50	48.5	97.0	50	44.8	89.6	45.5	91.0	*
Cobalt	50	48.7	97.4	50	48.6	97.2	50.3	100.6	
Copper	50	49.1	98.2	50	47.2	94.4	47.6	95.2	
Iron	5000	5430	108.6	5000	4950	99.0	4800	96.0	
Lead	50	50.9	101.8	50	49.9	99.8	49.3	98.6	
Magnesium	5000	5010	100.2	5000	5100	102.0	5800	116.0	*
Manganese	50	49.7	99.4	50	50.4	100.8	51.7	103.4	
Nickel	50	50.0	100.0	50	48.2	96.4	51.2	102.4	
Potassium	5000	5290	105.8	5000	5020	100.4	5440	108.8	
Selenium	50	50.9	101.8	50	49.4	98.8	48.8	97.6	
Silver	50	50.6	101.2	50	49.4	98.8	49.1	98.2	
Sodium	5000	4370	87.4	5000	4840	96.8	5530	110.6	*
Thallium	50	50.1	100.2	50	49.3	98.6	48.0	96.0	
Vanadium	50	51.2	102.4	50	50.8	101.6	56.4	112.8	*
Zinc	50	50.8	101.6	50	47.5	95.0	50.7	101.4	

(1) Control Limits: 90-110%

914

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 10:06 AM
CCV1 Time: 12:30 PM
CCV2 Time: 1:12 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
					CCV1		CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	58.6	117.2	50	55.3	110.6	62.3	124.6	*
Antimony	50	49.0	98.0	50	48.3	96.6	48.4	96.8	
Arsenic	50	49.9	99.8	50	47.9	95.8	48.4	96.8	
Barium	50	53.8	107.6	50	49.0	98.0	53.4	106.8	
Beryllium	50	56.1	112.2	50	54.7	109.4	59.2	118.4	*
Cadmium	50	50.1	100.2	50	50.1	100.2	49.5	99.0	
Calcium	5000	5460	109.2	5000	5060	101.2	5600	112.0	*
Chromium	50	48.5	97.0	50	45.4	90.8	51.3	102.6	
Cobalt	50	48.7	97.4	50	49.3	98.6	51.0	102.0	
Copper	50	49.1	98.2	50	50.0	100.0	50.0	100.0	
Iron	5000	5430	108.6	5000	4900	98.0	4760	95.2	
Lead	50	50.9	101.8	50	48.6	97.2	47.6	95.2	
Magnesium	5000	5010	100.2	5000	5920	118.4	6010	120.2	*
Manganese	50	49.7	99.4	50	52.3	104.6	54.7	109.4	
Nickel	50	50.0	100.0	50	51.4	102.8	52.0	104.0	
Potassium	5000	5290	105.8	5000	5210	104.2	6180	123.6	*
Selenium	50	50.9	101.8	50	48.0	96.0	49.1	98.2	
Silver	50	50.6	101.2	50	50.1	100.2	50.3	100.6	
Sodium	5000	4370	87.4	5000	5590	111.8	5830	116.6	*
Thallium	50	50.1	100.2	50	47.4	94.8	46.8	93.6	
Vanadium	50	51.2	102.4	50	57.6	115.2	57.9	115.8	*
Zinc	50	50.8	101.6	50	46.5	93.0	51.4	102.8	

(1) Control Limits: 90-110%

915

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Friday, May 25, 2001
UNITS:	ug/L
ICB Time:	10:12 AM
CCB1 Time:	10:32 AM
CCB2 Time:	11:34 AM
CCB3 Time:	12:35 PM

Analyte	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L) CCB1 1	CCB2 2	CCB3 3
Aluminum	0.121	0.0189	-0.106	0.316
Antimony	0.154	0.131	0.156	0.15
Arsenic	0.0215	0.0162	-0.0039	0.0065
Barium	0.0456	-0.0166	-0.0023	0.0007
Beryllium	0	0	0	0
Cadmium	-0.0001	-0.0001	0.0007	0.0001
Calcium	-18.4	2.10	-1.70	-18.4
Chromium	-5.88	-5.42	-7.69	-8.9
Cobalt	-0.0001	-0.0021	0.002	-0.0021
Copper	-0.0001	-0.0169	-0.0005	-0.0169
Iron	5.80	3.30	-1.90	15.5
Lead	0.002	0.0012	0.0005	0.001
Magnesium	-0.40	0.10	-0.40	0
Manganese	-0.0318	-0.0389	-0.0426	-0.0423
Nickel	-0.01	0	-0.01	0.0001
Potassium	5.20	1.40	4.60	9.1
Selenium	-0.0245	0.0225	-0.0312	-0.0152
Silver	-0.0026	-0.0001	-0.0026	-0.0026
Sodium	0.50	-0.10	1.00	-0.1
Thallium	0.0006	-0.0003	-0.0049	-0.0049
Vanadium	0.0296	-0.0225	0.193	0.188
Zinc	0	0	0	0

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICB Time: 10:12 AM
CCB1 Time: 1:17 PM
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	0.121		-0.0961					
Antimony	0.154		0.153					
Arsenic	0.0215		0.0156					
Barium	0.0456		-0.0166					
Beryllium	0		0					
Cadmium	-0.0001		0.0011					
Calcium	-18.4		-18.4					
Chromium	-5.88		-8.12					
Cobalt	-0.0001		0.0021					
Copper	-0.0001		-0.0084					
Iron	5.80		7.60					
Lead	0.002		0.0017					
Magnesium	-0.40		-0.20					
Manganese	-0.0318		-0.0487					
Nickel	-0.01		-0.0001					
Potassium	5.20		8.40					
Selenium	-0.0245		-0.011					
Silver	-0.0026		0.0027					
Sodium	0.50		1.30					
Thallium	0.0006		-0.0027					
Vanadium	0.0296		0.339					
Zinc	0		0					

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICSA Time: 10:17:14
ICSAB Time: 10:22:24

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	11800	12100.0	121.0	*
Antimony	0	0	0	0.1		
Arsenic	0	10	0	9.5	94.5	
Barium	0	0	0	0.1		
Beryllium	0	0	0	0.1		
Cadmium	0	10	0	9.8	98.4	
Calcium	30000	30000	32600	36200.0	120.7	*
Chromium	0	20	-1	19.9	99.5	
Cobalt	0	20	0	18.1	90.5	
Copper	0	20	0	19.3	96.5	
Iron	25000	25000	25700	26900.0	107.6	
Lead	0	0	0	0.1		
Magnesium	10000	10000	11600	11400.0	114.0	
Manganese	0	20	0	19.2	96.0	
Nickel	0	20	1	20.7	103.5	
Potassium	10000	10000	10600	11100.0	111.0	
Selenium	0	10	0	9.6	95.6	
Silver	0	5	0	4.5	90.2	
Sodium	25000	25000	25100	26500.0	106.0	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	20.2	101.0	
Zinc	0	10	2	9.9	99.3	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - ICP/MS
METHOD: 6020
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

Spiked Sample Time: 11:18 AM
Sample Time: 11:03 AM

Sample ID: 0550204 PS

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	1620		1476		125	115.2	
Antimony	75-125	127		0.4257	B	125	101.3	
Arsenic	75-125	120		1.773		125	94.6	
Barium	75-125	152		5.175		125	117.5	
Beryllium	75-125	122		0		125	97.6	
Cadmium	75-125	123		0.021	U	125	98.4	
Calcium	75-125							
Chromium	75-125	154		0.793	U	125	123.2	
Cobalt	75-125	144		0.3771	B	125	114.9	
Copper	75-125	131		0.963	B	125	104.0	
Iron	75-125							
Lead	75-125	137		0.7749	B	125	109.0	
Magnesium	75-125							
Manganese	75-125	159		6.102		125	122.3	
Nickel	75-125	149		2.61		125	117.1	
Potassium	75-125							
Selenium	75-125	104		0.6066	B	125	82.7	
Silver	75-125	117		0.6111	B	125	93.1	
Sodium	75-125							
Thallium	75-125	134		0.1	U	125	107.2	
Vanadium	75-125	205		35.82		125	135.3	N
Zinc	75-125	117		9.27		125	86.2	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 5/21/2001

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	1	0.500
Arsenic	75	1	0.500
Cadmium	114	0.5	0.021
Chromium	52	4	0.793
Cobalt	59	0.8	0.043
Copper	65	2	0.181
Lead	208	1	0.500
Manganese	55	2	0.487
Nickel	60	2	0.063
Selenium	82	1	0.500
Silver	107	2	0.036
Thallium	203	0.2	0.100
Vanadium	51	5	0.471

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forma by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	578	2064	0.693	
Li	7.016	7.029	1582	2060	0.670	
Co	58.933	58.979	14270	1950	0.705	
In	114.904	114.879	27919	1939	0.710	
Tl	204.975	204.976	49691	2242	0.690	

Relative Std. Dev.

Mass	Meas. Intens. RSD	
2.000	0.995	
3.000	0.391	
4.000	9.867	
5.000	28.582	
6.000	2.578	
7.000	2.596	✓
8.000	29.175	
9.000	59.284	
58.000	0.816	
59.000	1.150	✓
60.000	32.464	
114.000	2.182	
115.000	0.416	✓
116.000	21.492	
204.000	0.577	
205.000	0.603	✓
206.000	0.865	

Report Date/Time: Friday, May 25, 2001 09:07:32
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Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	580	2064	0.692	
Li	7.016	6.929	1562	2060	0.664	
Co	58.933	58.928	14268	1950	0.695	
In	114.904	114.929	27924	1939	0.715	
Tl	204.975	204.975	49691	2242	0.691	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.100
3.000	0.658
4.000	25.188
5.000	23.787
6.000	2.469
7.000	2.127
8.000	26.818
9.000	42.973
58.000	1.871
59.000	0.858
60.000	6.173
114.000	1.876
115.000	0.861
116.000	16.615
204.000	2.290
205.000	0.438
206.000	0.767

Report Date/Time: Friday, May 25, 2001 09:09:53
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	582	2064	0.706	
Li	7.016	7.079	1575	2060	0.679	
Co	58.933	58.928	14266	1950	0.700	
In	114.904	114.929	27930	1939	0.709	
Tl	204.975	204.976	49691	2242	0.689	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.733
3.000	0.784
4.000	24.765
5.000	43.257
6.000	1.286
7.000	1.180
8.000	43.189
9.000	48.287
58.000	1.756
59.000	0.897
60.000	9.443
114.000	1.609
115.000	0.982
116.000	12.252
204.000	3.047
205.000	0.848
206.000	0.498

Report Date/Time: Friday, May 25, 2001 09:12:00
Page 1

Instrument Tuning Report

File Name: 010201.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.028	584	2064	0.689	
Li	7.016	7.029	1577	2060	0.672	
Co	58.933	58.929	14264	1950	0.705	
In	114.904	114.829	27911	1939	0.716	
Tl	204.975	204.975	49691	2242	0.689	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	2.007
3.000	1.151
4.000	15.641
5.000	24.335
6.000	2.258
7.000	1.396
8.000	14.172
9.000	14.876
58.000	3.221
59.000	0.331
60.000	18.133
114.000	1.203
115.000	0.815
116.000	13.394
204.000	3.433
205.000	0.802
206.000	0.800

Report Date/Time: Friday, May 25, 2001 09:14:22
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Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, May 25, 2001 09:16:55
Sample Description:
Method File: C:\elandata\Method\Service\6020 methods\6020 daily.mth
Dataset File: C:\elandata\Dataset\052401\Sample.114
Tuning File: C:\elandata\Tuning\010201.tun
Optimization File: c:\elandata\Optimize\6020.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 70
Current Dead Time (ns): 70

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	80411.7	80411.701	459.506	0.6
	Rh	102.9	347529.6	347529.580	2733.757	0.8
	Pb	208.0	283462.4	283462.429	3882.780	1.4
⌈>	Ba	137.9	362654.2	362654.193	1882.106	0.5
⌊	Ba++	69.0	9536.3	0.026	0.000	1.0
⌈>	Ce	139.9	435606.6	435606.621	2932.533	0.7
⌊	CeO	155.9	11480.8	0.026	0.001	2.2
	Bkgd	220.0	9.1	9.050	1.841	20.3

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
9.00	Lens Voltage
1450.00	ICP RF Power
-1850.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-6.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	53	6.3	16.0
Co	59	53	8.5	140737.9
Rh	103	53	9.5	290267.8
Pb	208	53	11.3	312869.4

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 25, 2001 09:44:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.689					ug/L
⌈	Be	9	0.000					ug/L
|	Al	27	3667.717					ug/L
|>	Sc-1	45	399957.220					ug/L
⌈	V	51	727.825					ug/L
|	Cr	52	11922.035					ug/L
|	Cr	53	12678.391					ug/L
|	Mn	55	1301.444					ug/L
|	Co	59	33.367					ug/L
|	Ni	60	33.367					ug/L
|	Cu	65	66.734					ug/L
|	Zn	66	0.000					ug/L
|>	Ge	72	1027879.878					ug/L
|	As	75	85.393					ug/L
|	Se	77	424.013					ug/L
⌊	Se	82	115.524					ug/L
	Y	89	860629.064					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	33.367					ug/L
|	Cd	114	15.202					ug/L
|>	In	115	939271.459					ug/L
⌊	Sb	123	13.638					ug/L
⌈	Ba	135	33.367					ug/L
|	Ce	140	0.000					ug/L
|>	Tb	159	747511.083					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	98.002					ug/L
|	Tl	205	235.340					ug/L
|	Pb	206	60.006					ug/L
|	Pb	207	23.336					ug/L
|	Pb	208	191.344					ug/L
|>	Bi	209	782895.914					ug/L
⌈	Na	23	7337.910					mg/L
|	Mg	24	1333.567					mg/L
|	K	39	659441.332					mg/L
|	Ca	43	333.357					mg/L
|	Fe	54	31738.289					mg/L
|	Fe	57	6669.842					mg/L

L> Sc	45	399957.220		mg/L
Cl	35	439579.888		mg/L
Kr	83	166.004		mg/L
U	238	0.000		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, May 25, 2001 09:45:30

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 25, 2001 09:47:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11343.002	-4675.69				ug/L
⌈	Be	9	2903.506	0.01	10.0000	2.042	20.415	ug/L
|	Al	27	60280.432	0.16	10.0000	4.868	48.680	ug/L
|>	Sc-1	45	360919.609	360919.61				ug/L
⌈	V	51	134420.466	0.13	10.0000	0.387	3.870	ug/L
|	Cr	52	128778.647	0.11	10.0000	0.635	6.349	ug/L
|	Cr	53	31068.309	0.02	10.0000	2.620	26.196	ug/L
|	Mn	55	190190.269	0.18	10.0000	0.446	4.459	ug/L
|	Co	59	154849.867	0.15	10.0000	0.574	5.742	ug/L
|	Ni	60	34920.097	0.03	10.0000	0.649	6.490	ug/L
|	Cu	65	39682.835	0.04	10.0000	0.280	2.803	ug/L
|	Zn	66	29730.297	0.03	10.0000	2.478	24.783	ug/L
|>	Ge	72	1025924.847	1025924.85				ug/L
|	As	75	28299.323	0.03	10.0000	0.339	3.388	ug/L
|	Se	77	2688.506	0.00	10.0000	0.033	0.333	ug/L
⌊	Se	82	3113.297	0.00	10.0000	0.256	2.557	ug/L
	Y	89	851215.890	-9413.17				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	127423.102	0.13	10.0000	0.655	6.555	ug/L
|	Cd	114	75128.638	0.08	10.0000	0.143	1.427	ug/L
|>	In	115	944171.229	944171.23				ug/L
⌊	Sb	123	71820.376	0.08	10.0000	0.030	0.304	ug/L
⌈	Ba	135	23763.301	0.03	10.0000	0.532	5.323	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	784959.309	784959.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	110060.272	109962.27	10.0000	0.111	1.109	ug/L
|	Tl	205	272514.306	272278.97	10.0000	0.118	1.185	ug/L
|	Pb	206	96193.103	96133.10	10.0000	0.196	1.960	ug/L
|	Pb	207	82313.108	82289.77	10.0000	0.093	0.926	ug/L
|	Pb	208	378287.287	378095.94	10.0000	0.091	0.907	ug/L
|>	Bi	209	782169.555	782169.56				ug/L
⌈	Na	23	4323054.677	12.03	1.0000	0.125	12.540	mg/L
|	Mg	24	3230673.755	9.02	1.0000	0.191	19.148	mg/L
|	K	39	11495713.602	30.28	1.0000	0.067	6.716	mg/L
|	Ca	43	18693.823	0.05	1.0000	0.359	35.931	mg/L
|	Fe	54	1018395.083	2.75	1.0000	0.064	6.421	mg/L
|	Fe	57	397085.983	1.09	1.0000	0.045	4.513	mg/L

L> Sc	45	360919.609	360919.61		mg/L
Cl	35	310987.657	-128592.23		mg/L
Kr	83	177.671	11.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72					
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115					
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, May 25, 2001 09:48:17

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 25, 2001 09:50:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.573	-668.12				ug/L
⌈	Be	9	4773.062	0.01	19.4291	3.059	15.745	ug/L
|	Al	27	113230.930	0.33	20.0349	2.511	12.533	ug/L
|>	Sc-1	45	339220.256	339220.26				ug/L
⌈	V	51	274563.837	0.27	20.1217	0.219	1.088	ug/L
|	Cr	52	256961.734	0.24	20.2143	0.895	4.430	ug/L
|	Cr	53	38442.130	0.03	18.4634	7.792	42.201	ug/L
|	Mn	55	384459.603	0.38	20.0875	0.952	4.740	ug/L
|	Co	59	304453.293	0.30	19.9627	0.843	4.225	ug/L
|	Ni	60	66508.119	0.07	19.8341	1.279	6.450	ug/L
|	Cu	65	80870.017	0.08	20.1104	1.612	8.014	ug/L
|	Zn	66	51856.297	0.05	19.4447	2.636	13.557	ug/L
|>	Ge	72	1018074.195	1018074.19				ug/L
|	As	75	56294.939	0.06	20.0141	0.601	3.002	ug/L
|	Se	77	4866.324	0.00	19.9577	0.821	4.115	ug/L
⌊	Se	82	6152.754	0.01	20.0574	0.246	1.225	ug/L
	Y	89	899510.369	38881.31				ug/L
⌈	Rh	103	333.676	0.00				ug/L
|	Ag	107	256031.405	0.27	20.0538	1.226	6.114	ug/L
|	Cd	114	150987.493	0.16	20.0520	0.498	2.483	ug/L
|>	In	115	936813.969	936813.97				ug/L
⌊	Sb	123	145283.750	0.16	20.0772	0.188	0.938	ug/L
⌈	Ba	135	44348.223	0.06	19.8655	2.914	14.670	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	766357.044	766357.04				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	218615.662	218517.66	19.9743	0.139	0.697	ug/L
|	Tl	205	545909.286	545673.95	20.0082	0.181	0.904	ug/L
|	Pb	206	189383.395	189323.39	19.9380	0.254	1.272	ug/L
|	Pb	207	161409.430	161386.09	19.9212	0.213	1.069	ug/L
|	Pb	208	749070.642	748879.30	19.9610	0.119	0.596	ug/L
|>	Bi	209	789119.753	789119.75				ug/L
⌈	Na	23	8804827.603	25.92	2.0293	0.095	4.686	mg/L
|	Mg	24	7027726.809	20.73	2.0531	0.092	4.478	mg/L
|	K	39	20643228.410	59.33	1.9917	0.124	6.212	mg/L
|	Ca	43	43131.280	0.13	2.0834	0.183	8.804	mg/L
|	Fe	54	1969624.214	5.74	2.0174	0.135	6.680	mg/L
|	Fe	57	822140.185	2.42	2.0418	0.231	11.329	mg/L

└> Sc	45	339220.256	339220.26		mg/L
Cl	35	254455.731	-185124.16		mg/L
Kr	83	172.004	6.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
┌ Be	9					
│ Al	27					
└> Sc-1	45					
┌ V	51					
│ Cr	52					
│ Cr	53					
│ Mn	55					
│ Co	59					
│ Ni	60					
│ Cu	65					
│ Zn	66					
│> Ge	72					
│ As	75					
│ Se	77					
└ Se	82					
Y	89					
┌ Rh	103					
│ Ag	107					
│ Cd	114					
│> In	115					
└ Sb	123					
┌ Ba	135					
│ Ce	140					
└> Tb	159					
┌ Ho	165					
│ Tl	203					
│ Tl	205					
│ Pb	206					
│ Pb	207					
│ Pb	208					
└> Bi	209					
┌ Na	23					
│ Mg	24					
│ K	39					
│ Ca	43					
│ Fe	54					
│ Fe	57					
└> Sc	45					
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Friday, May 25, 2001 09:51:05

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 25, 2001 09:53:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15017.031	-1001.66				ug/L
⌈	Be	9	26643.374	0.07	99.8199	11.091	11.111	ug/L
|	Al	27	469693.087	1.23	98.4720	11.474	11.652	ug/L
⌊>	Sc-1	45	381247.269	381247.27				ug/L
⌈	V	51	1286244.512	1.27	99.7435	4.587	4.599	ug/L
|	Cr	52	1156889.829	1.13	99.7388	2.074	2.080	ug/L
|	Cr	53	141728.883	0.13	99.6193	6.243	6.267	ug/L
|	Mn	55	1892730.746	1.87	99.9785	3.373	3.373	ug/L
|	Co	59	1575061.977	1.55	100.1688	3.661	3.655	ug/L
|	Ni	60	329628.279	0.33	99.9361	3.026	3.027	ug/L
|	Cu	65	388610.811	0.38	99.8536	3.405	3.410	ug/L
|	Zn	66	272439.849	0.27	100.1181	5.275	5.269	ug/L
|>	Ge	72	1013677.236	1013677.24				ug/L
|	As	75	272801.564	0.27	99.8772	0.754	0.755	ug/L
|	Se	77	22553.551	0.02	99.9874	0.841	0.841	ug/L
⌊	Se	82	29362.362	0.03	99.8808	2.350	2.353	ug/L
	Y	89	814643.417	-45985.65				ug/L
⌈	Rh	103	1234.690	0.00				ug/L
|	Ag	107	1263388.184	1.36	99.9718	3.339	3.340	ug/L
|	Cd	114	736014.496	0.79	99.9139	0.930	0.931	ug/L
|>	In	115	932044.235	932044.24				ug/L
⌊	Sb	123	726275.722	0.78	100.0412	0.276	0.276	ug/L
⌈	Ba	135	229935.252	0.27	99.5104	7.827	7.866	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	864906.750	864906.75				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	1092392.330	1092294.33	99.9926	0.577	0.577	ug/L
|	Tl	205	2540732.661	2540497.32	99.6512	0.825	0.827	ug/L
|	Pb	206	934169.812	934109.81	99.9213	0.568	0.569	ug/L
|	Pb	207	799285.942	799262.61	99.9353	3.957	3.960	ug/L
|	Pb	208	3710912.877	3710721.53	99.9474	1.197	1.197	ug/L
⌊>	Bi	209	770479.830	770479.83				ug/L
⌈	Na	23	42353561.192	111.09	9.9291	1.058	10.656	mg/L
|	Mg	24	30515129.565	80.04	9.8770	0.576	5.831	mg/L
|	K	39	104114301.036	271.52	9.9540	0.178	1.787	mg/L
|	Ca	43	170729.982	0.45	9.8326	1.641	16.693	mg/L
|	Fe	54	9085536.365	23.77	9.9069	0.839	8.466	mg/L
⌊	Fe	57	3622871.623	9.50	9.8837	0.624	6.315	mg/L

L> Sc	45	381247.269	381247.27		mg/L
Cl	35	213141.590	-226438.30		mg/L
Kr	83	158.337	-7.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Friday, May 25, 2001 09:53:53

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 09:58:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Wrong CCV Solution
Rerun JYH 9.58
5/25/01

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.880	2005.19				ug/L
⌈	Be	9	23863.649	0.07	94.7515	3.615	3.815	ug/L
|	Al	27	467029.317	1.28	103.0537	11.609	11.265	ug/L
|>	Sc-1	45	360564.205	360564.21				ug/L
⌈	V	51	1321862.437	1.32	103.9363	5.516	5.307	ug/L
|	Cr	52	1148384.409	1.14	100.4375	0.382	0.380	ug/L
|	Cr	53	132574.189	0.12	94.0433	17.021	18.099	ug/L
|	Mn	55	1870560.195	1.87	100.2011	3.657	3.649	ug/L
|	Co	59	1457496.805	1.46	94.0426	1.257	1.336	ug/L
|	Ni	60	320621.284	0.32	98.6438	3.829	3.882	ug/L
|	Cu	65	373198.631	0.37	97.2831	0.994	1.022	ug/L
|	Zn	66	255491.942	0.26	95.2453	3.289	3.453	ug/L
|>	Ge	72	999266.153	999266.15				ug/L
|	As	75	270501.933	0.27	100.4658	0.262	0.261	ug/L
|	Se	77	21994.481	0.02	98.9134	2.441	2.468	ug/L
⌊	Se	82	28791.916	0.03	99.3662	1.341	1.350	ug/L
	Y	89	852372.154	-8256.91				ug/L
⌈	Rh	103	1201.305	0.00				ug/L
|	Ag	107	1259437.556	1.34	99.1656	3.228	3.255	ug/L
|	Cd	114	731450.477	0.78	98.7938	1.832	1.855	ug/L
|>	In	115	937001.330	937001.33				ug/L
⌊	Sb	123	725983.312	0.78	99.5167	2.672	2.685	ug/L
⌈	Ba	135	223117.863	0.28	104.7329	8.006	7.644	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	797325.776	797325.78				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	1089497.882	1089399.88	99.7276	0.847	0.850	ug/L
|	Tl	205	2546889.829	2546654.49	99.8927	0.681	0.682	ug/L
|	Pb	206	940460.302	940400.30	100.5942	2.450	2.436	ug/L
|	Pb	207	796300.952	796277.62	99.5621	2.490	2.501	ug/L
|	Pb	208	3724963.855	3724772.51	100.3259	1.311	1.307	ug/L
|>	Bi	209	785555.674	785555.67				ug/L
⌈	Na	23	38221506.441	105.96	9.4705	0.871	9.196	mg/L
|	Mg	24	29405488.490	81.57	10.0653	0.319	3.169	mg/L
|	K	39	93725956.143	259.26	9.5046	0.996	10.484	mg/L
|	Ca	43	175818.108	0.49	10.7214	0.420	3.913	mg/L
|	Fe	54	8842953.143	24.47	10.1985	0.292	2.859	mg/L
|	Fe	57	3464070.930	9.62	10.0086	0.664	6.632	mg/L

L> Sc	45	360564.205	360564.21		mg/L
Cl	35	161816.353	-277763.54		mg/L
Kr	83	165.670	-0.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	189.503				
|	Al	27	206.107				
L>	Sc-1	45		90.151			
⌈	V	51	207.873				
|	Cr	52	200.875				
|	Cr	53	188.087				
|	Mn	55	200.402				
|	Co	59	188.085				
|	Ni	60	197.288				
|	Cu	65	194.566				
|	Zn	66	190.491				
\>	Ge	72		97.216			
|	As	75	200.932				
|	Se	77	197.827				
L	Se	82	198.732				
	Y	89					
⌈	Rh	103					
|	Ag	107	198.331				
|	Cd	114	197.588				
\>	In	115		99.758			
L	Sb	123	199.033				
⌈	Ba	135	209.466				
|	Ce	140					
L>	Tb	159		106.664			
⌈	Ho	165					
|	Tl	203	199.455				
|	Tl	205	199.785				
|	Pb	206	201.188				
|	Pb	207	199.124				
|	Pb	208	200.652				
L>	Bi	209		100.340			
⌈	Na	23	189.410				
|	Mg	24	201.307				
|	K	39	190.092				
|	Ca	43	214.427				
|	Fe	54	203.971				
|	Fe	57	200.172				
L>	Sc	45		90.151			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 09:59:02

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	V	51	ICV is out of limits (+/-10%)
QC Std 1	Cr	52	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Mn	55	ICV is out of limits (+/-10%)
QC Std 1	Co	59	ICV is out of limits (+/-10%)
QC Std 1	Ni	60	ICV is out of limits (+/-10%)
QC Std 1	Cu	65	ICV is out of limits (+/-10%)
QC Std 1	Zn	66	ICV is out of limits (+/-10%)
QC Std 1	As	75	ICV is out of limits (+/-10%)
QC Std 1	Se	77	ICV is out of limits (+/-10%)
QC Std 1	Se	82	ICV is out of limits (+/-10%)
QC Std 1	Ag	107	ICV is out of limits (+/-10%)
QC Std 1	Cd	114	ICV is out of limits (+/-10%)
QC Std 1	Sb	123	ICV is out of limits (+/-10%)
QC Std 1	Ba	135	ICV is out of limits (+/-10%)
QC Std 1	Tl	203	ICV is out of limits (+/-10%)
QC Std 1	Tl	205	ICV is out of limits (+/-10%)
QC Std 1	Pb	206	ICV is out of limits (+/-10%)
QC Std 1	Pb	207	ICV is out of limits (+/-10%)
QC Std 1	Pb	208	ICV is out of limits (+/-10%)
QC Std 1	Na	23	ICV is out of limits (+/-10%)
QC Std 1	Mg	24	ICV is out of limits (+/-10%)
QC Std 1	K	39	ICV is out of limits (+/-10%)
QC Std 1	Ca	43	ICV is out of limits (+/-10%)
QC Std 1	Fe	54	ICV is out of limits (+/-10%)
QC Std 1	Fe	57	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 10:06:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14348.494	-1670.20				ug/L
⌈	Be	9	14495.928	0.04	56.1168	3.443	6.135	ug/L
|	Al	27	270728.172	0.73	58.6361	9.620	16.407	ug/L
|>	Sc-1	45	370822.995	370822.99				ug/L
⌈	V	51	665617.327	0.65	51.1610	3.151	6.159	ug/L
|	Cr	52	601011.578	0.58	50.8864	4.235	8.323	ug/L
|	Cr	53	76071.684	0.06	48.5224	5.027	10.361	ug/L
|	Mn	55	948180.452	0.93	49.6520	2.174	4.379	ug/L
|	Co	59	772255.370	0.76	48.7159	1.458	2.994	ug/L
|	Ni	60	166381.330	0.16	50.0397	2.132	4.260	ug/L
|	Cu	65	192620.494	0.19	49.0740	0.840	1.711	ug/L
|	Zn	66	139347.957	0.14	50.7752	2.018	3.975	ug/L
|>	Ge	72	1022076.608	1022076.61				ug/L
|	As	75	137454.580	0.13	49.8963	0.750	1.503	ug/L
|	Se	77	11772.360	0.01	50.8527	0.539	1.059	ug/L
⌊	Se	82	15150.395	0.01	50.9314	0.994	1.951	ug/L
	Y	89	854049.359	-6579.70				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	647071.401	0.69	50.6050	1.555	3.073	ug/L
|	Cd	114	373519.893	0.40	50.1167	0.217	0.433	ug/L
|>	In	115	942942.374	942942.37				ug/L
⌊	Sb	123	359753.066	0.38	48.9814	0.186	0.379	ug/L
⌈	Ba	135	109508.986	0.14	53.8048	7.442	13.832	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	765504.688	765504.69				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	547764.609	547666.61	50.1354	0.377	0.752	ug/L
|	Tl	205	1353512.745	1353277.41	53.0824	0.803	1.514	ug/L
|	Pb	206	504970.530	504910.52	54.0100	0.639	1.182	ug/L
|	Pb	207	390591.943	390568.61	48.8345	0.880	1.801	ug/L
|	Pb	208	1891464.991	1891273.65	50.9410	0.313	0.615	ug/L
|>	Bi	209	797444.990	797444.99				ug/L
⌈	Na	23	18147683.168	48.93	4.3732	0.264	6.033	mg/L
|	Mg	24	14824111.238	40.57	5.0059	0.824	16.455	mg/L
|	K	39	53788541.333	144.19	5.2859	0.518	9.808	mg/L
|	Ca	43	90927.267	0.25	5.4579	1.506	27.600	mg/L
|	Fe	54	4385527.786	11.86	4.9433	0.611	12.352	mg/L
|	Fe	57	1920714.413	5.22	5.4311	0.645	11.868	mg/L

\> Sc	45	370822.995	370822.99		mg/L
Cl	35	141728.354	-297851.53		mg/L
Kr	83	166.337	0.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	112.234				
|	Al	27	117.272				
|>	Sc-1	45		92.716			
⌈	V	51	102.322				
|	Cr	52	101.773				
|	Cr	53	97.045				
|	Mn	55	99.304				
|	Co	59	97.432				
|	Ni	60	100.079				
|	Cu	65	98.148				
|	Zn	66	101.550				
|>	Ge	72		99.435			
|	As	75	99.793				
|	Se	77	101.705				
⌊	Se	82	101.863				
	Y	89					
⌈	Rh	103					
|	Ag	107	101.210				
|	Cd	114	100.233				
|>	In	115		100.391			
⌊	Sb	123	97.963				
⌈	Ba	135	107.610				
|	Ce	140					
|>	Tb	159		102.407			
⌈	Ho	165					
|	Tl	203	100.271				
|	Tl	205	106.165				
|	Pb	206	108.020				
|	Pb	207	97.669				
|	Pb	208	101.882				
|>	Bi	209		101.858			
⌈	Na	23	87.465				
|	Mg	24	100.117				
|	K	39	105.717				
|	Ca	43	109.157				
|	Fe	54	98.865				
|	Fe	57	108.623				
|>	Sc	45		92.716			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 10:07:47

QC Std 1	Be	9	ICV is out of limits (+/-10%)
QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Ca	43	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 25, 2001 10:12:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15683.929	-334.76				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	4335.131	0.00	0.1211	0.481	396.888	ug/L
|>	Sc-1	45	379727.192	379727.19				ug/L
⌈	V	51	1086.572	0.00	0.0296	0.459	1549.035	ug/L
|	Cr	52	11487.481	-0.00	-0.0516	0.119	230.700	ug/L
|	Cr	53	5001.797	-0.01	-5.8842	0.783	13.311	ug/L
|	Mn	55	700.736	-0.00	-0.0318	0.009	28.747	ug/L
|	Co	59	33.367	-0.00	-0.0001	0.004	6449.556	ug/L
|	Ni	60	0.000	-0.00	-0.0100	0.000	0.000	ug/L
|	Cu	65	66.734	-0.00	-0.0001	0.029	22321.413	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1042232.887	1042232.89				ug/L
|	As	75	147.307	0.00	0.0215	0.014	65.403	ug/L
|	Se	77	240.004	-0.00	-0.8349	0.064	7.676	ug/L
L	Se	82	109.741	-0.00	-0.0245	0.008	31.196	ug/L
	Y	89	791944.353	-68684.71				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
|	Cd	114	15.204	-0.00	-0.0001	0.000	406.450	ug/L
|>	In	115	975342.210	975342.21				ug/L
L	Sb	123	1184.505	0.00	0.1542	0.012	8.045	ug/L
⌈	Ba	135	133.469	0.00	0.0456	0.073	160.663	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	830346.087	830346.09				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	104.335	6.33	0.0006	0.001	199.931	ug/L
|	Tl	205	247.340	12.00	0.0005	0.001	176.842	ug/L
|	Pb	206	70.007	10.00	0.0011	0.002	200.000	ug/L
|	Pb	207	73.341	50.01	0.0063	0.003	41.633	ug/L
|	Pb	208	266.017	74.67	0.0020	0.001	64.341	ug/L
|>	Bi	209	827012.550	827012.55				ug/L
⌈	Na	23	8671.943	0.01	0.0005	0.001	109.054	mg/L
|	Mg	24	0.000	-0.00	-0.0004	0.000	0.000	mg/L
|	K	39	664908.173	0.14	0.0052	0.012	223.710	mg/L
|	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
|	Fe	54	39453.449	0.03	0.0115	0.011	96.179	mg/L
|	Fe	57	8004.810	0.01	0.0058	0.010	175.922	mg/L

L>	Sc	45	379727.192	379727.19		mg/L
	Cl	35	96662.683	-342917.20		mg/L
	Kr	83	170.004	4.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		94.942			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		101.396			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		103.840			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		111.081			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		105.635			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		94.942			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, May 25, 2001 10:12:54

QC Std 2	Se	77	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 10:17:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	11677.340	-4341.35				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	49199045.045	146.49	11773.9449	1344.134	11.416	ug/L
|>	Sc-1	45	337119.254	337119.25				ug/L
⌈	V	51	480.477	-0.00	-0.0193	0.197	1019.767	ug/L
|	Cr	52	15331.870	0.00	0.3443	0.133	38.520	ug/L
|	Cr	53	10674.933	-0.00	-1.1888	2.088	175.632	ug/L
|	Mn	55	6509.494	0.01	0.2851	0.041	14.271	ug/L
|	Co	59	1201.310	0.00	0.0760	0.025	33.367	ug/L
|	Ni	60	2603.086	0.00	0.7979	0.125	15.724	ug/L
|	Cu	65	1368.169	0.00	0.3435	0.066	19.162	ug/L
|	Zn	66	4001.167	0.00	1.5044	0.362	24.067	ug/L
|>	Ge	72	988921.377	988921.38				ug/L
|	As	75	142.857	0.00	0.0225	0.033	145.226	ug/L
|	Se	77	488.683	0.00	0.3745	0.206	55.040	ug/L
⌊	Se	82	119.546	0.00	0.0292	0.029	98.429	ug/L
	Y	89	781593.596	-79035.47				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	200.203	0.00	0.0138	0.000	2.105	ug/L
|	Cd	114	2545.346	0.00	0.3559	0.015	4.099	ug/L
|>	In	115	900116.248	900116.25				ug/L
⌊	Sb	123	1261.926	0.00	0.1780	0.008	4.580	ug/L
⌈	Ba	135	400.413	0.00	0.1736	0.099	56.844	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	790083.989	790083.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	106.669	8.67	0.0008	0.001	69.551	ug/L
|	Tl	205	234.340	-1.00	-0.0000	0.001	3002.301	ug/L
|	Pb	206	1627.015	1567.01	0.1676	0.010	5.792	ug/L
|	Pb	207	1273.574	1250.24	0.1563	0.007	4.688	ug/L
|	Pb	208	6157.698	5966.35	0.1607	0.002	1.503	ug/L
|>	Bi	209	751318.844	751318.84				ug/L
⌈	Na	23	94176414.519	281.00	25.1144	4.564	18.172	mg/L
|	Mg	24	31624770.641	94.04	11.6043	0.814	7.017	mg/L
|	K	39	97881294.100	289.85	10.6259	1.216	11.446	mg/L
|	Ca	43	498177.766	1.48	32.6491	3.171	9.711	mg/L
|	Fe	54	19464141.913	57.79	24.0810	1.582	6.571	mg/L
|	Fe	57	8305645.545	24.67	25.6790	1.513	5.894	mg/L

> Sc	45	337119.254	337119.25			mg/L
Cl	35	5050046.129	4610466.24			mg/L
Kr	83	186.338	20.33			mg/L
U	238	0.000	0.00			mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27	117.739				
>	Sc-1	45		84.289			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		96.210			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		95.831			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		105.695			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		95.967			
	Na	23	100.458				
	Mg	24	116.043				
	K	39	106.259				
	Ca	43	108.830				
	Fe	54	96.324				
	Fe	57	102.716				
>	Sc	45		84.289			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 10:18:04

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 10:22:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18025.661	2006.97				ug/L
⌈	Be	9	33.367	0.00	0.1284	0.222	173.205	ug/L
|	Al	27	50767142.098	150.36	12085.1912	1547.002	12.801	ug/L
|>	Sc-1	45	339933.098	339933.10				ug/L
⌈	V	51	258176.788	0.26	20.2475	0.630	3.113	ug/L
|	Cr	52	235623.691	0.22	19.7827	0.898	4.540	ug/L
|	Cr	53	37770.303	0.03	19.9427	7.636	38.288	ug/L
|	Mn	55	359370.953	0.36	19.1896	0.652	3.397	ug/L
|	Co	59	281134.983	0.28	18.1233	0.405	2.234	ug/L
|	Ni	60	67451.071	0.07	20.7217	0.866	4.178	ug/L
|	Cu	65	74190.873	0.07	19.3133	0.985	5.102	ug/L
|	Zn	66	26717.539	0.03	9.9343	1.570	15.807	ug/L
|>	Ge	72	1000246.789	1000246.79				ug/L
|	As	75	25529.943	0.03	9.4462	0.334	3.537	ug/L
|	Se	77	2538.451	0.00	9.7340	0.275	2.829	ug/L
⌊	Se	82	2873.875	0.00	9.5587	0.372	3.893	ug/L
	Y	89	781556.136	-79072.93				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	56344.586	0.06	4.5070	0.168	3.720	ug/L
|	Cd	114	71577.550	0.08	9.8362	0.364	3.696	ug/L
|>	In	115	921032.344	921032.34				ug/L
⌊	Sb	123	1060.928	0.00	0.1462	0.011	7.320	ug/L
⌈	Ba	135	333.675	0.00	0.1427	0.020	14.216	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	778323.449	778323.45				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	93.668	-4.33	-0.0004	0.001	292.207	ug/L
|	Tl	205	198.338	-37.00	-0.0015	0.001	36.893	ug/L
|	Pb	206	1356.931	1296.93	0.1387	0.008	5.472	ug/L
|	Pb	207	1060.185	1036.85	0.1296	0.014	11.125	ug/L
|	Pb	208	5254.375	5063.03	0.1364	0.005	3.425	ug/L
|>	Bi	209	775284.336	775284.34				ug/L
⌈	Na	23	100374496.645	296.63	26.5119	2.424	9.145	mg/L
|	Mg	24	31254890.282	92.49	11.4131	1.303	11.416	mg/L
|	K	39	103190892.601	303.16	11.1140	0.888	7.991	mg/L
|	Ca	43	556291.950	1.64	36.1900	3.947	10.907	mg/L
|	Fe	54	20056184.251	59.14	24.6446	1.751	7.103	mg/L
|	Fe	57	8763582.427	25.89	26.9485	2.636	9.782	mg/L

L>	Sc	45	339933.098	339933.10	mg/L
	Cl	35	5332685.258	4893105.37	mg/L
	Kr	83	181.004	15.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	120.852				
L>	Sc-1	45		84.992			
⌈	V	51	101.237				
|	Cr	52	98.913				
|	Cr	53	99.714				
|	Mn	55	95.948				
|	Co	59	90.616				
|	Ni	60	103.608				
|	Cu	65	96.567				
|	Zn	66	99.343				
\>	Ge	72		97.312			
|	As	75	94.462				
|	Se	77	97.340				
L	Se	82	95.587				
	Y	89					
⌈	Rh	103					
|	Ag	107	90.139				
|	Cd	114	98.362				
\>	In	115		98.058			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		104.122			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		99.028			
⌈	Na	23	106.048				
|	Mg	24	114.131				
|	K	39	111.140				
|	Ca	43	120.633				
|	Fe	54	98.578				
|	Fe	57	107.794				
L>	Sc	45		84.992			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 10:23:15

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 10:27:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.268	-0.42				ug/L
⌈	Be	9	12523.500	0.03	44.5512	7.669	17.214	ug/L
|	Al	27	266939.861	0.65	52.1460	6.495	12.456	ug/L
⌊>	Sc-1	45	409246.897	409246.90				ug/L
⌈	V	51	671394.844	0.65	50.8452	2.573	5.061	ug/L
|	Cr	52	601123.504	0.57	50.1280	1.627	3.245	ug/L
|	Cr	53	72372.107	0.06	44.8347	9.216	20.556	ug/L
|	Mn	55	978177.489	0.94	50.4469	1.375	2.725	ug/L
|	Co	59	782796.735	0.75	48.6237	0.927	1.907	ug/L
|	Ni	60	162831.235	0.16	48.2112	1.463	3.034	ug/L
|	Cu	65	187894.725	0.18	47.1556	2.273	4.820	ug/L
|	Zn	66	132213.731	0.13	47.4505	1.698	3.578	ug/L
|>	Ge	72	1037754.615	1037754.61				ug/L
|	As	75	135291.727	0.13	48.3687	0.092	0.190	ug/L
|	Se	77	11230.822	0.01	47.6691	0.696	1.460	ug/L
⌊	Se	82	14928.964	0.01	49.4103	0.715	1.447	ug/L
	Y	89	884241.765	23612.70				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	635820.133	0.67	49.4473	3.725	7.534	ug/L
|	Cd	114	367804.599	0.39	49.0382	0.933	1.902	ug/L
|>	In	115	949140.634	949140.63				ug/L
⌊	Sb	123	350689.761	0.37	47.4418	0.640	1.349	ug/L
⌈	Ba	135	109984.896	0.14	52.7025	5.727	10.867	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	782566.543	782566.54				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	538402.126	538304.12	49.2783	0.197	0.401	ug/L
|	Tl	205	1344485.184	1344249.84	52.7283	0.702	1.331	ug/L
|	Pb	206	503050.537	502990.53	53.8047	0.293	0.544	ug/L
|	Pb	207	380172.600	380149.26	47.5317	0.483	1.017	ug/L
|	Pb	208	1851657.610	1851466.27	49.8688	0.162	0.325	ug/L
⌊>	Bi	209	788815.226	788815.23				ug/L
⌈	Na	23	22048385.895	54.10	4.8350	0.589	12.191	mg/L
|	Mg	24	16768872.809	41.29	5.0957	0.378	7.422	mg/L
|	K	39	55866210.312	137.00	5.0223	0.824	16.414	mg/L
|	Ca	43	112209.016	0.28	6.1025	0.683	11.187	mg/L
|	Fe	54	4378486.270	10.74	4.4774	0.582	12.989	mg/L
|	Fe	57	1905606.458	4.76	4.9538	1.186	23.944	mg/L

L>	Sc	45	409246.897	409246.90		mg/L
	Cl	35	123730.061	-315849.83		mg/L
	Kr	83	145.670	-20.33		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	89.102				
|	Al	27	104.292				
L>	Sc-1	45		102.323			
⌈	V	51	101.690				
|	Cr	52	100.256				
|	Cr	53	89.669				
|	Mn	55	100.894				
|	Co	59	97.247				
|	Ni	60	96.422				
|	Cu	65	94.311				
|	Zn	66	94.901				
\>	Ge	72		100.961			
|	As	75	96.737				
|	Se	77	95.338				
L	Se	82	98.821				
	Y	89					
⌈	Rh	103					
|	Ag	107	98.895				
|	Cd	114	98.076				
\>	In	115		101.051			
L	Sb	123	94.884				
⌈	Ba	135	105.405				
|	Ce	140					
L>	Tb	159		104.690			
⌈	Ho	165					
|	Tl	203	98.557				
|	Tl	205	105.457				
|	Pb	206	107.609				
|	Pb	207	95.063				
|	Pb	208	99.738				
L>	Bi	209		100.756			
⌈	Na	23	96.700				
|	Mg	24	101.914				
|	K	39	100.447				
|	Ca	43	122.050				
|	Fe	54	89.548				
|	Fe	57	99.076				
L>	Sc	45		102.323			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 10:28:24

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Ca	43	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 10:32:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12011.398	-4007.29				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3667.624	0.00	0.0189	0.098	516.257	ug/L
|>	Sc-1	45	390116.153	390116.15				ug/L
⌈	V	51	503.953	-0.00	-0.0225	0.338	1502.659	ug/L
|	Cr	52	12891.263	0.00	0.0598	0.139	232.757	ug/L
|	Cr	53	5669.024	-0.01	-5.4173	1.192	22.005	ug/L
|	Mn	55	567.258	-0.00	-0.0389	0.008	19.773	ug/L
|	Co	59	0.000	-0.00	-0.0021	0.000	0.000	ug/L
|	Ni	60	33.367	-0.00	-0.0000	0.017	761235.679	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1051671.171	1051671.17				ug/L
|	As	75	132.936	0.00	0.0162	0.012	71.455	ug/L
|	Se	77	206.003	-0.00	-0.9918	0.010	1.007	ug/L
⌊	Se	82	124.829	0.00	0.0225	0.047	210.539	ug/L
	Y	89	841128.267	-19500.80				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0001	0.004	5401.462	ug/L
|	Cd	114	14.638	-0.00	-0.0001	0.000	315.250	ug/L
|>	In	115	965334.638	965334.64				ug/L
⌊	Sb	123	999.342	0.00	0.1312	0.012	9.101	ug/L
⌈	Ba	135	0.000	-0.00	-0.0166	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	780975.514	780975.51				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	95.002	-3.00	-0.0003	0.001	523.876	ug/L
|	Tl	205	232.006	-3.33	-0.0001	0.000	167.032	ug/L
|	Pb	206	60.006	0.00	0.0000	0.005	44638205.358	ug/L
|	Pb	207	63.340	40.00	0.0050	0.003	62.915	ug/L
|	Pb	208	235.348	44.00	0.0012	0.002	180.741	ug/L
|>	Bi	209	819717.302	819717.30				ug/L
⌈	Na	23	6670.169	-0.00	-0.0001	0.001	876.032	mg/L
|	Mg	24	1666.877	0.00	0.0001	0.000	156.335	mg/L
|	K	39	655875.728	0.04	0.0014	0.005	318.869	mg/L
|	Ca	43	333.357	0.00	0.0021	0.035	1682.777	mg/L
|	Fe	54	47144.744	0.05	0.0188	0.024	130.133	mg/L
|	Fe	57	8005.464	0.00	0.0033	0.010	291.445	mg/L

\> Sc	45	390116.153	390116.15		mg/L
Cl	35	73380.680	-366199.21		mg/L
Kr	83	159.337	-6.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45		97.539			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72		102.315			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115		102.775			
Sb	123					
Ba	135					
Ce	140					
\> Tb	159		104.477			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209		104.703			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45		97.539			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 10:33:30

QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 10:33:30

Method 6020 - Summary Report

Sample ID: PBW 6P WG98172-03

Sample Date/Time: Friday, May 25, 2001 10:37:49
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 11
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13679.816	-2338.87				ug/L
⌈	Be	9	33.367	0.00	0.1619	0.280	173.205	ug/L
|	Al	27	80794.004	0.19	18.8308	3.661	19.444	ug/L
|>	Sc-1	45	414418.610	414418.61				ug/L
⌈	V	51	3595.635	0.00	0.2657	0.257	96.836	ug/L
|	Cr	52	13593.214	0.00	0.1400	0.109	77.773	ug/L
|	Cr	53	3667.624	-0.01	-8.6564	0.555	6.413	ug/L
|	Mn	55	1668.531	0.00	0.0210	0.010	49.150	ug/L
|	Co	59	66.734	0.00	0.0025	0.004	178.501	ug/L
|	Ni	60	133.468	0.00	0.0361	0.021	58.687	ug/L
|	Cu	65	266.939	0.00	0.0612	0.036	58.869	ug/L
|	Zn	66	3668.091	0.00	1.6228	1.423	87.687	ug/L
|>	Ge	72	1056651.097	1056651.10				ug/L
|	As	75	78.081	-0.00	-0.0042	0.022	529.613	ug/L
|	Se	77	183.336	-0.00	-1.3681	0.082	6.013	ug/L
⌊	Se	82	111.053	-0.00	-0.0314	0.063	200.665	ug/L
	Y	89	862678.666	2049.60				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	100.101	0.00	0.0064	0.010	152.549	ug/L
|	Cd	114	23.269	0.00	0.0012	0.001	58.430	ug/L
|>	In	115	966286.471	966286.47				ug/L
⌊	Sb	123	445.371	0.00	0.0717	0.006	7.862	ug/L
⌈	Ba	135	133.468	0.00	0.0564	0.034	60.995	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	817897.130	817897.13				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	77.335	-20.67	-0.0024	0.003	106.488	ug/L
|	Tl	205	184.338	-51.00	-0.0025	0.001	31.393	ug/L
|	Pb	206	220.025	160.02	0.0214	0.002	10.825	ug/L
|	Pb	207	186.688	163.35	0.0255	0.007	28.934	ug/L
|	Pb	208	794.394	603.05	0.0203	0.002	9.621	ug/L
⌊>	Bi	209	815677.218	815677.22				ug/L
⌈	Na	23	48834.974	0.10	0.0111	0.001	10.981	mg/L
|	Mg	24	9006.562	0.02	0.0028	0.001	50.939	mg/L
|	K	39	714108.446	0.08	0.0038	0.008	204.422	mg/L
|	Ca	43	333.357	0.00	0.0020	0.043	2185.113	mg/L
|	Fe	54	48452.940	0.04	0.0206	0.017	80.814	mg/L
|	Fe	57	11010.208	0.01	0.0124	0.017	138.319	mg/L

> Sc	45	414418.610	414418.61		mg/L
Cl	35	82474.869	-357105.02		mg/L
Kr	83	149.670	-16.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		103.616			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		102.799			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		102.876			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		109.416			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		104.187			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		103.616			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6P WG98172-03
Report Date/Time: Friday, May 25, 2001 10:38:37

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: SPLP BLK 5-24

Sample Date/Time: Friday, May 25, 2001 10:42:55
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	13679.956	-2338.73				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	208332.439	0.47	47.0631	7.740	16.446	ug/L
|>	Sc-1	45	441699.423	441699.42				ug/L
⌈	V	51	7352.945	0.01	0.5995	0.092	15.326	ug/L
|	Cr	52	18375.709	0.01	0.5958	0.300	50.402	ug/L
|	Cr	53	4001.307	-0.01	-8.4365	1.789	21.202	ug/L
|	Mn	55	3671.296	0.00	0.1429	0.038	26.308	ug/L
|	Co	59	1301.420	0.00	0.0944	0.001	0.954	ug/L
|	Ni	60	467.152	0.00	0.1540	0.083	53.925	ug/L
|	Cu	65	567.257	0.00	0.1497	0.016	10.705	ug/L
|	Zn	66	3334.360	0.00	1.4355	0.992	69.129	ug/L
|>	Ge	72	1080738.550	1080738.55				ug/L
|	As	75	121.603	0.00	0.0136	0.020	149.922	ug/L
|	Se	77	204.003	-0.00	-1.2797	0.191	14.889	ug/L
⌊	Se	82	121.517	0.00	0.0002	0.014	6514.780	ug/L
	Y	89	915270.877	54641.81				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0027	0.005	189.910	ug/L
|	Cd	114	28.594	0.00	0.0019	0.001	27.782	ug/L
|>	In	115	1019230.160	1019230.16				ug/L
⌊	Sb	123	466.124	0.00	0.0711	0.002	3.466	ug/L
⌈	Ba	135	200.203	0.00	0.0967	0.068	70.553	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	814590.082	814590.08				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	94.668	-3.33	-0.0004	0.001	141.774	ug/L
|	Tl	205	187.338	-48.00	-0.0024	0.001	47.522	ug/L
|	Pb	206	1023.510	963.50	0.1288	0.021	16.556	ug/L
|	Pb	207	826.797	803.46	0.1256	0.013	10.062	ug/L
|	Pb	208	3930.965	3739.62	0.1259	0.003	2.407	ug/L
|>	Bi	209	828492.721	828492.72				ug/L
⌈	Na	23	60596.801	0.12	0.0134	0.003	24.078	mg/L
|	Mg	24	33746.399	0.07	0.0115	0.002	20.124	mg/L
|	K	39	788588.883	0.17	0.0079	0.021	264.254	mg/L
|	Ca	43	1666.877	0.00	0.0836	0.044	52.383	mg/L
|	Fe	54	149733.752	0.26	0.1351	0.012	9.086	mg/L
|	Fe	57	12344.474	0.01	0.0148	0.009	58.050	mg/L

> Sc	45	441699.423	441699.42		mg/L
Cl	35	113903.012	-325676.88		mg/L
Kr	83	149.003	-17.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		110.437			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		105.142			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		108.513			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		108.974			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		105.824			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		110.437			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: SPLP BLK 5-24
Report Date/Time: Friday, May 25, 2001 10:43:43
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Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6P WG98172-04

Sample Date/Time: Friday, May 25, 2001 10:48:02
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.866	3007.18				ug/L
[	Be	9	7645.122	0.02	135.5609	21.837	16.109	ug/L
|	Al	27	224478.897	0.55	219.8962	14.979	6.812	ug/L
L>	Sc-1	45	403766.659	403766.66				ug/L
[	V	51	389161.483	0.36	142.1708	1.488	1.047	ug/L
|	Cr	52	337666.843	0.30	133.5977	3.745	2.803	ug/L
|	Cr	53	48163.143	0.03	127.0618	20.267	15.950	ug/L
|	Mn	55	517240.606	0.48	128.6466	1.750	1.361	ug/L
|	Co	59	426902.067	0.40	128.0843	0.638	0.498	ug/L
|	Ni	60	88128.237	0.08	126.0126	3.311	2.627	ug/L
|	Cu	65	97829.922	0.09	118.5702	6.112	5.155	ug/L
|	Zn	66	82137.842	0.08	142.3113	8.563	6.017	ug/L
| >	Ge	72	1074376.333	1074376.33				ug/L
|	As	75	69202.518	0.06	119.4205	2.317	1.940	ug/L
|	Se	77	5412.718	0.00	105.9258	4.050	3.824	ug/L
L	Se	82	7053.226	0.01	111.7168	3.782	3.386	ug/L
	Y	89	852749.151	-7879.91				ug/L
[	Rh	103	33.367	0.00				ug/L
|	Ag	107	330671.141	0.33	123.3543	2.402	1.947	ug/L
|	Cd	114	185848.099	0.19	118.9584	2.951	2.480	ug/L
| >	In	115	988468.268	988468.27				ug/L
L	Sb	123	184361.333	0.19	119.7370	1.767	1.476	ug/L
[	Ba	135	58867.008	0.07	130.6249	17.295	13.241	ug/L
|	Ce	140	0.000	0.00				ug/L
L>	Tb	159	847056.457	847056.46				ug/L
[	Ho	165	0.000	0.00				ug/L
|	Tl	203	291279.290	291181.29	133.2790	0.520	0.390	ug/L
|	Tl	205	722098.513	721863.17	141.5756	2.820	1.992	ug/L
|	Pb	206	266878.275	266818.27	142.7071	2.742	1.922	ug/L
|	Pb	207	202253.766	202230.43	126.4288	1.715	1.356	ug/L
|	Pb	208	984461.345	984270.00	132.5554	2.002	1.510	ug/L
L>	Bi	209	820939.757	820939.76				ug/L
[	Na	23	48163.285	0.10	0.0452	0.007	15.539	mg/L
|	Mg	24	6336.345	0.01	0.0076	0.003	40.959	mg/L
|	K	39	715549.598	0.12	0.0229	0.026	113.009	mg/L
|	Ca	43	1000.117	0.00	0.1842	0.277	150.581	mg/L
|	Fe	54	68239.984	0.09	0.1859	0.091	48.778	mg/L
|	Fe	57	9339.918	0.01	0.0340	0.043	127.715	mg/L

L>	Sc	45	403766.659	403766.66		mg/L
	Cl	35	77419.983	-362159.91		mg/L
	Kr	83	148.336	-17.67		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		100.952			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.524			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		105.238			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		113.317			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		104.859			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		100.952			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6P WG98172-04
Report Date/Time: Friday, May 25, 2001 10:48:50

Method 6020 - Summary Report

Sample ID: 0550201 WG98172-02

Sample Date/Time: Friday, May 25, 2001 10:53:09
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.618	667.93				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	4639974.679	10.18	2045.2156	207.082	10.125	ug/L
|>	Sc-1	45	458342.811	458342.81				ug/L
⌈	V	51	49524.003	0.05	8.8774	0.794	8.945	ug/L
|	Cr	52	35389.493	0.02	4.6693	0.250	5.345	ug/L
|	Cr	53	5335.528	-0.01	-14.4547	3.741	25.883	ug/L
|	Mn	55	90594.549	0.08	11.0610	0.257	2.321	ug/L
|	Co	59	3637.929	0.00	0.5374	0.123	22.945	ug/L
|	Ni	60	5474.278	0.01	3.8657	0.657	16.992	ug/L
|	Cu	65	11220.101	0.01	6.7159	0.745	11.091	ug/L
|	Zn	66	5335.528	0.00	4.6027	1.816	39.458	ug/L
|>	Ge	72	1080490.592	1080490.59				ug/L
|	As	75	3706.118	0.00	3.1061	0.050	1.613	ug/L
|	Se	77	239.337	-0.00	-2.1847	0.244	11.190	ug/L
⌊	Se	82	191.382	0.00	0.5600	0.192	34.355	ug/L
	Y	89	893230.870	32601.81				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	266.941	0.00	0.0431	0.039	89.526	ug/L
|	Cd	114	70.782	0.00	0.0175	0.001	6.645	ug/L
|>	In	115	988141.277	988141.28				ug/L
⌊	Sb	123	88437.995	0.09	28.7249	0.324	1.129	ug/L
⌈	Ba	135	7478.092	0.01	8.3892	1.121	13.365	ug/L
|	Ce	140	17354.968	0.02				ug/L
|>	Tb	159	827685.014	827685.01				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	167.337	69.34	0.0159	0.001	7.115	ug/L
|	Tl	205	392.348	157.01	0.0154	0.000	1.946	ug/L
|	Pb	206	183642.526	183582.52	49.0943	0.695	1.415	ug/L
|	Pb	207	159009.567	158986.23	49.6969	0.483	0.973	ug/L
|	Pb	208	731115.572	730924.23	49.2182	0.103	0.210	ug/L
|>	Bi	209	808290.194	808290.19				ug/L
⌈	Na	23	50445501.744	111.03	24.8076	3.969	15.998	mg/L
|	Mg	24	1136984.580	2.49	0.7679	0.064	8.291	mg/L
|	K	39	3563779.428	6.17	0.5657	0.063	11.180	mg/L
|	Ca	43	118321.375	0.26	14.4114	3.453	23.961	mg/L
|	Fe	54	704871.920	1.48	1.5450	0.375	24.261	mg/L
|	Fe	57	224819.245	0.48	1.2410	0.127	10.194	mg/L

> Sc	45	458342.811	458342.81		mg/L
Cl	35	132903.113	-306676.78		mg/L
Kr	83	148.003	-18.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		114.598			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		105.118			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		105.203			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		110.725			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		103.244			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		114.598			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550201 WG98172-02
Report Date/Time: Friday, May 25, 2001 10:53:57
Page 2

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Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0550201 DP WG98172-07

Sample Date/Time: Friday, May 25, 2001 10:58:16
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16018.549	-0.14				ug/L
⌈	Be	9	33.367	0.00	0.2627	0.455	173.205	ug/L
|	Al	27	1890199.820	4.29	861.6427	39.466	4.580	ug/L
|>	Sc-1	45	440535.052	440535.05				ug/L
⌈	V	51	35872.891	0.03	6.3183	0.193	3.051	ug/L
|	Cr	52	28217.339	0.01	3.1384	0.384	12.228	ug/L
|	Cr	53	5001.937	-0.01	-15.1275	3.689	24.387	ug/L
|	Mn	55	60717.440	0.05	7.2759	0.124	1.698	ug/L
|	Co	59	2636.457	0.00	0.3840	0.027	7.105	ug/L
|	Ni	60	5507.646	0.01	3.8519	0.475	12.325	ug/L
|	Cu	65	9783.161	0.01	5.7936	0.488	8.419	ug/L
|	Zn	66	8338.680	0.01	7.0941	2.685	37.853	ug/L
|>	Ge	72	1092491.694	1092491.69				ug/L
|	As	75	3512.264	0.00	2.9068	0.035	1.212	ug/L
|	Se	77	239.337	-0.00	-2.2125	0.390	17.648	ug/L
⌊	Se	82	185.483	0.00	0.4967	0.039	7.936	ug/L
	Y	89	960387.671	99758.61				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	266.945	0.00	0.0413	0.068	163.596	ug/L
|	Cd	114	72.168	0.00	0.0173	0.001	6.131	ug/L
|>	In	115	1017413.191	1017413.19				ug/L
⌊	Sb	123	86819.625	0.09	27.3909	0.613	2.238	ug/L
⌈	Ba	135	5875.009	0.01	6.6464	1.087	16.356	ug/L
|	Ce	140	18024.395	0.02				ug/L
|>	Tb	159	816859.862	816859.86				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	136.336	38.33	0.0088	0.003	33.032	ug/L
|	Tl	205	338.011	102.67	0.0101	0.001	10.977	ug/L
|	Pb	206	184432.292	184372.29	49.3055	0.219	0.444	ug/L
|	Pb	207	152401.032	152377.70	47.6311	1.160	2.435	ug/L
|	Pb	208	721296.494	721105.15	48.5570	0.202	0.415	ug/L
|>	Bi	209	808569.057	808569.06				ug/L
⌈	Na	23	54405387.547	123.56	27.6079	0.508	1.840	mg/L
|	Mg	24	919270.214	2.09	0.6436	0.030	4.594	mg/L
|	K	39	2330163.472	3.67	0.3363	0.076	22.689	mg/L
|	Ca	43	116295.278	0.27	14.6152	3.458	23.657	mg/L
|	Fe	54	339226.839	0.70	0.7255	0.170	23.500	mg/L
|	Fe	57	92286.530	0.19	0.5011	0.135	26.873	mg/L

L>	Sc	45	440535.052	440535.05		mg/L
	Cl	35	120014.006	-319565.88		mg/L
	Kr	83	140.669	-25.33		mg/L
	U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		110.146			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		106.286			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		108.319			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		109.277			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		103.279			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		110.146			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550201 DP WG98172-07
Report Date/Time: Friday, May 25, 2001 10:59:05

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550204 WG98172-01

Sample Date/Time: Friday, May 25, 2001 11:03:24
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19026.569	3007.88				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3669102.089	8.15	1637.8053	65.362	3.991	ug/L
|>	Sc-1	45	449726.701	449726.70				ug/L
⌈	V	51	213635.037	0.20	39.8381	2.236	5.613	ug/L
|	Cr	52	27581.424	0.01	3.2250	0.760	23.578	ug/L
|	Cr	53	5001.891	-0.01	-14.7998	3.229	21.815	ug/L
|	Mn	55	54562.932	0.05	6.7826	0.557	8.209	ug/L
|	Co	59	2769.979	0.00	0.4193	0.051	12.133	ug/L
|	Ni	60	4005.135	0.00	2.9039	0.329	11.329	ug/L
|	Cu	65	1802.035	0.00	1.0723	0.208	19.427	ug/L
|	Zn	66	11676.452	0.01	10.3463	2.059	19.905	ug/L
|>	Ge	72	1051110.782	1051110.78				ug/L
|	As	75	2321.394	0.00	1.9731	0.051	2.571	ug/L
|	Se	77	262.672	-0.00	-1.8592	0.282	15.192	ug/L
⌊	Se	82	199.831	0.00	0.6743	0.215	31.833	ug/L
	Y	89	957469.795	96840.73				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	3604.526	0.00	0.6790	0.092	13.545	ug/L
|	Cd	114	65.059	0.00	0.0161	0.002	10.707	ug/L
|>	In	115	968440.411	968440.41				ug/L
⌊	Sb	123	1441.343	0.00	0.4731	0.011	2.381	ug/L
⌈	Ba	135	5273.915	0.01	5.7492	0.821	14.281	ug/L
|	Ce	140	15017.030	0.02				ug/L
|>	Tb	159	847836.702	847836.70				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	151.670	53.67	0.0123	0.001	4.303	ug/L
|	Tl	205	345.678	110.34	0.0108	0.001	12.860	ug/L
|	Pb	206	3247.731	3187.72	0.8525	0.051	5.925	ug/L
|	Pb	207	2730.796	2707.46	0.8463	0.054	6.411	ug/L
|	Pb	208	12980.696	12789.35	0.8612	0.023	2.685	ug/L
|>	Bi	209	781011.336	781011.34				ug/L
⌈	Na	23	84707122.383	188.32	42.0783	2.032	4.828	mg/L
|	Mg	24	832998.644	1.85	0.5702	0.030	5.240	mg/L
|	K	39	2907293.744	4.82	0.4415	0.015	3.345	mg/L
|	Ca	43	32741.598	0.07	3.9691	0.140	3.529	mg/L
|	Fe	54	446223.822	0.91	0.9506	0.110	11.540	mg/L
|	Fe	57	134934.978	0.28	0.7371	0.060	8.183	mg/L

L> Sc	45	449726.701	449726.70		mg/L
Cl	35	134589.806	-304990.08		mg/L
Kr	83	144.003	-22.00		mg/L
U	238	666.760	666.76		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		112.444			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.260			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		103.105			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		113.421			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		99.759			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		112.444			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 WG98172-01
Report Date/Time: Friday, May 25, 2001 11:04:13

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550205 S WG98172-05

Sample Date/Time: Friday, May 25, 2001 11:08:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19363.392	3344.70				ug/L
⌈	Be	9	14395.663	0.03	116.9426	30.419	26.012	ug/L
|	Al	27	4967682.462	11.20	2249.8348	420.048	18.670	ug/L
\>	Sc-1	45	452096.736	452096.74				ug/L
⌈	V	51	1099626.917	1.03	202.4473	7.472	3.691	ug/L
|	Cr	52	718835.273	0.66	146.1227	2.080	1.424	ug/L
|	Cr	53	87872.242	0.07	136.8311	11.591	8.471	ug/L
|	Mn	55	1162186.579	1.09	145.7310	1.215	0.834	ug/L
|	Co	59	892460.853	0.84	134.8024	1.115	0.827	ug/L
|	Ni	60	189056.038	0.18	136.1410	2.055	1.509	ug/L
|	Cu	65	211119.921	0.20	128.8022	4.840	3.758	ug/L
|	Zn	66	135621.574	0.13	118.3095	13.966	11.805	ug/L
\>	Ge	72	1066992.614	1066992.61				ug/L
|	As	75	130433.626	0.12	113.3917	1.766	1.557	ug/L
|	Se	77	9452.919	0.01	96.6873	0.632	0.654	ug/L
⌊	Se	82	12085.487	0.01	97.0644	1.871	1.928	ug/L
	Y	89	853684.455	-6944.61				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	641737.860	0.66	121.9219	2.805	2.301	ug/L
|	Cd	114	349924.275	0.36	114.0531	1.502	1.317	ug/L
\>	In	115	970513.128	970513.13				ug/L
⌊	Sb	123	280135.701	0.29	92.6620	2.120	2.288	ug/L
⌈	Ba	135	131531.077	0.17	155.4856	12.718	8.179	ug/L
|	Ce	140	25045.140	0.03				ug/L
\>	Tb	159	790956.131	790956.13				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	553589.026	553491.02	126.6714	1.475	1.164	ug/L
|	Tl	205	1399248.176	1399012.84	137.1909	1.330	0.969	ug/L
|	Pb	206	527151.043	527091.04	140.9567	3.446	2.445	ug/L
|	Pb	207	396972.963	396949.63	124.0809	4.298	3.464	ug/L
|	Pb	208	1937888.794	1937697.45	130.4786	1.860	1.425	ug/L
\>	Bi	209	775349.001	775349.00				ug/L
⌈	Na	23	93143400.832	210.73	47.0855	9.866	20.954	mg/L
|	Mg	24	1229884.841	2.78	0.8587	0.199	23.149	mg/L
|	K	39	4011055.389	7.39	0.6774	0.145	21.394	mg/L
|	Ca	43	51184.043	0.11	6.2455	0.568	9.101	mg/L
|	Fe	54	522307.160	1.09	1.1334	0.133	11.704	mg/L
|	Fe	57	200097.653	0.43	1.1293	0.195	17.282	mg/L

L> Sc	45	452096.736	452096.74		mg/L
Cl	35	165592.575	-273987.31		mg/L
Kr	83	146.003	-20.00		mg/L
U	238	1667.063	1667.06		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		113.036			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		103.805			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		103.326			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.812			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		99.036			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		113.036			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550205 S WG98172-05
Report Date/Time: Friday, May 25, 2001 11:09:21
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Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550206 SD WG98172-06

Sample Date/Time: Friday, May 25, 2001 11:13:40
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16019.251	0.56				ug/L
⌈	Be	9	14228.479	0.03	106.2469	10.448	9.833	ug/L
|	Al	27	4808422.605	10.06	2020.8375	130.317	6.449	ug/L
⌊>	Sc-1	45	478901.437	478901.44				ug/L
⌈	V	51	1037094.991	0.98	193.0138	11.373	5.892	ug/L
|	Cr	52	727341.046	0.68	149.6220	6.205	4.147	ug/L
|	Cr	53	82814.699	0.07	129.3535	19.138	14.795	ug/L
|	Mn	55	1204590.186	1.14	152.7226	3.709	2.429	ug/L
|	Co	59	884690.714	0.84	135.1242	4.719	3.492	ug/L
|	Ni	60	195299.779	0.18	142.0982	6.310	4.441	ug/L
|	Cu	65	209398.870	0.20	129.1729	1.126	0.872	ug/L
|	Zn	66	148190.584	0.14	130.8102	7.835	5.990	ug/L
| >	Ge	72	1055419.948	1055419.95				ug/L
|	As	75	127539.663	0.12	112.0894	1.117	0.997	ug/L
|	Se	77	9372.817	0.01	96.9465	3.401	3.508	ug/L
⌊	Se	82	11938.774	0.01	96.9395	1.219	1.257	ug/L
	Y	89	884017.683	23388.62				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	619367.809	0.66	121.9463	3.116	2.555	ug/L
|	Cd	114	344049.512	0.37	116.2183	2.982	2.566	ug/L
| >	In	115	936475.626	936475.63				ug/L
⌊	Sb	123	288481.027	0.31	98.8769	0.829	0.839	ug/L
⌈	Ba	135	117781.893	0.14	134.3492	10.356	7.708	ug/L
|	Ce	140	22705.940	0.03				ug/L
⌊>	Tb	159	818443.109	818443.11				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	541574.996	541476.99	123.9219	1.978	1.596	ug/L
|	Tl	205	1359684.031	1359448.69	133.3111	1.545	1.159	ug/L
|	Pb	206	509167.317	509107.31	136.1474	1.739	1.277	ug/L
|	Pb	207	386762.810	386739.47	120.8894	0.644	0.533	ug/L
|	Pb	208	1887754.111	1887562.77	127.1027	0.831	0.654	ug/L
⌊>	Bi	209	760948.028	760948.03				ug/L
⌈	Na	23	85223629.227	177.54	39.6709	2.878	7.254	mg/L
|	Mg	24	1541780.374	3.21	0.9891	0.100	10.083	mg/L
|	K	39	4364547.681	7.46	0.6839	0.023	3.359	mg/L
|	Ca	43	66647.717	0.14	7.6051	0.772	10.156	mg/L
|	Fe	54	554395.992	1.08	1.1256	0.071	6.300	mg/L
|	Fe	57	146492.469	0.29	0.7523	0.029	3.895	mg/L

> Sc	45	478901.437	478901.44		mg/L
Cl	35	115257.500	-324322.39		mg/L
Kr	83	146.670	-19.33		mg/L
U	238	1333.520	1333.52		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		119.738			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		102.679			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		99.702			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		109.489			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		97.197			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		119.738			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550206 SD WG98172-06
Report Date/Time: Friday, May 25, 2001 11:14:30

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550204 PS

Sample Date/Time: Friday, May 25, 2001 11:18:49
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20028.649	4009.96				ug/L
⌈	Be	9	17405.440	0.03	121.8486	11.974	9.827	ug/L
|	Al	27	4110129.386	8.06	1618.9202	112.759	6.965	ug/L
|>	Sc-1	45	509920.105	509920.10				ug/L
⌈	V	51	1122104.281	1.04	205.3005	9.492	4.623	ug/L
|	Cr	52	798927.050	0.73	161.6494	8.355	5.169	ug/L
|	Cr	53	97664.418	0.08	153.5311	8.219	5.353	ug/L
|	Mn	55	1275290.134	1.19	158.8585	5.350	3.368	ug/L
|	Co	59	957313.368	0.89	143.6672	5.930	4.127	ug/L
|	Ni	60	208334.691	0.19	149.0195	2.712	1.820	ug/L
|	Cu	65	215655.092	0.20	130.7399	4.462	3.413	ug/L
|	Zn	66	134617.383	0.13	116.5158	19.348	16.606	ug/L
|>	Ge	72	1074049.636	1074049.64				ug/L
|	As	75	138660.301	0.13	119.7638	2.063	1.723	ug/L
|	Se	77	10279.392	0.01	104.8688	3.368	3.211	ug/L
⌊	Se	82	13061.998	0.01	104.3026	2.471	2.369	ug/L
	Y	89	868985.781	8356.72				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	611861.362	0.64	117.3055	3.066	2.613	ug/L
|	Cd	114	374225.682	0.39	123.0990	0.712	0.579	ug/L
|>	In	115	961534.074	961534.07				ug/L
⌊	Sb	123	379089.632	0.39	126.5388	1.540	1.217	ug/L
⌈	Ba	135	124534.630	0.16	152.0182	1.350	0.888	ug/L
|	Ce	140	18024.536	0.02				ug/L
|>	Tb	159	763063.219	763063.22				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	584146.708	584048.71	133.6648	0.806	0.603	ug/L
|	Tl	205	1479606.233	1479370.89	145.0710	1.414	0.974	ug/L
|	Pb	206	534656.056	534596.05	142.9637	4.727	3.306	ug/L
|	Pb	207	424720.491	424697.16	132.7544	4.787	3.606	ug/L
|	Pb	208	2038298.923	2038107.58	137.2399	3.005	2.189	ug/L
|>	Bi	209	773017.815	773017.82				ug/L
⌈	Na	23	92971231.884	182.10	40.6888	3.338	8.204	mg/L
|	Mg	24	861975.926	1.69	0.5201	0.039	7.531	mg/L
|	K	39	3455567.503	5.14	0.4715	0.065	13.883	mg/L
|	Ca	43	43130.150	0.08	4.6161	0.157	3.395	mg/L
|	Fe	54	442649.803	0.79	0.8211	0.126	15.334	mg/L
|	Fe	57	147188.458	0.27	0.7058	0.085	12.039	mg/L

L>	Sc	45	509920.105	509920.10		mg/L
	Cl	35	134251.210	-305328.68		mg/L
	Kr	83	142.003	-24.00		mg/L
	U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		127.494			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.492			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.370			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		102.081			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		98.738			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		127.494			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 PS
Report Date/Time: Friday, May 25, 2001 11:19:39
Page 2

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Al 27 Upper, S, EEE Al	27
Sc-1 45 Int Std for sanSc-1	45
Na 23 Upper, S, EEE Na	23
Sc 45 Int Std for sampSc	45

Method 6020 - Summary Report

Sample ID: 0550204 SDL

Sample Date/Time: Friday, May 25, 2001 11:23:58
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	14347.932	-1670.76				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	903112.055	1.84	1847.1298	400.699	21.693	ug/L
|>	Sc-1	45	495356.203	495356.20				ug/L
⌈	V	51	48731.593	0.04	43.1066	1.929	4.474	ug/L
|	Cr	52	16234.687	0.00	3.5838	0.912	25.437	ug/L
|	Cr	53	4668.301	-0.01	-78.7749	13.653	17.332	ug/L
|	Mn	55	12389.805	0.01	6.7394	0.380	5.642	ug/L
|	Co	59	433.781	0.00	0.2942	0.116	39.378	ug/L
|	Ni	60	1001.073	0.00	3.3929	0.699	20.612	ug/L
|	Cu	65	533.888	0.00	1.3765	0.445	32.297	ug/L
|	Zn	66	2000.280	0.00	8.5179	0.076	0.894	ug/L
|>	Ge	72	1093432.102	1093432.10				ug/L
|	As	75	653.609	0.00	2.3894	0.165	6.900	ug/L
|	Se	77	183.336	-0.00	-14.0145	0.346	2.472	ug/L
⌊	Se	82	162.011	0.00	1.5492	0.598	38.592	ug/L
	Y	89	865615.004	4985.94				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	400.415	0.00	0.3620	0.264	72.796	ug/L
|	Cd	114	35.287	0.00	0.0337	0.005	14.529	ug/L
|>	In	115	942742.661	942742.66				ug/L
⌊	Sb	123	948.600	0.00	1.5915	0.052	3.237	ug/L
⌈	Ba	135	1034.451	0.00	6.3416	2.710	42.739	ug/L
|	Ce	140	3667.624	0.00				ug/L
|>	Tb	159	738284.082	738284.08				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.001	-28.00	-0.0320	0.009	28.571	ug/L
|	Tl	205	164.004	-71.34	-0.0350	0.006	16.167	ug/L
|	Pb	206	890.146	830.14	1.1100	0.248	22.315	ug/L
|	Pb	207	680.101	656.76	1.0265	0.095	9.263	ug/L
|	Pb	208	3554.542	3363.20	1.1323	0.088	7.766	ug/L
|>	Bi	209	795195.930	795195.93				ug/L
⌈	Na	23	18943964.552	38.39	42.8856	4.762	11.103	mg/L
|	Mg	24	206287.552	0.42	0.6422	0.101	15.682	mg/L
|	K	39	1202875.708	0.79	0.3622	0.092	25.445	mg/L
|	Ca	43	10007.052	0.02	5.3799	0.815	15.141	mg/L
|	Fe	54	130059.439	0.18	0.9597	0.111	11.597	mg/L
|	Fe	57	51855.165	0.09	1.1469	0.075	6.508	mg/L

L> Sc	45	495356.203	495356.20		mg/L
Cl	35	69004.584	-370575.30		mg/L
Kr	83	139.669	-26.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		123.852			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		106.377			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		100.370			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		98.766			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		101.571			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		123.852			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550204 SDL
Report Date/Time: Friday, May 25, 2001 11:24:48

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 11:29:07
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.519	4343.83				ug/L
⌈	Be	9	16569.553	0.04	52.8826	12.445	23.533	ug/L
|	Al	27	329084.879	0.72	58.0792	4.735	8.153	ug/L
|>	Sc-1	45	450811.536	450811.54				ug/L
⌈	V	51	767394.254	0.72	56.4010	3.443	6.105	ug/L
|	Cr	52	690771.599	0.63	56.0207	3.138	5.602	ug/L
|	Cr	53	75396.729	0.06	45.4906	4.326	9.509	ug/L
|	Mn	55	1033635.373	0.97	51.7286	3.278	6.336	ug/L
|	Co	59	833773.606	0.78	50.2632	1.838	3.657	ug/L
|	Ni	60	178034.041	0.17	51.1566	1.595	3.117	ug/L
|	Cu	65	195433.254	0.18	47.6058	2.946	6.189	ug/L
|	Zn	66	145808.213	0.14	50.7456	1.241	2.446	ug/L
|>	Ge	72	1070051.823	1070051.82				ug/L
|	As	75	141066.201	0.13	48.9287	1.057	2.161	ug/L
|	Se	77	11591.410	0.01	47.7717	3.556	7.445	ug/L
⌊	Se	82	15184.437	0.01	48.7581	1.404	2.879	ug/L
	Y	89	890755.601	30126.54				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	629037.378	0.67	49.1291	1.454	2.959	ug/L
|	Cd	114	368400.060	0.39	49.3627	0.996	2.018	ug/L
|>	In	115	944398.799	944398.80				ug/L
⌊	Sb	123	350898.937	0.37	47.7084	0.748	1.567	ug/L
⌈	Ba	135	106461.053	0.14	50.3443	5.341	10.609	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	792517.348	792517.35				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	524876.694	524778.69	48.0401	0.457	0.952	ug/L
|	Tl	205	1326368.167	1326132.83	52.0176	1.059	2.036	ug/L
|	Pb	206	494559.940	494499.93	52.8964	0.342	0.646	ug/L
|	Pb	207	374582.196	374558.86	46.8327	0.734	1.568	ug/L
|	Pb	208	1828715.644	1828524.30	49.2509	0.083	0.169	ug/L
⌊>	Bi	209	778939.854	778939.85				ug/L
⌈	Na	23	27891369.565	61.87	5.5294	0.301	5.447	mg/L
|	Mg	24	21117856.711	47.01	5.8008	0.637	10.980	mg/L
|	K	39	67408815.748	148.37	5.4394	0.562	10.330	mg/L
|	Ca	43	115264.480	0.25	5.6175	0.543	9.663	mg/L
|	Fe	54	4794738.070	10.57	4.4031	0.296	6.730	mg/L
|	Fe	57	2086567.244	4.62	4.8042	0.241	5.017	mg/L

L>	Sc	45	450811.536	450811.54		mg/L
	Cl	35	46820.051	-392759.84		mg/L
	Kr	83	146.003	-20.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	105.765				
|	Al	27	116.158				
L>	Sc-1	45		112.715			
⌈	V	51	112.802				
|	Cr	52	112.041				
|	Cr	53	90.981				
|	Mn	55	103.457				
|	Co	59	100.526				
|	Ni	60	102.313				
|	Cu	65	95.212				
|	Zn	66	101.491				
\>	Ge	72		104.103			
|	As	75	97.857				
|	Se	77	95.543				
L	Se	82	97.516				
	Y	89					
⌈	Rh	103					
|	Ag	107	98.258				
|	Cd	114	98.725				
\>	In	115		100.546			
L	Sb	123	95.417				
⌈	Ba	135	100.689				
|	Ce	140					
L>	Tb	159		106.021			
⌈	Ho	165					
|	Tl	203	96.080				
|	Tl	205	104.035				
|	Pb	206	105.793				
|	Pb	207	93.665				
|	Pb	208	98.502				
L>	Bi	209		99.495			
⌈	Na	23	110.587				
|	Mg	24	116.017				
|	K	39	108.787				
|	Ca	43	112.351				
|	Fe	54	88.062				
|	Fe	57	96.083				
L>	Sc	45		112.715			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 11:29:57
Page 2

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 11:34:15
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20030.477	4011.79				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3667.810	-0.00	-0.1062	0.403	379.006	ug/L
⌊>	Sc-1	45	479031.839	479031.84				ug/L
⌈	V	51	3369.909	0.00	0.1930	0.096	49.922	ug/L
|	Cr	52	13158.633	0.00	0.0675	0.085	126.341	ug/L
|	Cr	53	2667.367	-0.01	-7.6862	1.518	19.750	ug/L
|	Mn	55	500.521	-0.00	-0.0426	0.013	31.233	ug/L
|	Co	59	66.734	0.00	0.0020	0.007	357.129	ug/L
|	Ni	60	0.000	-0.00	-0.0100	0.000	0.000	ug/L
|	Cu	65	66.734	-0.00	-0.0005	0.014	2605.596	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
| >	Ge	72	1064516.454	1064516.45				ug/L
|	As	75	77.001	-0.00	-0.0039	0.022	552.392	ug/L
|	Se	77	155.335	-0.00	-1.2206	0.029	2.376	ug/L
⌊	Se	82	110.038	-0.00	-0.0312	0.017	53.820	ug/L
	Y	89	928056.978	67427.91				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
|	Cd	114	19.918	0.00	0.0007	0.001	161.415	ug/L
| >	In	115	932058.599	932058.60				ug/L
⌊	Sb	123	1144.874	0.00	0.1558	0.007	4.590	ug/L
⌈	Ba	135	33.367	-0.00	-0.0023	0.025	1067.396	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	795112.988	795112.99				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	45.001	-53.00	-0.0049	0.000	3.774	ug/L
|	Tl	205	107.002	-128.34	-0.0050	0.000	7.013	ug/L
|	Pb	206	36.670	-23.34	-0.0025	0.002	65.465	ug/L
|	Pb	207	60.006	36.67	0.0046	0.003	54.546	ug/L
|	Pb	208	208.679	17.33	0.0005	0.001	277.181	ug/L
⌊>	Bi	209	772006.967	772006.97				ug/L
⌈	Na	23	14683.254	0.01	0.0010	0.001	67.079	mg/L
|	Mg	24	0.000	-0.00	-0.0004	0.000	0.000	mg/L
|	K	39	835588.753	0.13	0.0046	0.016	349.326	mg/L
|	Ca	43	333.357	-0.00	-0.0017	0.029	1678.909	mg/L
|	Fe	54	45443.789	0.02	0.0066	0.006	88.551	mg/L
|	Fe	57	7003.759	-0.00	-0.0019	0.007	364.934	mg/L

└>	Sc	45	479031.839	479031.84		mg/L
	Cl	35	43805.368	-395774.52		mg/L
	Kr	83	146.336	-19.67		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45		119.771			
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72		103.564			
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115		99.232			
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159		106.368			
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209		98.609			
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45		119.771			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 11:35:03

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 11:35:03
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Method 6020 - Summary Report

Sample ID: 0550202

Sample Date/Time: Friday, May 25, 2001 11:39:23
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24375.055	8356.37				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	1739364.910	3.60	724.2048	94.051	12.987	ug/L
|>	Sc-1	45	486154.534	486154.53				ug/L
⌈	V	51	70709.394	0.07	12.8053	0.545	4.260	ug/L
|	Cr	52	27848.706	0.01	3.1603	0.232	7.334	ug/L
|	Cr	53	3334.594	-0.01	-18.0010	5.883	32.683	ug/L
|	Mn	55	19111.298	0.02	2.2146	0.128	5.762	ug/L
|	Co	59	1501.678	0.00	0.2189	0.091	41.713	ug/L
|	Ni	60	4305.628	0.00	3.0445	0.452	14.844	ug/L
|	Cu	65	4138.682	0.00	2.4660	0.311	12.593	ug/L
|	Zn	66	4001.307	0.00	3.5037	1.836	52.399	ug/L
|>	Ge	72	1074835.807	1074835.81				ug/L
|	As	75	1415.358	0.00	1.1449	0.027	2.327	ug/L
|	Se	77	202.003	-0.00	-2.5720	0.099	3.863	ug/L
⌊	Se	82	169.845	0.00	0.3932	0.151	38.435	ug/L
	Y	89	902687.797	42058.73				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.468	0.00	0.0187	0.011	58.588	ug/L
|	Cd	114	57.326	0.00	0.0135	0.002	12.218	ug/L
|>	In	115	974338.446	974338.45				ug/L
⌊	Sb	123	7759.275	0.01	2.5516	0.061	2.377	ug/L
⌈	Ba	135	3671.281	0.00	3.8925	0.199	5.108	ug/L
|	Ce	140	8338.587	0.01				ug/L
|>	Tb	159	869940.409	869940.41				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	78.668	-19.33	-0.0044	0.003	60.615	ug/L
|	Tl	205	192.338	-43.00	-0.0042	0.002	40.033	ug/L
|	Pb	206	18893.530	18833.52	5.0365	0.182	3.614	ug/L
|	Pb	207	16921.714	16898.38	5.2822	0.080	1.514	ug/L
|	Pb	208	77133.821	76942.48	5.1811	0.050	0.962	ug/L
|>	Bi	209	786735.961	786735.96				ug/L
⌈	Na	23	55954908.078	116.53	26.0386	4.057	15.581	mg/L
|	Mg	24	833288.761	1.72	0.5320	0.051	9.613	mg/L
|	K	39	2261629.253	3.02	0.2766	0.032	11.607	mg/L
|	Ca	43	92602.932	0.19	10.6321	2.300	21.634	mg/L
|	Fe	54	296267.253	0.54	0.5588	0.080	14.330	mg/L
|	Fe	57	96661.243	0.18	0.4722	0.022	4.669	mg/L

L> Sc	45	486154.534	486154.53		mg/L
Cl	35	108148.988	-331430.90		mg/L
Kr	83	147.336	-18.67		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		121.552			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		104.568			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		103.733			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		116.378			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		100.490			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		121.552			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550202
Report Date/Time: Friday, May 25, 2001 11:40:13

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0550203

Sample Date/Time: Friday, May 25, 2001 11:44:32
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21366.239	5347.55				ug/L
⌈	Be	9	66.734	0.00	0.4711	0.409	86.761	ug/L
|	Al	27	24798597.344	50.31	10110.0388	781.280	7.728	ug/L
⌊>	Sc-1	45	492094.033	492094.03				ug/L
⌈	V	51	297554.867	0.28	55.6791	0.894	1.606	ug/L
|	Cr	52	68528.793	0.05	11.8697	0.252	2.123	ug/L
|	Cr	53	5669.024	-0.01	-13.5257	2.879	21.283	ug/L
|	Mn	55	1392474.858	1.33	177.7981	6.251	3.516	ug/L
|	Co	59	28451.617	0.03	4.3698	0.020	0.467	ug/L
|	Ni	60	29892.774	0.03	21.8974	2.558	11.680	ug/L
|	Cu	65	14963.978	0.01	9.2539	0.523	5.650	ug/L
|	Zn	66	30735.098	0.03	27.3212	6.571	24.050	ug/L
|>	Ge	72	1048177.727	1048177.73				ug/L
|	As	75	4161.173	0.00	3.6073	0.073	2.021	ug/L
|	Se	77	248.671	-0.00	-2.0072	0.286	14.225	ug/L
⌊	Se	82	203.411	0.00	0.7062	0.211	29.863	ug/L
	Y	89	1002077.133	141448.07				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	2135.799	0.00	0.4052	0.096	23.738	ug/L
|	Cd	114	379.126	0.00	0.1202	0.003	2.219	ug/L
|>	In	115	956773.008	956773.01				ug/L
⌊	Sb	123	3552.812	0.00	1.1874	0.023	1.932	ug/L
⌈	Ba	135	104327.089	0.13	118.2886	9.317	7.876	ug/L
|	Ce	140	215552.773	0.26				ug/L
⌊>	Tb	159	824039.076	824039.08				ug/L
⌈	Ho	165	3334.174	3334.17				ug/L
|	Tl	203	580.029	482.03	0.1103	0.004	3.453	ug/L
|	Tl	205	1431.825	1196.48	0.1173	0.002	1.947	ug/L
|	Pb	206	124867.821	124807.81	33.3766	0.448	1.344	ug/L
|	Pb	207	103562.382	103539.05	32.3649	0.400	1.237	ug/L
|	Pb	208	491175.373	490984.03	33.0614	0.148	0.449	ug/L
⌊>	Bi	209	766897.868	766897.87				ug/L
⌈	Na	23	52511529.120	107.26	23.9653	3.141	13.108	mg/L
|	Mg	24	5030950.812	10.23	3.1562	0.195	6.190	mg/L
|	K	39	13623881.479	26.14	2.3958	0.227	9.457	mg/L
|	Ca	43	930658.649	1.89	104.3612	3.800	3.641	mg/L
|	Fe	54	2707832.927	5.43	5.6587	0.385	6.811	mg/L
|	Fe	57	1173152.124	2.37	6.1717	0.404	6.548	mg/L

L>	Sc	45	492094.033	492094.03	mg/L
	Cl	35	106116.730	-333463.16	mg/L
	Kr	83	154.670	-11.33	mg/L
	U	238	3667.904	3667.90	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		123.037			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.975			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		101.863			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		110.238			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		97.957			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		123.037			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550203
Report Date/Time: Friday, May 25, 2001 11:45:23

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0550207

Sample Date/Time: Friday, May 25, 2001 11:49:41
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21030.962	5012.27				ug/L
⌈	Be	9	33.367	0.00	0.2677	0.464	173.205	ug/L
|	Al	27	2734981.774	6.11	1227.9224	226.361	18.434	ug/L
⌊>	Sc-1	45	451564.934	451564.93				ug/L
⌈	V	51	185856.749	0.18	35.1165	1.034	2.944	ug/L
|	Cr	52	25437.481	0.01	2.8559	0.439	15.374	ug/L
|	Cr	53	3334.360	-0.01	-17.8204	4.337	24.339	ug/L
|	Mn	55	37167.523	0.03	4.6329	0.482	10.395	ug/L
|	Co	59	2002.284	0.00	0.3061	0.030	9.953	ug/L
|	Ni	60	6275.726	0.01	4.6268	0.596	12.879	ug/L
|	Cu	65	4038.522	0.00	2.4957	0.290	11.636	ug/L
|	Zn	66	76070.735	0.07	68.3412	4.524	6.620	ug/L
| >	Ge	72	1036545.688	1036545.69				ug/L
|	As	75	1796.512	0.00	1.5316	0.091	5.911	ug/L
|	Se	77	215.337	-0.00	-2.3444	0.217	9.243	ug/L
⌊	Se	82	181.186	0.00	0.5403	0.116	21.491	ug/L
	Y	89	865924.040	5294.98				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	100.101	0.00	0.0133	0.020	150.828	ug/L
|	Cd	114	84.002	0.00	0.0233	0.001	3.947	ug/L
| >	In	115	934071.714	934071.71				ug/L
⌊	Sb	123	2212.548	0.00	0.7559	0.032	4.251	ug/L
⌈	Ba	135	5240.528	0.01	6.1760	1.029	16.661	ug/L
|	Ce	140	10007.613	0.01				ug/L
⌊>	Tb	159	786020.390	786020.39				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	100.335	2.33	0.0005	0.001	173.205	ug/L
|	Tl	205	226.673	-8.67	-0.0008	0.001	174.736	ug/L
|	Pb	206	2524.033	2464.03	0.6589	0.048	7.267	ug/L
|	Pb	207	2143.875	2120.54	0.6629	0.108	16.345	ug/L
|	Pb	208	9960.922	9769.58	0.6579	0.015	2.300	ug/L
⌊>	Bi	209	749710.531	749710.53				ug/L
⌈	Na	23	99169314.009	221.15	49.4150	6.196	12.538	mg/L
|	Mg	24	867235.395	1.94	0.5971	0.105	17.568	mg/L
|	K	39	2579050.902	4.08	0.3739	0.031	8.250	mg/L
|	Ca	43	58910.348	0.13	7.2240	1.340	18.554	mg/L
|	Fe	54	336387.240	0.67	0.6974	0.072	10.338	mg/L
|	Fe	57	120339.056	0.25	0.6523	0.040	6.195	mg/L

L>	Sc	45	451564.934	451564.93		mg/L
	Cl	35	132892.555	-306687.33		mg/L
	Kr	83	133.669	-32.33		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		112.903			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		100.843			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.446			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.152			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		95.761			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		112.903			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550207
Report Date/Time: Friday, May 25, 2001 11:50:29

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550208

Sample Date/Time: Friday, May 25, 2001 11:54:48
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20363.315	4344.63				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3892678.427	8.71	1751.0678	133.443	7.621	ug/L
|>	Sc-1	45	448039.990	448039.99				ug/L
⌈	V	51	195410.622	0.19	37.0367	0.770	2.078	ug/L
|	Cr	52	28451.779	0.02	3.5163	0.406	11.557	ug/L
|	Cr	53	5335.901	-0.01	-14.0585	6.538	46.504	ug/L
|	Mn	55	59808.987	0.06	7.5811	0.082	1.081	ug/L
|	Co	59	3137.211	0.00	0.4846	0.169	34.854	ug/L
|	Ni	60	5641.239	0.01	4.1724	0.715	17.144	ug/L
|	Cu	65	2035.664	0.00	1.2418	0.216	17.406	ug/L
|	Zn	66	11342.441	0.01	10.2296	1.493	14.596	ug/L
|>	Ge	72	1033573.256	1033573.26				ug/L
|	As	75	2208.700	0.00	1.9073	0.150	7.868	ug/L
|	Se	77	206.670	-0.00	-2.4337	0.091	3.734	ug/L
⌊	Se	82	163.091	0.00	0.3938	0.134	34.150	ug/L
	Y	89	872944.866	12315.80				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	66.734	0.00	0.0066	0.023	344.237	ug/L
|	Cd	114	54.381	0.00	0.0132	0.001	10.932	ug/L
|>	In	115	936626.829	936626.83				ug/L
⌊	Sb	123	813.995	0.00	0.2743	0.010	3.467	ug/L
⌈	Ba	135	8346.655	0.01	10.0585	2.065	20.532	ug/L
|	Ce	140	25713.443	0.03				ug/L
|>	Tb	159	772725.232	772725.23				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	110.669	12.67	0.0029	0.001	43.481	ug/L
|	Tl	205	283.008	47.67	0.0047	0.000	6.294	ug/L
|	Pb	206	3157.681	3097.67	0.8284	0.032	3.907	ug/L
|	Pb	207	2704.118	2680.78	0.8380	0.067	8.007	ug/L
|	Pb	208	12379.169	12187.83	0.8207	0.009	1.142	ug/L
|>	Bi	209	746400.177	746400.18				ug/L
⌈	Na	23	94004245.571	211.83	47.3312	7.028	14.848	mg/L
|	Mg	24	1009814.372	2.27	0.6990	0.084	12.079	mg/L
|	K	39	2939757.322	4.94	0.4532	0.048	10.659	mg/L
|	Ca	43	70694.132	0.16	8.7929	2.661	30.265	mg/L
|	Fe	54	421050.828	0.87	0.9029	0.150	16.606	mg/L
|	Fe	57	138338.413	0.30	0.7703	0.162	20.968	mg/L

> Sc	45	448039.990	448039.99		mg/L
Cl	35	151955.496	-287624.39		mg/L
Kr	83	127.336	-38.67		mg/L
U	238	1333.473	1333.47		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		112.022			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		100.554			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		99.718			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		103.373			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		95.338			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		112.022			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550208
Report Date/Time: Friday, May 25, 2001 11:55:37

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550209

Sample Date/Time: Friday, May 25, 2001 11:59:55
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20696.717	4678.03				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	6762418.542	14.29	2870.7670	194.714	6.783	ug/L
⌊>	Sc-1	45	474357.298	474357.30				ug/L
⌈	V	51	264828.903	0.26	51.0404	2.151	4.214	ug/L
|	Cr	52	37838.242	0.03	5.6521	0.817	14.460	ug/L
|	Cr	53	5668.931	-0.01	-13.2211	1.010	7.637	ug/L
|	Mn	55	166995.067	0.16	21.8170	0.595	2.729	ug/L
|	Co	59	4539.337	0.00	0.7133	0.108	15.115	ug/L
|	Ni	60	4906.594	0.00	3.6818	0.258	7.015	ug/L
|	Cu	65	2903.532	0.00	1.8125	0.572	31.571	ug/L
|	Zn	66	9339.544	0.01	8.5448	1.371	16.049	ug/L
|>	Ge	72	1017561.109	1017561.11				ug/L
|	As	75	4545.604	0.00	4.0688	0.136	3.333	ug/L
|	Se	77	232.670	-0.00	-2.1051	0.083	3.933	ug/L
⌊	Se	82	210.846	0.00	0.8209	0.150	18.237	ug/L
	Y	89	822870.854	-37758.21				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	3103.783	0.00	0.6222	0.069	11.087	ug/L
|	Cd	114	117.122	0.00	0.0356	0.002	6.878	ug/L
|>	In	115	909910.371	909910.37				ug/L
⌊	Sb	123	785.228	0.00	0.2723	0.010	3.655	ug/L
⌈	Ba	135	14763.340	0.02	18.4540	1.214	6.579	ug/L
|	Ce	140	55885.201	0.08				ug/L
⌊>	Tb	159	744967.981	744967.98				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	200.671	102.67	0.0235	0.003	10.685	ug/L
|	Tl	205	541.359	306.02	0.0300	0.003	8.530	ug/L
|	Pb	206	6376.821	6316.81	1.6893	0.088	5.230	ug/L
|	Pb	207	4998.919	4975.58	1.5553	0.095	6.122	ug/L
|	Pb	208	24695.951	24504.61	1.6501	0.023	1.389	ug/L
⌊>	Bi	209	742768.910	742768.91				ug/L
⌈	Na	23	130848400.429	277.93	62.1006	7.541	12.143	mg/L
|	Mg	24	1391065.072	2.93	0.9031	0.073	8.081	mg/L
|	K	39	5183351.254	9.31	0.8535	0.053	6.169	mg/L
|	Ca	43	83490.369	0.18	9.7236	1.495	15.376	mg/L
|	Fe	54	750885.649	1.52	1.5824	0.224	14.140	mg/L
|	Fe	57	254160.347	0.52	1.3603	0.224	16.482	mg/L

Sc	45	474357.298	474357.30		mg/L
Cl	35	148871.426	-290708.46		mg/L
Kr	83	132.003	-34.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		118.602			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.996			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		96.874			
Sb	123					
Ba	135					
Ce	140					
Tb	159		99.660			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		94.875			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		118.602			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550209
Report Date/Time: Friday, May 25, 2001 12:00:44

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550210

Sample Date/Time: Friday, May 25, 2001 12:05:03
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.767	3342.08				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	6205009.043	13.08	2627.7020	293.628	11.174	ug/L
|>	Sc-1	45	478674.450	478674.45				ug/L
⌈	V	51	224612.992	0.22	42.6444	1.403	3.290	ug/L
|	Cr	52	32472.754	0.02	4.3827	0.154	3.510	ug/L
|	Cr	53	4335.037	-0.01	-15.8784	5.489	34.568	ug/L
|	Mn	55	124736.716	0.12	16.0178	0.145	0.903	ug/L
|	Co	59	3904.972	0.00	0.6045	0.025	4.114	ug/L
|	Ni	60	5574.454	0.01	4.1273	0.713	17.285	ug/L
|	Cu	65	2336.059	0.00	1.4328	0.266	18.545	ug/L
|	Zn	66	13680.237	0.01	12.3478	2.936	23.780	ug/L
|>	Ge	72	1032246.699	1032246.70				ug/L
|	As	75	3952.128	0.00	3.4763	0.008	0.240	ug/L
|	Se	77	198.669	-0.00	-2.5182	0.150	5.959	ug/L
⌊	Se	82	155.605	0.00	0.3318	0.030	9.167	ug/L
	Y	89	784525.200	-76103.86				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	266.941	0.00	0.0466	0.041	88.496	ug/L
|	Cd	114	96.761	0.00	0.0280	0.005	18.975	ug/L
|>	In	115	923848.520	923848.52				ug/L
⌊	Sb	123	1030.771	0.00	0.3535	0.008	2.293	ug/L
⌈	Ba	135	12556.937	0.02	15.9655	1.340	8.396	ug/L
|	Ce	140	32072.405	0.04				ug/L
|>	Tb	159	732050.306	732050.31				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	142.336	44.33	0.0101	0.006	61.622	ug/L
|	Tl	205	339.345	104.01	0.0102	0.000	2.776	ug/L
|	Pb	206	6063.186	6003.18	1.6054	0.110	6.842	ug/L
|	Pb	207	4908.845	4885.51	1.5271	0.056	3.689	ug/L
|	Pb	208	23626.024	23434.68	1.5780	0.019	1.208	ug/L
|>	Bi	209	747609.785	747609.79				ug/L
⌈	Na	23	121723446.189	255.02	56.9817	1.979	3.472	mg/L
|	Mg	24	1167218.871	2.45	0.7570	0.092	12.118	mg/L
|	K	39	3827095.115	6.45	0.5913	0.124	21.048	mg/L
|	Ca	43	54541.447	0.11	6.2727	0.485	7.735	mg/L
|	Fe	54	670933.510	1.34	1.3922	0.178	12.759	mg/L
|	Fe	57	207992.815	0.42	1.1048	0.210	18.976	mg/L

⌊> Sc	45	478674.450	478674.45		mg/L
Cl	35	118645.683	-320934.21		mg/L
Kr	83	138.336	-27.67		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		119.681			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.425			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		98.358			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.932			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		95.493			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		119.681			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550210
Report Date/Time: Friday, May 25, 2001 12:05:52

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0550211

Sample Date/Time: Friday, May 25, 2001 12:10:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.495	6015.81				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5359706.725	11.95	2401.2326	222.265	9.256	ug/L
⌊>	Sc-1	45	449393.860	449393.86				ug/L
⌈	V	51	140122.995	0.13	26.1041	1.321	5.060	ug/L
|	Cr	52	37133.425	0.02	5.2534	0.494	9.394	ug/L
|	Cr	53	3667.717	-0.01	-17.3120	2.717	15.696	ug/L
|	Mn	55	109000.634	0.10	13.7370	0.208	1.514	ug/L
|	Co	59	3437.609	0.00	0.5229	0.081	15.478	ug/L
|	Ni	60	3838.248	0.00	2.7898	0.754	27.033	ug/L
|	Cu	65	2836.744	0.00	1.7170	0.300	17.498	ug/L
|	Zn	66	32072.170	0.03	28.4448	2.249	7.908	ug/L
|>	Ge	72	1049878.961	1049878.96				ug/L
|	As	75	2210.893	0.00	1.8786	0.131	6.997	ug/L
|	Se	77	225.337	-0.00	-2.2643	0.205	9.075	ug/L
⌊	Se	82	141.105	0.00	0.1924	0.149	77.412	ug/L
	Y	89	826066.282	-34562.78				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.469	0.00	0.0202	0.030	151.137	ug/L
|	Cd	114	81.580	0.00	0.0228	0.005	22.684	ug/L
|>	In	115	922967.227	922967.23				ug/L
⌊	Sb	123	960.427	0.00	0.3293	0.006	1.957	ug/L
⌈	Ba	135	11621.059	0.02	14.4451	0.779	5.391	ug/L
|	Ce	140	39111.888	0.05				ug/L
⌊>	Tb	159	749475.544	749475.54				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	127.002	29.00	0.0066	0.003	46.648	ug/L
|	Tl	205	318.677	83.34	0.0082	0.002	24.040	ug/L
|	Pb	206	4658.651	4598.65	1.2298	0.020	1.648	ug/L
|	Pb	207	3938.150	3914.81	1.2237	0.092	7.480	ug/L
|	Pb	208	18203.019	18011.68	1.2129	0.022	1.824	ug/L
⌊>	Bi	209	757310.042	757310.04				ug/L
⌈	Na	23	138768172.034	310.09	69.2873	8.934	12.894	mg/L
|	Mg	24	1336303.446	2.98	0.9180	0.085	9.228	mg/L
|	K	39	3567386.493	6.29	0.5767	0.089	15.490	mg/L
|	Ca	43	113902.438	0.25	13.9707	1.268	9.073	mg/L
|	Fe	54	561321.533	1.17	1.2186	0.072	5.891	mg/L
|	Fe	57	195985.738	0.42	1.0931	0.053	4.837	mg/L

> Sc	45	449393.860	449393.86		mg/L
Cl	35	162159.860	-277420.03		mg/L
Kr	83	146.003	-20.00		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		112.360			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.140			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		98.264			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.263			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		96.732			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		112.360			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0550211
Report Date/Time: Friday, May 25, 2001 12:11:00

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0552501

Sample Date/Time: Friday, May 25, 2001 12:15:19
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.955	3342.27				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	751573.623	1.60	321.9686	9.379	2.913	ug/L
|>	Sc-1	45	466790.191	466790.19				ug/L
⌈	V	51	10958.023	0.01	1.8464	0.265	14.366	ug/L
|	Cr	52	17672.874	0.00	1.0373	0.228	22.025	ug/L
|	Cr	53	3334.174	-0.01	-18.0856	2.105	11.639	ug/L
|	Mn	55	3886698.218	3.58	479.9986	20.187	4.206	ug/L
|	Co	59	1868.786	0.00	0.2724	0.055	20.202	ug/L
|	Ni	60	3203.927	0.00	2.2465	0.263	11.696	ug/L
|	Cu	65	2636.489	0.00	1.5394	0.495	32.157	ug/L
|	Zn	66	228960.030	0.21	196.6510	16.681	8.482	ug/L
|>	Ge	72	1084470.293	1084470.29				ug/L
|	As	75	1090.197	0.00	0.8558	0.030	3.512	ug/L
|	Se	77	193.336	-0.00	-2.6796	0.357	13.307	ug/L
⌊	Se	82	184.077	0.00	0.4964	0.112	22.601	ug/L
	Y	89	939802.310	79173.25				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	66.734	0.00	0.0061	0.011	178.900	ug/L
|	Cd	114	180.044	0.00	0.0533	0.004	6.600	ug/L
|>	In	115	974372.274	974372.27				ug/L
⌊	Sb	123	495.708	0.00	0.1587	0.010	6.228	ug/L
⌈	Ba	135	6910.271	0.01	8.1371	0.383	4.704	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	786069.263	786069.26				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	84.335	-13.67	-0.0031	0.001	40.299	ug/L
|	Tl	205	226.673	-8.67	-0.0008	0.001	142.411	ug/L
|	Pb	206	4014.863	3954.86	1.0576	0.029	2.787	ug/L
|	Pb	207	3414.491	3391.16	1.0600	0.017	1.625	ug/L
|	Pb	208	15883.105	15691.76	1.0566	0.014	1.363	ug/L
|>	Bi	209	778920.587	778920.59				ug/L
⌈	Na	23	49068150.161	105.22	23.5096	0.918	3.906	mg/L
|	Mg	24	21455950.476	46.10	14.2211	1.354	9.523	mg/L
|	K	39	37628893.722	79.21	7.2596	0.888	12.231	mg/L
|	Ca	43	230684.798	0.49	27.2297	2.466	9.055	mg/L
|	Fe	54	16990093.555	36.37	37.8869	3.425	9.040	mg/L
|	Fe	57	6872746.269	14.71	38.2809	0.874	2.283	mg/L

Sc	45	466790.191	466790.19		mg/L
Cl	35	489556.794	49976.91		mg/L
Kr	83	139.336	-26.67		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		116.710			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		105.506			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		103.737			
Sb	123					
Ba	135					
Ce	140					
Tb	159		105.158			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.492			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		116.710			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552501
Report Date/Time: Friday, May 25, 2001 12:16:08

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Mn 55 Upper, S, EEE	Mn	55
Se 77 Lower	Se	77
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: 0552604

Sample Date/Time: Friday, May 25, 2001 12:20:27
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18022.849	2004.16				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	50511.789	0.09	18.8238	2.460	13.068	ug/L
⌊>	Sc-1	45	493150.097	493150.10				ug/L
⌈	V	51	5214.055	0.00	0.8129	0.720	88.514	ug/L
|	Cr	52	18342.013	0.01	1.1996	0.393	32.766	ug/L
|	Cr	53	2333.777	-0.01	-19.8631	2.099	10.568	ug/L
|	Mn	55	13961.089	0.01	1.5673	0.244	15.590	ug/L
|	Co	59	1368.168	0.00	0.1996	0.031	15.666	ug/L
|	Ni	60	800.856	0.00	0.5467	0.328	59.915	ug/L
|	Cu	65	1902.185	0.00	1.1086	0.481	43.430	ug/L
|	Zn	66	14683.816	0.01	12.6981	5.770	45.442	ug/L
| >	Ge	72	1076725.842	1076725.84				ug/L
|	As	75	71.556	-0.00	-0.0154	0.033	215.597	ug/L
|	Se	77	147.335	-0.00	-3.1557	0.124	3.933	ug/L
⌊	Se	82	130.213	0.00	0.0739	0.008	11.400	ug/L
	Y	89	923398.998	62769.93				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	26508.980	0.03	5.0727	0.240	4.736	ug/L
|	Cd	114	44.716	0.00	0.0095	0.004	45.388	ug/L
| >	In	115	962089.199	962089.20				ug/L
⌊	Sb	123	94.857	0.00	0.0270	0.001	2.605	ug/L
⌈	Ba	135	333.675	0.00	0.3413	0.052	15.170	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	809438.606	809438.61				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	81.335	-16.67	-0.0038	0.001	24.249	ug/L
|	Tl	205	174.337	-61.00	-0.0060	0.002	27.545	ug/L
|	Pb	206	1190.218	1130.21	0.3022	0.012	3.858	ug/L
|	Pb	207	1046.849	1023.51	0.3199	0.039	12.141	ug/L
|	Pb	208	4756.203	4564.86	0.3074	0.013	4.112	ug/L
⌊>	Bi	209	788644.237	788644.24				ug/L
⌈	Na	23	377408.234	0.75	0.1669	0.006	3.629	mg/L
|	Mg	24	156022.345	0.31	0.0966	0.003	3.039	mg/L
|	K	39	886092.624	0.15	0.0134	0.021	153.507	mg/L
|	Ca	43	2333.823	0.00	0.2108	0.161	76.437	mg/L
|	Fe	54	319530.701	0.57	0.5918	0.037	6.288	mg/L
|	Fe	57	77092.717	0.14	0.3657	0.098	26.927	mg/L

└> Sc	45	493150.097	493150.10		mg/L
Cl	35	64289.004	-375290.88		mg/L
Kr	83	140.336	-25.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
┌ Be	9					
│ Al	27					
└> Sc-1	45		123.301			
┌ V	51					
│ Cr	52					
│ Cr	53					
│ Mn	55					
│ Co	59					
│ Ni	60					
│ Cu	65					
│ Zn	66					
│> Ge	72		104.752			
│ As	75					
│ Se	77					
└ Se	82					
Y	89					
┌ Rh	103					
│ Ag	107					
│ Cd	114					
│> In	115		102.429			
└ Sb	123					
┌ Ba	135					
│ Ce	140					
└> Tb	159		108.284			
┌ Ho	165					
│ Tl	203					
│ Tl	205					
│ Pb	206					
│ Pb	207					
│ Pb	208					
└> Bi	209		100.734			
┌ Na	23					
│ Mg	24					
│ K	39					
│ Ca	43					
│ Fe	54					
│ Fe	57					
└> Sc	45		123.301			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552604
Report Date/Time: Friday, May 25, 2001 12:21:17

Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0540411

Sample Date/Time: Friday, May 25, 2001 12:25:36
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17020.582	1001.89				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	130885.162	0.27	53.4505	13.692	25.617	ug/L
⌊>	Sc-1	45	480407.644	480407.64				ug/L
⌈	V	51	3598.811	0.00	0.5206	0.354	68.036	ug/L
|	Cr	52	14763.337	0.00	0.4786	0.117	24.457	ug/L
|	Cr	53	1666.877	-0.01	-21.0631	1.050	4.985	ug/L
|	Mn	55	4706.272	0.00	0.4182	0.076	18.098	ug/L
|	Co	59	1234.685	0.00	0.1803	0.071	39.395	ug/L
|	Ni	60	333.676	0.00	0.2141	0.110	51.179	ug/L
|	Cu	65	300.307	0.00	0.1401	0.061	43.463	ug/L
|	Zn	66	6336.906	0.01	5.5030	3.515	63.877	ug/L
|>	Ge	72	1072389.706	1072389.71				ug/L
|	As	75	81.700	-0.00	-0.0064	0.073	1133.224	ug/L
|	Se	77	186.669	-0.00	-2.7295	0.121	4.433	ug/L
⌊	Se	82	112.473	-0.00	-0.0650	0.126	193.636	ug/L
	Y	89	831733.933	-28895.13				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0000	0.011	27288.640	ug/L
|	Cd	114	22.660	0.00	0.0023	0.003	145.642	ug/L
|>	In	115	961837.429	961837.43				ug/L
⌊	Sb	123	153.483	0.00	0.0466	0.004	9.201	ug/L
⌈	Ba	135	467.160	0.00	0.5310	0.560	105.507	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	762114.245	762114.25				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	39.334	-58.67	-0.0134	0.000	3.548	ug/L
|	Tl	205	81.668	-153.67	-0.0151	0.001	3.976	ug/L
|	Pb	206	376.714	316.71	0.0847	0.009	10.151	ug/L
|	Pb	207	406.719	383.38	0.1198	0.010	8.386	ug/L
|	Pb	208	1583.153	1391.81	0.0937	0.001	1.443	ug/L
⌊>	Bi	209	786810.060	786810.06				ug/L
⌈	Na	23	377840.794	0.77	0.1717	0.015	8.795	mg/L
|	Mg	24	155689.641	0.32	0.0990	0.003	2.861	mg/L
|	K	39	777555.958	-0.02	-0.0019	0.015	768.210	mg/L
|	Ca	43	4334.664	0.01	0.4577	0.104	22.710	mg/L
|	Fe	54	133843.577	0.20	0.2108	0.054	25.845	mg/L
|	Fe	57	14015.184	0.01	0.0326	0.032	96.776	mg/L

> Sc	45	480407.644	480407.64		mg/L
Cl	35	78094.653	-361485.24		mg/L
Kr	83	139.003	-27.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		120.115			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.330			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		102.402			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		101.954			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		100.500			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		120.115			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411
Report Date/Time: Friday, May 25, 2001 12:26:26

Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 12:30:45
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18693.636	2674.95				ug/L
[	Be	9	17304.965	0.04	54.6593	3.701	6.771	ug/L
|	Al	27	315856.989	0.69	55.2610	0.101	0.183	ug/L
L>	Sc-1	45	453323.054	453323.05				ug/L
[	V	51	774625.280	0.73	57.6341	2.308	4.005	ug/L
|	Cr	52	673771.851	0.63	55.2949	1.796	3.248	ug/L
|	Cr	53	74389.298	0.06	45.4263	7.106	15.643	ug/L
|	Mn	55	1032952.160	0.98	52.3397	1.390	2.656	ug/L
|	Co	59	808283.459	0.77	49.3395	1.079	2.188	ug/L
|	Ni	60	176632.882	0.17	51.4041	2.110	4.105	ug/L
|	Cu	65	202772.276	0.19	50.0015	1.712	3.423	ug/L
|	Zn	66	131908.100	0.12	46.4504	9.340	20.107	ug/L
| >	Ge	72	1056437.235	1056437.23				ug/L
|	As	75	136443.959	0.13	47.9339	1.250	2.608	ug/L
|	Se	77	11459.855	0.01	47.7854	0.887	1.857	ug/L
L	Se	82	14769.482	0.01	48.0201	1.003	2.089	ug/L
	Y	89	842278.211	-18350.85				ug/L
[	Rh	103	0.000	0.00				ug/L
|	Ag	107	616542.404	0.68	50.0791	1.650	3.295	ug/L
|	Cd	114	359624.336	0.40	50.1131	0.688	1.373	ug/L
| >	In	115	907997.591	907997.59				ug/L
L	Sb	123	341956.488	0.38	48.3470	0.489	1.011	ug/L
[	Ba	135	99453.602	0.13	49.0247	3.486	7.111	ug/L
|	Ce	140	0.000	0.00				ug/L
L>	Tb	159	759590.574	759590.57				ug/L
[	Ho	165	0.000	0.00				ug/L
|	Tl	203	517586.821	517488.82	47.3728	0.296	0.626	ug/L
|	Tl	205	1309956.817	1309721.48	51.3739	0.074	0.144	ug/L
|	Pb	206	489503.758	489443.75	52.3556	0.820	1.566	ug/L
|	Pb	207	370131.573	370108.24	46.2763	0.659	1.424	ug/L
|	Pb	208	1804759.307	1804567.96	48.6056	0.183	0.378	ug/L
L>	Bi	209	761359.471	761359.47				ug/L
[	Na	23	28407876.409	62.50	5.5861	0.368	6.592	mg/L
|	Mg	24	21733360.744	47.97	5.9192	0.104	1.750	mg/L
|	K	39	65100294.661	142.24	5.2144	0.219	4.195	mg/L
|	Ca	43	104427.126	0.23	5.0644	0.142	2.799	mg/L
|	Fe	54	4928946.677	10.80	4.5020	0.106	2.357	mg/L
|	Fe	57	2138269.796	4.71	4.9036	0.324	6.613	mg/L

Sc	45	453323.054	453323.05		mg/L
Cl	35	41788.660	-397791.23		mg/L
Kr	83	143.003	-23.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	109.319				
Al	27	110.522				
Sc-1	45		113.343			
V	51	115.268				
Cr	52	110.590				
Cr	53	90.853				
Mn	55	104.679				
Co	59	98.679				
Ni	60	102.808				
Cu	65	100.003				
Zn	66	92.901				
Ge	72		102.778			
As	75	95.868				
Se	77	95.571				
Se	82	96.040				
Y	89					
Rh	103					
Ag	107	100.158				
Cd	114	100.226				
In	115		96.670			
Sb	123	96.694				
Ba	135	98.049				
Ce	140					
Tb	159		101.616			
Ho	165					
Tl	203	94.746				
Tl	205	102.748				
Pb	206	104.711				
Pb	207	92.553				
Pb	208	97.211				
Bi	209		97.249			
Na	23	111.721				
Mg	24	118.383				
K	39	104.288				
Ca	43	101.287				
Fe	54	90.041				
Fe	57	98.072				
Sc	45		113.343			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 12:31:35

QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	52	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 12:35:53
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15684.819	-333.87				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	5335.901	0.00	0.3164	0.742	234.377	ug/L
⌊>	Sc-1	45	421101.483	421101.48				ug/L
⌈	V	51	3205.575	0.00	0.1877	0.180	95.783	ug/L
|	Cr	52	14228.836	0.00	0.1809	0.297	164.076	ug/L
|	Cr	53	1000.210	-0.01	-8.9004	1.281	14.390	ug/L
|	Mn	55	500.519	-0.00	-0.0423	0.009	20.384	ug/L
|	Co	59	0.000	-0.00	-0.0021	0.000	0.000	ug/L
|	Ni	60	33.367	0.00	0.0001	0.017	20488.294	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1046511.900	1046511.90				ug/L
|	As	75	104.563	0.00	0.0065	0.017	267.742	ug/L
|	Se	77	147.335	-0.00	-1.2453	0.077	6.211	ug/L
⌊	Se	82	113.060	-0.00	-0.0152	0.011	72.443	ug/L
	Y	89	821396.906	-39232.16				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0026	0.000	0.000	ug/L
|	Cd	114	15.132	0.00	0.0001	0.001	1177.908	ug/L
|>	In	115	904982.162	904982.16				ug/L
⌊	Sb	123	1073.693	0.00	0.1504	0.004	2.381	ug/L
⌈	Ba	135	33.367	0.00	0.0007	0.030	4133.850	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	690911.571	690911.57				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	44.001	-54.00	-0.0049	0.000	7.407	ug/L
|	Tl	205	84.668	-150.67	-0.0059	0.000	2.682	ug/L
|	Pb	206	83.342	23.34	0.0025	0.004	150.509	ug/L
|	Pb	207	26.669	3.33	0.0004	0.001	346.412	ug/L
|	Pb	208	226.680	35.34	0.0010	0.001	69.577	ug/L
⌊>	Bi	209	749452.977	749452.98				ug/L
⌈	Na	23	7337.863	-0.00	-0.0001	0.001	608.917	mg/L
|	Mg	24	1333.520	-0.00	-0.0000	0.000	1066.413	mg/L
|	K	39	793523.231	0.25	0.0091	0.009	101.013	mg/L
|	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
|	Fe	54	40718.410	0.02	0.0076	0.008	111.505	mg/L
|	Fe	57	13346.086	0.01	0.0155	0.004	28.590	mg/L

⌊> Sc	45	421101.483	421101.48			mg/L
Cl	35	30064.448	-409515.44			mg/L
Kr	83	136.003	-30.00			mg/L
U	238	0.000	0.00			mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
⌊> Sc-1	45		105.287			
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72		101.813			
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115		96.349			
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
⌊> Tb	159		92.428			
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
⌊> Bi	209		95.728			
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
⌊> Sc	45		105.287			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 12:36:41

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0543313

Sample Date/Time: Friday, May 25, 2001 12:41:01
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 31
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15351.557	-667.13				ug/L
⌈	Be	9	200.203	0.00	1.4005	0.639	45.648	ug/L
|	Al	27	31753965.328	62.83	12625.4230	229.399	1.817	ug/L
⌊>	Sc-1	45	505302.799	505302.80				ug/L
⌈	V	51	392768.150	0.38	74.0670	4.447	6.004	ug/L
|	Cr	52	70179.679	0.06	12.3227	0.353	2.866	ug/L
|	Cr	53	8672.317	-0.00	-7.8299	5.374	68.630	ug/L
|	Mn	55	1029697.308	0.99	132.3587	7.173	5.419	ug/L
|	Co	59	20248.971	0.02	3.1297	0.199	6.347	ug/L
|	Ni	60	15231.566	0.01	11.2248	1.290	11.492	ug/L
|	Cu	65	10284.342	0.01	6.3930	0.062	0.972	ug/L
|	Zn	66	53534.953	0.05	47.8919	5.451	11.381	ug/L
|>	Ge	72	1040854.160	1040854.16				ug/L
|	As	75	4612.817	0.00	4.0363	0.072	1.774	ug/L
|	Se	77	244.671	-0.00	-2.0318	0.186	9.131	ug/L
⌊	Se	82	216.050	0.00	0.8242	0.128	15.514	ug/L
	Y	89	948827.968	88198.90				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	300.307	0.00	0.0523	0.020	38.597	ug/L
|	Cd	114	433.318	0.00	0.1402	0.003	2.409	ug/L
|>	In	115	942832.802	942832.80				ug/L
⌊	Sb	123	1379.827	0.00	0.4651	0.010	2.121	ug/L
⌈	Ba	135	116560.818	0.16	147.6979	8.388	5.679	ug/L
|	Ce	140	247600.603	0.34				ug/L
⌊>	Tb	159	736567.693	736567.69				ug/L
⌈	Ho	165	3334.220	3334.22				ug/L
|	Tl	203	512.023	414.02	0.0948	0.005	4.758	ug/L
|	Tl	205	1351.141	1115.80	0.1094	0.003	2.586	ug/L
|	Pb	206	35387.661	35327.65	9.4475	0.179	1.894	ug/L
|	Pb	207	29540.579	29517.24	9.2267	0.108	1.171	ug/L
|	Pb	208	139291.739	139100.39	9.3666	0.056	0.594	ug/L
⌊>	Bi	209	754533.930	754533.93				ug/L
⌈	Na	23	132742258.856	263.91	58.9675	8.212	13.926	mg/L
|	Mg	24	5655123.917	11.17	3.4447	0.252	7.329	mg/L
|	K	39	11080901.219	20.35	1.8653	0.164	8.770	mg/L
|	Ca	43	537212.608	1.07	58.8880	7.744	13.150	mg/L
|	Fe	54	2647960.299	5.18	5.3932	0.538	9.979	mg/L
|	Fe	57	1127521.308	2.22	5.7827	0.501	8.659	mg/L

Sc	45	505302.799	505302.80		mg/L
Cl	35	131876.525	-307703.36		mg/L
Kr	83	163.337	-2.67		mg/L
U	238	2333.823	2333.82		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		126.339			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.262			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		100.379			
Sb	123					
Ba	135					
Ce	140					
Tb	159		98.536			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		96.377			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		126.339			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543313
Report Date/Time: Friday, May 25, 2001 12:41:51

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Ca 43 Upper, S, EEE	Ca	43
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543314

Sample Date/Time: Friday, May 25, 2001 12:46:11
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 32
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16017.987	-0.70				ug/L
⌈	Be	9	33.367	0.00	0.2579	0.447	173.205	ug/L
|	Al	27	8900175.853	18.95	3808.4542	175.536	4.609	ug/L
\>	Sc-1	45	469260.999	469261.00				ug/L
⌈	V	51	258973.017	0.24	47.7816	1.843	3.856	ug/L
|	Cr	52	34719.102	0.02	4.6581	0.590	12.656	ug/L
|	Cr	53	5335.387	-0.01	-14.2743	2.191	15.347	ug/L
|	Mn	55	140441.643	0.13	17.5458	0.953	5.434	ug/L
|	Co	59	4071.902	0.00	0.6125	0.040	6.500	ug/L
|	Ni	60	3904.991	0.00	2.8007	0.476	17.007	ug/L
|	Cu	65	3404.218	0.00	2.0438	0.136	6.672	ug/L
|	Zn	66	19696.418	0.02	17.2189	6.433	37.362	ug/L
\>	Ge	72	1062214.773	1062214.77				ug/L
|	As	75	3663.841	0.00	3.1246	0.075	2.413	ug/L
|	Se	77	233.337	-0.00	-2.2064	0.269	12.199	ug/L
⌊	Se	82	209.042	0.00	0.7309	0.112	15.325	ug/L
	Y	89	918391.779	57762.72				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0130	0.020	149.970	ug/L
|	Cd	114	113.174	0.00	0.0327	0.001	3.349	ug/L
\>	In	115	946396.112	946396.11				ug/L
⌊	Sb	123	811.946	0.00	0.2707	0.009	3.195	ug/L
⌈	Ba	135	14094.648	0.02	16.7017	2.555	15.300	ug/L
|	Ce	140	50511.977	0.06				ug/L
\>	Tb	159	795409.225	795409.22				ug/L
⌈	Ho	165	666.760	666.76				ug/L
|	Tl	203	184.338	86.34	0.0198	0.003	15.555	ug/L
|	Tl	205	461.019	225.68	0.0221	0.001	3.517	ug/L
|	Pb	206	8365.738	8305.73	2.2212	0.090	4.072	ug/L
|	Pb	207	6877.335	6854.00	2.1425	0.098	4.566	ug/L
|	Pb	208	32782.089	32590.75	2.1946	0.013	0.595	ug/L
\>	Bi	209	755387.209	755387.21				ug/L
⌈	Na	23	120173925.657	256.13	57.2300	2.800	4.893	mg/L
|	Mg	24	1803579.817	3.84	1.1853	0.052	4.372	mg/L
|	K	39	4743289.421	8.46	0.7749	0.042	5.451	mg/L
|	Ca	43	94960.500	0.20	11.1174	0.329	2.957	mg/L
|	Fe	54	1082803.715	2.23	2.3214	0.055	2.383	mg/L
|	Fe	57	370455.400	0.77	2.0080	0.214	10.660	mg/L

L> Sc	45	469260.999	469261.00			mg/L
Cl	35	123410.150	-316169.74			mg/L
Kr	83	146.336	-19.67			mg/L
U	238	1666.970	1666.97			mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		117.328			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		103.340			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		100.759			
Sb	123					
Ba	135					
Ce	140					
Tb	159		106.408			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		96.486			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		117.328			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543314
Report Date/Time: Friday, May 25, 2001 12:47:01

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543315

Sample Date/Time: Friday, May 25, 2001 12:51:20
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 33
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20364.205	4345.52				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	15025554.967	28.22	5669.4713	936.874	16.525	ug/L
⌊>	Sc-1	45	539476.878	539476.88				ug/L
⌈	V	51	222196.502	0.21	41.5978	1.127	2.710	ug/L
|	Cr	52	43408.319	0.03	6.5974	0.541	8.204	ug/L
|	Cr	53	4668.207	-0.01	-15.3910	1.012	6.573	ug/L
|	Mn	55	165978.277	0.16	21.0598	1.435	6.816	ug/L
|	Co	59	4439.183	0.00	0.6784	0.129	19.059	ug/L
|	Ni	60	5874.989	0.01	4.2835	0.580	13.538	ug/L
|	Cu	65	3804.890	0.00	2.3275	0.796	34.218	ug/L
|	Zn	66	29059.741	0.03	25.8352	3.346	12.953	ug/L
| >	Ge	72	1046704.563	1046704.56				ug/L
|	As	75	3631.776	0.00	3.1438	0.095	3.030	ug/L
|	Se	77	234.004	-0.00	-2.1612	0.218	10.091	ug/L
⌊	Se	82	216.071	0.00	0.8141	0.101	12.389	ug/L
	Y	89	880497.452	19868.39				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	200.203	0.00	0.0336	0.020	60.538	ug/L
|	Cd	114	148.074	0.00	0.0456	0.003	5.706	ug/L
| >	In	115	923211.422	923211.42				ug/L
⌊	Sb	123	1671.523	0.00	0.5764	0.008	1.327	ug/L
⌈	Ba	135	12623.872	0.02	14.5410	1.051	7.225	ug/L
|	Ce	140	41789.789	0.05				ug/L
⌊>	Tb	159	804654.367	804654.37				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	259.007	161.01	0.0368	0.009	24.775	ug/L
|	Tl	205	648.036	412.70	0.0405	0.002	4.449	ug/L
|	Pb	206	9527.303	9467.30	2.5318	0.039	1.526	ug/L
|	Pb	207	8182.182	8158.85	2.5503	0.169	6.636	ug/L
|	Pb	208	38261.882	38070.54	2.5636	0.046	1.789	ug/L
⌊>	Bi	209	741643.632	741643.63				ug/L
⌈	Na	23	122584290.928	228.44	51.0418	4.270	8.366	mg/L
|	Mg	24	2710529.501	5.06	1.5613	0.168	10.747	mg/L
|	K	39	5792945.103	9.17	0.8408	0.125	14.917	mg/L
|	Ca	43	113569.960	0.21	11.6264	1.314	11.299	mg/L
|	Fe	54	1436312.990	2.63	2.7351	0.568	20.749	mg/L
|	Fe	57	525314.397	0.97	2.5124	0.280	11.152	mg/L

\> Sc	45	539476.878	539476.88		mg/L
Cl	35	175473.140	-264106.75		mg/L
Kr	83	137.669	-28.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		134.884			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		101.831			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		98.290			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		107.644			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		94.731			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		134.884			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543315
Report Date/Time: Friday, May 25, 2001 12:52:11

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543316

Sample Date/Time: Friday, May 25, 2001 12:56:31
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 34
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18691.293	2672.60				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	7371893.764	14.90	2994.8280	337.600	11.273	ug/L
|>	Sc-1	45	494908.846	494908.85				ug/L
⌈	V	51	53127.328	0.05	9.8750	0.352	3.566	ug/L
|	Cr	52	38374.623	0.03	5.5584	0.424	7.632	ug/L
|	Cr	53	4001.167	-0.01	-16.6028	1.893	11.399	ug/L
|	Mn	55	47773.782	0.04	5.9653	0.320	5.358	ug/L
|	Co	59	2636.460	0.00	0.4022	0.048	11.946	ug/L
|	Ni	60	4272.223	0.00	3.1224	0.311	9.967	ug/L
|	Cu	65	2603.122	0.00	1.5824	0.614	38.825	ug/L
|	Zn	66	39777.930	0.04	35.5165	3.852	10.847	ug/L
|>	Ge	72	1043171.068	1043171.07				ug/L
|	As	75	1338.977	0.00	1.1141	0.079	7.094	ug/L
|	Se	77	200.670	-0.00	-2.5193	0.319	12.650	ug/L
⌊	Se	82	147.293	0.00	0.2491	0.099	39.791	ug/L
	Y	89	894451.844	33822.78				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.571	0.00	0.0407	0.023	57.404	ug/L
|	Cd	114	62.971	0.00	0.0167	0.003	17.157	ug/L
|>	In	115	911124.282	911124.28				ug/L
⌊	Sb	123	4375.234	0.00	1.5367	0.045	2.906	ug/L
⌈	Ba	135	4639.517	0.01	5.2597	0.645	12.262	ug/L
|	Ce	140	53203.215	0.07				ug/L
|>	Tb	159	811490.924	811490.92				ug/L
⌈	Ho	165	1000.070	1000.07				ug/L
|	Tl	203	140.669	42.67	0.0098	0.002	16.955	ug/L
|	Tl	205	350.345	115.01	0.0113	0.001	5.658	ug/L
|	Pb	206	15334.653	15274.65	4.0848	0.136	3.318	ug/L
|	Pb	207	13226.896	13203.56	4.1272	0.114	2.768	ug/L
|	Pb	208	61960.120	61768.78	4.1593	0.055	1.314	ug/L
|>	Bi	209	735244.843	735244.84				ug/L
⌈	Na	23	180949564.278	365.44	81.6553	6.707	8.213	mg/L
|	Mg	24	1110969.579	2.24	0.6914	0.034	4.936	mg/L
|	K	39	6564856.842	11.61	1.0643	0.021	2.002	mg/L
|	Ca	43	22034.542	0.04	2.4107	0.416	17.252	mg/L
|	Fe	54	713920.163	1.36	1.4215	0.185	13.028	mg/L
|	Fe	57	249634.417	0.49	1.2704	0.113	8.919	mg/L

Sc	45	494908.846	494908.85		mg/L
Cl	35	344101.236	-95478.65		mg/L
Kr	83	143.336	-22.67		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		123.740			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.488			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		97.003			
Sb	123					
Ba	135					
Ce	140					
Tb	159		108.559			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		93.913			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		123.740			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543316
Report Date/Time: Friday, May 25, 2001 12:57:21

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 13:01:41
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16686.899	668.21				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	66252100.499	155.17	12471.5952	372.828	2.989	ug/L
⌊>	Sc-1	45	426722.296	426722.30				ug/L
⌈	V	51	4912.027	0.00	0.3206	0.210	65.347	ug/L
|	Cr	52	17907.047	0.01	0.5168	0.119	22.992	ug/L
|	Cr	53	4001.868	-0.01	-6.6019	3.029	45.877	ug/L
|	Mn	55	7845.537	0.01	0.3416	0.056	16.374	ug/L
|	Co	59	1234.677	0.00	0.0754	0.013	16.984	ug/L
|	Ni	60	2302.677	0.00	0.6794	0.077	11.333	ug/L
|	Cu	65	1434.919	0.00	0.3472	0.096	27.562	ug/L
|	Zn	66	2667.180	0.00	0.9676	0.207	21.432	ug/L
|>	Ge	72	1026365.557	1026365.56				ug/L
|	As	75	137.122	0.00	0.0189	0.055	291.875	ug/L
|	Se	77	517.352	0.00	0.4194	0.055	13.171	ug/L
⌊	Se	82	121.495	0.00	0.0208	0.065	310.099	ug/L
	Y	89	795317.055	-65312.01				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0057	0.000	2.007	ug/L
|	Cd	114	2381.606	0.00	0.3387	0.009	2.672	ug/L
|>	In	115	884483.603	884483.60				ug/L
⌊	Sb	123	836.859	0.00	0.1197	0.006	4.824	ug/L
⌈	Ba	135	333.677	0.00	0.1536	0.134	86.998	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	764718.041	764718.04				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	83.335	-14.67	-0.0013	0.001	77.540	ug/L
|	Tl	205	199.005	-36.33	-0.0014	0.001	35.139	ug/L
|	Pb	206	1563.662	1503.66	0.1608	0.016	9.875	ug/L
|	Pb	207	1260.238	1236.90	0.1547	0.015	9.838	ug/L
|	Pb	208	6022.648	5831.30	0.1571	0.003	1.740	ug/L
⌊>	Bi	209	732649.813	732649.81				ug/L
⌈	Na	23	137907327.294	323.76	28.9361	2.026	7.001	mg/L
|	Mg	24	39577198.345	92.78	11.4491	0.620	5.414	mg/L
|	K	39	130662293.539	305.07	11.1839	0.728	6.507	mg/L
|	Ca	43	652418.908	1.53	33.7545	4.478	13.265	mg/L
|	Fe	54	21878225.477	51.26	21.3583	1.323	6.194	mg/L
|	Fe	57	9627753.640	22.58	23.4986	1.243	5.290	mg/L

\> Sc	45	426722.296	426722.30		mg/L
Cl	35	6218060.843	5778480.96		mg/L
Kr	83	174.671	8.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	124.716				
|>	Sc-1	45		106.692			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.853			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		94.167			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.302			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		93.582			
⌈	Na	23	115.744				
|	Mg	24	114.491				
|	K	39	111.839				
|	Ca	43	112.515				
|	Fe	54	85.433				
|	Fe	57	93.994				
⌊>	Sc	45		106.692			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 13:02:31

QC Std 4	Al	27	ICSA is out of limits (+/-20%)

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 13:06:51
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21033.353	5014.66				ug/L
[	Be	9	33.367	0.00	0.1196	0.207	173.205	ug/L
|	Al	27	66840136.894	169.85	13651.3983	1196.366	8.764	ug/L
L>	Sc-1	45	393553.079	393553.08				ug/L
[	V	51	300662.572	0.30	23.4011	0.802	3.428	ug/L
|	Cr	52	266409.113	0.25	22.3134	0.744	3.336	ug/L
|	Cr	53	38772.189	0.03	20.4480	3.030	14.816	ug/L
|	Mn	55	397375.124	0.39	21.0593	0.248	1.178	ug/L
|	Co	59	313966.255	0.31	20.0771	0.522	2.601	ug/L
|	Ni	60	72471.779	0.07	22.0879	0.855	3.869	ug/L
|	Cu	65	72336.751	0.07	18.6834	0.753	4.032	ug/L
|	Zn	66	31069.436	0.03	11.4987	2.563	22.293	ug/L
|								ug/L
| >	Ge	72	1007868.242	1007868.24				ug/L
|	As	75	25664.813	0.03	9.4245	0.198	2.100	ug/L
|	Se	77	2521.779	0.00	9.5709	0.387	4.042	ug/L
L	Se	82	2785.324	0.00	9.1793	0.209	2.272	ug/L
	Y	89	789067.552	-71561.51				ug/L
								ug/L
[	Rh	103	66.734	0.00				ug/L
|	Ag	107	56815.254	0.07	4.8232	0.149	3.087	ug/L
|	Cd	114	68308.582	0.08	9.9575	0.306	3.072	ug/L
| >	In	115	867980.414	867980.41				ug/L
L	Sb	123	809.067	0.00	0.1178	0.002	1.666	ug/L
[	Ba	135	233.571	0.00	0.1076	0.028	26.469	ug/L
|	Ce	140	333.357	0.00				ug/L
L>	Tb	159	701301.297	701301.30				ug/L
[	Ho	165	0.000	0.00				ug/L
|	Tl	203	77.335	-20.67	-0.0019	0.000	2.794	ug/L
|	Tl	205	207.005	-28.33	-0.0011	0.000	37.352	ug/L
|	Pb	206	1346.929	1286.92	0.1377	0.007	5.291	ug/L
|	Pb	207	1086.858	1063.52	0.1330	0.011	8.430	ug/L
|	Pb	208	5125.988	4934.64	0.1329	0.004	3.327	ug/L
L>	Bi	209	720167.262	720167.26				ug/L
[	Na	23	139973354.670	355.97	31.8150	2.691	8.459	mg/L
|	Mg	24	39577198.345	100.50	12.4013	0.765	6.168	mg/L
|	K	39	130431441.431	329.80	12.0904	0.190	1.572	mg/L
|	Ca	43	678865.391	1.73	38.0648	2.941	7.727	mg/L
|	Fe	54	22990309.928	58.34	24.3119	2.914	11.985	mg/L
|	Fe	57	9838256.884	25.00	26.0165	1.490	5.727	mg/L

Sc	45	393553.079	393553.08		mg/L
Cl	35	6006932.819	5567352.93		mg/L
Kr	83	185.338	19.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	136.514				
Sc-1	45			98.399		
V	51	117.005				
Cr	52	111.567				
Cr	53	102.240				
Mn	55	105.297				
Co	59	100.386				
Ni	60	110.440				
Cu	65	93.417				
Zn	66	114.987				
Ge	72			98.053		
As	75	94.245				
Se	77	95.709				
Se	82	91.793				
Y	89					
Rh	103					
Ag	107	96.465				
Cd	114	99.575				
In	115			92.410		
Sb	123					
Ba	135					
Ce	140					
Tb	159			93.818		
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209			91.988		
Na	23	127.260				
Mg	24	124.013				
K	39	120.904				
Ca	43	126.883				
Fe	54	97.247				
Fe	57	104.066				
Sc	45			98.399		
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 13:07:41

QC Std 5	Al	27	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	Na	23	ICSAB is out of limits {+/-20%}
QC Std 5	Mg	24	ICSAB is out of limits {+/-20%}
QC Std 5	K	39	ICSAB is out of limits {+/-20%}
QC Std 5	Ca	43	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 13:12:01
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19359.830	3341.14				ug/L
⌈	Be	9	17907.047	0.04	59.1883	7.640	12.908	ug/L
|	Al	27	338889.727	0.78	62.3199	9.715	15.589	ug/L
⌊>	Sc-1	45	435256.544	435256.54				ug/L
⌈	V	51	756748.404	0.74	57.9043	0.940	1.624	ug/L
|	Cr	52	644498.553	0.62	54.4020	2.747	5.049	ug/L
|	Cr	53	80118.572	0.07	51.2601	7.160	13.968	ug/L
|	Mn	55	1050177.313	1.02	54.7420	1.961	3.582	ug/L
|	Co	59	811618.608	0.79	50.9657	1.929	3.785	ug/L
|	Ni	60	173829.887	0.17	52.0415	2.601	4.998	ug/L
|	Cu	65	197251.124	0.19	50.0228	2.203	4.405	ug/L
|	Zn	66	141728.643	0.14	51.4325	3.579	6.958	ug/L
|>	Ge	72	1026981.613	1026981.61				ug/L
|	As	75	134004.917	0.13	48.4250	1.472	3.039	ug/L
|	Se	77	11292.253	0.01	48.4668	0.990	2.043	ug/L
⌊	Se	82	14668.754	0.01	49.0710	1.518	3.093	ug/L
	Y	89	776024.578	-84604.49				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	609103.081	0.68	50.2790	1.096	2.180	ug/L
|	Cd	114	349814.698	0.39	49.5476	0.991	1.999	ug/L
|>	In	115	893266.054	893266.05				ug/L
⌊	Sb	123	336490.308	0.38	48.3627	0.552	1.141	ug/L
⌈	Ba	135	102025.569	0.14	53.4171	2.035	3.809	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	711790.902	711790.90				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510882.715	510784.71	46.7591	0.411	0.879	ug/L
|	Tl	205	1290453.423	1290218.08	50.6089	0.701	1.386	ug/L
|	Pb	206	479270.311	479210.30	51.2609	0.229	0.447	ug/L
|	Pb	207	364369.936	364346.60	45.5559	0.844	1.852	ug/L
|	Pb	208	1766481.678	1766290.33	47.5746	0.185	0.388	ug/L
⌊>	Bi	209	747768.268	747768.27				ug/L
⌈	Na	23	28235707.461	65.22	5.8294	0.970	16.641	mg/L
|	Mg	24	21042724.763	48.72	6.0116	0.850	14.132	mg/L
|	K	39	73641822.684	168.58	6.1801	0.956	15.464	mg/L
|	Ca	43	111212.026	0.25	5.5978	0.784	14.012	mg/L
|	Fe	54	4778448.282	10.92	4.5495	0.145	3.177	mg/L
|	Fe	57	1988016.150	4.57	4.7594	0.419	8.812	mg/L

|> Sc	45	435256.544	435256.54		mg/L
Cl	35	91248.882	-348331.01		mg/L
Kr	83	145.670	-20.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	118.377				
|	Al	27	124.640				
|>	Sc-1	45		108.826			
⌈	V	51	115.809				
|	Cr	52	108.804				
|	Cr	53	102.520				
|	Mn	55	109.484				
|	Co	59	101.931				
|	Ni	60	104.083				
|	Cu	65	100.046				
|	Zn	66	102.865				
|>	Ge	72		99.913			
|	As	75	96.850				
|	Se	77	96.934				
⌊	Se	82	98.142				
	Y	89					
⌈	Rh	103					
|	Ag	107	100.558				
|	Cd	114	99.095				
|>	In	115		95.102			
⌊	Sb	123	96.725				
⌈	Ba	135	106.834				
|	Ce	140					
|>	Tb	159		95.221			
⌈	Ho	165					
|	Tl	203	93.518				
|	Ti	205	101.218				
|	Pb	206	102.522				
|	Pb	207	91.112				
|	Pb	208	95.149				
|>	Bi	209		95.513			
⌈	Na	23	116.588				
|	Mg	24	120.232				
|	K	39	123.602				
|	Ca	43	111.956				
|	Fe	54	90.991				
|	Fe	57	95.188				
|>	Sc	45		108.826			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 13:12:50

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Mg	24	CCV is out of limits (+/-10%)
QC Std 6	K	39	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 13:17:08
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22368.412	6349.72				ug/L
⌈	Be	9	0.000	0.00	0.0000	0.000		ug/L
|	Al	27	3334.127	-0.00	-0.0961	0.134	139.548	ug/L
⌊>	Sc-1	45	420003.759	420003.76				ug/L
⌈	V	51	5162.068	0.00	0.3393	0.121	35.564	ug/L
|	Cr	52	13693.499	0.00	0.1490	0.066	44.272	ug/L
|	Cr	53	2000.327	-0.01	-8.1171	0.778	9.581	ug/L
|	Mn	55	367.045	-0.00	-0.0487	0.011	22.890	ug/L
|	Co	59	66.734	0.00	0.0021	0.004	174.867	ug/L
|	Ni	60	33.367	-0.00	-0.0001	0.017	22148.921	ug/L
|	Cu	65	33.367	-0.00	-0.0084	0.015	177.516	ug/L
|	Zn	66	0.000	0.00	0.0000	0.000		ug/L
|>	Ge	72	1030227.306	1030227.31				ug/L
|	As	75	128.902	0.00	0.0156	0.018	117.595	ug/L
|	Se	77	147.335	-0.00	-1.2335	0.074	5.967	ug/L
⌊	Se	82	112.524	-0.00	-0.0110	0.011	96.714	ug/L
	Y	89	889023.100	28394.04				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	66.734	0.00	0.0027	0.005	170.616	ug/L
|	Cd	114	22.658	0.00	0.0011	0.000	29.709	ug/L
|>	In	115	906006.766	906006.77				ug/L
⌊	Sb	123	1094.157	0.00	0.1531	0.004	2.852	ug/L
⌈	Ba	135	0.000	-0.00	-0.0166	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	722281.199	722281.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	69.001	-29.00	-0.0027	0.001	48.644	ug/L
|	Tl	205	139.336	-96.00	-0.0038	0.001	13.754	ug/L
|	Pb	206	76.675	16.67	0.0018	0.002	91.652	ug/L
|	Pb	207	63.340	40.00	0.0050	0.003	52.042	ug/L
|	Pb	208	252.683	61.34	0.0017	0.001	70.416	ug/L
⌊>	Bi	209	756550.918	756550.92				ug/L
⌈	Na	23	14014.482	0.02	0.0013	0.001	63.376	mg/L
|	Mg	24	666.713	-0.00	-0.0002	0.000	75.958	mg/L
|	K	39	787701.172	0.23	0.0084	0.006	76.976	mg/L
|	Ca	43	0.000	-0.00	-0.0184	0.000	0.000	mg/L
|	Fe	54	41738.226	0.02	0.0083	0.004	45.701	mg/L
|	Fe	57	10007.893	0.01	0.0076	0.011	146.528	mg/L

└>	Sc	45	420003.759	420003.76	mg/L
	Cl	35	41788.801	-397791.09	mg/L
	Kr	83	150.670	-15.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		105.012			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.228			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		96.458			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		96.625			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		96.635			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		105.012			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 13:17:57

QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Metals

Date: 5/25/01
Analyst: JYH
Method: 6020A
Instrument: PE-Elan
Work Group: ~~97853~~ 98247
98190 JYH 5/25/01

Cal 2

	Analyst
Calibration/Linearity	
ICV/CCV	
ICB/CCB	
icsa/icsab/cri	
Blank/LCS	
MS/MSD	
Postspike/Serial Dilution	
Duplicate	
Record Results	
Excel Spreadsheets	
Results Reporting / Data Qualifiers	
Calculations & Correct Factors	
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data	

Primary Reviewer Initials & Date Checked JYH 5/25/01

Secondary Reviewer Initials & Date Checked MMB 5/29

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/29

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1050

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

Cal 2

ANALYST JYH DATE 5-25-01 JYH 5/25/01 TIME 14:34
METHOD # 6020A SOP # ME-200 Rev # 1 WORK GROUP # ~~97853~~ 98247, 98190
CAL STD SOURCE MJ-9-50A ICV/CCV SOURCE MJ-10-23
ICS AB SOURCE MJ-9-42B ICS A SOURCE MJ-9-42A POST SPK SOURCE MS-1-8-6
Instrument ID: TJA IRIS: _____ Data File: 052501 Perkin Elmer Optima: _____ Perkin Elmer ELAN: —

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S0				27.				
	1 1/10				28.				
	2 1/5				29.				
	3				30.				
	ICV				31.				
	ICB				32.				
	ICSA				33.				
	ICSAB			ICV/ICB	34.				
1.	PBW 62		40/50	WG97853-03	35.				
2.	LCSW62	4		04	36.				
3.	0543317			02	37.				
4.	17DP			07	38.				
5.	18			01	39.				
6.	18S			05	40.				
7.	18SD			06	41.				
8.	0540411 PS	2			42.				
9.	11 SDL	10		CCV/ICB	43.				
10.	PBS 4G		0.56/50	WG98121-03	44.				
11.	LCSS 4G			04	45.				
12.	ICSA				46.				
13.	ICSAB			ICV/ICB	47.				
14.	0552601	10	0.49/50	02	48.				
15.	01 DP		0.50	07	49.				
16.	02		0.49	01	50.				
17.	02S		0.49	05	51.				
18.	02SD		0.52	06	52.				
19.	03		0.50		53.				
20.	02 PS		0.49		54.				
21.	02 SPL	50	0.49		55.				
22.	ICSA				56.				
23.	ICSAB			ICV/ICB	57.				
24.					58.				
25.					59.				
26.					60.	JYH	5/25/01		

Comments: _____ Reviewed by: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank

FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6020 AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/25/2001 Initial Calibration ID: _____

Instrument ID: ELAN Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Arsenic	0	198.61	10	27827	20	55712	100	272660.8			0.99999	
Lead	0	283.35	10	359678	20	714712	100	3585392			1.00000	

Comments:

_____

_____

_____

_____

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 2:49 PM
CCV1 Time: 3:10 PM
CCV2 Time: 4:11 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.4	88.8	50	41.6	83.2	46.9	93.8	*
Antimony	50	50.4	100.8	50	47.5	95.0	50.9	101.8	
Arsenic	50	48.8	97.6	50	49.0	98.0	49.1	98.2	
Barium	50	50.1	100.2	50	50.3	100.6	48.6	97.2	
Beryllium	50	46.8	93.6	50	41.5	83.0	51.9	103.8	*
Cadmium	50	49.8	99.6	50	49.2	98.4	52.1	104.2	
Calcium	5000	4580	91.6	5000	4380	87.6	5610	112.2	*
Chromium	50	35.7	71.4	50	42.1	84.2	49.6	99.2	*
Cobalt	50	47.0	94.0	50	45.9	91.8	51.3	102.6	
Copper	50	49.2	98.4	50	48.8	97.6	51.1	102.2	
Iron	5000	5000	100.0	5000	4560	91.2	4410	88.2	*
Lead	50	50.3	100.6	50	49.3	98.6	46.1	92.2	
Magnesium	5000	4920	98.4	5000	4580	91.6	5080	101.6	
Manganese	50	49.9	99.8	50	49.6	99.2	54.9	109.8	
Nickel	50	47.7	95.4	50	47.7	95.4	50.1	100.2	
Potassium	5000	5070	101.4	5000	4990	99.8	5510	110.2	*
Selenium	50	49.7	99.4	50	49.0	98.0	49.5	99.0	
Silver	50	50.2	100.4	50	50.5	101.0	53.3	106.6	
Sodium	5000	4820	96.4	5000	4540	90.8	4940	98.8	
Thallium	50	49.9	99.8	50	49.0	98.0	45.4	90.8	
Vanadium	50	48.6	97.2	50	47.3	94.6	55.7	111.4	*
Zinc	50	58.8	117.6	50	55.9	111.8	59.8	119.6	*

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICV Time: 2:49 PM
CCV1 Time: 4:42 PM
CCV2 Time: 5:51 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
					CCV1		CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	50	44.4	88.8	50	51.2	102.4	50.9	101.8	*
Antimony	50	50.4	100.8	50	50.2	100.4	50.6	101.2	
Arsenic	50	48.8	97.6	50	51.7	103.4	51.0	102.0	
Barium	50	50.1	100.2	50	49.2	98.4	47.4	94.8	
Beryllium	50	46.8	93.6	50	47.3	94.6	47.6	95.2	
Cadmium	50	49.8	99.6	50	52.3	104.6	52.8	105.6	
Calcium	5000	4580	91.6	5000	4010	80.2	5430	108.6	*
Chromium	50	35.7	71.4	50	44.5	89.0	35.2	70.4	*
Cobalt	50	47.0	94.0	50	50.1	100.2	51.3	102.6	
Copper	50	49.2	98.4	50	51.2	102.4	50.3	100.6	
Iron	5000	5000	100.0	5000	4250	85.0	4930	98.6	*
Lead	50	50.3	100.6	50	50.1	100.2	49.0	98.0	
Magnesium	5000	4920	98.4	5000	4770	95.4	5340	106.8	
Manganese	50	49.9	99.8	50	54.2	108.4	54.5	109.0	
Nickel	50	47.7	95.4	50	51.8	103.6	50.4	100.8	
Potassium	5000	5070	101.4	5000	4280	85.6	5350	107.0	*
Selenium	50	49.7	99.4	50	52.0	104.0	52.1	104.2	
Silver	50	50.2	100.4	50	53.2	106.4	53.4	106.8	
Sodium	5000	4820	96.4	5000	4910	98.2	5290	105.8	
Thallium	50	49.9	99.8	50	49.7	99.4	49.2	98.4	
Vanadium	50	48.6	97.2	50	52.3	104.6	52.6	105.2	
Zinc	50	58.8	117.6	50	63.3	126.6	54.9	109.8	*

(1) Control Limits: 90-110%

1054

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - ICP/MS
METHOD:	6020A
ANALYST:	jyh
DATE:	Friday, May 25, 2001
UNITS:	ug/L
ICB Time:	2:55 PM
CCB1 Time:	3:15 PM
CCB2 Time:	4:16 PM
CCB3 Time:	4:47 PM

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-0.165		-0.31		-0.205		-0.354	
Antimony	0.244		0.166		0.123		0.128	
Arsenic	-0.0175		-0.0474		-0.0031		-0.0459	
Barium	-0.0162		-0.0162		-0.0003		-0.0162	
Beryllium	-0.084		-0.084		-0.084		-0.084	
Cadmium	-0.0007		-0.001		-0.0012		0.0006	
Calcium	0		0		13.4		0	
Chromium	-11.9		-15.4		-14.3		-14.5	
Cobalt	0.002		0.0059		0		0.002	
Copper	-0.0169		-0.0005		-0.0169		-0.0086	
Iron	7.50		3.00		-1.20		0	
Lead	0.0011		-0.0005		0.0007		0.0001	
Magnesium	-0.10		-0.30		-0.10		-0.2	
Manganese	-0.0288		-0.0358		-0.0365		-0.0356	
Nickel	0.0277		0		0.0098		0.0187	
Potassium	7.70		6.30		-1.30		1.9	
Selenium	-0.018		-0.0469		-0.0218		-0.0719	
Silver	0		-0.0057		-0.0057		-0.0029	
Sodium	-0.50		-0.30		-0.10		0	
Thallium	0.0068		0.0054		-0.0002		0.0031	
Vanadium	0.342		0.211		0.343		0.278	
Zinc	-0.289		-0.148		-0.139		-0.289	

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICB Time: 2:55 PM
CCB1 Time: 5:56 PM
CCB2 Time:
CCB3 Time:

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	-0.165		-0.057					
Antimony	0.244		0.123					
Arsenic	-0.0175		-0.0427					
Barium	-0.0162		-0.0162					
Beryllium	-0.084		-0.084					
Cadmium	-0.0007		-0.0004					
Calcium	0		0					
Chromium	-11.9		-15.4					
Cobalt	0.002		0.0041					
Copper	-0.0169		-0.0081					
Iron	7.50		0.70					
Lead	0.0011		0.0027					
Magnesium	-0.10		0.10					
Manganese	-0.0288		-0.0414					
Nickel	0.0277		0.0093					
Potassium	7.70		-0.30					
Selenium	-0.018		-0.0342					
Silver	0		-0.0057					
Sodium	-0.50		-0.10					
Thallium	0.0068		0.0021					
Vanadium	0.342		0.364					
Zinc	-0.289		-0.289					

U = Result is less than MDL
B = Result is between MDL and RL

1050

KEMRON ENVIRONMENTAL SERVICES
FORM 4B - INTERFERENCE CHECK SAMPLE (ICP/MS)

INSTRUMENT ID: PE - ICP/MS
METHOD: 6020A
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

ICSA Time: 15:00:09
ICSAB Time: 15:05:19

Analyte	True Sol. A	True Sol. AB	Found Sol. A	Found Sol. AB	%R	Q
Aluminum	10000	10000	9750	8730.0	87.3	
Antimony	0	0	0	0.1		
Arsenic	0	10	0	9.6	96.1	
Barium	0	0	0	0.0		
Beryllium	0	0	0	0.0		
Cadmium	0	10	0	9.9	99.0	
Calcium	30000	30000	27200	26900.0	89.7	
Chromium	0	20	-14	8.2	40.9	*
Cobalt	0	20	0	17.7	88.5	
Copper	0	20	0	18.1	90.5	
Iron	25000	25000	22900	21900.0	87.6	
Lead	0	0	0	0.1		
Magnesium	10000	10000	8770	8920.0	89.2	
Manganese	0	20	0	19.3	96.5	
Nickel	0	20	1	18.8	94.0	
Potassium	10000	10000	9790	10000.0	100.0	
Selenium	0	10	0	9.9	98.7	
Silver	0	5	0	4.6	92.2	
Sodium	25000	25000	20800	22100.0	88.4	
Thallium	0	0	0	0.0		
Vanadium	0	20	0	19.3	96.5	
Zinc	0	10	2	13.1	131.0	*

(1) Control Limits: 80-120%

1057

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - ICP/MS
METHOD: 6020
ANALYST: jyh
DATE: Friday, May 25, 2001

UNITS: ug/L

Spiked Sample Time: 5:30 PM
Sample Time: 5:08 PM

Sample ID: 0552602 PS

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125							
Antimony	75-125	52.8		0.349	U	50	105.6	
Arsenic	75-125	51.2		0.277	U	50	102.4	
Barium	75-125	52.2		0.726		50	102.9	
Beryllium	75-125	48.2		-0.084		50	96.6	
Cadmium	75-125	52.6		0.021	U	50	105.2	
Calcium	75-125							
Chromium	75-125	53.2		0.793	U	50	106.4	
Cobalt	75-125	55.1		0.0641	B	50	110.1	
Copper	75-125	55.9		0.181	U	50	111.8	
Iron	75-125							
Lead	75-125	53.4		0.657	B	50	105.5	
Magnesium	75-125							
Manganese	75-125	62.4		0.487	U	50	124.8	
Nickel	75-125	57.2		0.347	B	50	113.7	
Potassium	75-125							
Selenium	75-125	48.2		0.244	U	50	96.4	
Silver	75-125	51.3		0.264	B	50	102.1	
Sodium	75-125							
Thallium	75-125	52.3		0.026	U	50	104.6	
Vanadium	75-125	58.5		0.922	B	50	115.2	
Zinc	75-125	53.4		-0.00854		50	106.8	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - ICP/MS

Date: 7/21/2000

Units: mg/kg

Analyte	Wave-length /Mass	CRQL	MDL
Antimony	123	0.02	0.01
Arsenic	75	0.05	0.025
Cadmium	114	0.01	0.005
Lead	208	0.05	0.025
Selenium	82	0.02	0.01
Silver	107	0.2	0.1
Thallium	203	0.01	0.005
Vanadium	51	0.04	0.02

Comments:

FORM IX - IN

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

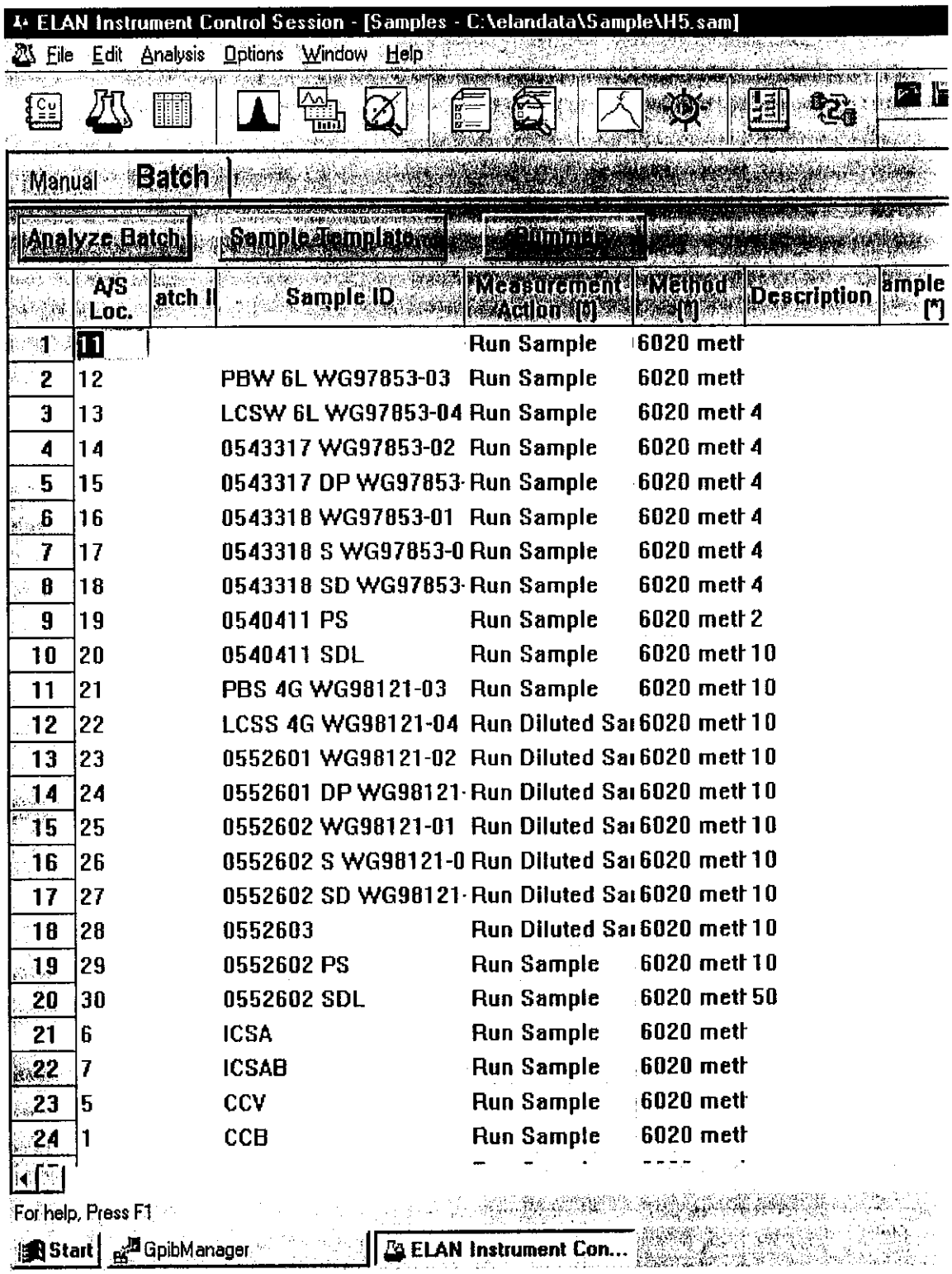
Instrument ID: PE - ICP/MS

Date: 8/17/2000

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Antimony	40.00	100.0
Arsenic	40.00	100.0
Barium	10.00	100.0
Beryllium	10.00	100.0
Cadmium	40.00	100.0
Chromium	40.00	100.0
Cobalt	40.00	100.0
Copper	10.00	100.0
Lead	40.00	100.0
Manganese	40.00	100.0
Nickel	40.00	100.0
Selenium	40.00	100.0
Silver	10.00	100.0
Thallium	40.00	100.0
Vanadium	40.00	100.0
Zinc	40.00	100.0

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351


ELAN Instrument Control Session - [Samples - C:\elandata\Sample\H5.sam]
File Edit Analysis Options Window Help
Manual Batch
Analyze Batch
Sample Template
Summary
A/S Loc.
atch I
Sample ID
Measurement Action (I)
Method (*)
Description
ample (*)
1 11 Run Sample 6020 metl
2 12 PBW 6L WG97853-03 Run Sample 6020 metl
3 13 LCSW 6L WG97853-04 Run Sample 6020 metl 4
4 14 0543317 WG97853-02 Run Sample 6020 metl 4
5 15 0543317 DP WG97853 Run Sample 6020 metl 4
6 16 0543318 WG97853-01 Run Sample 6020 metl 4
7 17 0543318 S WG97853-0 Run Sample 6020 metl 4
8 18 0543318 SD WG97853 Run Sample 6020 metl 4
9 19 0540411 PS Run Sample 6020 metl 2
10 20 0540411 SDL Run Sample 6020 metl 10
11 21 PBS 4G WG98121-03 Run Sample 6020 metl 10
12 22 LCSS 4G WG98121-04 Run Diluted Sa 6020 metl 10
13 23 0552601 WG98121-02 Run Diluted Sa 6020 metl 10
14 24 0552601 DP WG98121 Run Diluted Sa 6020 metl 10
15 25 0552602 WG98121-01 Run Diluted Sa 6020 metl 10
16 26 0552602 S WG98121-0 Run Diluted Sa 6020 metl 10
17 27 0552602 SD WG98121 Run Diluted Sa 6020 metl 10
18 28 0552603 Run Diluted Sa 6020 metl 10
19 29 0552602 PS Run Sample 6020 metl 10
20 30 0552602 SDL Run Sample 6020 metl 50
21 6 ICSA Run Sample 6020 metl
22 7 ICSAB Run Sample 6020 metl
23 5 CCV Run Sample 6020 metl
24 1 CCB Run Sample 6020 metl
For help, Press F1
Start
GpibManager
ELAN Instrument Con...

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 25, 2001 14:34:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20367.487					ug/L
⌈	Be	9	33.367					ug/L
|	Al	27	6669.982					ug/L
|>	Sc-1	45	429627.067					ug/L
⌈	V	51	-655.280					ug/L
|	Cr	52	12456.659					ug/L
|	Cr	53	22703.876					ug/L
|	Mn	55	1268.055					ug/L
|	Co	59	0.000					ug/L
|	Ni	60	0.000					ug/L
|	Cu	65	66.734					ug/L
|	Zn	66	666.760					ug/L
|>	Ge	72	1029629.245					ug/L
|	As	75	198.613					ug/L
|	Se	77	550.688					ug/L
⌊	Se	82	124.408					ug/L
	Y	89	805783.895					ug/L
⌈	Rh	103	0.000					ug/L
|	Ag	107	66.734					ug/L
|	Cd	114	25.489					ug/L
|>	In	115	894544.268					ug/L
⌊	Sb	123	194.103					ug/L
⌈	Ba	135	33.367					ug/L
|	Ce	140	0.000					ug/L
⌊>	Tb	159	715469.756					ug/L
⌈	Ho	165	0.000					ug/L
|	Tl	203	38.334					ug/L
|	Tl	205	84.335					ug/L
|	Pb	206	60.006					ug/L
|	Pb	207	73.341					ug/L
|	Pb	208	283.350					ug/L
⌊>	Bi	209	744786.961					ug/L
⌈	Na	23	14013.921					mg/L
|	Mg	24	1666.877					mg/L
|	K	39	704542.880					mg/L
|	Ca	43	0.000					mg/L
|	Fe	54	41439.507					mg/L
⌊	Fe	57	8004.623					mg/L

└> Sc	45	429627.067		mg/L
Cl	35	2354417.611		mg/L
Kr	83	139.336		mg/L
U	238	0.000		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45					
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209					
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, May 25, 2001 14:35:37

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 25, 2001 14:37:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	18023.271	-2344.22				ug/L
⌈	Be	9	3804.907	0.01	10.0000	3.877	38.773	ug/L
|	Al	27	68666.372	0.14	10.0000	1.519	15.195	ug/L
|>	Sc-1	45	441579.528	441579.53				ug/L
⌈	V	51	152292.196	0.15	10.0000	0.661	6.609	ug/L
|	Cr	52	141869.617	0.12	10.0000	0.381	3.807	ug/L
|	Cr	53	32413.366	0.01	10.0000	12.927	129.271	ug/L
|	Mn	55	209472.157	0.20	10.0000	0.533	5.327	ug/L
|	Co	59	166585.870	0.16	10.0000	0.348	3.484	ug/L
|	Ni	60	36898.699	0.04	10.0000	0.550	5.498	ug/L
|	Cu	65	40655.928	0.04	10.0000	0.105	1.053	ug/L
|	Zn	66	28725.261	0.03	10.0000	1.664	16.638	ug/L
|>	Ge	72	1049274.574	1049274.57				ug/L
|	As	75	27827.453	0.03	10.0000	0.131	1.310	ug/L
|	Se	77	2579.133	0.00	10.0000	0.719	7.185	ug/L
⌊	Se	82	3103.631	0.00	10.0000	0.195	1.950	ug/L
	Y	89	776742.608	-29041.29				ug/L
⌈	Rh	103	200.203	0.00				ug/L
|	Ag	107	122836.726	0.13	10.0000	0.511	5.113	ug/L
|	Cd	114	71923.435	0.08	10.0000	0.103	1.029	ug/L
|>	In	115	909961.357	909961.36				ug/L
⌊	Sb	123	67910.720	0.07	10.0000	0.025	0.250	ug/L
⌈	Ba	135	22725.499	0.03	10.0000	0.651	6.511	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	707035.977	707035.98				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	103727.111	103688.78	10.0000	0.071	0.709	ug/L
|	Tl	205	259683.655	259599.32	10.0000	0.137	1.365	ug/L
|	Pb	206	91015.342	90955.34	10.0000	0.165	1.652	ug/L
|	Pb	207	77246.535	77173.19	10.0000	0.163	1.631	ug/L
|	Pb	208	359677.801	359394.45	10.0000	0.082	0.815	ug/L
⌊>	Bi	209	757244.929	757244.93				ug/L
⌈	Na	23	5918307.585	13.40	1.0000	0.150	15.033	mg/L
|	Mg	24	4273851.953	9.67	1.0000	0.055	5.505	mg/L
|	K	39	13833091.203	29.72	1.0000	0.111	11.083	mg/L
|	Ca	43	26721.338	0.06	1.0000	0.377	37.678	mg/L
|	Fe	54	1105667.836	2.41	1.0000	0.042	4.165	mg/L
⌊	Fe	57	405310.349	0.90	1.0000	0.149	14.934	mg/L

\> Sc	45	441579.528	441579.53		mg/L
Cl	35	727763.840	-1626653.77		mg/L
Kr	83	148.670	9.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
\> Sc-1	45					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
\> Ge	72					
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
\> In	115					
Sb	123					
Ba	135					
Ce	140					
\> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
\> Bi	209					
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
\> Sc	45					
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, May 25, 2001 14:38:24

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 25, 2001 14:40:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15350.012	-5017.48				ug/L
⌈	Be	9	6977.051	0.02	19.7556	0.426	2.158	ug/L
|	Al	27	146507.694	0.33	20.5773	2.359	11.467	ug/L
|>	Sc-1	45	428850.129	428850.13				ug/L
⌈	V	51	305211.454	0.29	19.9721	0.662	3.314	ug/L
|	Cr	52	271222.856	0.24	19.9714	0.489	2.448	ug/L
|	Cr	53	44474.044	0.02	20.4892	8.096	39.514	ug/L
|	Mn	55	425466.958	0.40	20.0444	0.743	3.708	ug/L
|	Co	59	327748.091	0.31	19.9030	0.668	3.356	ug/L
|	Ni	60	71022.107	0.07	19.8160	0.674	3.401	ug/L
|	Cu	65	80667.411	0.08	19.9419	1.021	5.120	ug/L
|	Zn	66	53533.961	0.05	19.7222	1.156	5.861	ug/L
|>	Ge	72	1056995.647	1056995.65				ug/L
|	As	75	55711.666	0.05	19.9895	0.162	0.812	ug/L
|	Se	77	4938.374	0.00	20.2847	0.608	3.000	ug/L
L	Se	82	5978.194	0.01	19.9019	0.945	4.749	ug/L
	Y	89	862894.111	57110.22				ug/L
⌈	Rh	103	233.571	0.00				ug/L
|	Ag	107	244836.758	0.27	19.9526	0.951	4.766	ug/L
|	Cd	114	144241.492	0.16	19.9787	0.607	3.037	ug/L
|>	In	115	917836.913	917836.91				ug/L
|	Sb	123	138157.584	0.15	20.0398	0.116	0.580	ug/L
⌈	Ba	135	43173.207	0.06	19.4220	1.632	8.400	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	773465.205	773465.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	209432.050	209393.72	20.0386	0.068	0.339	ug/L
|	Tl	205	523800.443	523716.11	20.0346	0.107	0.536	ug/L
|	Pb	206	181976.912	181916.91	20.0001	0.050	0.249	ug/L
|	Pb	207	154178.315	154104.97	19.9937	0.269	1.347	ug/L
|	Pb	208	714711.556	714428.21	19.9756	0.084	0.421	ug/L
|>	Bi	209	762267.871	762267.87				ug/L
⌈	Na	23	11882347.547	27.66	2.0125	0.134	6.666	mg/L
|	Mg	24	8374322.489	19.52	2.0037	0.073	3.654	mg/L
|	K	39	28979153.774	65.89	2.0400	0.123	6.007	mg/L
|	Ca	43	41455.971	0.10	1.9051	0.347	18.201	mg/L
|	Fe	54	1980680.151	4.54	1.9755	0.206	10.424	mg/L
|	Fe	57	962060.856	2.23	2.0797	0.090	4.344	mg/L

└>	Sc	45	428850.129	428850.13	mg/L
	Cl	35	307207.506	-2047210.11	mg/L
	Kr	83	140.003	0.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Friday, May 25, 2001 14:41:12

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 25, 2001 14:43:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.169	-673.32				ug/L
⌈	Be	9	34786.347	0.09	100.5674	2.558	2.544	ug/L
|	Al	27	651157.171	1.73	100.4171	9.445	9.405	ug/L
⌊>	Sc-1	45	373555.704	373555.70				ug/L
⌈	V	51	1515356.993	1.46	100.0431	4.546	4.544	ug/L
|	Cr	52	1304103.339	1.25	100.0873	4.273	4.269	ug/L
|	Cr	53	164200.262	0.14	101.3543	4.456	4.397	ug/L
|	Mn	55	2013327.304	1.94	99.8514	3.759	3.764	ug/L
|	Co	59	1671903.474	1.61	100.1632	5.614	5.605	ug/L
|	Ni	60	355775.968	0.34	100.0565	4.480	4.478	ug/L
|	Cu	65	396463.983	0.38	100.0038	3.458	3.458	ug/L
|	Zn	66	231011.635	0.22	99.3399	2.604	2.621	ug/L
|>	Ge	72	1036056.965	1036056.96				ug/L
|	As	75	272660.774	0.26	100.0049	1.165	1.165	ug/L
|	Se	77	22489.352	0.02	100.1748	0.890	0.889	ug/L
⌊	Se	82	28936.779	0.03	99.9981	2.574	2.574	ug/L
	Y	89	844184.647	38400.75				ug/L
⌈	Rh	103	834.226	0.00				ug/L
|	Ag	107	1202020.250	1.30	99.8609	2.031	2.034	ug/L
|	Cd	114	718764.254	0.78	99.9393	1.294	1.295	ug/L
|>	In	115	925270.092	925270.09				ug/L
⌊	Sb	123	699282.970	0.76	100.0344	0.951	0.950	ug/L
⌈	Ba	135	210876.308	0.29	100.0043	10.533	10.533	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	735892.290	735892.29				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	1042056.631	1042018.30	99.9866	0.667	0.667	ug/L
|	Tl	205	2509961.669	2509877.33	99.8027	0.521	0.522	ug/L
|	Pb	206	897822.760	897762.75	99.9374	1.324	1.325	ug/L
|	Pb	207	763804.370	763731.03	99.9562	2.931	2.932	ug/L
|	Pb	208	3585392.019	3585108.67	100.0114	0.812	0.812	ug/L
⌊>	Bi	209	764040.865	764040.86				ug/L
⌈	Na	23	54921894.391	147.06	10.0312	0.552	5.498	mg/L
|	Mg	24	39577198.345	105.83	10.0379	0.218	2.176	mg/L
|	K	39	117965427.559	314.42	9.9870	0.462	4.623	mg/L
|	Ca	43	203869.354	0.55	10.0345	0.618	6.154	mg/L
|	Fe	54	9655007.165	25.92	10.0546	1.355	13.476	mg/L
|	Fe	57	3866612.221	10.37	9.9844	0.813	8.145	mg/L

└>	Sc	45	373555.704	373555.70	mg/L
	Cl	35	203530.992	-2150886.62	mg/L
	Kr	83	140.336	1.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45					
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72					
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115					
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159					
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209					
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45					
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Friday, May 25, 2001 14:44:00

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2001 14:49:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.731	-672.76				ug/L
⌈	Be	9	17271.601	0.04	46.7588	4.428	9.470	ug/L
|	Al	27	311306.246	0.77	44.4226	2.180	4.907	ug/L
|>	Sc-1	45	398856.974	398856.97				ug/L
⌈	V	51	755432.916	0.71	48.5790	1.136	2.338	ug/L
|	Cr	52	653104.954	0.60	48.2587	1.897	3.931	ug/L
|	Cr	53	74724.808	0.05	35.7344	5.088	14.237	ug/L
|	Mn	55	1034817.758	0.97	49.9319	1.910	3.824	ug/L
|	Co	59	806208.598	0.76	47.0242	1.793	3.812	ug/L
|	Ni	60	174383.299	0.16	47.7463	3.816	7.991	ug/L
|	Cu	65	200609.475	0.19	49.2221	0.360	0.731	ug/L
|	Zn	66	140712.136	0.13	58.7811	5.239	8.913	ug/L
|>	Ge	72	1064676.545	1064676.54				ug/L
|	As	75	136731.037	0.13	48.7596	0.576	1.182	ug/L
|	Se	77	11418.455	0.01	48.2124	0.954	1.979	ug/L
⌊	Se	82	14851.611	0.01	49.7142	0.139	0.280	ug/L
	Y	89	860323.079	54539.18				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	604600.226	0.65	50.1515	3.381	6.741	ug/L
|	Cd	114	359250.622	0.39	49.8448	0.975	1.956	ug/L
|>	In	115	927544.374	927544.37				ug/L
⌊	Sb	123	353116.012	0.38	50.4140	1.817	3.604	ug/L
⌈	Ba	135	105547.133	0.14	50.0823	5.880	11.741	ug/L
|	Ce	140	666.760	0.00				ug/L
|>	Tb	159	735549.899	735549.90				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	520231.917	520193.58	49.9150	0.384	0.769	ug/L
|	Tl	205	1294547.772	1294463.44	51.4730	0.693	1.347	ug/L
|	Pb	206	488770.605	488710.60	54.4024	1.056	1.942	ug/L
|	Pb	207	366858.099	366784.76	48.0043	1.696	3.533	ug/L
|	Pb	208	1802538.263	1802254.91	50.2763	0.475	0.945	ug/L
|>	Bi	209	785391.422	785391.42				ug/L
⌈	Na	23	28063538.513	70.62	4.8168	0.514	10.662	mg/L
|	Mg	24	20669954.714	51.82	4.9155	0.452	9.204	mg/L
|	K	39	64176886.226	159.62	5.0700	0.322	6.360	mg/L
|	Ca	43	99694.480	0.25	4.5786	0.226	4.932	mg/L
|	Fe	54	4901376.595	12.23	4.7453	0.425	8.961	mg/L
|	Fe	57	2067374.961	5.19	4.9984	0.659	13.185	mg/L

> Sc	45	398856.974	398856.97		mg/L
Cl	35	127135.162	-2227282.45		mg/L
Kr	83	148.336	9.00		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9	93.518				
	Al	27	88.845				
>	Sc-1	45		92.838			
	V	51	97.158				
	Cr	52	96.517				
	Cr	53	71.469				
	Mn	55	99.864				
	Co	59	94.048				
	Ni	60	95.493				
	Cu	65	98.444				
	Zn	66	117.562				
>	Ge	72		103.404			
	As	75	97.519				
	Se	77	96.425				
	Se	82	99.428				
	Y	89					
	Rh	103					
	Ag	107	100.303				
	Cd	114	99.690				
>	In	115		103.689			
	Sb	123	100.828				
	Ba	135	100.165				
	Ce	140					
>	Tb	159		102.807			
	Ho	165					
	Tl	203	99.830				
	Tl	205	102.946				
	Pb	206	108.805				
	Pb	207	96.009				
	Pb	208	100.553				
>	Bi	209		105.452			
	Na	23	96.336				
	Mg	24	98.310				
	K	39	101.400				
	Ca	43	91.573				
	Fe	54	94.907				
	Fe	57	99.967				
>	Sc	45		92.838			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Friday, May 25, 2001 14:50:43

QC Std 1	Al	27	ICV is out of limits (+/-10%)
QC Std 1	Cr	53	ICV is out of limits (+/-10%)
QC Std 1	Zn	66	ICV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 25, 2001 14:55:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	17021.144	-3346.34				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	5335.387	-0.00	-0.1646	0.116	70.368	ug/L
|>	Sc-1	45	417928.283	417928.28				ug/L
⌈	V	51	4475.316	0.00	0.3418	0.243	71.095	ug/L
|	Cr	52	12891.175	0.00	0.0237	0.029	121.294	ug/L
|	Cr	53	6336.158	-0.02	-11.8529	0.388	3.273	ug/L
|	Mn	55	700.736	-0.00	-0.0288	0.004	14.674	ug/L
|	Co	59	33.367	0.00	0.0020	0.003	173.205	ug/L
|	Ni	60	100.102	0.00	0.0277	0.048	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
|>	Ge	72	1040512.003	1040512.00				ug/L
|	As	75	152.326	-0.00	-0.0175	0.016	92.197	ug/L
|	Se	77	189.336	-0.00	-1.6696	0.026	1.543	ug/L
⌊	Se	82	120.198	-0.00	-0.0180	0.054	300.945	ug/L
	Y	89	862515.846	56731.95				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	-0.00	-0.0000	0.010	24483.918	ug/L
|	Cd	114	21.665	-0.00	-0.0007	0.000	67.699	ug/L
|>	In	115	931375.266	931375.27				ug/L
⌊	Sb	123	1916.508	0.00	0.2435	0.011	4.437	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	720633.315	720633.31				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	109.002	70.67	0.0068	0.001	12.578	ug/L
|	Tl	205	260.674	176.34	0.0070	0.000	5.793	ug/L
|	Pb	206	80.008	20.00	0.0022	0.002	100.000	ug/L
|	Pb	207	86.676	13.33	0.0017	0.002	114.565	ug/L
|	Pb	208	323.021	39.67	0.0011	0.001	47.097	ug/L
⌊>	Bi	209	762649.754	762649.75				ug/L
⌈	Na	23	10674.699	-0.01	-0.0005	0.000	46.234	mg/L
|	Mg	24	1333.520	-0.00	-0.0001	0.000	524.430	mg/L
|	K	39	783054.708	0.24	0.0077	0.006	72.207	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	28361.630	-0.03	-0.0111	0.004	37.687	mg/L
|	Fe	57	11008.617	0.01	0.0075	0.004	56.368	mg/L

└>	Sc	45	417928.283	417928.28	mg/L
	Cl	35	81475.330	-2272942.28	mg/L
	Kr	83	152.336	13.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9					
│	Al	27					
└>	Sc-1	45		97.277			
┌	V	51					
│	Cr	52					
│	Cr	53					
│	Mn	55					
│	Co	59					
│	Ni	60					
│	Cu	65					
│	Zn	66					
│>	Ge	72		101.057			
│	As	75					
│	Se	77					
└	Se	82					
	Y	89					
┌	Rh	103					
│	Ag	107					
│	Cd	114					
│>	In	115		104.117			
└	Sb	123					
┌	Ba	135					
│	Ce	140					
└>	Tb	159		100.722			
┌	Ho	165					
│	Tl	203					
│	Tl	205					
│	Pb	206					
│	Pb	207					
│	Pb	208					
└>	Bi	209		102.398			
┌	Na	23					
│	Mg	24					
│	K	39					
│	Ca	43					
│	Fe	54					
│	Fe	57					
└>	Sc	45		97.277			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, May 25, 2001 14:55:50

QC Std 2	Be	9	ICB is out of limits (+/-3*IDL)
QC Std 2	V	51	ICB is out of limits (+/-3*IDL)
QC Std 2	Cr	53	ICB is out of limits (+/-3*IDL)
QC Std 2	Se	77	ICB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 15:00:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15016.516	-5350.97				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	65272039.840	168.14	9745.3217	475.445	4.879	ug/L
|>	Sc-1	45	388274.532	388274.53				ug/L
⌈	V	51	2816.942	0.00	0.2385	0.337	141.148	ug/L
|	Cr	52	16535.726	0.00	0.3645	0.114	31.184	ug/L
|	Cr	53	3667.624	-0.02	-13.6360	0.419	3.073	ug/L
|	Mn	55	6576.315	0.01	0.2773	0.055	19.811	ug/L
|	Co	59	1635.159	0.00	0.1021	0.018	17.230	ug/L
|	Ni	60	2235.979	0.00	0.6567	0.338	51.445	ug/L
|	Cu	65	967.705	0.00	0.2372	0.083	35.146	ug/L
|	Zn	66	5669.959	0.01	2.2593	2.129	94.255	ug/L
|>	Ge	72	993725.594	993725.59				ug/L
|	As	75	194.129	0.00	0.0009	0.038	4190.558	ug/L
|	Se	77	498.684	-0.00	-0.1566	0.243	154.905	ug/L
⌊	Se	82	131.365	0.00	0.0410	0.031	75.143	ug/L
	Y	89	769327.301	-36456.59				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	100.101	0.00	0.0029	0.009	291.674	ug/L
|	Cd	114	2493.562	0.00	0.3631	0.008	2.089	ug/L
|>	In	115	874987.310	874987.31				ug/L
⌊	Sb	123	1443.835	0.00	0.1897	0.006	3.260	ug/L
⌈	Ba	135	166.837	0.00	0.0636	0.071	111.632	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	710419.369	710419.37				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	100.002	61.67	0.0059	0.000	5.847	ug/L
|	Tl	205	229.673	145.34	0.0058	0.001	13.767	ug/L
|	Pb	206	1647.024	1587.02	0.1767	0.025	14.099	ug/L
|	Pb	207	1416.949	1343.61	0.1758	0.009	4.957	ug/L
|	Pb	208	6236.042	5952.69	0.1661	0.009	5.252	ug/L
|>	Bi	209	720451.823	720451.82				ug/L
⌈	Na	23	118280067.230	304.71	20.7845	1.397	6.722	mg/L
|	Mg	24	35878394.762	92.45	8.7689	0.744	8.482	mg/L
|	K	39	120273948.647	308.14	9.7873	0.656	6.698	mg/L
|	Ca	43	575304.328	1.48	27.1643	1.477	5.435	mg/L
|	Fe	54	20639513.454	53.08	20.5874	0.994	4.828	mg/L
|	Fe	57	9258449.703	23.83	22.9463	1.437	6.261	mg/L

\>	Sc	45	388274.532	388274.53	mg/L
	Cl	35	5819641.830	3465224.22	mg/L
	Kr	83	175.337	36.00	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	97.453				
\>	Sc-1	45		90.375			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		96.513			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		97.814			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		99.294			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		96.733			
⌈	Na	23	83.138				
|	Mg	24	87.689				
|	K	39	97.873				
|	Ca	43	90.548				
|	Fe	54	82.350				
|	Fe	57	91.785				
\>	Sc	45		90.375			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 15:00:59

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 15:05:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	12678.579	-7688.91				ug/L
⌈	Be	9	33.367	0.00	0.0032	0.151	4654.561	ug/L
|	Al	27	62919894.260	150.70	8734.8596	106.522	1.219	ug/L
|>	Sc-1	45	417534.141	417534.14				ug/L
⌈	V	51	282205.643	0.28	19.3343	0.635	3.283	ug/L
|	Cr	52	251569.760	0.24	19.2060	0.581	3.025	ug/L
|	Cr	53	33077.581	0.01	8.1721	3.711	45.410	ug/L
|	Mn	55	376433.463	0.37	19.2868	0.354	1.837	ug/L
|	Co	59	285509.661	0.29	17.7207	0.437	2.465	ug/L
|	Ni	60	64689.417	0.06	18.8427	0.383	2.032	ug/L
|	Cu	65	69472.029	0.07	18.1266	0.148	0.819	ug/L
|	Zn	66	30063.461	0.03	13.1348	1.182	8.998	ug/L
|>	Ge	72	1000624.279	1000624.28				ug/L
|	As	75	25495.532	0.03	9.6148	0.173	1.801	ug/L
|	Se	77	2579.800	0.00	9.6673	0.684	7.080	ug/L
L	Se	82	2866.698	0.00	9.8651	0.257	2.606	ug/L
	Y	89	766075.167	-39708.73				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	53049.631	0.06	4.6126	0.322	6.972	ug/L
|	Cd	114	68000.140	0.08	9.9013	0.152	1.532	ug/L
|>	In	115	883301.571	883301.57				ug/L
L	Sb	123	1150.118	0.00	0.1437	0.011	7.586	ug/L
⌈	Ba	135	66.734	0.00	0.0146	0.027	183.665	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	731832.636	731832.64				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	86.668	48.33	0.0046	0.001	25.869	ug/L
|	Tl	205	193.671	109.34	0.0043	0.000	5.589	ug/L
|	Pb	206	1426.953	1366.95	0.1522	0.013	8.576	ug/L
|	Pb	207	1056.851	983.51	0.1287	0.009	7.143	ug/L
|	Pb	208	5206.683	4923.33	0.1373	0.003	2.296	ug/L
|>	Bi	209	726442.675	726442.68				ug/L
⌈	Na	23	134980455.179	323.44	22.0624	0.563	2.553	mg/L
|	Mg	24	39207317.987	94.01	8.9173	0.623	6.991	mg/L
|	K	39	132047406.192	314.70	9.9956	0.649	6.492	mg/L
|	Ca	43	613698.148	1.47	26.9155	1.012	3.758	mg/L
|	Fe	54	20896817.749	50.00	19.3956	1.249	6.441	mg/L
|	Fe	57	9487418.144	22.70	21.8571	0.135	0.619	mg/L

\> Sc	45	417534.141	417534.14		mg/L
Cl	35	5942232.296	3587814.68		mg/L
Kr	83	187.004	47.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	87.349				
\>	Sc-1	45		97.185			
⌈	V	51	96.672				
|	Cr	52	96.030				
|	Cr	53	40.860				
|	Mn	55	96.434				
|	Co	59	88.603				
|	Ni	60	94.214				
|	Cu	65	90.633				
|	Zn	66	131.348				
\>	Ge	72		97.183			
|	As	75	96.148				
|	Se	77	96.673				
⌊	Se	82	98.651				
	Y	89					
⌈	Rh	103					
|	Ag	107	92.253				
|	Cd	114	99.013				
\>	In	115		98.743			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		102.287			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		97.537			
⌈	Na	23	88.250				
|	Mg	24	89.173				
|	K	39	99.956				
|	Ca	43	89.718				
|	Fe	54	77.582				
|	Fe	57	87.428				
\>	Sc	45		97.185			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 15:06:10

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}
QC Std 5	Fe	54	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 15:10:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19026.756	-1340.73				ug/L
⌈	Be	9	15666.453	0.04	41.5398	4.711	11.341	ug/L
|	Al	27	297088.769	0.72	41.6005	4.328	10.404	ug/L
⌊>	Sc-1	45	405545.235	405545.23				ug/L
⌈	V	51	726757.242	0.69	47.2938	1.378	2.915	ug/L
|	Cr	52	632749.540	0.59	47.2966	0.771	1.629	ug/L
|	Cr	53	82811.564	0.06	42.0882	3.391	8.057	ug/L
|	Mn	55	1014833.983	0.96	49.5530	0.629	1.269	ug/L
|	Co	59	777250.588	0.74	45.8815	0.576	1.255	ug/L
|	Ni	60	172156.606	0.16	47.6930	2.283	4.788	ug/L
|	Cu	65	196664.868	0.19	48.8333	0.347	0.710	ug/L
|	Zn	66	132227.931	0.13	55.8958	8.059	14.419	ug/L
| >	Ge	72	1052043.920	1052043.92				ug/L
|	As	75	135759.197	0.13	48.9947	0.593	1.211	ug/L
|	Se	77	11405.770	0.01	48.7605	1.071	2.197	ug/L
⌊	Se	82	14476.934	0.01	49.0382	0.562	1.146	ug/L
	Y	89	864090.329	58306.43				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	614201.080	0.66	50.4938	2.715	5.378	ug/L
|	Cd	114	357695.902	0.38	49.1963	0.462	0.939	ug/L
| >	In	115	935357.070	935357.07				ug/L
⌊	Sb	123	335693.025	0.36	47.4987	1.378	2.901	ug/L
⌈	Ba	135	102498.667	0.14	50.2631	3.448	6.860	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	709718.284	709718.28				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	510185.445	510147.11	48.9510	0.212	0.433	ug/L
|	Tl	205	1300669.360	1300585.02	51.7164	0.474	0.917	ug/L
|	Pb	206	482095.645	482035.64	53.6594	0.536	0.999	ug/L
|	Pb	207	359312.726	359239.38	47.0168	0.892	1.897	ug/L
|	Pb	208	1768534.575	1768251.22	49.3277	0.253	0.512	ug/L
⌊>	Bi	209	769529.595	769529.60				ug/L
⌈	Na	23	27030524.825	66.62	4.5443	0.251	5.518	mg/L
|	Mg	24	19560313.639	48.31	4.5823	0.341	7.436	mg/L
|	K	39	64407738.335	157.25	4.9948	0.197	3.937	mg/L
|	Ca	43	96990.891	0.24	4.3815	0.290	6.614	mg/L
|	Fe	54	4849163.474	11.87	4.6037	0.194	4.220	mg/L
|	Fe	57	1924540.995	4.73	4.5565	0.175	3.835	mg/L

└>	Sc	45	405545.235	405545.23	mg/L
	Cl	35	115256.975	-2239160.64	mg/L
	Kr	83	154.670	15.33	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
┌	Be	9	83.080				
│	Al	27	83.201				
└>	Sc-1	45		94.395			
┌	V	51	94.588				
│	Cr	52	94.593				
│	Cr	53	84.176				
│	Mn	55	99.106				
│	Co	59	91.763				
│	Ni	60	95.386				
│	Cu	65	97.667				
│	Zn	66	111.792				
│>	Ge	72		102.177			
│	As	75	97.989				
│	Se	77	97.521				
└	Se	82	98.076				
	Y	89					
┌	Rh	103					
│	Ag	107	100.988				
│	Cd	114	98.393				
│>	In	115		104.562			
└	Sb	123	94.997				
┌	Ba	135	100.526				
│	Ce	140					
└>	Tb	159		99.196			
┌	Ho	165					
│	Tl	203	97.902				
│	Tl	205	103.433				
│	Pb	206	107.319				
│	Pb	207	94.034				
│	Pb	208	98.655				
└>	Bi	209		103.322			
┌	Na	23	90.885				
│	Mg	24	91.647				
│	K	39	99.896				
│	Ca	43	87.630				
│	Fe	54	92.075				
│	Fe	57	91.130				
└>	Sc	45		94.395			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 15:11:19

QC Std 6	Be	9	CCV is out of limits (+/-10%)
QC Std 6	Al	27	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 15:15:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19360.111	-1007.38				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	4334.944	-0.01	-0.3102	0.359	115.867	ug/L
⌊>	Sc-1	45	428509.468	428509.47				ug/L
⌈	V	51	2584.843	0.00	0.2112	0.080	37.895	ug/L
|	Cr	52	13593.466	0.00	0.0621	0.201	323.890	ug/L
|	Cr	53	1333.567	-0.02	-15.4354	1.075	6.964	ug/L
|	Mn	55	567.259	-0.00	-0.0358	0.011	30.984	ug/L
|	Co	59	100.102	0.00	0.0059	0.010	173.205	ug/L
|	Ni	60	0.000	0.00	0.0000	0.000		ug/L
|	Cu	65	66.734	-0.00	-0.0005	0.014	3096.631	ug/L
|	Zn	66	333.357	-0.00	-0.1482	0.245	165.007	ug/L
|>	Ge	72	1057393.882	1057393.88				ug/L
|	As	75	71.911	-0.00	-0.0474	0.015	31.131	ug/L
|	Se	77	186.669	-0.00	-1.6952	0.100	5.924	ug/L
⌊	Se	82	113.944	-0.00	-0.0469	0.060	127.390	ug/L
	Y	89	853139.802	47355.91				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	19.036	-0.00	-0.0010	0.001	68.231	ug/L
|>	In	115	915679.367	915679.37				ug/L
⌊	Sb	123	1347.620	0.00	0.1662	0.007	4.280	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	748070.125	748070.13				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	95.002	56.67	0.0054	0.001	12.353	ug/L
|	Tl	205	220.339	136.00	0.0054	0.000	8.099	ug/L
|	Pb	206	53.339	-6.67	-0.0007	0.001	86.602	ug/L
|	Pb	207	76.675	3.33	0.0004	0.005	1135.776	ug/L
|	Pb	208	267.016	-16.33	-0.0005	0.001	170.126	ug/L
⌊>	Bi	209	767679.208	767679.21				ug/L
⌈	Na	23	11676.639	-0.01	-0.0003	0.001	164.672	mg/L
|	Mg	24	333.357	-0.00	-0.0003	0.000	45.410	mg/L
|	K	39	786032.833	0.20	0.0063	0.005	73.764	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	40403.981	-0.00	-0.0010	0.008	859.959	mg/L
|	Fe	57	9340.479	0.00	0.0030	0.011	359.387	mg/L

\> Sc	45	428509.468	428509.47		mg/L
Cl	35	64961.968	-2289455.64		mg/L
Kr	83	140.003	0.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
\>	Sc-1	45		99.740			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		102.697			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.363			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
\>	Tb	159		104.556			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
\>	Bi	209		103.074			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
\>	Sc	45		99.740			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 15:16:26

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBW 6L WG97853-03

Sample Date/Time: Friday, May 25, 2001 15:20:45
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 50.000
Autosampler Position: 12
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19025.491	-1342.00				ug/L
⌈	Be	9	0.000	-0.00	-0.1050	0.000	0.000	ug/L
|	Al	27	861717.407	2.07	150.1284	14.441	9.619	ug/L
|>	Sc-1	45	415121.619	415121.62				ug/L
⌈	V	51	2360.819	0.00	0.2432	0.246	101.049	ug/L
|	Cr	52	20382.768	0.01	0.6941	0.098	14.161	ug/L
|	Cr	53	2000.420	-0.02	-18.7331	1.511	8.065	ug/L
|	Mn	55	5440.876	0.00	0.2475	0.053	21.364	ug/L
|	Co	59	300.308	0.00	0.0217	0.015	66.979	ug/L
|	Ni	60	1067.817	0.00	0.3628	0.085	23.528	ug/L
|	Cu	65	4138.707	0.00	1.2394	0.270	21.808	ug/L
|	Zn	66	19697.262	0.02	9.9223	4.570	46.054	ug/L
|>	Ge	72	1072022.704	1072022.70				ug/L
|	As	75	65.071	-0.00	-0.0629	0.020	31.607	ug/L
|	Se	77	172.002	-0.00	-2.2142	0.029	1.304	ug/L
⌊	Se	82	109.973	-0.00	-0.0822	0.041	49.258	ug/L
	Y	89	827411.349	21627.45				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	1401.545	0.00	0.1351	0.038	27.844	ug/L
|	Cd	114	43.729	0.00	0.0028	0.001	32.029	ug/L
|>	In	115	948121.799	948121.80				ug/L
⌊	Sb	123	756.898	0.00	0.0963	0.015	16.027	ug/L
⌈	Ba	135	266.940	0.00	0.1386	0.098	70.656	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	749831.922	749831.92				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	78.001	39.67	0.0048	0.001	24.049	ug/L
|	Tl	205	188.004	103.67	0.0052	0.001	18.021	ug/L
|	Pb	206	1160.211	1100.21	0.1531	0.022	14.632	ug/L
|	Pb	207	946.824	873.48	0.1429	0.013	9.256	ug/L
|	Pb	208	4399.093	4115.74	0.1435	0.006	4.049	ug/L
|>	Bi	209	790697.129	790697.13				ug/L
⌈	Na	23	191557.375	0.43	0.0369	0.007	17.966	mg/L
|	Mg	24	21702.829	0.05	0.0058	0.003	47.303	mg/L
|	K	39	865475.123	0.46	0.0182	0.016	87.976	mg/L
|	Ca	43	666.713	0.00	0.0389	0.034	86.611	mg/L
|	Fe	54	84598.090	0.11	0.0527	0.013	25.091	mg/L
|	Fe	57	9673.321	0.00	0.0058	0.005	89.422	mg/L

L> Sc	45	415121.619	415121.62		mg/L
Cl	35	65979.393	-2288438.22		mg/L
Kr	83	131.336	-8.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		96.624			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		104.117			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		105.989			
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.803			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		106.164			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		96.624			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 6L WG97853-03
Report Date/Time: Friday, May 25, 2001 15:21:33

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: LCSW 6L WG97853-04

Sample Date/Time: Friday, May 25, 2001 15:25:51
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 13
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.723	998.24				ug/L
⌈	Be	9	8246.412	0.02	101.4806	23.895	23.546	ug/L
|	Al	27	220393.428	0.49	141.2914	29.730	21.042	ug/L
⌊>	Sc-1	45	443082.583	443082.58				ug/L
⌈	V	51	378870.408	0.35	120.6216	8.343	6.917	ug/L
|	Cr	52	341021.410	0.30	122.3038	4.240	3.467	ug/L
|	Cr	53	37096.643	0.01	46.1815	13.080	28.324	ug/L
|	Mn	55	528754.772	0.49	126.0531	3.968	3.148	ug/L
|	Co	59	408139.319	0.38	117.7752	4.258	3.615	ug/L
|	Ni	60	90864.624	0.08	123.0420	2.192	1.782	ug/L
|	Cu	65	97290.862	0.09	118.0855	10.437	8.839	ug/L
|	Zn	66	72367.181	0.07	148.8592	16.328	10.969	ug/L
|>	Ge	72	1076298.006	1076298.01				ug/L
|	As	75	64122.801	0.06	112.9065	1.657	1.467	ug/L
|	Se	77	5195.222	0.00	101.5388	2.259	2.225	ug/L
⌊	Se	82	6528.875	0.01	106.8780	2.691	2.518	ug/L
	Y	89	855528.584	49744.69				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	313999.380	0.33	126.9697	6.273	4.940	ug/L
|	Cd	114	172714.794	0.18	116.8544	2.093	1.791	ug/L
|>	In	115	950757.968	950757.97				ug/L
⌊	Sb	123	166672.681	0.18	115.9266	2.279	1.966	ug/L
⌈	Ba	135	52242.448	0.07	117.1467	4.640	3.961	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	773400.589	773400.59				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	259469.452	259431.12	124.4682	1.766	1.419	ug/L
|	Tl	205	650002.436	649918.10	129.2167	0.656	0.507	ug/L
|	Pb	206	239916.555	239856.55	133.5020	1.477	1.106	ug/L
|	Pb	207	182031.802	181958.46	119.0725	1.337	1.123	ug/L
|	Pb	208	890289.887	890006.54	124.1397	0.796	0.641	ug/L
⌊>	Bi	209	791418.783	791418.78				ug/L
⌈	Na	23	64297.425	0.12	0.0394	0.016	39.836	mg/L
|	Mg	24	5669.024	0.01	0.0043	0.002	44.473	mg/L
|	K	39	781188.223	0.14	0.0216	0.030	141.217	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	62068.026	0.05	0.0873	0.050	57.433	mg/L
|	Fe	57	13011.888	0.01	0.0531	0.022	41.899	mg/L

> Sc	45	443082.583	443082.58			mg/L
Cl	35	56221.848	-2298195.76			mg/L
Kr	83	168.004	28.67			mg/L
U	238	0.000	0.00			mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
>	Sc-1	45		103.132			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.533			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		106.284			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
>	Tb	159		108.097			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
>	Bi	209		106.261			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
>	Sc	45		103.132			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 6L WG97853-04
Report Date/Time: Friday, May 25, 2001 15:26:40
Page 2

Method 6020 - Summary Report

Sample ID: 0543317 WG97853-02

Sample Date/Time: Friday, May 25, 2001 15:30:58
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 14
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23037.418	2669.93				ug/L
⌈	Be	9	100.101	0.00	0.6812	1.088	159.670	ug/L
|	Al	27	83697180.216	169.36	49081.7447	2240.166	4.564	ug/L
|>	Sc-1	45	494555.983	494555.98				ug/L
⌈	V	51	450546.650	0.46	155.9558	3.914	2.509	ug/L
|	Cr	52	216961.550	0.21	83.1202	2.239	2.694	ug/L
|	Cr	53	27389.785	0.01	20.7390	34.185	164.835	ug/L
|	Mn	55	1143779.567	1.15	297.0354	15.656	5.271	ug/L
|	Co	59	41797.028	0.04	13.1195	0.542	4.135	ug/L
|	Ni	60	33411.299	0.03	49.2054	0.321	0.652	ug/L
|	Cu	65	16201.661	0.02	21.3104	4.126	19.363	ug/L
|	Zn	66	97664.133	0.10	219.1122	12.149	5.545	ug/L
|>	Ge	72	989541.132	989541.13				ug/L
|	As	75	6041.995	0.01	11.2419	0.125	1.110	ug/L
|	Se	77	204.670	-0.00	-7.7584	0.659	8.488	ug/L
⌊	Se	82	149.127	0.00	0.5360	0.265	49.414	ug/L
	Y	89	890983.020	85199.13				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	166.839	0.00	0.0438	0.125	286.654	ug/L
|	Cd	114	85.809	0.00	0.0445	0.006	12.967	ug/L
|>	In	115	880048.868	880048.87				ug/L
⌊	Sb	123	1472.533	0.00	0.9640	0.009	0.882	ug/L
⌈	Ba	135	39951.298	0.05	92.6393	5.924	6.395	ug/L
|	Ce	140	469318.486	0.63				ug/L
|>	Tb	159	749063.550	749063.55				ug/L
⌈	Ho	165	7337.396	7337.40				ug/L
|	Tl	203	1037.753	999.42	0.4795	0.021	4.465	ug/L
|	Tl	205	2616.172	2531.84	0.5034	0.023	4.503	ug/L
|	Pb	206	56488.372	56428.37	31.4075	1.322	4.209	ug/L
|	Pb	207	46881.422	46808.08	30.6309	0.795	2.596	ug/L
|	Pb	208	219661.079	219377.73	30.5992	0.699	2.284	ug/L
|>	Bi	209	721987.493	721987.49				ug/L
⌈	Na	23	49584657.005	100.38	34.2360	2.858	8.349	mg/L
|	Mg	24	12963150.685	26.23	12.4412	0.868	6.976	mg/L
|	K	39	44785309.093	88.85	14.1099	0.764	5.414	mg/L
|	Ca	43	85185.240	0.17	15.7348	2.779	17.660	mg/L
|	Fe	54	10565487.381	21.27	41.2427	1.009	2.447	mg/L
|	Fe	57	4649536.568	9.38	45.1356	2.359	5.226	mg/L

⌊> Sc	45	494555.983	494555.98		mg/L
Cl	35	130177.546	-2224240.06		mg/L
Kr	83	197.005	57.67		mg/L
U	238	8672.972	8672.97		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
⌈ Be	9					
| Al	27					
⌊> Sc-1	45		115.113			
⌈ V	51					
| Cr	52					
| Cr	53					
| Mn	55					
| Co	59					
| Ni	60					
| Cu	65					
| Zn	66					
|> Ge	72		96.107			
| As	75					
| Se	77					
⌊ Se	82					
Y	89					
⌈ Rh	103					
| Ag	107					
| Cd	114					
|> In	115		98.380			
⌊ Sb	123					
⌈ Ba	135					
| Ce	140					
⌊> Tb	159		104.695			
⌈ Ho	165					
| Tl	203					
| Tl	205					
| Pb	206					
| Pb	207					
| Pb	208					
⌊> Bi	209		96.939			
⌈ Na	23					
| Mg	24					
| K	39					
| Ca	43					
| Fe	54					
| Fe	57					
⌊> Sc	45		115.113			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 WG97853-02
Report Date/Time: Friday, May 25, 2001 15:31:47

Al 27 Upper, S, EEE	Al	27
Se 77 Lower	Se	77

Method 6020 - Summary Report

Sample ID: 0543317 DP WG97853-07

Sample Date/Time: Friday, May 25, 2001 15:36:06
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 15
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.629	998.14				ug/L
⌈	Be	9	367.045	0.00	3.2704	2.124	64.953	ug/L
|	Al	27	82325095.294	154.46	44762.9944	5939.176	13.268	ug/L
\>	Sc-1	45	538002.523	538002.52				ug/L
⌈	V	51	442707.408	0.46	158.8584	4.176	2.629	ug/L
|	Cr	52	222158.045	0.22	88.5382	3.577	4.040	ug/L
|	Cr	53	25378.541	0.00	16.8348	7.716	45.834	ug/L
|	Mn	55	1116801.839	1.17	300.6192	6.345	2.111	ug/L
|	Co	59	40756.667	0.04	13.2591	0.358	2.701	ug/L
|	Ni	60	32036.985	0.03	48.9187	0.505	1.031	ug/L
|	Cu	65	17037.419	0.02	23.2493	2.222	9.559	ug/L
|	Zn	66	78436.334	0.08	182.0476	29.873	16.409	ug/L
\>	Ge	72	954428.125	954428.12				ug/L
|	As	75	5843.957	0.01	11.2751	0.250	2.215	ug/L
|	Se	77	219.337	-0.00	-7.2169	0.363	5.027	ug/L
⌊	Se	82	136.786	0.00	0.4044	0.082	20.223	ug/L
	Y	89	776071.185	-29712.71				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	133.468	0.00	0.0328	0.027	82.463	ug/L
|	Cd	114	86.715	0.00	0.0484	0.005	10.693	ug/L
\>	In	115	836380.961	836380.96				ug/L
⌊	Sb	123	1015.788	0.00	0.6603	0.012	1.800	ug/L
⌈	Ba	135	38509.038	0.06	101.0323	10.587	10.479	ug/L
|	Ce	140	455086.782	0.69				ug/L
\>	Tb	159	661629.489	661629.49				ug/L
⌈	Ho	165	2000.467	2000.47				ug/L
|	Tl	203	932.404	894.07	0.4290	0.013	2.971	ug/L
|	Tl	205	2383.755	2299.42	0.4572	0.011	2.508	ug/L
|	Pb	206	52890.385	52830.38	29.4049	0.369	1.256	ug/L
|	Pb	207	42678.059	42604.72	27.8803	0.402	1.440	ug/L
|	Pb	208	204473.811	204190.46	28.4808	0.174	0.613	ug/L
\>	Bi	209	685664.110	685664.11				ug/L
⌈	Na	23	54577556.495	102.23	34.8669	4.284	12.288	mg/L
|	Mg	24	14087240.211	26.43	12.5361	1.660	13.242	mg/L
|	K	39	43169344.332	79.12	12.5654	1.306	10.391	mg/L
|	Ca	43	94627.760	0.18	16.1298	0.745	4.621	mg/L
|	Fe	54	10853913.318	20.28	39.3241	5.630	14.316	mg/L
|	Fe	57	4575675.780	8.53	41.0764	3.439	8.373	mg/L

└>	Sc	45	538002.523	538002.52	mg/L
	Cl	35	127126.144	-2227291.47	mg/L
	Kr	83	180.004	40.67	mg/L
	U	238	7004.320	7004.32	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
└>	Sc-1	45		125.225			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.696			
|	As	75					
|	Se	77					
└	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		93.498			
└	Sb	123					
⌈	Ba	135					
|	Ce	140					
└>	Tb	159		92.475			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
└>	Bi	209		92.062			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
└>	Sc	45		125.225			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543317 DP WG97853-07
Report Date/Time: Friday, May 25, 2001 15:36:55

Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Se 77 Lower	Se	77
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0543318 WG97853-01

Sample Date/Time: Friday, May 25, 2001 15:41:13
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 16
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.800	-4.69				ug/L
⌈	Be	9	133.469	0.00	1.3009	2.028	155.863	ug/L
|	Al	27	32734025.986	74.62	21625.7573	1214.240	5.615	ug/L
\>	Sc-1	45	439477.815	439477.81				ug/L
⌈	V	51	194222.627	0.21	70.7917	1.519	2.146	ug/L
|	Cr	52	97051.649	0.09	36.5226	1.271	3.481	ug/L
|	Cr	53	11342.721	-0.01	-37.1482	11.315	30.459	ug/L
|	Mn	55	482364.966	0.51	131.4798	3.887	2.956	ug/L
|	Co	59	20148.558	0.02	6.6472	0.373	5.616	ug/L
|	Ni	60	13726.936	0.01	21.2527	1.519	7.146	ug/L
|	Cu	65	7010.449	0.01	9.6480	0.394	4.082	ug/L
|	Zn	66	55554.929	0.06	130.3820	27.646	21.204	ug/L
\>	Ge	72	941233.345	941233.34				ug/L
|	As	75	2452.545	0.00	4.5870	0.137	2.982	ug/L
|	Se	77	170.669	-0.00	-8.3629	0.123	1.468	ug/L
⌊	Se	82	148.011	0.00	0.6548	0.189	28.930	ug/L
	Y	89	752329.068	-53454.83				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0026	0.027	1052.236	ug/L
|	Cd	114	62.244	0.00	0.0304	0.002	7.239	ug/L
\>	In	115	820858.248	820858.25				ug/L
⌊	Sb	123	1870.817	0.00	1.3652	0.039	2.893	ug/L
⌈	Ba	135	20115.143	0.03	53.1853	5.710	10.737	ug/L
|	Ce	140	206270.028	0.31				ug/L
\>	Tb	159	656542.675	656542.67				ug/L
⌈	Ho	165	2333.777	2333.78				ug/L
|	Tl	203	487.355	449.02	0.2154	0.002	1.143	ug/L
|	Tl	205	1188.778	1104.44	0.2196	0.011	4.928	ug/L
|	Pb	206	24905.865	24845.86	13.8290	0.473	3.420	ug/L
|	Pb	207	20842.499	20769.16	13.5912	0.701	5.156	ug/L
|	Pb	208	98105.425	97822.07	13.6444	0.234	1.715	ug/L
\>	Bi	209	668220.373	668220.37				ug/L
⌈	Na	23	81608081.320	186.43	63.5821	6.866	10.799	mg/L
|	Mg	24	5718697.103	13.05	6.1868	0.449	7.264	mg/L
|	K	39	21285285.837	46.82	7.4359	0.132	1.777	mg/L
|	Ca	43	43136.368	0.10	8.9320	2.020	22.618	mg/L
|	Fe	54	4603864.895	10.42	20.2041	1.918	9.495	mg/L
|	Fe	57	1968389.985	4.47	21.5006	0.802	3.731	mg/L

L>	Sc	45	439477.815	439477.81	mg/L
	Cl	35	178552.009	-2175865.60	mg/L
	Kr	83	139.669	0.33	mg/L
	U	238	4334.757	4334.76	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		102.293			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.415			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		91.763			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		91.764			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		89.720			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		102.293			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 WG97853-01
Report Date/Time: Friday, May 25, 2001 15:42:02

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543318 S WG97853-05

Sample Date/Time: Friday, May 25, 2001 15:46:21
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 17
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24041.373	3673.89				ug/L
⌈	Be	9	11286.897	0.02	133.3010	13.723	10.295	ug/L
|	Al	27	49787081.440	109.00	31589.0032	1467.589	4.646	ug/L
⌊>	Sc-1	45	457190.951	457190.95				ug/L
⌈	V	51	615067.894	0.67	228.2887	12.380	5.423	ug/L
|	Cr	52	435699.294	0.46	184.7017	9.950	5.387	ug/L
|	Cr	53	47155.188	0.03	107.9069	4.265	3.953	ug/L
|	Mn	55	1124214.826	1.22	313.1376	13.829	4.416	ug/L
|	Co	59	393362.858	0.43	132.4210	5.050	3.814	ug/L
|	Ni	60	94650.459	0.10	149.5008	2.337	1.563	ug/L
|	Cu	65	98237.022	0.11	139.0967	10.307	7.410	ug/L
|	Zn	66	98684.979	0.11	237.4281	30.882	13.007	ug/L
|>	Ge	72	922653.347	922653.35				ug/L
|	As	75	58347.361	0.06	119.8679	1.143	0.954	ug/L
|	Se	77	4411.363	0.00	100.4475	3.324	3.309	ug/L
⌊	Se	82	5424.926	0.01	103.5304	2.265	2.188	ug/L
	Y	89	757922.816	-47861.08				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	251844.437	0.31	120.6191	2.642	2.190	ug/L
|	Cd	114	153151.484	0.19	122.7630	1.508	1.229	ug/L
|>	In	115	802400.837	802400.84				ug/L
⌊	Sb	123	69498.687	0.09	57.1981	1.099	1.921	ug/L
⌈	Ba	135	70179.785	0.11	197.5322	16.653	8.431	ug/L
|	Ce	140	215197.328	0.35				ug/L
⌊>	Tb	159	618019.421	618019.42				ug/L
⌈	Ho	165	1333.567	1333.57				ug/L
|	Tl	203	221157.068	221118.73	106.0870	0.326	0.307	ug/L
|	Tl	205	558176.055	558091.72	110.9598	0.445	0.401	ug/L
|	Pb	206	238476.416	238416.41	132.7005	2.191	1.651	ug/L
|	Pb	207	181682.986	181609.64	118.8442	1.069	0.900	ug/L
|	Pb	208	886419.414	886136.06	123.5998	1.303	1.054	ug/L
⌊>	Bi	209	659940.661	659940.66				ug/L
⌈	Na	23	94004245.571	206.11	70.2966	7.464	10.618	mg/L
|	Mg	24	7461180.354	16.33	7.7442	0.388	5.013	mg/L
|	K	39	22645149.040	48.01	7.6252	0.782	10.250	mg/L
|	Ca	43	45152.424	0.10	9.1338	3.367	36.862	mg/L
|	Fe	54	5706366.540	12.39	24.0341	0.903	3.757	mg/L
|	Fe	57	2518652.851	5.50	26.4685	1.482	5.600	mg/L

Sc	45	457190.951	457190.95		mg/L
Cl	35	183667.818	-2170749.79		mg/L
Kr	83	151.003	11.67		mg/L
U	238	5335.621	5335.62		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		106.416			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		89.610			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		89.699			
Sb	123					
Ba	135					
Ce	140					
Tb	159		86.380			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		88.608			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		106.416			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 S WG97853-05
Report Date/Time: Friday, May 25, 2001 15:47:11

1102

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0543318 SD WG97853-06

Sample Date/Time: Friday, May 25, 2001 15:51:30
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 200.000
Autosampler Position: 18
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 4

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.676	998.19				ug/L
⌈	Be	9	9883.433	0.02	111.9688	8.729	7.796	ug/L
|	Al	27	44886778.148	95.03	27538.8790	3489.250	12.670	ug/L
\>	Sc-1	45	475369.963	475369.96				ug/L
⌈	V	51	623374.511	0.67	230.4763	14.489	6.286	ug/L
|	Cr	52	448629.220	0.47	189.5366	0.853	0.450	ug/L
|	Cr	53	42795.155	0.02	89.7749	16.282	18.137	ug/L
|	Mn	55	1056675.775	1.14	293.0515	15.012	5.123	ug/L
|	Co	59	385273.031	0.42	129.2178	6.822	5.279	ug/L
|	Ni	60	90797.270	0.10	142.8800	3.562	2.493	ug/L
|	Cu	65	93129.525	0.10	131.2995	3.713	2.828	ug/L
|	Zn	66	104431.130	0.11	250.6544	30.928	12.339	ug/L
\>	Ge	72	926077.677	926077.68				ug/L
|	As	75	57464.055	0.06	117.6059	0.738	0.627	ug/L
|	Se	77	4297.959	0.00	97.1466	1.668	1.717	ug/L
⌊	Se	82	5220.320	0.01	99.1557	0.449	0.453	ug/L
	Y	89	762802.447	-42981.45				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	265436.561	0.33	126.9377	2.226	1.754	ug/L
|	Cd	114	154598.012	0.19	123.7436	1.856	1.500	ug/L
\>	In	115	803607.733	803607.73				ug/L
⌊	Sb	123	71814.283	0.09	59.0202	1.040	1.763	ug/L
⌈	Ba	135	71325.379	0.12	199.9442	14.736	7.370	ug/L
|	Ce	140	220005.942	0.36				ug/L
\>	Tb	159	620188.931	620188.93				ug/L
⌈	Ho	165	1666.923	1666.92				ug/L
|	Tl	203	220135.955	220097.62	105.5970	0.629	0.596	ug/L
|	Tl	205	562087.552	562003.22	111.7374	0.625	0.559	ug/L
|	Pb	206	238320.708	238260.70	132.6138	0.670	0.505	ug/L
|	Pb	207	180982.243	180908.90	118.3856	1.495	1.263	ug/L
|	Pb	208	880888.759	880605.41	122.8284	0.291	0.237	ug/L
\>	Bi	209	637758.237	637758.24				ug/L
⌈	Na	23	90560866.613	191.91	65.4526	9.959	15.216	mg/L
|	Mg	24	7024837.119	14.82	7.0302	0.510	7.255	mg/L
|	K	39	23990583.987	49.01	7.7839	0.604	7.756	mg/L
|	Ca	43	49170.676	0.10	9.4937	1.257	13.242	mg/L
|	Fe	54	5646175.551	11.79	22.8631	0.494	2.161	mg/L
|	Fe	57	2156734.993	4.54	21.8583	1.996	9.134	mg/L

|> Sc	45	475369.963	475369.96		mg/L
Cl	35	149211.028	-2205206.58		mg/L
Kr	83	139.669	0.33		mg/L
U	238	7003.478	7003.48		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
|> Sc-1	45		110.647			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
|> Ge	72		89.943			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
|> In	115		89.834			
Sb	123					
Ba	135					
Ce	140					
|> Tb	159		86.683			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
|> Bi	209		85.630			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
|> Sc	45		110.647			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0543318 SD WG97853-06
Report Date/Time: Friday, May 25, 2001 15:52:19

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23

Method 6020 - Summary Report

Sample ID: 0540411 PS

Sample Date/Time: Friday, May 25, 2001 15:56:39
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 100.000
Autosampler Position: 19
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 2

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27386.310	7018.82				ug/L
⌈	Be	9	20249.088	0.04	114.4263	16.850	14.726	ug/L
|	Al	27	533245.656	1.10	159.0080	12.121	7.623	ug/L
⌊>	Sc-1	45	479596.283	479596.28				ug/L
⌈	V	51	815884.477	0.87	148.5844	6.313	4.249	ug/L
|	Cr	52	740145.994	0.78	155.6679	2.051	1.318	ug/L
|	Cr	53	78435.665	0.06	114.3537	27.267	23.844	ug/L
|	Mn	55	1081778.051	1.15	147.9755	6.875	4.646	ug/L
|	Co	59	843214.488	0.90	139.3212	6.943	4.983	ug/L
|	Ni	60	168878.338	0.18	130.9442	5.809	4.436	ug/L
|	Cu	65	192693.761	0.21	133.9537	6.339	4.732	ug/L
|	Zn	66	115599.491	0.12	136.6387	9.877	7.229	ug/L
| >	Ge	72	939226.908	939226.91				ug/L
|	As	75	113572.360	0.12	114.7581	1.336	1.164	ug/L
|	Se	77	8522.415	0.01	101.0392	3.083	3.051	ug/L
⌊	Se	82	10811.161	0.01	102.3668	0.100	0.098	ug/L
	Y	89	742210.669	-63573.23				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	518147.777	0.64	122.9803	3.472	2.823	ug/L
|	Cd	114	312906.406	0.39	124.3024	1.093	0.879	ug/L
| >	In	115	809560.876	809560.88				ug/L
⌊	Sb	123	314710.183	0.39	128.6059	1.970	1.532	ug/L
⌈	Ba	135	101077.758	0.15	131.7646	2.622	1.990	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	664909.406	664909.41				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	475412.987	475374.65	114.0361	1.195	1.048	ug/L
|	Tl	205	1209584.421	1209500.09	120.2364	1.597	1.328	ug/L
|	Pb	206	439158.667	439098.66	122.1992	1.811	1.482	ug/L
|	Pb	207	345391.603	345318.26	112.9870	1.572	1.391	ug/L
|	Pb	208	1660600.313	1660316.96	115.7919	1.027	0.887	ug/L
⌊>	Bi	209	657856.940	657856.94				ug/L
⌈	Na	23	418989.272	0.84	0.1434	0.011	7.723	mg/L
|	Mg	24	158761.148	0.33	0.0779	0.013	16.368	mg/L
|	K	39	684365.789	-0.21	-0.0167	0.010	61.048	mg/L
|	Ca	43	3334.174	0.01	0.3189	0.112	34.973	mg/L
|	Fe	54	118804.507	0.15	0.1471	0.032	22.037	mg/L
|	Fe	57	16018.502	0.01	0.0361	0.020	55.995	mg/L

L>	Sc	45	479596.283	479596.28	mg/L
	Cl	35	79465.082	-2274952.53	mg/L
	Kr	83	116.669	-22.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		111.631			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		91.220			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		90.500			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		92.933			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		88.328			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		111.631			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411 PS
Report Date/Time: Friday, May 25, 2001 15:57:28

Method 6020 - Summary Report

Sample ID: 0540411 SDL

Sample Date/Time: Friday, May 25, 2001 16:05:53
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 20
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24711.036	4343.55				ug/L
⌈	Be	9	0.000	-0.00	-1.0499	0.000	0.000	ug/L
|	Al	27	30733.219	0.05	37.5357	3.115	8.298	ug/L
|>	Sc-1	45	455427.309	455427.31				ug/L
⌈	V	51	5861.503	0.01	5.8895	0.889	15.091	ug/L
|	Cr	52	13392.653	0.00	2.1997	1.328	60.355	ug/L
|	Cr	53	1666.877	-0.02	-188.1801	5.748	3.054	ug/L
|	Mn	55	1434.913	0.00	0.1920	0.074	38.436	ug/L
|	Co	59	100.101	0.00	0.0832	0.083	100.370	ug/L
|	Ni	60	100.101	0.00	0.3893	0.388	99.693	ug/L
|	Cu	65	100.102	0.00	0.1395	0.608	436.171	ug/L
|	Zn	66	1667.063	0.00	6.2946	12.342	196.075	ug/L
|>	Ge	72	937484.622	937484.62				ug/L
|	As	75	66.924	-0.00	-0.5773	0.196	33.997	ug/L
|	Se	77	121.334	-0.00	-23.9770	0.155	0.644	ug/L
⌊	Se	82	91.393	-0.00	-1.0480	0.400	38.177	ug/L
	Y	89	682529.531	-123254.36				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	66.734	0.00	0.0065	0.068	1038.901	ug/L
|	Cd	114	20.046	-0.00	-0.0066	0.003	38.268	ug/L
|>	In	115	821322.109	821322.11				ug/L
⌊	Sb	123	268.615	0.00	0.1822	0.032	17.467	ug/L
⌈	Ba	135	33.367	0.00	0.0099	0.367	3711.686	ug/L
|	Ce	140	333.357	0.00				ug/L
|>	Tb	159	678438.329	678438.33				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	29.000	-9.33	-0.0112	0.006	56.695	ug/L
|	Tl	205	73.334	-11.00	-0.0055	0.006	117.246	ug/L
|	Pb	206	186.688	126.68	0.1763	0.035	19.868	ug/L
|	Pb	207	120.013	46.67	0.0764	0.087	113.390	ug/L
|	Pb	208	627.045	343.69	0.1198	0.017	14.160	ug/L
|>	Bi	209	678126.565	678126.57				ug/L
⌈	Na	23	98356.433	0.18	0.1554	0.027	17.361	mg/L
|	Mg	24	33413.235	0.07	0.0827	0.019	22.809	mg/L
|	K	39	666429.228	-0.17	-0.0679	0.064	94.543	mg/L
|	Ca	43	666.713	0.00	0.3266	0.283	86.657	mg/L
|	Fe	54	54500.261	0.02	0.1151	0.085	74.035	mg/L
|	Fe	57	6002.661	-0.01	-0.0651	0.048	73.373	mg/L

L>	Sc	45	455427.309	455427.31	mg/L
	Cl	35	41120.033	-2313297.58	mg/L
	Kr	83	120.669	-18.67	mg/L
	U	238	0.000	0.00	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		106.005			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		91.051			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		91.815			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		94.824			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		91.050			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		106.005			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0540411 SDL
Report Date/Time: Friday, May 25, 2001 16:06:44

Be 9 Lower	Be	9
Cr 53 Lower	Cr	53
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 16:11:03
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.260	1666.77				ug/L
⌈	Be	9	21487.131	0.05	51.8516	6.020	11.610	ug/L
|	Al	27	368274.543	0.81	46.8907	6.610	14.097	ug/L
L>	Sc-1	45	449778.462	449778.46				ug/L
⌈	V	51	800413.138	0.81	55.7323	3.724	6.681	ug/L
|	Cr	52	681645.922	0.68	54.6531	1.498	2.741	ug/L
|	Cr	53	87205.275	0.07	49.5652	11.717	23.640	ug/L
|	Mn	55	1050695.491	1.07	54.8956	0.733	1.335	ug/L
|	Co	59	812906.902	0.83	51.3448	1.256	2.446	ug/L
|	Ni	60	168876.482	0.17	50.0564	2.662	5.317	ug/L
|	Cu	65	192346.734	0.20	51.0861	0.918	1.797	ug/L
|	Zn	66	132215.409	0.13	59.7553	2.930	4.903	ug/L
| >	Ge	72	983464.449	983464.45				ug/L
|	As	75	127220.483	0.13	49.1223	1.028	2.094	ug/L
|	Se	77	10737.400	0.01	49.1223	0.547	1.114	ug/L
L	Se	82	13651.654	0.01	49.4772	0.947	1.915	ug/L
	Y	89	764893.067	-40890.83				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	576557.309	0.69	53.3311	0.810	1.519	ug/L
|	Cd	114	336383.244	0.40	52.0750	0.464	0.892	ug/L
| >	In	115	831054.428	831054.43				ug/L
L	Sb	123	319702.956	0.38	50.9166	1.165	2.288	ug/L
⌈	Ba	135	93975.179	0.14	48.6069	1.952	4.017	ug/L
|	Ce	140	0.000	0.00				ug/L
L>	Tb	159	670396.952	670396.95				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	473082.544	473044.21	45.3908	0.599	1.319	ug/L
|	Tl	205	1194771.008	1194686.67	47.5055	0.910	1.915	ug/L
|	Pb	206	443745.193	443685.19	49.3903	1.041	2.108	ug/L
|	Pb	207	336444.785	336371.44	44.0239	0.476	1.081	ug/L
|	Pb	208	1654168.608	1653885.26	46.1374	0.409	0.887	ug/L
L>	Bi	209	695727.497	695727.50				ug/L
⌈	Na	23	32539931.159	72.43	4.9407	0.711	14.391	mg/L
|	Mg	24	24065340.816	53.54	5.0781	0.152	2.992	mg/L
|	K	39	78489716.967	173.53	5.5118	0.447	8.103	mg/L
|	Ca	43	136633.429	0.31	5.6081	0.844	15.042	mg/L
|	Fe	54	4844264.146	10.71	4.1523	0.450	10.833	mg/L
|	Fe	57	2064409.008	4.58	4.4123	0.215	4.873	mg/L

\> Sc	45	449778.462	449778.46		mg/L
Cl	35	35421.427	-2318996.18		mg/L
Kr	83	130.669	-8.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	103.703				
|	Al	27	93.781				
\>	Sc-1	45		104.690			
⌈	V	51	111.465				
|	Cr	52	109.306				
|	Cr	53	99.130				
|	Mn	55	109.791				
|	Co	59	102.690				
|	Ni	60	100.113				
|	Cu	65	102.172				
|	Zn	66	119.511				
\>	Ge	72		95.516			
|	As	75	98.245				
|	Se	77	98.245				
⌊	Se	82	98.954				
	Y	89					
⌈	Rh	103					
|	Ag	107	106.662				
|	Cd	114	104.150				
\>	In	115		92.903			
⌊	Sb	123	101.833				
⌈	Ba	135	97.214				
|	Ce	140					
\>	Tb	159		93.700			
⌈	Ho	165					
|	Tl	203	90.782				
|	Tl	205	95.011				
|	Pb	206	98.781				
|	Pb	207	88.048				
|	Pb	208	92.275				
\>	Bi	209		93.413			
⌈	Na	23	98.814				
|	Mg	24	101.561				
|	K	39	110.235				
|	Ca	43	112.163				
|	Fe	54	83.046				
|	Fe	57	88.245				
\>	Sc	45		104.690			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 16:11:53

QC Std 6	V	51	CCV is out of limits (+/-10%)
QC Std 6	Cr	53	CCV is out of limits (+/-10%)
QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Pb	207	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 16:16:10
Number of Replicates: 3
Aliquot Volume (mL): 40.000
Diluted To Volume (mL): 500.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23708.957	3341.47				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	5335.434	-0.00	-0.2050	0.209	102.139	ug/L
|>	Sc-1	45	449097.439	449097.44				ug/L
⌈	V	51	4222.999	0.01	0.3429	0.051	14.993	ug/L
|	Cr	52	12122.437	0.00	0.0407	0.111	273.138	ug/L
|	Cr	53	2667.227	-0.02	-14.3186	0.893	6.238	ug/L
|	Mn	55	500.519	-0.00	-0.0365	0.006	16.645	ug/L
|	Co	59	0.000	0.00	0.0000	0.000		ug/L
|	Ni	60	33.367	0.00	0.0098	0.017	173.205	ug/L
|	Cu	65	0.000	-0.00	-0.0169	0.000	0.000	ug/L
|	Zn	66	333.357	-0.00	-0.1390	0.260	187.376	ug/L
|>	Ge	72	963602.125	963602.12				ug/L
|	As	75	176.587	-0.00	-0.0031	0.032	1051.013	ug/L
|	Se	77	125.334	-0.00	-1.9166	0.103	5.399	ug/L
⌊	Se	82	110.038	-0.00	-0.0218	0.120	551.094	ug/L
	Y	89	741825.658	-63958.24				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	15.808	-0.00	-0.0012	0.000	20.160	ug/L
|>	In	115	816096.680	816096.68				ug/L
⌊	Sb	123	931.047	0.00	0.1228	0.010	8.029	ug/L
⌈	Ba	135	33.367	-0.00	-0.0003	0.028	10540.257	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	665707.646	665707.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	36.000	-2.33	-0.0002	0.001	257.143	ug/L
|	Tl	205	62.668	-21.67	-0.0009	0.000	26.244	ug/L
|	Pb	206	103.344	43.34	0.0048	0.004	81.044	ug/L
|	Pb	207	66.674	-6.67	-0.0009	0.004	482.182	ug/L
|	Pb	208	308.021	24.67	0.0007	0.001	164.572	ug/L
|>	Bi	209	690773.076	690773.08				ug/L
⌈	Na	23	13347.396	-0.00	-0.0001	0.001	828.850	mg/L
|	Mg	24	1333.473	-0.00	-0.0001	0.000	137.895	mg/L
|	K	39	715484.159	-0.04	-0.0013	0.003	262.494	mg/L
|	Ca	43	333.357	0.00	0.0134	0.023	173.205	mg/L
|	Fe	54	49501.987	0.01	0.0051	0.005	89.666	mg/L
|	Fe	57	7670.986	-0.00	-0.0012	0.006	532.065	mg/L

⌊> Sc	45	449097.439	449097.44		mg/L
Cl	35	28056.725	-2326360.89		mg/L
Kr	83	146.336	7.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
⌊>	Sc-1	45		104.532			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.587			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		91.230			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.045			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
⌊>	Bi	209		92.748			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
⌊>	Sc	45		104.532			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 16:16:59

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: PBS 4G WG98121-03

Sample Date/Time: Friday, May 25, 2001 16:21:18
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 21
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	26717.492	6350.00				ug/L
⌈	Be	9	0.000	-0.00	-8.3990	0.000	0.000	ug/L
|	Al	27	253440.152	0.49	2838.3797	407.910	14.371	ug/L
⌊>	Sc-1	45	504236.959	504236.96				ug/L
⌈	V	51	5953.374	0.01	47.5914	26.782	56.276	ug/L
|	Cr	52	22123.142	0.01	90.3289	21.176	23.443	ug/L
|	Cr	53	3667.717	-0.02	-1350.5112	118.240	8.755	ug/L
|	Mn	55	18877.123	0.02	95.9724	2.940	3.064	ug/L
|	Co	59	767.476	0.00	5.0108	0.913	18.218	ug/L
|	Ni	60	1601.782	0.00	49.2242	3.504	7.118	ug/L
|	Cu	65	1201.303	0.00	31.4313	3.418	10.874	ug/L
|	Zn	66	10674.840	0.01	473.7755	97.286	20.534	ug/L
| >	Ge	72	949014.824	949014.82				ug/L
|	As	75	29.171	-0.00	-6.1719	1.199	19.423	ug/L
|	Se	77	150.002	-0.00	-178.1582	6.771	3.801	ug/L
⌊	Se	82	94.342	-0.00	-7.7187	2.682	34.750	ug/L
	Y	89	794587.423	-11196.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	233.571	0.00	1.4688	1.020	69.453	ug/L
|	Cd	114	48.671	0.00	0.3433	0.103	29.991	ug/L
| >	In	115	881640.074	881640.07				ug/L
⌊	Sb	123	1203.224	0.00	15.1989	1.627	10.702	ug/L
⌈	Ba	135	1034.444	0.00	49.4498	6.233	12.605	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	702332.197	702332.20				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	40.667	2.33	0.0224	0.077	343.749	ug/L
|	Tl	205	84.668	0.33	0.0013	0.048	3604.111	ug/L
|	Pb	206	1113.532	1053.53	11.7277	0.973	8.295	ug/L
|	Pb	207	953.493	880.15	11.5193	1.987	17.247	ug/L
|	Pb	208	4390.093	4106.74	11.4563	0.205	1.792	ug/L
⌊>	Bi	209	615274.783	615274.78				ug/L
⌈	Na	23	416172.902	0.80	5.4339	0.764	14.057	mg/L
|	Mg	24	60591.553	0.12	1.1046	0.137	12.432	mg/L
|	K	39	837386.362	0.03	0.0867	0.471	543.760	mg/L
|	Ca	43	3000.677	0.01	10.9073	3.699	33.912	mg/L
|	Fe	54	453013.122	0.81	31.2513	3.321	10.628	mg/L
|	Fe	57	19359.643	0.02	1.9130	0.378	19.759	mg/L

Sc	45	504236.959	504236.96		mg/L
Cl	35	91585.146	-2262832.47		mg/L
Kr	83	109.002	-30.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		117.366			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.171			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		98.557			
Sb	123					
Ba	135					
Ce	140					
Tb	159		98.164			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		82.611			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		117.366			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 4G WG98121-03
Report Date/Time: Friday, May 25, 2001 16:22:08

Be 9 Lower	Be	9
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82

Method 6020 - Summary Report

Sample ID: LCSS 4G WG98121-04

Sample Date/Time: Friday, May 25, 2001 16:26:52
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 22
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	27052.957	6685.47				ug/L
⌈	Be	9	4339.064	0.01	9110.6394	1883.952	20.679	ug/L
|	Al	27	98682.114	0.18	10446.9586	1060.202	10.148	ug/L
⌊>	Sc-1	45	504625.190	504625.19				ug/L
⌈	V	51	163965.273	0.17	11320.9903	312.478	2.760	ug/L
|	Cr	52	151337.719	0.14	11254.4310	713.264	6.338	ug/L
|	Cr	53	16019.767	-0.01	-4412.2485	4620.550	104.721	ug/L
|	Mn	55	215483.235	0.22	11086.0211	359.016	3.238	ug/L
|	Co	59	155051.663	0.16	9687.4398	183.100	1.890	ug/L
|	Ni	60	34249.454	0.03	10040.1334	160.974	1.603	ug/L
|	Cu	65	38609.514	0.04	10129.6279	561.750	5.546	ug/L
|	Zn	66	27388.469	0.03	12039.0624	3504.123	29.106	ug/L
| >	Ge	72	994221.358	994221.36				ug/L
|	As	75	24042.377	0.02	9123.6419	188.781	2.069	ug/L
|	Se	77	1980.941	0.00	6898.3489	297.854	4.318	ug/L
⌊	Se	82	2419.094	0.00	8313.8430	70.997	0.854	ug/L
	Y	89	759386.420	-46397.48				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	112255.899	0.13	9957.2010	670.580	6.735	ug/L
|	Cd	114	63929.776	0.07	9491.3152	36.291	0.382	ug/L
| >	In	115	866204.834	866204.83				ug/L
⌊	Sb	123	62780.997	0.07	9570.0678	312.553	3.266	ug/L
⌈	Ba	135	19345.688	0.03	9286.2592	1348.444	14.521	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	723945.737	723945.74				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	94243.974	94205.64	9039.4776	94.775	1.048	ug/L
|	Tl	205	238040.314	237955.98	9462.0777	208.792	2.207	ug/L
|	Pb	206	88358.699	88298.69	9829.2548	165.799	1.687	ug/L
|	Pb	207	67070.183	66996.84	8768.4622	183.258	2.090	ug/L
|	Pb	208	327741.959	327458.61	9134.8988	123.108	1.348	ug/L
⌊>	Bi	209	714508.395	714508.40				ug/L
⌈	Na	23	65970.019	0.10	6.7326	0.760	11.287	mg/L
|	Mg	24	7337.583	0.01	0.9849	0.472	47.923	mg/L
|	K	39	671501.503	-0.30	-9.5631	4.710	49.254	mg/L
|	Ca	43	666.713	0.00	25.4305	22.031	86.634	mg/L
|	Fe	54	79567.479	0.06	23.2450	9.077	39.048	mg/L
|	Fe	57	7003.759	-0.00	-4.6549	4.845	104.089	mg/L

Sc	45	504625.190	504625.19		mg/L
Cl	35	33413.235	-2321004.38		mg/L
Kr	83	119.336	-20.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		117.457			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		96.561			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		96.832			
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.185			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		95.935			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		117.457			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 4G WG98121-04
Report Date/Time: Friday, May 25, 2001 16:27:50

Cr 53 Lower	Cr	53
K 39 Lower	K	39
Fe 57 Lower	Fe	57

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2001 16:32:10
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	22034.073	1666.59				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	67820197.552	167.44	9704.6642	1434.432	14.781	ug/L
⌊>	Sc-1	45	408772.293	408772.29				ug/L
⌈	V	51	47.047	0.00	0.0480	0.394	821.473	ug/L
|	Cr	52	17539.067	0.01	0.4442	0.080	17.910	ug/L
|	Cr	53	8672.878	-0.01	-9.8887	3.405	34.438	ug/L
|	Mn	55	6709.999	0.01	0.2834	0.089	31.314	ug/L
|	Co	59	1368.172	0.00	0.0854	0.023	27.264	ug/L
|	Ni	60	2369.440	0.00	0.6946	0.151	21.713	ug/L
|	Cu	65	1001.080	0.00	0.2462	0.115	46.741	ug/L
|	Zn	66	4001.307	0.00	1.5112	0.909	60.155	ug/L
| >	Ge	72	994779.933	994779.93				ug/L
|	As	75	105.904	-0.00	-0.0327	0.042	129.560	ug/L
|	Se	77	603.359	0.00	0.3405	0.423	124.210	ug/L
⌊	Se	82	117.553	-0.00	-0.0095	0.019	198.797	ug/L
	Y	89	721708.399	-84075.50				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	133.471	0.00	0.0063	0.021	329.769	ug/L
|	Cd	114	2314.880	0.00	0.3437	0.005	1.310	ug/L
| >	In	115	857313.740	857313.74				ug/L
⌊	Sb	123	857.910	0.00	0.1037	0.003	3.049	ug/L
⌈	Ba	135	233.571	0.00	0.0965	0.055	57.484	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	718048.965	718048.96				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	88.335	50.00	0.0048	0.002	39.107	ug/L
|	Tl	205	234.006	149.67	0.0060	0.001	9.978	ug/L
|	Pb	206	1343.594	1283.59	0.1429	0.008	5.474	ug/L
|	Pb	207	1206.889	1133.55	0.1484	0.007	5.018	ug/L
|	Pb	208	5610.837	5327.49	0.1486	0.001	0.621	ug/L
⌊>	Bi	209	700100.238	700100.24				ug/L
⌈	Na	23	149959153.650	370.78	25.2917	4.427	17.502	mg/L
|	Mg	24	41056719.779	100.98	9.5785	1.240	12.943	mg/L
|	K	39	128815476.670	315.49	10.0208	1.161	11.582	mg/L
|	Ca	43	703375.342	1.73	31.6530	1.805	5.701	mg/L
|	Fe	54	22145693.407	54.53	21.1498	2.695	12.743	mg/L
|	Fe	57	9420943.435	23.17	22.3073	2.679	12.008	mg/L

Sc	45	408772.293	408772.29		mg/L
Cl	35	6221466.134	3867048.52		mg/L
Kr	83	157.337	18.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27	97.047				
Sc-1	45		95.146			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		96.615			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		95.838			
Sb	123					
Ba	135					
Ce	140					
Tb	159		100.360			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		94.000			
Na	23	101.167				
Mg	24	95.785				
K	39	100.208				
Ca	43	105.510				
Fe	54	84.599				
Fe	57	89.229				
Sc	45		95.146			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, May 25, 2001 16:33:00

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2001 16:37:20
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29394.174	9026.69				ug/L
⌈	Be	9	33.367	0.00	0.0051	0.154	3043.208	ug/L
|	Al	27	66448112.630	164.43	9530.2283	985.012	10.336	ug/L
|>	Sc-1	45	405548.572	405548.57				ug/L
⌈	V	51	294159.633	0.30	20.3234	1.030	5.070	ug/L
|	Cr	52	269766.389	0.26	20.8509	0.410	1.967	ug/L
|	Cr	53	41119.751	0.02	14.4613	5.152	35.629	ug/L
|	Mn	55	404713.970	0.41	20.9214	0.562	2.686	ug/L
|	Co	59	299624.163	0.30	18.7508	0.662	3.528	ug/L
|	Ni	60	65329.139	0.07	19.1980	0.603	3.143	ug/L
|	Cu	65	72909.794	0.07	19.1838	0.514	2.679	ug/L
|	Zn	66	22703.829	0.02	9.9508	2.322	23.336	ug/L
|>	Ge	72	992151.584	992151.58				ug/L
|	As	75	25551.571	0.03	9.7214	0.210	2.158	ug/L
|	Se	77	2651.826	0.00	10.1209	0.639	6.318	ug/L
⌊	Se	82	2802.540	0.00	9.7219	0.114	1.169	ug/L
	Y	89	812772.868	6988.97				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	54393.931	0.06	4.7988	0.253	5.265	ug/L
|	Cd	114	69076.392	0.08	10.2089	0.537	5.260	ug/L
|>	In	115	871779.735	871779.73				ug/L
⌊	Sb	123	823.821	0.00	0.0966	0.006	5.996	ug/L
⌈	Ba	135	100.101	0.00	0.0361	0.052	143.888	ug/L
|	Ce	140	1333.567	0.00				ug/L
|>	Tb	159	682872.501	682872.50				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	88.668	50.33	0.0048	0.000	4.136	ug/L
|	Tl	205	206.005	121.67	0.0048	0.000	9.690	ug/L
|	Pb	206	1323.588	1263.58	0.1407	0.005	3.199	ug/L
|	Pb	207	1176.882	1103.54	0.1444	0.021	14.569	ug/L
|	Pb	208	5180.000	4896.65	0.1366	0.005	3.770	ug/L
|>	Bi	209	704709.290	704709.29				ug/L
⌈	Na	23	144966254.160	357.23	24.3670	0.923	3.786	mg/L
|	Mg	24	44940463.542	110.82	10.5118	0.235	2.235	mg/L
|	K	39	140588934.215	346.72	11.0130	1.523	13.827	mg/L
|	Ca	43	691415.875	1.71	31.3069	3.263	10.423	mg/L
|	Fe	54	22022441.158	54.31	21.0673	1.185	5.627	mg/L
|	Fe	57	9834563.844	24.31	23.4038	2.127	9.088	mg/L

|> Sc	45	405548.572	405548.57		mg/L
Cl	35	6510915.845	4156498.23		mg/L
Kr	83	172.337	33.00		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27	95.302				
|>	Sc-1	45		94.395			
⌈	V	51	101.617				
|	Cr	52	104.255				
|	Cr	53	72.307				
|	Mn	55	104.607				
|	Co	59	93.754				
|	Ni	60	95.990				
|	Cu	65	95.919				
|	Zn	66	99.508				
|>	Ge	72		96.360			
|	As	75	97.214				
|	Se	77	101.209				
⌊	Se	82	97.219				
	Y	89					
⌈	Rh	103					
|	Ag	107	95.975				
|	Cd	114	102.089				
|>	In	115		97.455			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		95.444			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		94.619			
⌈	Na	23	97.468				
|	Mg	24	105.118				
|	K	39	110.130				
|	Ca	43	104.356				
|	Fe	54	84.269				
|	Fe	57	93.615				
|>	Sc	45		94.395			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, May 25, 2001 16:38:11

QC Std 5	Cr	53	ICSAB is out of limits {+/-20%}
QC Std 5	Zn	66	ICSAB is out of limits {+/-20%}

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2001 16:42:30
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23372.929	3005.44				ug/L
⌈	Be	9	21052.408	0.04	47.3159	4.976	10.517	ug/L
|	Al	27	430255.887	0.88	51.2055	3.385	6.611	ug/L
|>	Sc-1	45	479992.574	479992.57				ug/L
⌈	V	51	783594.972	0.76	52.2831	2.084	3.987	ug/L
|	Cr	52	691968.227	0.66	53.1458	1.369	2.576	ug/L
|	Cr	53	84161.572	0.06	44.4961	4.236	9.521	ug/L
|	Mn	55	1083082.557	1.05	54.2153	2.670	4.924	ug/L
|	Co	59	828089.875	0.81	50.1342	2.642	5.270	ug/L
|	Ni	60	182448.066	0.18	51.8322	1.946	3.755	ug/L
|	Cu	65	201094.606	0.20	51.1569	1.532	2.995	ug/L
|	Zn	66	146148.777	0.14	63.3462	3.201	5.053	ug/L
|>	Ge	72	1026472.503	1026472.50				ug/L
|	As	75	139811.470	0.14	51.7415	1.744	3.371	ug/L
|	Se	77	11833.795	0.01	52.0270	0.950	1.825	ug/L
⌊	Se	82	14972.117	0.01	52.0435	2.699	5.186	ug/L
	Y	89	819138.110	13354.22				ug/L
⌈	Rh	103	100.101	0.00				ug/L
|	Ag	107	624818.978	0.69	53.1881	1.429	2.686	ug/L
|	Cd	114	366779.169	0.41	52.2510	1.039	1.988	ug/L
|>	In	115	903187.844	903187.84				ug/L
⌊	Sb	123	342324.927	0.38	50.1653	1.132	2.256	ug/L
⌈	Ba	135	103176.039	0.14	49.2466	1.667	3.386	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	727299.154	727299.15				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	517622.858	517584.52	49.6647	0.271	0.545	ug/L
|	Tl	205	1311194.764	1311110.43	52.1350	0.441	0.847	ug/L
|	Pb	206	483488.253	483428.25	53.8144	1.069	1.987	ug/L
|	Pb	207	370836.374	370763.03	48.5250	0.546	1.126	ug/L
|	Pb	208	1795025.124	1794741.77	50.0667	0.361	0.720	ug/L
|>	Bi	209	736643.908	736643.91				ug/L
⌈	Na	23	34433789.587	71.93	4.9066	0.485	9.877	mg/L
|	Mg	24	24114465.551	50.25	4.7658	0.245	5.150	mg/L
|	K	39	65331146.770	134.74	4.2799	0.241	5.621	mg/L
|	Ca	43	104430.368	0.22	4.0096	0.612	15.264	mg/L
|	Fe	54	4865087.858	10.09	3.9149	0.431	11.003	mg/L
|	Fe	57	2116796.256	4.42	4.2529	0.507	11.932	mg/L

> Sc	45	479992.574	479992.57		mg/L
Cl	35	98005.924	-2256411.69		mg/L
Kr	83	143.670	4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9	94.632				
|	Al	27	102.411				
⌊>	Sc-1	45		111.723			
⌈	V	51	104.566				
|	Cr	52	106.292				
|	Cr	53	88.992				
|	Mn	55	108.431				
|	Co	59	100.268				
|	Ni	60	103.664				
|	Cu	65	102.314				
|	Zn	66	126.692				
|>	Ge	72		99.693			
|	As	75	103.483				
|	Se	77	104.054				
⌊	Se	82	104.087				
	Y	89					
⌈	Rh	103					
|	Ag	107	106.376				
|	Cd	114	104.502				
|>	In	115		100.966			
⌊	Sb	123	100.331				
⌈	Ba	135	98.493				
|	Ce	140					
⌊>	Tb	159		101.653			
⌈	Ho	165					
|	Tl	203	99.329				
|	Tl	205	104.270				
|	Pb	206	107.629				
|	Pb	207	97.050				
|	Pb	208	100.133				
⌊>	Bi	209		98.907			
⌈	Na	23	98.131				
|	Mg	24	95.316				
|	K	39	85.598				
|	Ca	43	80.192				
|	Fe	54	78.297				
|	Fe	57	85.058				
⌊>	Sc	45		111.723			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, May 25, 2001 16:43:20

QC Std 6	Zn	66	CCV is out of limits (+/-10%)
QC Std 6	Fe	54	CCV is out of limits (+/-10%)

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2001 16:47:38
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	23706.377	3338.89				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	4334.664	-0.01	-0.3539	0.027	7.761	ug/L
|>	Sc-1	45	460154.190	460154.19				ug/L
⌈	V	51	3599.895	0.00	0.2775	0.169	60.760	ug/L
|	Cr	52	12556.945	-0.00	-0.0065	0.075	1159.710	ug/L
|	Cr	53	2667.554	-0.02	-14.4816	2.049	14.147	ug/L
|	Mn	55	567.263	-0.00	-0.0356	0.018	51.001	ug/L
|	Co	59	33.367	0.00	0.0020	0.003	173.205	ug/L
|	Ni	60	66.734	0.00	0.0187	0.016	86.612	ug/L
|	Cu	65	33.367	-0.00	-0.0086	0.014	167.707	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
|>	Ge	72	1045331.334	1045331.33				ug/L
|	As	75	75.178	-0.00	-0.0459	0.011	23.744	ug/L
|	Se	77	162.669	-0.00	-1.7940	0.038	2.140	ug/L
⌊	Se	82	105.306	-0.00	-0.0719	0.032	44.821	ug/L
	Y	89	858000.894	52217.00				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-0.0029	0.005	168.888	ug/L
|	Cd	114	29.980	0.00	0.0006	0.001	119.220	ug/L
|>	In	115	897613.009	897613.01				ug/L
⌊	Sb	123	1062.315	0.00	0.1280	0.010	7.562	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	333.357	0.00				ug/L
⌊>	Tb	159	788220.411	788220.41				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	70.334	32.00	0.0031	0.000	10.975	ug/L
|	Tl	205	157.670	73.34	0.0029	0.001	21.875	ug/L
|	Pb	206	76.675	16.67	0.0019	0.006	301.993	ug/L
|	Pb	207	53.339	-20.00	-0.0026	0.005	175.594	ug/L
|	Pb	208	286.350	3.00	0.0001	0.002	2183.397	ug/L
⌊>	Bi	209	737529.283	737529.28				ug/L
⌈	Na	23	15350.059	0.00	0.0000	0.000	280.608	mg/L
|	Mg	24	666.713	-0.00	-0.0002	0.000	52.974	mg/L
|	K	39	784441.008	0.06	0.0019	0.002	108.440	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	44788.378	0.00	0.0009	0.007	784.493	mg/L
⌊	Fe	57	9007.965	-0.00	-0.0000	0.012	74124.959	mg/L

>	Sc	45	460154.190	460154.19		mg/L
	Cl	35	39107.656	-2315309.96		mg/L
	Kr	83	131.336	-8.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc-1	45		107.105			
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		101.525			
	As	75					
	Se	77					
	Se	82					
	Y	89					
	Rh	103					
	Ag	107					
	Cd	114					
>	In	115		100.343			
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		110.168			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
>	Bi	209		99.026			
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc	45		107.105			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, May 25, 2001 16:48:26

QC Std 7	Be	9	CCB is out of limits (+/-3*IDL)
QC Std 7	V	51	CCB is out of limits (+/-3*IDL)
QC Std 7	Cr	53	CCB is out of limits (+/-3*IDL)
QC Std 7	Se	77	CCB is out of limits (+/-3*IDL)

Method 6020 - Summary Report

Sample ID: 0552601 WG98121-02

Sample Date/Time: Friday, May 25, 2001 16:56:55
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 23
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24043.342	3675.86				ug/L
⌈	Be	9	0.000	-0.00	-85.7037	0.000	0.000	ug/L
|	Al	27	3225012.104	6.71	396925.4084	38022.755	9.579	ug/L
|>	Sc-1	45	479935.650	479935.65				ug/L
⌈	V	51	7455.056	0.01	529.0861	139.776	26.418	ug/L
|	Cr	52	22993.363	0.01	762.6443	131.380	17.227	ug/L
|	Cr	53	3000.770	-0.02	-14595.0274	1218.329	8.348	ug/L
|	Mn	55	6275.710	0.00	241.9441	25.568	10.568	ug/L
|	Co	59	533.888	0.00	31.5165	9.104	28.886	ug/L
|	Ni	60	600.631	0.00	166.2113	95.857	57.672	ug/L
|	Cu	65	266.940	0.00	48.9867	38.044	77.662	ug/L
|	Zn	66	1333.567	0.00	272.4932	650.800	238.832	ug/L
|>	Ge	72	1074122.196	1074122.20				ug/L
|	As	75	104.144	-0.00	-37.1838	14.425	38.794	ug/L
|	Se	77	156.668	-0.00	-1878.0313	40.049	2.132	ug/L
⌊	Se	82	115.459	-0.00	-48.8466	41.806	85.586	ug/L
	Y	89	858731.175	52947.28				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	233.571	0.00	13.8588	9.877	71.269	ug/L
|	Cd	114	58.735	0.00	4.5090	2.212	49.068	ug/L
|>	In	115	933076.636	933076.64				ug/L
⌊	Sb	123	397.786	0.00	28.2641	3.942	13.947	ug/L
⌈	Ba	135	1468.292	0.00	701.4439	196.509	28.015	ug/L
|	Ce	140	39779.860	0.05				ug/L
|>	Tb	159	725759.149	725759.15				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	170.670	132.34	12.9575	1.874	14.463	ug/L
|	Tl	205	410.683	326.35	13.2417	1.120	8.455	ug/L
|	Pb	206	5509.343	5449.34	618.9904	23.965	3.872	ug/L
|	Pb	207	4615.285	4541.94	606.5755	8.899	1.467	ug/L
|	Pb	208	21872.400	21589.05	614.5465	9.036	1.470	ug/L
|>	Bi	209	763798.647	763798.65				ug/L
⌈	Na	23	50849.473	0.07	5.1067	1.074	21.031	mg/L
|	Mg	24	38774.165	0.08	7.4610	1.627	21.800	mg/L
|	K	39	793549.519	0.01	0.4115	2.932	712.557	mg/L
|	Ca	43	8005.090	0.02	311.6255	140.218	44.996	mg/L
|	Fe	54	115289.848	0.14	56.9492	9.608	16.872	mg/L
|	Fe	57	27386.310	0.04	37.8126	7.836	20.724	mg/L

L>	Sc	45	479935.650	479935.65		mg/L
	Cl	35	41455.359	-2312962.25		mg/L
	Kr	83	135.669	-3.67		mg/L
	U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		111.710			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
>	Ge	72		104.321			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
>	In	115		104.307			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		101.438			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		102.553			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		111.710			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552601 WG98121-02
Report Date/Time: Friday, May 25, 2001 16:57:54

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82

Method 6020 - Summary Report

Sample ID: 0552601 DP WG98121-07

Sample Date/Time: Friday, May 25, 2001 17:02:35
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 24
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19694.216	-673.27				ug/L
⌈	Be	9	0.000	-0.00	-83.9896	0.000	0.000	ug/L
|	Al	27	3448588.441	6.49	375932.4809	14209.538	3.780	ug/L
⌊>	Sc-1	45	529972.203	529972.20				ug/L
⌈	V	51	7268.656	0.01	512.7133	102.050	19.904	ug/L
|	Cr	52	21319.804	0.01	644.5792	107.842	16.731	ug/L
|	Cr	53	3667.810	-0.02	-13804.9618	1453.923	10.532	ug/L
|	Mn	55	4773.043	0.00	168.3961	22.752	13.511	ug/L
|	Co	59	367.043	0.00	21.5029	3.253	15.126	ug/L
|	Ni	60	467.152	0.00	128.5106	69.008	53.698	ug/L
|	Cu	65	333.676	0.00	65.5320	38.366	58.546	ug/L
|	Zn	66	1000.117	0.00	130.9748	420.676	321.188	ug/L
|>	Ge	72	1059366.026	1059366.03				ug/L
|	As	75	126.737	-0.00	-27.8857	27.032	96.938	ug/L
|	Se	77	166.669	-0.00	-1786.6176	120.818	6.762	ug/L
⌊	Se	82	120.075	-0.00	-26.8368	94.587	352.452	ug/L
	Y	89	835549.278	29765.38				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-2.9398	4.841	164.678	ug/L
|	Cd	114	21.124	-0.00	-0.7281	0.438	60.107	ug/L
|>	In	115	924537.921	924537.92				ug/L
⌊	Sb	123	247.032	0.00	6.6483	0.403	6.055	ug/L
⌈	Ba	135	1201.305	0.00	548.9969	142.281	25.917	ug/L
|	Ce	140	22702.891	0.03				ug/L
⌊>	Tb	159	742046.149	742046.15				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	53.667	15.33	1.4713	0.363	24.691	ug/L
|	Tl	205	152.336	68.00	2.7040	0.571	21.124	ug/L
|	Pb	206	5209.091	5149.09	573.1871	37.720	6.581	ug/L
|	Pb	207	4151.622	4078.28	533.7602	13.673	2.562	ug/L
|	Pb	208	19628.524	19345.17	539.6597	9.087	1.684	ug/L
⌊>	Bi	209	759907.435	759907.43				ug/L
⌈	Na	23	37431.216	0.04	2.5987	0.284	10.921	mg/L
|	Mg	24	35090.802	0.06	5.9274	1.855	31.296	mg/L
|	K	39	820275.015	-0.09	-2.9970	4.817	160.720	mg/L
|	Ca	43	4001.167	0.01	138.4511	34.016	24.569	mg/L
|	Fe	54	113989.964	0.12	45.9496	11.287	24.565	mg/L
⌊	Fe	57	25379.902	0.03	28.0717	9.589	34.160	mg/L

L> Sc	45	529972.203	529972.20		mg/L
Cl	35	43136.794	-2311280.82		mg/L
Kr	83	124.002	-15.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		123.356			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		102.888			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
| >	In	115		103.353			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		103.715			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		102.030			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		123.356			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552601 DP WG98121-07
Report Date/Time: Friday, May 25, 2001 17:03:34

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Sc-1 45 Int Std for san	Sc-1	45
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Ag 107 Lower	Ag	107
Cd 114 Lower	Cd	114
K 39 Lower	K	39
Sc 45 Int Std for samp	Sc	45

Method 6020 - Summary Report

Sample ID: 0552602 WG98121-01

Sample Date/Time: Friday, May 25, 2001 17:08:15
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 25
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	19693.841	-673.65				ug/L
⌈	Be	9	0.000	-0.00	-85.7037	0.000	0.000	ug/L
|	Al	27	5436273.964	12.22	722626.8613	102419.935	14.173	ug/L
|>	Sc-1	45	448053.830	448053.83				ug/L
⌈	V	51	13667.638	0.01	940.6807	136.272	14.487	ug/L
|	Cr	52	24968.492	0.01	929.5311	12.357	1.329	ug/L
|	Cr	53	3667.717	-0.02	-14097.1845	1098.599	7.793	ug/L
|	Mn	55	6910.278	0.01	276.0815	40.559	14.691	ug/L
|	Co	59	1101.198	0.00	65.4547	29.620	45.253	ug/L
|	Ni	60	1268.053	0.00	354.0093	96.912	27.376	ug/L
|	Cu	65	567.258	0.00	124.9710	39.306	31.452	ug/L
|	Zn	66	666.713	-0.00	-8.7116	248.157	2848.581	ug/L
|>	Ge	72	1064805.993	1064805.99				ug/L
|	As	75	179.096	-0.00	-9.5020	26.600	279.943	ug/L
|	Se	77	164.669	-0.00	-1835.2822	90.044	4.906	ug/L
⌊	Se	82	129.206	0.00	1.7244	37.601	2180.552	ug/L
	Y	89	809438.226	3654.33				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	3304.069	0.00	269.8817	20.250	7.503	ug/L
|	Cd	114	30.396	0.00	0.5111	1.087	212.750	ug/L
|>	In	115	940534.625	940534.63				ug/L
⌊	Sb	123	132.143	-0.00	-10.3195	1.768	17.133	ug/L
⌈	Ba	135	1601.790	0.00	741.2254	232.881	31.418	ug/L
|	Ce	140	30732.843	0.04				ug/L
|>	Tb	159	753079.050	753079.05				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	45.667	7.33	0.7180	0.722	100.515	ug/L
|	Tl	205	96.002	11.67	0.4734	0.293	61.809	ug/L
|	Pb	206	6143.260	6083.25	690.9970	38.255	5.536	ug/L
|	Pb	207	4722.033	4648.69	620.8316	18.711	3.014	ug/L
|	Pb	208	23817.823	23534.47	669.9243	8.687	1.297	ug/L
|>	Bi	209	758108.413	758108.41				ug/L
⌈	Na	23	106454.660	0.21	14.3584	1.372	9.555	mg/L
|	Mg	24	67990.805	0.15	14.5133	2.864	19.730	mg/L
|	K	39	827703.455	0.22	7.2624	7.897	108.743	mg/L
|	Ca	43	2333.823	0.01	93.8627	52.228	55.643	mg/L
|	Fe	54	158389.329	0.26	102.3528	14.358	14.028	mg/L
|	Fe	57	48498.846	0.09	88.1520	7.757	8.799	mg/L

> Sc	45	448053.830	448053.83		mg/L
Cl	35	35756.141	-2318661.47		mg/L
Kr	83	123.336	-16.00		mg/L
U	238	666.713	666.71		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc-1	45		104.289			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.416			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		105.141			
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.257			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
> Bi	209		101.789			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
> Sc	45		104.289			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 WG98121-01
Report Date/Time: Friday, May 25, 2001 17:09:14

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Sb 123 Lower	Sb	123

Method 6020 - Summary Report

Sample ID: 0552602 S WG98121-05

Sample Date/Time: Friday, May 25, 2001 17:13:55
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 50.000
Autosampler Position: 26
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20362.378	-5.11				ug/L
⌈	Be	9	3504.372	0.01	8391.4932	1964.144	23.406	ug/L
|	Al	27	6759355.852	14.72	870303.6192	129689.343	14.902	ug/L
|>	Sc-1	45	464443.937	464443.94				ug/L
⌈	V	51	178215.587	0.17	11768.6137	504.301	4.285	ug/L
|	Cr	52	161021.089	0.14	11441.3039	265.024	2.316	ug/L
|	Cr	53	18022.755	-0.01	-3837.0814	622.709	16.229	ug/L
|	Mn	55	227845.778	0.21	11206.5646	717.816	6.405	ug/L
|	Co	59	171880.174	0.16	10268.8956	112.774	1.098	ug/L
|	Ni	60	37770.653	0.04	10589.9638	259.230	2.448	ug/L
|	Cu	65	37166.876	0.03	9325.9391	149.421	1.602	ug/L
|	Zn	66	34420.104	0.03	14478.6380	3907.779	26.990	ug/L
|>	Ge	72	1060724.662	1060724.66				ug/L
|	As	75	24639.359	0.02	8937.5849	38.751	0.434	ug/L
|	Se	77	2048.294	0.00	6740.2262	174.642	2.591	ug/L
⌊	Se	82	2548.896	0.00	8372.0277	51.284	0.613	ug/L
	Y	89	887177.006	81393.11				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	125789.412	0.14	10637.0086	109.908	1.033	ug/L
|	Cd	114	68824.239	0.07	9740.8947	122.343	1.256	ug/L
|>	In	115	927114.283	927114.28				ug/L
⌊	Sb	123	26304.846	0.03	3803.8074	32.324	0.850	ug/L
⌈	Ba	135	21721.363	0.03	10719.5477	768.154	7.166	ug/L
|	Ce	140	50182.172	0.07				ug/L
|>	Tb	159	717321.226	717321.23				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	101388.906	101350.57	9923.5384	109.634	1.105	ug/L
|	Tl	205	254142.223	254057.89	10308.5243	183.573	1.781	ug/L
|	Pb	206	102672.933	102612.93	11655.8063	153.741	1.319	ug/L
|	Pb	207	79423.891	79350.55	10597.2448	276.127	2.606	ug/L
|	Pb	208	381801.663	381518.31	10860.1704	153.190	1.411	ug/L
|>	Bi	209	749306.631	749306.63				ug/L
⌈	Na	23	81474.849	0.15	10.3069	4.314	41.858	mg/L
|	Mg	24	84501.164	0.18	17.3048	1.494	8.636	mg/L
|	K	39	797994.444	0.11	3.4499	10.964	317.801	mg/L
|	Ca	43	3334.174	0.01	138.4418	58.861	42.517	mg/L
|	Fe	54	181594.109	0.29	115.1994	18.110	15.720	mg/L
|	Fe	57	53197.976	0.10	95.3538	14.805	15.527	mg/L

L> Sc	45	464443.937	464443.94		mg/L
Cl	35	31067.980	-2323349.63		mg/L
Kr	83	139.336	0.00		mg/L
U	238	1000.117	1000.12		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
L> Sc-1	45		108.104			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.020			
As	75					
Se	77					
L Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
> In	115		103.641			
L Sb	123					
Ba	135					
Ce	140					
L> Tb	159		100.259			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
L> Bi	209		100.607			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
L> Sc	45		108.104			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 S WG98121-05
Report Date/Time: Friday, May 25, 2001 17:14:54

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53

Method 6020 - Summary Report

Sample ID: 0552602 SD WG98121-06

Sample Date/Time: Friday, May 25, 2001 17:19:35
Number of Replicates: 3
Aliquot Volume (mL): 0.520
Diluted To Volume (mL): 50.000
Autosampler Position: 27
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24712.349	4344.86				ug/L
⌈	Be	9	4138.690	0.01	9095.2908	1631.131	17.934	ug/L
|	Al	27	7828234.508	16.69	930053.0604	108288.166	11.643	ug/L
|>	Sc-1	45	472608.564	472608.56				ug/L
⌈	V	51	188009.485	0.18	11672.5546	565.946	4.849	ug/L
|	Cr	52	171093.974	0.15	11485.7845	138.876	1.209	ug/L
|	Cr	53	18024.535	-0.01	-3622.5973	4262.970	117.677	ug/L
|	Mn	55	232281.194	0.22	10746.3212	427.056	3.974	ug/L
|	Co	59	176773.123	0.17	9929.7023	572.437	5.765	ug/L
|	Ni	60	40857.354	0.04	10771.9003	438.748	4.073	ug/L
|	Cu	65	40622.498	0.04	9586.7177	465.436	4.855	ug/L
|	Zn	66	32415.440	0.03	12799.4746	5447.685	42.562	ug/L
|>	Ge	72	1063146.968	1063146.97				ug/L
|	As	75	25128.952	0.02	8570.7498	147.038	1.716	ug/L
|	Se	77	2103.643	0.00	6568.5566	170.208	2.591	ug/L
⌊	Se	82	2598.218	0.00	8029.9990	284.572	3.544	ug/L
	Y	89	862188.734	56404.84				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	128676.280	0.14	10387.3062	181.321	1.746	ug/L
|	Cd	114	68683.921	0.08	9279.3893	88.944	0.959	ug/L
|>	In	115	915278.605	915278.61				ug/L
⌊	Sb	123	9512.873	0.01	1295.3624	24.251	1.872	ug/L
⌈	Ba	135	23763.312	0.03	10310.6330	183.565	1.780	ug/L
|	Ce	140	58243.008	0.08				ug/L
|>	Tb	159	767168.205	767168.20				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	102737.539	102699.20	9475.4571	227.439	2.400	ug/L
|	Tl	205	258908.483	258824.15	9896.0377	218.908	2.212	ug/L
|	Pb	206	103806.143	103746.14	11104.6510	279.823	2.520	ug/L
|	Pb	207	78591.161	78517.82	9881.0704	76.776	0.777	ug/L
|	Pb	208	384362.423	384079.07	10302.3104	149.024	1.447	ug/L
|>	Bi	209	749167.691	749167.69				ug/L
⌈	Na	23	74392.334	0.13	8.2857	2.029	24.488	mg/L
|	Mg	24	100036.986	0.21	19.0368	2.421	12.717	mg/L
|	K	39	797136.299	0.07	1.9866	6.974	351.040	mg/L
|	Ca	43	2667.180	0.01	101.9219	31.647	31.051	mg/L
|	Fe	54	182256.935	0.29	109.3190	18.733	17.136	mg/L
|	Fe	57	55214.032	0.10	91.3601	9.556	10.460	mg/L

L> Sc	45	472608.564	472608.56		mg/L
Cl	35	48163.143	-2306254.47		mg/L
Kr	83	132.669	-6.67		mg/L
U	238	2000.467	2000.47		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		110.004			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		103.255			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		102.318			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		107.226			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		100.588			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		110.004			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 SD WG98121-06
Report Date/Time: Friday, May 25, 2001 17:20:34

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53

Method 6020 - Summary Report

Sample ID: 0552603

Sample Date/Time: Friday, May 25, 2001 17:25:16
Number of Replicates: 3
Aliquot Volume (mL): 0.500
Diluted To Volume (mL): 50.000
Autosampler Position: 28
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	20697.561	330.07				ug/L
⌈	Be	9	0.000	-0.00	-83.9896	0.000	0.000	ug/L
|	Al	27	6860424.608	14.50	840469.8772	26788.919	3.187	ug/L
|>	Sc-1	45	472848.614	472848.61				ug/L
⌈	V	51	13539.023	0.01	923.3542	205.991	22.309	ug/L
|	Cr	52	28518.794	0.01	1203.1511	144.832	12.038	ug/L
|	Cr	53	4334.944	-0.02	-13316.7606	1780.484	13.370	ug/L
|	Mn	55	9950.203	0.01	422.8677	7.876	1.863	ug/L
|	Co	59	1001.077	0.00	59.0442	20.396	34.543	ug/L
|	Ni	60	1067.820	0.00	295.5191	96.640	32.702	ug/L
|	Cu	65	300.308	0.00	57.5802	42.982	74.646	ug/L
|	Zn	66	3000.677	0.00	984.3419	425.230	43.199	ug/L
|>	Ge	72	1052638.662	1052638.66				ug/L
|	As	75	177.364	-0.00	-9.2800	27.699	298.484	ug/L
|	Se	77	166.669	-0.00	-1781.5073	88.797	4.984	ug/L
⌊	Se	82	116.597	-0.00	-36.1289	55.644	154.016	ug/L
	Y	89	836177.336	30393.44				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	33.367	-0.00	-2.9552	4.814	162.911	ug/L
|	Cd	114	57.407	0.00	4.4131	1.180	26.750	ug/L
|>	In	115	914333.483	914333.48				ug/L
⌊	Sb	123	313.738	0.00	16.7130	2.987	17.870	ug/L
⌈	Ba	135	2436.239	0.00	1138.5676	539.607	47.393	ug/L
|	Ce	140	70695.830	0.09				ug/L
|>	Tb	159	742810.649	742810.65				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	133.003	94.67	9.0839	1.777	19.564	ug/L
|	Tl	205	307.343	223.01	8.8677	0.907	10.229	ug/L
|	Pb	206	9814.390	9754.38	1085.8408	36.062	3.321	ug/L
|	Pb	207	8021.971	7948.63	1040.3066	5.909	0.568	ug/L
|	Pb	208	38633.810	38350.46	1069.8377	5.182	0.484	ug/L
|>	Bi	209	747048.187	747048.19				ug/L
⌈	Na	23	93615.539	0.17	11.2937	1.595	14.125	mg/L
|	Mg	24	88550.194	0.18	17.5120	3.091	17.652	mg/L
|	K	39	868945.648	0.20	6.3065	2.456	38.946	mg/L
|	Ca	43	3668.044	0.01	139.3177	114.121	81.914	mg/L
|	Fe	54	137535.565	0.19	75.5981	14.495	19.173	mg/L
|	Fe	57	39779.201	0.07	63.0688	12.407	19.672	mg/L

Sc	45	472848.614	472848.61			mg/L
Cl	35	37439.117	-2316978.49			mg/L
Kr	83	136.669	-2.67			mg/L
U	238	1333.520	1333.52			mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		110.060			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.235			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		102.212			
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.821			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.304			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		110.060			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552603
Report Date/Time: Friday, May 25, 2001 17:26:15

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Ag 107 Lower	Ag	107

Method 6020 - Summary Report

Sample ID: 0552602 PS

Sample Date/Time: Friday, May 25, 2001 17:30:34
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 500.000
Autosampler Position: 29
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 10

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	29059.976	8692.49				ug/L
⌈	Be	9	21420.793	0.04	49220.0478	11472.339	23.308	ug/L
|	Al	27	6159068.699	12.75	754091.0759	70736.484	9.380	ug/L
|>	Sc-1	45	483544.954	483544.95				ug/L
⌈	V	51	895183.471	0.86	59731.2659	1292.796	2.164	ug/L
|	Cr	52	774576.485	0.73	59610.8298	459.272	0.770	ug/L
|	Cr	53	98003.064	0.07	54289.5014	5666.500	10.438	ug/L
|	Mn	55	1270302.692	1.21	63641.0888	1908.244	2.998	ug/L
|	Co	59	928481.533	0.89	56227.6756	1782.359	3.170	ug/L
|	Ni	60	205314.135	0.20	58329.0311	1801.102	3.088	ug/L
|	Cu	65	224029.122	0.21	57016.5127	4031.203	7.070	ug/L
|	Zn	66	125778.165	0.12	54451.7927	7132.223	13.098	ug/L
|>	Ge	72	1046753.960	1046753.96				ug/L
|	As	75	141261.282	0.13	52293.3067	827.895	1.583	ug/L
|	Se	77	11132.002	0.01	48765.5251	832.897	1.708	ug/L
⌊	Se	82	14153.433	0.01	49165.3209	777.222	1.581	ug/L
	Y	89	853494.588	47710.69				ug/L
⌈	Rh	103	133.469	0.00				ug/L
|	Ag	107	602131.118	0.67	52339.0454	879.615	1.681	ug/L
|	Cd	114	368991.646	0.41	53676.1964	522.007	0.973	ug/L
|>	In	115	902443.484	902443.48				ug/L
⌊	Sb	123	359881.827	0.40	53853.5645	838.029	1.556	ug/L
⌈	Ba	135	113611.326	0.15	53216.2448	985.978	1.853	ug/L
|	Ce	140	38441.001	0.05				ug/L
⌊>	Tb	159	755332.727	755332.73				ug/L
⌈	Ho	165	333.357	333.36				ug/L
|	Tl	203	545384.258	545345.92	53396.4546	662.967	1.242	ug/L
|	Tl	205	1379888.998	1379804.66	55986.2555	785.967	1.404	ug/L
|	Pb	206	502998.813	502938.81	57128.8382	1285.807	2.251	ug/L
|	Pb	207	400656.753	400583.41	53497.8080	595.845	1.114	ug/L
|	Pb	208	1913504.795	1913221.44	54461.1104	461.295	0.847	ug/L
⌊>	Bi	209	745702.279	745702.28				ug/L
⌈	Na	23	110897.520	0.20	13.7821	4.774	34.641	mg/L
|	Mg	24	79783.589	0.16	15.6320	2.658	17.006	mg/L
|	K	39	825807.588	0.07	2.4183	4.792	198.171	mg/L
|	Ca	43	2667.180	0.01	102.7179	18.476	17.987	mg/L
|	Fe	54	158049.127	0.23	91.6124	14.853	16.212	mg/L
|	Fe	57	44807.343	0.07	73.3436	13.249	18.064	mg/L

Sc	45	483544.954	483544.95		mg/L
Cl	35	29729.968	-2324687.64		mg/L
Kr	83	130.002	-9.33		mg/L
U	238	333.357	333.36		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		112.550			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.663			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		100.883			
Sb	123					
Ba	135					
Ce	140					
Tb	159		105.572			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		100.123			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		112.550			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 PS
Report Date/Time: Friday, May 25, 2001 17:31:24

Method 6020 - Summary Report

Sample ID: 0552602 SDL

Sample Date/Time: Friday, May 25, 2001 17:35:43
Number of Replicates: 3
Aliquot Volume (mL): 0.490
Diluted To Volume (mL): 2500.000
Autosampler Position: 30
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description: 50

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	24376.932	4009.45				ug/L
⌈	Be	9	0.000	-0.00	-428.5185	0.000	0.000	ug/L
|	Al	27	1286531.381	2.72	804518.6598	194473.806	24.173	ug/L
|>	Sc-1	45	480851.844	480851.84				ug/L
⌈	V	51	5232.119	0.01	1968.2357	351.614	17.864	ug/L
|	Cr	52	16301.692	0.00	1433.2379	673.888	47.019	ug/L
|	Cr	53	3334.407	-0.02	-71436.6807	9211.258	12.894	ug/L
|	Mn	55	2169.171	0.00	221.4835	84.833	38.302	ug/L
|	Co	59	400.412	0.00	121.5113	30.726	25.286	ug/L
|	Ni	60	667.372	0.00	952.5291	546.931	57.419	ug/L
|	Cu	65	300.312	0.00	298.6222	446.288	149.449	ug/L
|	Zn	66	2334.010	0.00	3627.4242	5535.644	152.605	ug/L
|>	Ge	72	1044467.603	1044467.60				ug/L
|	As	75	160.313	-0.00	-75.6919	141.208	186.556	ug/L
|	Se	77	144.668	-0.00	-9566.3631	251.218	2.626	ug/L
⌊	Se	82	122.561	-0.00	-63.2489	308.529	487.801	ug/L
	Y	89	833060.369	27276.47				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	834.217	0.00	336.5743	66.452	19.744	ug/L
|	Cd	114	35.755	0.00	7.5518	4.533	60.031	ug/L
|>	In	115	894164.759	894164.76				ug/L
⌊	Sb	123	726.942	0.00	402.5986	6.625	1.646	ug/L
⌈	Ba	135	233.573	0.00	490.9357	504.676	102.799	ug/L
|	Ce	140	8338.306	0.01				ug/L
⌊>	Tb	159	722848.998	722849.00				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	31.334	-7.00	-3.4270	3.739	109.109	ug/L
|	Tl	205	88.001	3.67	0.7439	1.935	260.165	ug/L
|	Pb	206	1980.473	1920.47	1090.7293	37.257	3.416	ug/L
|	Pb	207	1580.335	1506.99	1006.2935	159.055	15.806	ug/L
|	Pb	208	7560.635	7277.28	1035.7635	20.528	1.982	ug/L
⌊>	Bi	209	738611.956	738611.96				ug/L
⌈	Na	23	52863.735	0.08	27.8134	9.692	34.847	mg/L
|	Mg	24	20362.753	0.04	18.6738	2.382	12.753	mg/L
|	K	39	726143.545	-0.11	-18.1330	31.880	175.814	mg/L
|	Ca	43	1000.117	0.00	182.5277	169.364	92.788	mg/L
|	Fe	54	73591.238	0.06	115.1331	48.286	41.939	mg/L
|	Fe	57	19694.263	0.02	115.0079	57.120	49.666	mg/L

Sc	45	480851.844	480851.84		mg/L
Cl	35	26717.679	-2327699.93		mg/L
Kr	83	143.670	4.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		111.923			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.441			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		99.958			
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.031			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		99.171			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		111.923			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 0552602 SDL
Report Date/Time: Friday, May 25, 2001 17:36:33

Be 9 Lower	Be	9
Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
As 75 Lower	As	75
Se 77 Lower	Se	77
Se 82 Lower	Se	82
Tl 203 Lower	Tl	203
K 39 Lower	K	39

Method 6020 - Summary Report

Sample ID: ICSA

Sample Date/Time: Friday, May 25, 2001 17:40:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	15015.954	-5351.53				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	62527869.997	166.56	9653.8212	1079.864	11.186	ug/L
|>	Sc-1	45	378513.921	378513.92				ug/L
⌈	V	51	5743.752	0.01	0.4410	0.300	67.939	ug/L
|	Cr	52	18275.333	0.01	0.4915	0.199	40.509	ug/L
|	Cr	53	5669.118	-0.02	-12.1626	1.555	12.784	ug/L
|	Mn	55	6476.137	0.01	0.2688	0.052	19.396	ug/L
|	Co	59	1501.677	0.00	0.0938	0.041	43.270	ug/L
|	Ni	60	2235.926	0.00	0.6495	0.095	14.639	ug/L
|	Cu	65	1401.545	0.00	0.3479	0.089	25.446	ug/L
|	Zn	66	5669.211	0.00	2.2292	1.097	49.201	ug/L
|>	Ge	72	1000907.661	1000907.66				ug/L
|	As	75	163.074	-0.00	-0.0117	0.030	258.518	ug/L
|	Se	77	474.016	-0.00	-0.2910	0.160	55.021	ug/L
⌊	Se	82	125.293	0.00	0.0153	0.019	124.982	ug/L
	Y	89	736122.945	-69660.95				ug/L
⌈	Rh	103	66.734	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	2427.070	0.00	0.3503	0.009	2.694	ug/L
|>	In	115	882306.084	882306.08				ug/L
⌊	Sb	123	1006.385	0.00	0.1223	0.001	1.050	ug/L
⌈	Ba	135	300.307	0.00	0.1336	0.052	38.558	ug/L
|	Ce	140	0.000	0.00				ug/L
|>	Tb	159	696100.297	696100.30				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	94.668	56.33	0.0054	0.001	27.577	ug/L
|	Tl	205	217.339	133.00	0.0053	0.000	9.095	ug/L
|	Pb	206	1603.675	1543.67	0.1718	0.015	8.629	ug/L
|	Pb	207	1226.897	1153.56	0.1510	0.032	20.925	ug/L
|	Pb	208	6047.329	5763.98	0.1608	0.008	4.878	ug/L
|>	Bi	209	711978.708	711978.71				ug/L
⌈	Na	23	135496962.023	359.85	24.5461	2.880	11.734	mg/L
|	Mg	24	41241659.958	110.30	10.4616	1.733	16.567	mg/L
|	K	39	117734575.451	313.82	9.9678	1.885	18.915	mg/L
|	Ca	43	660889.099	1.76	32.2578	3.429	10.631	mg/L
|	Fe	54	22694664.426	60.48	23.4605	3.474	14.806	mg/L
|	Fe	57	9372933.923	24.83	23.9071	1.342	5.613	mg/L

Sc	45	378513.921	378513.92		mg/L
Cl	35	6006932.819	3652515.21		mg/L
Kr	83	158.670	19.33		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		88.103			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.210			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		98.632			
Sb	123					
Ba	135					
Ce	140					
Tb	159		97.293			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		95.595			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		88.103			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSA
Report Date/Time: Friday, May 25, 2001 17:41:43

Al 27 Upper, S, EEE	Al	27
Cr 53 Lower	Cr	53
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Method 6020 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Friday, May 25, 2001 17:46:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	21365.348	997.86				ug/L
⌈	Be	9	33.367	0.00	0.0060	0.156	2594.503	ug/L
|	Al	27	69780318.868	174.80	10131.5139	310.684	3.067	ug/L
⌊>	Sc-1	45	399185.225	399185.23				ug/L
⌈	V	51	285455.068	0.29	19.9700	0.581	2.908	ug/L
|	Cr	52	266027.489	0.26	20.8224	1.052	5.052	ug/L
|	Cr	53	37435.026	0.02	11.9253	6.522	54.692	ug/L
|	Mn	55	374690.335	0.38	19.5930	0.738	3.764	ug/L
|	Co	59	299723.905	0.31	18.9944	0.724	3.811	ug/L
|	Ni	60	66743.571	0.07	19.8515	0.624	3.146	ug/L
|	Cu	65	75640.349	0.08	20.1523	0.376	1.865	ug/L
|	Zn	66	22034.354	0.02	9.7570	1.372	14.058	ug/L
|>	Ge	72	980211.822	980211.82				ug/L
|	As	75	25706.921	0.03	9.8997	0.096	0.972	ug/L
|	Se	77	2505.774	0.00	9.5732	0.828	8.647	ug/L
⌊	Se	82	2787.693	0.00	9.7927	0.302	3.080	ug/L
	Y	89	760171.832	-45612.06				ug/L
⌈	Rh	103	33.367	0.00				ug/L
|	Ag	107	56243.406	0.06	4.9659	0.194	3.902	ug/L
|	Cd	114	68322.908	0.08	10.1031	0.194	1.924	ug/L
|>	In	115	869825.085	869825.08				ug/L
⌊	Sb	123	893.333	0.00	0.1073	0.003	3.079	ug/L
⌈	Ba	135	233.572	0.00	0.1013	0.086	84.954	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	709509.943	709509.94				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	93.668	55.33	0.0053	0.000	5.217	ug/L
|	Tl	205	201.338	117.00	0.0047	0.000	10.687	ug/L
|	Pb	206	1323.589	1263.58	0.1407	0.015	10.332	ug/L
|	Pb	207	1150.208	1076.87	0.1409	0.012	8.861	ug/L
|	Pb	208	5253.032	4969.68	0.1386	0.003	2.485	ug/L
⌊>	Bi	209	703865.018	703865.02				ug/L
⌈	Na	23	137562989.398	344.65	23.5091	0.748	3.182	mg/L
|	Mg	24	45680224.259	114.40	10.8514	0.443	4.082	mg/L
|	K	39	125121842.930	311.64	9.8987	0.769	7.772	mg/L
|	Ca	43	652624.192	1.64	29.9700	2.453	8.185	mg/L
|	Fe	54	22511712.463	56.31	21.8410	0.860	3.936	mg/L
|	Fe	57	9646218.837	24.16	23.2583	1.969	8.468	mg/L

|> Sc	45	399185.225	399185.23		mg/L
Cl	35	6398541.251	4044123.64		mg/L
Kr	83	163.003	23.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
|>	Sc-1	45		92.914			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.200			
|	As	75					
|	Se	77					
⌊	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
|>	In	115		97.237			
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
|>	Tb	159		99.167			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|>	Bi	209		94.506			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
|>	Sc	45		92.914			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSAB
Report Date/Time: Friday, May 25, 2001 17:46:53

Al 27 Upper, S, EEE	Al	27
Na 23 Upper, S, EEE	Na	23
Mg 24 Upper, S, EEE	Mg	24
Ca 43 Upper, S, EEE	Ca	43
Fe 54 Upper, S, EEE	Fe	54
Fe 57 Upper, S, EEE	Fe	57

Sample ID: ICSAB
Report Date/Time: Friday, May 25, 2001 17:46:53
Page 3

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Friday, May 25, 2001 17:51:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16687.694	-3679.79				ug/L
⌈	Be	9	18174.629	0.04	47.6422	4.051	8.503	ug/L
|	Al	27	368981.764	0.88	50.9167	2.017	3.962	ug/L
⌊>	Sc-1	45	412966.846	412966.85				ug/L
⌈	V	51	784518.928	0.77	52.5981	1.112	2.114	ug/L
|	Cr	52	701906.343	0.68	54.2065	2.695	4.971	ug/L
|	Cr	53	71024.852	0.05	35.2498	8.684	24.635	ug/L
|	Mn	55	1083070.952	1.06	54.4842	1.980	3.634	ug/L
|	Co	59	843446.507	0.83	51.2789	1.787	3.485	ug/L
|	Ni	60	176735.163	0.17	50.4482	1.541	3.054	ug/L
|	Cu	65	196665.700	0.19	50.3183	1.637	3.254	ug/L
|	Zn	66	126114.095	0.12	54.9387	7.242	13.182	ug/L
|>	Ge	72	1021237.140	1021237.14				ug/L
|	As	75	137147.816	0.13	50.9975	0.908	1.781	ug/L
|	Se	77	11561.351	0.01	51.0418	1.406	2.755	ug/L
⌊	Se	82	14922.659	0.01	52.1016	1.181	2.267	ug/L
	Y	89	801655.143	-4128.75				ug/L
⌈	Rh	103	100.102	0.00				ug/L
|	Ag	107	617603.121	0.69	53.4198	4.200	7.863	ug/L
|	Cd	114	364789.025	0.41	52.7624	1.172	2.222	ug/L
|>	In	115	889781.137	889781.14				ug/L
⌊	Sb	123	339959.963	0.38	50.5898	1.616	3.195	ug/L
⌈	Ba	135	102128.968	0.14	47.4067	6.417	13.535	ug/L
|	Ce	140	0.000	0.00				ug/L
⌊>	Tb	159	751706.624	751706.62				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	512293.486	512255.15	49.1533	1.055	2.147	ug/L
|	Tl	205	1274306.213	1274221.88	50.6681	0.127	0.252	ug/L
|	Pb	206	475902.470	475842.46	52.9699	1.042	1.967	ug/L
|	Pb	207	362317.417	362244.08	47.4100	0.282	0.594	ug/L
|	Pb	208	1757988.619	1757705.27	49.0336	0.211	0.431	ug/L
⌊>	Bi	209	728947.853	728947.85				ug/L
⌈	Na	23	32023424.316	77.54	5.2893	0.086	1.622	mg/L
|	Mg	24	23186874.965	56.32	5.3417	0.419	7.837	mg/L
|	K	39	70179041.053	168.47	5.3510	0.388	7.255	mg/L
|	Ca	43	121045.583	0.30	5.4299	1.450	26.706	mg/L
|	Fe	54	4970382.691	12.00	4.6544	0.557	11.975	mg/L
⌊	Fe	57	2112418.520	5.12	4.9328	0.644	13.053	mg/L

L>	Sc	45	412966.846	412966.85		mg/L
	Cl	35	91247.977	-2263169.63		mg/L
	Kr	83	140.336	1.00		mg/L
	U	238	0.000	0.00		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
⌈	Be	9					
|	Al	27					
L>	Sc-1	45		96.122			
⌈	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		99.185			
|	As	75					
|	Se	77					
L	Se	82					
	Y	89					
⌈	Rh	103					
|	Ag	107					
|	Cd	114					
\>	In	115		99.468			
L	Sb	123					
⌈	Ba	135					
|	Ce	140					
L>	Tb	159		105.065			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
L>	Bi	209		97.873			
⌈	Na	23					
|	Mg	24					
|	K	39					
|	Ca	43					
|	Fe	54					
|	Fe	57					
L>	Sc	45		96.122			
	Cl	35					
	Kr	83					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV
Report Date/Time: Friday, May 25, 2001 17:52:02

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Friday, May 25, 2001 17:56:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\Service\6020 methods\6020A.mth
Sample Description:

Batch ID:
User ID: JYH

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Li	6	16353.778	-4013.71				ug/L
⌈	Be	9	0.000	-0.00	-0.0840	0.000	0.000	ug/L
|	Al	27	6336.345	-0.00	-0.0570	0.380	666.853	ug/L
\>	Sc-1	45	456687.369	456687.37				ug/L
⌈	V	51	4764.029	0.01	0.3644	0.128	35.013	ug/L
|	Cr	52	13760.379	0.00	0.1127	0.067	59.851	ug/L
|	Cr	53	1333.520	-0.02	-15.4206	0.827	5.363	ug/L
|	Mn	55	433.781	-0.00	-0.0414	0.008	18.352	ug/L
|	Co	59	66.734	0.00	0.0041	0.004	86.719	ug/L
|	Ni	60	33.367	0.00	0.0093	0.016	173.205	ug/L
|	Cu	65	33.367	-0.00	-0.0081	0.015	191.024	ug/L
|	Zn	66	0.000	-0.00	-0.2893	0.000	0.000	ug/L
\>	Ge	72	1018568.236	1018568.24				ug/L
|	As	75	82.541	-0.00	-0.0427	0.028	66.158	ug/L
|	Se	77	140.668	-0.00	-1.8750	0.100	5.345	ug/L
⌊	Se	82	113.263	-0.00	-0.0342	0.075	219.837	ug/L
	Y	89	776823.937	-28959.96				ug/L
⌈	Rh	103	0.000	0.00				ug/L
|	Ag	107	0.000	-0.00	-0.0057	0.000	0.000	ug/L
|	Cd	114	22.893	-0.00	-0.0004	0.001	140.614	ug/L
\>	In	115	894879.058	894879.06				ug/L
⌊	Sb	123	1026.897	0.00	0.1232	0.008	6.124	ug/L
⌈	Ba	135	0.000	-0.00	-0.0162	0.000	0.000	ug/L
|	Ce	140	0.000	0.00				ug/L
\>	Tb	159	679629.965	679629.97				ug/L
⌈	Ho	165	0.000	0.00				ug/L
|	Tl	203	60.668	22.33	0.0021	0.001	24.661	ug/L
|	Tl	205	145.336	61.00	0.0024	0.000	11.859	ug/L
|	Pb	206	103.344	43.34	0.0048	0.001	13.324	ug/L
|	Pb	207	93.343	20.00	0.0026	0.008	288.675	ug/L
|	Pb	208	379.359	96.01	0.0027	0.001	44.907	ug/L
\>	Bi	209	734418.388	734418.39				ug/L
⌈	Na	23	14013.874	-0.00	-0.0001	0.001	722.528	mg/L
|	Mg	24	2333.730	0.00	0.0001	0.000	108.151	mg/L
|	K	39	731338.398	-0.01	-0.0003	0.010	3771.234	mg/L
|	Ca	43	0.000	0.00	0.0000	0.000		mg/L
|	Fe	54	44757.379	0.00	0.0005	0.003	552.109	mg/L
|	Fe	57	9007.684	0.00	0.0007	0.014	1873.923	mg/L

Sc	45	456687.369	456687.37		mg/L
Cl	35	39780.190	-2314637.42		mg/L
Kr	83	136.669	-2.67		mg/L
U	238	0.000	0.00		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc-1	45		106.299			
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.926			
As	75					
Se	77					
Se	82					
Y	89					
Rh	103					
Ag	107					
Cd	114					
In	115		100.037			
Sb	123					
Ba	135					
Ce	140					
Tb	159		94.991			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
Bi	209		98.608			
Na	23					
Mg	24					
K	39					
Ca	43					
Fe	54					
Fe	57					
Sc	45		106.299			
Cl	35					
Kr	83					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB
Report Date/Time: Friday, May 25, 2001 17:57:08

Cr 53 Lower	Cr	53
Se 77 Lower	Se	77

Sample ID: CCB
Report Date/Time: Friday, May 25, 2001 17:57:08
Page 3

Metals

Date: 5-29-01
Analyst: KM
Method: 6010B
Instrument: PE-ICP
Work Group: 98336, 98377, 98283

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	✓
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	✓
Calculations & Correct Factors	✓
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data	✓

Dw 5/30
Priority
05-525
05-~~526~~ 526
05-529

Primary Reviewer Initials & Date Checked KM 5/29/01

Secondary Reviewer Initials & Date Checked MH 5/30/01

✓ • Check for compliance with Method and project-specific requirements
✓ • Check the completeness of the reported information
NA • Check the information for the report narrative
✓ • Check the reasonableness of results

Supervisory Review Initials & Date Checked MB 5/30

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

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KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST KM Reed DATE 5-29-01 TIME 0943
METHOD # 6010B SOP # ME600E Rev # 2 WORK GROUP # 98336, 98379, 98283
CAL STD SOURCE MI-9-47B ICV/CCV SOURCE MI-9-47B
ICS AB SOURCE MI-10-4A ICS A SOURCE MI-9-47A POST SPK SOURCE DSI-31-67
Instrument ID: TJA IRIS: _____ Data File: _____ Perkin Elmer Optima: X Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.	05-364-05			
					28.	06			
					29.	07			
					30.	08			
					31.	09			CCV/CCB
					32.	10			
					33.	02	0.1		
					34.	02DP	0.1		
					35.	08	0.1		
					36.	09	0.1		
					37.	05-360-01	0.1		
				TCUX2/ICB	38.	05-581-01	0.1		
					39.	02	0.1		
				CCV/CCB	40.	03	0.1		
	PBW MW/LWG 98141-03				41.	04	0.1		CCV/CCB
	LCSW MW		-04		42.	PBW MW/LWG 98365-03			
	05-486-02				43.	LCSW MW		-04	
	02DP	0.1			44.	TZBIK 5/25			
	03			CCV/CCB	45.	TZ05-607-05		5/50	
	05-364-01		-01		46.	05DL	0.2		
	015		-05		47.	05-DP	0.1		
	015D		-06		48.	06		-05/50	
	02		-02		49.	065		-05	
	02DP		-07		50.	06SD		-06	CCV/CCB
	05-467-04				51.	PBW TP/LWG 98171		-03	
	05				52.	LCSW TP		-04	
	05-360-01				53.	05-552-07			
	05-514-01				54.	07SDL	0.2		
	02			CCV/CCB	55.	07PS	0.1		
	05 365 01				56.	05-353-04		-01	CCV/CCB
	05 520 01				57.	055		-05	
	05 529 03				58.	06SD		-06	
	05-364-03				59.	10		-02	
	04				60.	DUP11		-07	CCV/CCB

TZ05-577-01 -02 5/50

Reviewed by: 01DP 07 L CCV/CCB

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/29/2001 Initial Calibration ID: _____

Instrument ID: PE Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Aluminum	0	-1797	0.100	1545.1	10	177899	20.000	364517			0.99993	
Arsenic	0	-9.3	0.004	33.7	0.4	4205.4	0.8	8569.4			0.99996	
Barium	0	-1468	0.01	3579.6	1	387026	2	754300			0.9999	
Beryllium	0	87.3	0.0005	821.6	0.05	91615	0.1	181586			0.99999	
Cadmium	0	98.8	0.0005	209.3	0.05	23081	0.1	46654			0.99998	
Calcium	0	-226.4	0.1	130.5	10	13415	20	26026			0.99981	
Chromium	0	450.8	0.005	1792.7	0.5	190301	1	376406			0.99998	
Cobalt	0	60.5	0.002	430.3	0.2	43016	0.4	84799			0.99997	
Copper	0	1230.7	0.005	1800.7	0.5	224396	8	217390			0.60735	
Iron	0	-1963	0.04	567.4	4	107550	8	217390			0.99998	
Magnesium	0	-2447	0.1	5785.5	10	666730	20	1E+06			0.99988	
Manganese	0	-515.1	0.005	11510	0.5	1E+06	1	2E+06			0.99996	
Nickel	0	-413.5	0.005	1032.8	0.5	109035	1	215771			0.99998	
Potassium	0	775.4	0.5	9468.6	50	1E+06	100	2E+06			0.99999	
Silver	0	1430.2	0.004	2464.3	0.4	294335	0.8	604969			0.99989	
Sodium	0	-62.9	0.5	18290	50	2E+06	100	4E+06			0.99974	
Vanadium	0	-645.5	0.01	2550.3	1	312520	2	628014			1.00000	
Zinc	0	329.2	0.01	2005.7	1	191014	2	377138			0.99998	

Comments:

AFCEE FORM I-3A

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	khr
DATE:	5/29/2001
UNITS:	ug/L
ICV Time:	10:10 AM
CCV1 Time:	10:25 AM
CCV2 Time:	10:55 AM

	Initial Calibration Verification			Continuing Calibration Verification					Q
					CCV1		CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9990	99.9	9850	98.5	
Antimony	1200	1180	98.3	1200	1170	97.5	1150	95.8	
Arsenic	400	389	97.3	400	385	96.3	380	95.0	
Barium	1000	1040	104.0	1000	1030	103.0	1020	102.0	
Beryllium	50	51.2	102.4	50	51.3	102.6	50.8	101.6	
Cadmium	50	49.6	99.2	50	49.3	98.6	48.7	97.4	
Calcium	10000	10200	102.0	10000	10200	102.0	10100	101.0	
Chromium	500	519	103.8	500	516	103.2	510	102.0	
Cobalt	200	211	105.5	200	209	104.5	208	104.0	
Copper	500	509	101.8	500	511	102.2	503	100.6	
Iron	4000	4180	104.5	4000	4190	104.8	4120	103.0	
Lead	500	509	101.8	500	502	100.4	497	99.4	
Magnesium	10000	9950	99.5	10000	9880	98.8	9760	97.6	
Manganese	500	510	102.0	500	509	101.8	503	100.6	
Nickel	500	523	104.6	500	518	103.6	511	102.2	
Potassium	50000	51300	102.6	50000	51100	102.2	49400	98.8	
Selenium	400	412	103.0	400	405	101.3	402	100.5	
Silver	400	385	96.3	400	386	96.5	381	95.3	
Sodium	50000	48700	97.4	50000	49400	98.8	48800	97.6	
Thallium	500	530	106.0	500	532	106.4	521	104.2	
Vanadium	1000	1020	102.0	1000	1020	102.0	1010	101.0	
Zinc	1000	1020	102.0	1000	1010	101.0	1000	100.0	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/29/2001

UNITS: ug/L

ICV Time: 10:10 AM
CCV1 Time: 12:01 PM
CCV2 Time: 12:52 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
					CCV1		CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	10100	101.0	9810	98.1	
Antimony	1200	1180	98.3	1200	1180	98.3	1140	95.0	
Arsenic	400	389	97.3	400	392	98.0	374	93.5	
Barium	1000	1040	104.0	1000	1040	104.0	1010	101.0	
Beryllium	50	51.2	102.4	50	51.4	102.8	49.7	99.4	
Cadmium	50	49.6	99.2	50	49.9	99.8	49.0	98.0	
Calcium	10000	10200	102.0	10000	10400	104.0	10200	102.0	
Chromium	500	519	103.8	500	517	103.4	506	101.2	
Cobalt	200	211	105.5	200	210	105.0	203	101.5	
Copper	500	509	101.8	500	520	104.0	503	100.6	
Iron	4000	4180	104.5	4000	4290	107.3	4130	103.3	
Lead	500	509	101.8	500	506	101.2	489	97.8	
Magnesium	10000	9950	99.5	10000	9990	99.9	9660	96.6	
Manganese	500	510	102.0	500	517	103.4	500	100.0	
Nickel	500	523	104.6	500	520	104.0	504	100.8	
Potassium	50000	51300	102.6	50000	51600	103.2	52400	104.8	
Selenium	400	412	103.0	400	407	101.8	395	98.8	
Silver	400	385	96.3	400	389	97.3	380	95.0	
Sodium	50000	48700	97.4	50000	53800	107.6	47700	95.4	
Thallium	500	530	106.0	500	503	100.6	512	102.4	
Vanadium	1000	1020	102.0	1000	1030	103.0	1000	100.0	
Zinc	1000	1020	102.0	1000	1010	101.0	952	95.2	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/29/2001

UNITS: ug/L

ICV Time: 10:10 AM
CCV1 Time: 2:00 PM
CCV2 Time: 2:46 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9890	98.9	9350	93.5	
Antimony	1200	1180	98.3	1200	1140	95.0	1080	90.0	
Arsenic	400	389	97.3	400	373	93.3	353	88.3	*
Barium	1000	1040	104.0	1000	1010	101.0	972	97.2	
Beryllium	50	51.2	102.4	50	49.5	99.0	48.6	97.2	
Cadmium	50	49.6	99.2	50	49.3	98.6	46.1	92.2	
Calcium	10000	10200	102.0	10000	10200	102.0	9620	96.2	
Chromium	500	519	103.8	500	509	101.8	485	97.0	
Cobalt	200	211	105.5	200	204	102.0	195	97.5	
Copper	500	509	101.8	500	502	100.4	479	95.8	
Iron	4000	4180	104.5	4000	4130	103.3	3890	97.3	
Lead	500	509	101.8	500	492	98.4	461	92.2	
Magnesium	10000	9950	99.5	10000	9710	97.1	9210	92.1	
Manganese	500	510	102.0	500	503	100.6	481	96.2	
Nickel	500	523	104.6	500	509	101.8	480	96.0	
Potassium	50000	51300	102.6	50000	51700	103.4	47700	95.4	
Selenium	400	412	103.0	400	395	98.8	374	93.5	
Silver	400	385	96.3	400	380	95.0	364	91.0	
Sodium	50000	48700	97.4	50000	48400	96.8	45400	90.8	
Thallium	500	530	106.0	500	512	102.4	497	99.4	
Vanadium	1000	1020	102.0	1000	1000	100.0	966	96.6	
Zinc	1000	1020	102.0	1000	961	96.1	915	91.5	

(1) Control Limits: 90-110%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/29/2001

UNITS: ug/L

ICV Time: 10:10 AM
CCV1 Time: 3:30 PM
CCV2 Time: 3:55 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10000	100.0	10000	9790	97.9	9780	97.8	
Antimony	1200	1180	98.3	1200	1120	93.3	1110	92.5	
Arsenic	400	389	97.3	400	369	92.3	365	91.3	
Barium	1000	1040	104.0	1000	1020	102.0	1010	101.0	
Beryllium	50	51.2	102.4	50	50.2	100.4	50.1	100.2	
Cadmium	50	49.6	99.2	50	48.1	96.2	47.9	95.8	
Calcium	10000	10200	102.0	10000	9970	99.7	9940	99.4	
Chromium	500	519	103.8	500	510	102.0	506	101.2	
Cobalt	200	211	105.5	200	204	102.0	203	101.5	
Copper	500	509	101.8	500	499	99.8	502	100.4	
Iron	4000	4180	104.5	4000	4120	103.0	4090	102.3	
Lead	500	509	101.8	500	486	97.2	481	96.2	
Magnesium	10000	9950	99.5	10000	9700	97.0	9590	95.9	
Manganese	500	510	102.0	500	502	100.4	500	100.0	
Nickel	500	523	104.6	500	506	101.2	501	100.2	
Potassium	50000	51300	102.6	50000	50800	101.6	49100	98.2	
Selenium	400	412	103.0	400	390	97.5	384	96.0	
Silver	400	385	96.3	400	379	94.8	380	95.0	
Sodium	50000	48700	97.4	50000	48400	96.8	48200	96.4	
Thallium	500	530	106.0	500	529	105.8	499	99.8	
Vanadium	1000	1020	102.0	1000	1010	101.0	1000	100.0	
Zinc	1000	1020	102.0	1000	966	96.6	940	94.0	

(1) Control Limits: 90-110%

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KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	khr
DATE:	5/29/2001
UNITS:	ug/L
ICB Time:	10:14 AM
CCB1 Time:	10:30 AM
CCB2 Time:	10:59 AM
CCB3 Time:	12:05 PM

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	1.47		2.96		3.29		6.21	
Antimony	0.116		-0.108		-0.0292		0.0853	
Arsenic	-0.0774		0.0899		-0.159		0.126	
Barium	0.125		0.126		0.138		0.28	
Beryllium	-0.000727		-0.0046		0.000365		-0.00971	
Cadmium	-0.00725		0.00000404		0.0264		-0.00133	
Calcium	8.24		8.01		3.15		12.8	
Chromium	-0.0216		-0.069		-0.00579		-0.156	
Cobalt	0.0284		0.0337		0.03		0.0226	
Copper	-0.00462		-0.0507		0.0271		-0.174	
Iron	1.61		5.77		4.26		21.4	
Lead	0.00563		-0.0746		-0.219		-0.555	
Magnesium	1.35		1.26		1.31		2.44	
Manganese	0.00351		0.00816		0.00889		0.0264	
Nickel	0.0575		0.0171		-0.00133		0.0805	
Potassium	5.99		23.7		22.0		70.9	
Selenium	0.258		0.421		1.11		2.49	
Silver	-0.0566		-0.0858		-0.101		-0.1	
Sodium	10.2		22.6		19.1		225	
Thallium	0.276		1.05		1.45		4.84	
Vanadium	0.19		0.146		0.232		0.35	
Zinc	-0.0867		0.0265		-0.00677		-0.262	

U = Result is less than MDL
B = Result is between MDL and RL

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KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	khr
DATE:	5/29/2001
UNITS:	ug/L
ICB Time:	10:14 AM
CCB1 Time:	12:57 PM
CCB2 Time:	2:04 PM
CCB3 Time:	2:50 PM

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	1.47		7.25		6.22		5.57	
Antimony	0.116		-0.321		-0.0742		0.166	
Arsenic	-0.0774		0.196		0.0178		0.274	
Barium	0.125		0.317		0.341		0.31	
Beryllium	-0.000727		-0.0128		-0.00778		-0.0157	
Cadmium	-0.00725		-0.0212		-0.00952		0.0648	
Calcium	8.24		5.43		13.7		7.86	
Chromium	-0.0216		-0.146		-0.204		0.0483	
Cobalt	0.0284		-0.0228		0.0119		-0.0136	
Copper	-0.00462		-0.233		-0.234		-0.0246	
Iron	1.61		14.8		10.4		5.83	
Lead	0.00563		-0.364		-0.475		-0.0785	
Magnesium	1.35		3.07		2.76		2.41	
Manganese	0.00351		0.0512		0.0284		0.0243	
Nickel	0.0575		0.116		0.0879		0.0678	
Potassium	5.99		42.1		31.7		94.8	
Selenium	0.258		-0.495		1.51		2.18	
Silver	-0.0566		-0.114		-0.01		-0.205	
Sodium	10.2		24.7		20.4		151	
Thallium	0.276		2.90		1.14		7.68	
Vanadium	0.19		0.31		0.374		0.352	
Zinc	-0.0867		-0.135		-0.387		0.672	

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	PE - Optima 3000
METHOD:	6010B
ANALYST:	khr
DATE:	5/29/2001
UNITS:	ug/L
ICB Time:	10:14 AM
CCB1 Time:	3:34 PM
CCB2 Time:	3:59 PM
CCB3 Time:	

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	1.47		4.64		4.96			
Antimony	0.116		0.481		0.0391			
Arsenic	-0.0774		0.203		0.0304			
Barium	0.125		0.278		0.278			
Beryllium	-0.000727		-0.00307		-0.00817			
Cadmium	-0.00725		0.00719		-0.0114			
Calcium	8.24		2.62		7.26			
Chromium	-0.0216		0.0313		0.0129			
Cobalt	0.0284		0.0396		0.00396			
Copper	-0.00462		-0.0129		-0.0986			
Iron	1.61		2.94		2.72			
Lead	0.00563		-0.207		-0.259			
Magnesium	1.35		2.40		2.40			
Manganese	0.00351		0.0205		0.0174			
Nickel	0.0575		0.0745		0.118			
Potassium	5.99		99.2		112			
Selenium	0.258		-0.0875		1.66			
Silver	-0.0566		-0.091		-0.143			
Sodium	10.2		153		207			
Thallium	0.276		4.84		2.74			
Vanadium	0.19		0.253		0.259			
Zinc	-0.0867		0.0438		-0.185			

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/29/2001

UNITS: ug/L

Initial ICSA Time: 10:18 AM
Initial ICSAB Time: 10:22 AM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	250000	250000	240000	239000	95.6				
Antimony	0	500	-12.0	467	93.4				
Arsenic	0	250	-0.382	245	98.0				
Barium	0	250	-4.81	221	88.4				
Beryllium	0	250	0.621	252	100.8				
Cadmium	0	500	-0.537	458	91.6				
Calcium	250000	250000	243000	240000	96.0				
Chromium	0	250	2.80	225	90.0				
Cobalt	0	250	5.70	214	85.6				
Copper	0	250	-2.48	239	95.6				
Iron	100000	100000	85200	85000	85.0				
Lead	0	500	-2.87	434	86.8				
Magnesium	250000	250000	236000	236000	94.4				
Manganese	0	250	-4.06	221	88.4				
Nickel	0	500	0.657	423	84.6				
Potassium	0	5000	-514	5080	101.6				
Selenium	0	250	-20.0	239	95.6				
Silver	0	500	0.893	490	98.0				
Sodium	0	5000	95.3	5180	103.6				
Thallium	0	500	5.88	301	60.2				*
Vanadium	0	250	-4.22	222	88.8				
Zinc	0	500	-6.08	433	86.6				

(1) Control Limits: 80-120%

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KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PE - Optima 3000
METHOD: 6010B
ANALYST: khr
DATE: 5/29/2001

UNITS: ug/L

Spiked Sample Time: 10:46 AM
Sample Time: 10:42 AM

Sample ID: 0548602PS 0.9

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	9660		49	U	10000	96.6	
Antimony	75-125	941		6.4	U	1000	94.1	
Arsenic	75-125	940		0.796	U	1000	94.0	
Barium	75-125	8970		1.6	U	10000	89.7	
Beryllium	75-125	944		0.035	U	1000	94.4	
Cadmium	75-125	918		0.71	U	1000	91.8	
Calcium	75-125	9750		30.8	U	10000	97.5	
Chromium	75-125	945		0.65	U	1000	94.5	
Cobalt	75-125	942		0.47	U	1000	94.2	
Copper	75-125	936		1.9	U	1000	93.6	
Iron	75-125	944		18.5	B	1000	92.6	
Lead	75-125	958		1.17	U	1000	95.8	
Magnesium	75-125	9390		9.914	U	10000	93.9	
Manganese	75-125	961		2.1	U	1000	96.1	
Nickel	75-125	947		3.6	U	1000	94.7	
Potassium	75-125	48100		250	U	50000	96.2	
Selenium	75-125	889		8	U	1000	88.9	
Silver	75-125	191		0.45	U	200	95.5	
Sodium	75-125	47500		56.9	B	50000	94.9	
Thallium	75-125	971	B	11.0		1000	96.0	
Vanadium	75-125	933		3.6	U	1000	93.3	
Zinc	75-125	970		8.80	B	1000	96.1	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 11/16/2000

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Aluminum	237.30	100	49.0
Antimony	206.80	200	6.47
Arsenic	189.00	4	0.796
Barium	230.40	10	1.605
Beryllium	234.90	10	0.035
Cadmium	228.80	10	0.71
Calcium	227.50	200	30.8
Chromium	267.70	5	0.647
Cobalt	228.60	20	0.470
Copper	327.40	20	1.9
Iron	261.40	40	4.6
Lead	220.40	5	1.17
Magnesium	279.10	500	9.91
Manganese	257.60	10	0.2
Nickel	231.60	40	3.6
Potassium	766.50	1000	250
Selenium	196.00	100	8
Silver	328.10	10	0.450
Sodium	589.60	500	150.0
Thallium	190.80	100	11.0
Vanadium	292.40	10	3.6
Zinc	206.20	20	3.17

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As
Aluminum	237.30	0.0000000	0.0500000	-7.3000000	0.0600000	0.0000000
Antimony	206.80	0.1200000	0.0060000	0.1000000	0.0100000	0.0000000
Arsenic	189.00	-0.0050000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	230.40	-0.0040000	-0.0040000	-0.0100000	0.0000000	0.0000000
Beryllium	234.90	0.0037000	0.0000000	0.0650000	0.0000000	0.0000000
Cadmium	228.80	0.0009000	0.0008000	-0.0010000	0.0008000	0.0000000
Calcium	227.50	-0.1090000	0.0000000	19.0000000	0.0000000	0.0000000
Chromium	267.70	0.0010000	0.0000000	-0.0430000	0.0050000	0.0000000
Cobalt	228.60	-0.0020000	-0.0005000	-0.0200000	-0.0005000	0.0000000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.40	-0.1000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.10	0.1170000	0.1050000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0060000	0.0004000	0.0060000	0.0200000	0.0000000
Molybdenum	202.00	0.0026000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0130000	0.0000000	0.0000000
Potassium	404.70	0.0000000	6.0000000	0.0000000	8.0000000	0.0000000
Selenium	196.00	0.0900500	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	-0.3500000	-0.5000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	-0.0100000	0.0000000	0.0000000
Strontium	232.20	-0.2100000	-0.1000000	-4.7000000	-0.3600000	0.0000000
Thallium	190.80	0.0900000	0.0000000	-0.1000000	0.0000000	-2.6300000
Titanium	337.30	-0.0400000	-0.0400000	-0.0400000	0.0240000	0.0000000
Vanadium	292.40	0.0200000	0.0000000	-0.0800000	0.0000000	0.0000000
Zinc	206.20	0.0400000	0.0000000	0.0700000	0.0100000	0.0000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ba	Be	Cd	Co	Cr
Aluminum	237.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	21.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	-10.0000000
Barium	230.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.2500000
Calcium	227.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0750000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.40	0.0000000	0.0000000	-0.0240000	-100.00000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.5680000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.5800000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0800000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	-0.6500000	-1.9700000	0.0000000	1.5500000	0.1660000
Titanium	337.30	0.0000000	0.0000000	0.0000000	0.0000000	-7.1000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-1.6000000

Comments:

ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: PE - Optima 3000

Date: 1/7/2001

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Mo	Ti	V
Aluminum	237.30	0.0000000	0.0000000	0.0000000	4.5000000	0.0000000
Antimony	206.80	0.0000000	0.3700000	-1.3000000	2.2000000	-0.6600000
Arsenic	189.00	0.0000000	-0.0025000	0.0000000	0.0000000	0.1000000
Barium	230.40	0.0000000	0.0000000	0.0000000	-1.0000000	0.0000000
Beryllium	234.90	0.0000000	0.0000000	-0.1200000	-0.0010000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.3000000	0.1900000
Calcium	227.50	0.0000000	0.0000000	0.0000000	4.5000000	40.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	-6.5000000
Cobalt	228.60	0.0000000	0.0000000	-2.1900000	2.3000000	-0.0700000
Copper	327.40	0.0000000	0.0000000	0.0000000	0.3000000	0.0000000
Iron	261.40	0.0000000	-30.0000000	0.0000000	0.0000000	-3.3000000
Lead	220.40	0.0000000	0.0000000	-2.2600000	-0.7100000	-0.2000000
Magnesium	279.10	0.0000000	0.0000000	0.0000000	5.0000000	4.6000000
Manganese	257.60	0.0000000	0.0000000	0.0900000	0.0700000	-0.0200000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.1600000	-0.0700000
Potassium	404.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	-0.2000000	0.9400000
Silicon	288.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	232.20	0.0000000	0.0000000	165.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	-8.3500000	0.0000000	-7.8000000	1.4000000
Titanium	337.30	0.0000000	-4.7000000	-4.9000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.5000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: PE - Optima 3000

Date: 3/28/2001

Analyte	Integ. Time (Sec.)	Concentration (ug/L)
Aluminum	10.00	450000.0
Antimony	10.00	
Arsenic	10.00	2000.0
Barium	10.00	10000.0
Beryllium	10.00	1000.0
Cadmium	10.00	1000.0
Calcium	10.00	1000000.0
Chromium	10.00	10000.0
Cobalt	10.00	10000.0
Copper	10.00	3000.0
Iron	10.00	100000.0
Lead	10.00	100000.0
Magnesium	10.00	500000.0
Manganese	10.00	10000.0
Nickel	10.00	10000.0
Potassium	10.00	190000.0
Selenium	10.00	1000.0
Silver	10.00	1000.0
Sodium	10.00	200000.0
Thallium	10.00	15000.0
Vanadium	10.00	10000.0
Zinc	10.00	10000.0

Comments:

Method : SB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	5	QC	ICV 2nd Vendor
6	1	QC	ICB
7	6	QC	ICSA
8	7	QC	ICSAB
9	5	QC	CCV
10	1	QC	CCB
11	9		PBW Y WG98149-03
12	10		LCSW Y WG98149-04
13	11		0548602
14	12		0548602PS 0.9
15	13		0548603
16	5	QC	CCV
17	1	QC	CCB

Kim H Rhodes
Box Y, MW, 7P
WG98336
WG98379
WG98283

Method : SB

Seq.	Loc.	Sample ID
1	1	S0
2	2	S1
3	3	S2
4	4	S3
5	14	0536401 WG98149-01
6	15	0536401S WG98149-05
7	16	0536401SD WG98149-06
8	17	0536402 WG98149-02
9	18	0536402DP WG98149-07
10	19	0546704
11	20	0546705
12	21	0536001
13	22	0548401
14	23	0548402
15	5	CCV
16	1	CCB
17	24	0552501
18	25	0552604
19	26	0552903
20	27	0536403
21	28	0536404
22	29	0536405
23	30	0536406
24	31	0536407
25	32	0536408
26	33	0536409
27	5	CCV
28	1	CCB
29	34	0536410
30	5	CCV
31	1	CCB

Method : SB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	34		0536410
6	35		0536402 0.1
7	36		0536402DP 0.1
8	37		0536408 0.1
9	38		0536409 0.1
10	39		0536001 0.1
11	40		0550101 0.1
12	41		0550102 0.1
13	42		0550103 0.1
14	43		0550104 0.1
15	5	QC	CCV
16	1	QC	CCB

Method : SB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	44		PBW MU
6	45		LCSW MU
7	46		TC BLK 5/25
8	47		TC0560705
9	48		TC0560705SDL 0.2
10	49		TC0560705PS 0.9
11	50		TC0560706
12	51		TC0560706S
13	52		TC0560706SD
14	5	QC	CCV
15	1	QC	CCB

Method : SB

Seq.	Loc.		Sample ID
1	1		S0
2	2		S1
3	3		S2
4	4		S3
5	9		PBW 7P WG98171-03
6	10		LCSW 7P WG98171-04
7	11		0555207
8	12		0555207SDL 0.2
9	13		0555207PS 0.9
10	14		0538304 WG98171-01 CCV / CCB
11	15		0538305S WG98171-05
12	16		0538306SD WG98171-06
13	17		0538310 WG98171-02
14	18		0538311DP WG98171-07
15	5	QC	CCV
16	1	QC	CCB

5/29/2001 9:32:38 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

5/29/2001 9:38:11 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

5/29/2001 9:40:20 AM Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): 0.000 Slit adjustment: 0

Analysis Begun

Start Time: 5/29/2001 9:43:45 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 5/29/2001 9:43:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3140347.1	42493.33	1.35%		
Ag 328.068	1430.2	6.65	0.46%	[0.00]	mg/L
Al 237.312	-1796.5	2.56	0.14%	[0.00]	mg/L
As 188.979	-9.3	0.78	8.34%	[0.00]	mg/L
Ba 230.424	-1467.7	14.51	0.99%	[0.00]	mg/L
Be 234.861	87.3	2.44	2.79%	[0.00]	mg/L
Ca 227.549	-226.4	10.19	4.50%	[0.00]	mg/L
Cd 228.802	98.8	1.19	1.21%	[0.00]	mg/L
Co 228.616	60.5	2.51	4.15%	[0.00]	mg/L
Cr 267.716	450.8	30.46	6.76%	[0.00]	mg/L
Cu 327.396	1230.7	13.58	1.10%	[0.00]	mg/L
Fe 261.387	-1963.2	13.54	0.69%	[0.00]	mg/L
Mg 279.079	-2447.4	7.62	0.31%	[0.00]	mg/L
Mn 257.610	-515.1	1.36	0.26%	[0.00]	mg/L
Mo 202.030	17.4	5.05	29.10%	[0.00]	mg/L
Ni 231.604	-413.5	4.21	1.02%	[0.00]	mg/L
Pb 220.353	138.7	4.13	2.97%	[0.00]	mg/L
Sb 206.833	33.7	2.40	7.11%	[0.00]	mg/L
Se 196.026	-23.4	6.06	25.93%	[0.00]	mg/L
Si 288.158	1407.9	138.60	9.84%	[0.00]	mg/L
Sn 189.933	12.5	3.60	28.85%	[0.00]	mg/L
Ti 337.280	-1817.5	7.42	0.41%	[0.00]	mg/L
Tl 190.800	11.0	4.56	41.51%	[0.00]	mg/L
V 292.402	-645.5	18.45	2.86%	[0.00]	mg/L
Zn 206.200	329.2	11.21	3.41%	[0.00]	mg/L
K 766.490	775.4	26.28	3.39%	[0.00]	mg/L
Na 589.592	-62.9	133.37	212.06%	[0.00]	mg/L
Sr 407.771	217.8	4.39	2.02%	[0.00]	mg/L
Sr 421.552	67.2	56.66	84.36%	[0.00]	mg/L
Sr 460.733	480.2	38.85	8.09%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Autosampler Location: 2
Date Collected: 5/29/2001 9:47:57 AM

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3147065.0	55574.87	1.77%		
Ag 328.068	2464.3	95.44	3.87%	[0.0040]	mg/L
Al 237.312	1545.1	2.14	0.14%	[0.10]	mg/L
As 188.979	33.7	1.07	3.18%	[0.0040]	mg/L
Ba 230.424	3579.6	19.37	0.54%	[0.010]	mg/L
Be 234.861	821.6	8.15	0.99%	[0.00050]	mg/L
Ca 227.549	130.5	12.89	9.88%	[0.10]	mg/L
Cd 228.802	209.3	3.73	1.78%	[0.00050]	mg/L
Co 228.616	430.3	0.08	0.02%	[0.0020]	mg/L
Cr 267.716	1792.7	2.00	0.11%	[0.0050]	mg/L
Cu 327.396	1800.7	25.10	1.39%	[0.0050]	mg/L
Fe 261.387	567.4	3.60	0.63%	[0.040]	mg/L
Mg 279.079	5785.5	214.97	3.72%	[0.10]	mg/L
Mn 257.610	11510.3	350.26	3.04%	[0.0050]	mg/L
Mo 202.030	508.3	5.26	1.04%	[0.010]	mg/L
Ni 231.604	1032.8	17.45	1.69%	[0.0050]	mg/L
Pb 220.353	124.6	1.59	1.28%	[0.0050]	mg/L
Sb 206.833	195.3	0.12	0.06%	[0.012]	mg/L
Se 196.026	26.4	0.35	1.33%	[0.0040]	mg/L
Si 288.158	4914.6	283.57	5.77%	[0.050]	mg/L
Sn 189.933	88.0	0.21	0.24%	[0.010]	mg/L
Ti 337.280	15778.8	567.43	3.60%	[0.010]	mg/L
Tl 190.800	40.7	5.27	12.95%	[0.0050]	mg/L
V 292.402	2550.3	50.82	1.99%	[0.010]	mg/L
Zn 206.200	2005.7	12.59	0.63%	[0.010]	mg/L
K 766.490	9468.6	366.89	3.87%	[0.50]	mg/L
Na 589.592	18289.6	671.60	3.67%	[0.50]	mg/L
Sr 407.771	15472.0	371.56	2.40%	[0.010]	mg/L
Sr 421.552	7514.9	172.70	2.30%	[0.010]	mg/L
Sr 460.733	209.8	36.39	17.35%	[0.010]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	616100	0.00000	1.000000	
Al 237.312	1	Lin Thru 0	0.0	15450	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	8431	0.00000	1.000000	
Ba 230.424	1	Lin Thru 0	0.0	358000	0.00000	1.000000	
Be 234.861	1	Lin Thru 0	0.0	1643000	0.00000	1.000000	
Ca 227.549	1	Lin Thru 0	0.0	1305	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	418600	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	215100	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	358500	0.00000	1.000000	
Cu 327.396	1	Lin Thru 0	0.0	360100	0.00000	1.000000	
Fe 261.387	1	Lin Thru 0	0.0	14180	0.00000	1.000000	
Mg 279.079	1	Lin Thru 0	0.0	57850	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	2302000	0.00000	1.000000	
Mo 202.030	1	Lin Thru 0	0.0	50830	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	206600	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	24910	0.00000	1.000000	
Sb 206.833	1	Lin Thru 0	0.0	16270	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	6595	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	98290	0.00000	1.000000	
Sn 189.933	1	Lin Thru 0	0.0	8801	0.00000	1.000000	
Ti 337.280	1	Lin Thru 0	0.0	1578000	0.00000	1.000000	
Tl 190.800	1	Lin Thru 0	0.0	8140	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	255000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	200600	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	18940	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	36580	0.00000	1.000000	
Sr 407.771	1	Lin, Calc Int	0.0	1547000	0.00000	1.000000	

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 5/29/2001 9:52:07 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3765414.6	110737.64	2.94%		
Ag 328.068	294335.3	6620.06	2.25%	[0.40]	mg/L
Al 237.312	177898.8	3940.93	2.22%	[10.00]	mg/L
As 188.979	4205.4	57.43	1.37%	[0.40]	mg/L
Ba 230.424	387025.7	9004.11	2.33%	[1.00]	mg/L
Be 234.861	91615.4	1908.12	2.08%	[0.05]	mg/L
Ca 227.549	13415.3	144.67	1.08%	[10.00]	mg/L
Cd 228.802	23080.6	296.33	1.28%	[0.05]	mg/L
Co 228.616	43016.0	951.54	2.21%	[0.20]	mg/L
Cr 267.716	190300.5	4672.11	2.46%	[0.50]	mg/L
Cu 327.396	224396.2	5276.84	2.35%	[0.50]	mg/L
Fe 261.387	107550.3	2593.58	2.41%	[4.00]	mg/L
Mg 279.079	666729.6	17701.17	2.65%	[10.00]	mg/L
Mn 257.610	1196511.7	26631.71	2.23%	[0.50]	mg/L
Mo 202.030	61000.3	1679.45	2.75%	[1.00]	mg/L
Ni 231.604	109034.9	2870.57	2.63%	[0.50]	mg/L
Pb 220.353	13492.2	166.26	1.23%	[0.50]	mg/L
Sb 206.833	20625.8	263.24	1.28%	[1.20]	mg/L
Se 196.026	3423.3	37.83	1.11%	[0.40]	mg/L
Si 288.158	587836.0	10760.37	1.83%	[5.00]	mg/L
Sn 189.933	15412.3	449.90	2.92%	[1.00]	mg/L
Ti 337.280	1760739.2	40539.16	2.30%	[1.00]	mg/L
Tl 190.800	6376.8	160.57	2.52%	[0.50]	mg/L
V 292.402	312519.6	7360.77	2.36%	[1.00]	mg/L
Zn 206.200	191014.1	5160.45	2.70%	[1.00]	mg/L
K 766.490	1051813.8	25870.09	2.46%	[50.00]	mg/L
Na 589.592	1920181.0	1712.76	0.09%	[50.00]	mg/L
Sr 407.771	1682702.3	2291.85	0.14%	[1.00]	mg/L
Sr 421.552	832218.0	1136.98	0.14%	[1.00]	mg/L
Sr 460.733	23557.8	700.86	2.98%	[1.00]	mg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 5/29/2001 9:56:22 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	3782640.1	41210.23	1.09%		
Ag 328.068	604968.7	8385.33	1.39%	[0.80]	mg/L
Al 237.312	364516.5	705.34	0.19%	[20.00]	mg/L
As 188.979	8569.4	52.82	0.62%	[0.80]	mg/L
Ba 230.424	754299.5	1909.71	0.25%	[2.00]	mg/L
Be 234.861	181586.4	2129.80	1.17%	[0.10]	mg/L
Ca 227.549	26026.4	163.19	0.63%	[20.00]	mg/L
Cd 228.802	46654.1	30.90	0.07%	[0.10]	mg/L
Co 228.616	84799.2	373.59	0.44%	[0.40]	mg/L
Cr 267.716	376405.7	1321.43	0.35%	[1.00]	mg/L
Cu 327.396	450067.2	2616.63	0.58%	[1.00]	mg/L
Fe 261.387	217390.1	111.04	0.05%	[8.00]	mg/L
Mg 279.079	1376573.3	18682.42	1.36%	[20.00]	mg/L
Mn 257.610	2353712.5	30504.30	1.30%	[1.00]	mg/L
Mo 202.030	121498.0	928.98	0.76%	[2.00]	mg/L
Ni 231.604	215770.8	1118.36	0.52%	[1.00]	mg/L
Pb 220.353	26802.4	158.06	0.59%	[1.00]	mg/L
Sb 206.833	41736.3	244.76	0.59%	[2.40]	mg/L
Se 196.026	6944.7	42.62	0.61%	[0.80]	mg/L

Si 288.158	1163331.3	12336.73	1.06%	[10.00] mg/L
Sn 189.933	31967.7	615.57	1.93%	[2.00] mg/L
Ti 337.280	3513048.2	43915.34	1.25%	[2.00] mg/L
Tl 190.800	13055.6	175.33	1.34%	[1.00] mg/L
V 292.402	628014.4	7906.49	1.26%	[2.00] mg/L
Zn 206.200	377138.1	4821.77	1.28%	[2.00] mg/L
K 766.490	2119991.0	32202.17	1.52%	[100.00] mg/L
Na 589.592	4016771.4	34454.16	0.86%	[100.00] mg/L
Sr 407.771	3483771.9	25769.87	0.74%	[2.00] mg/L
Sr 421.552	1726219.4	14129.16	0.82%	[2.00] mg/L
Sr 460.733	47930.9	445.25	0.93%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	752100	0.00000	0.999941	
Al 237.312	3	Lin Thru 0	0.0	18140	0.00000	0.999954	
As 188.979	3	Lin Thru 0	0.0	10670	0.00000	0.999972	
Ba 230.424	3	Lin Thru 0	0.0	379100	0.00000	0.999946	
Be 234.861	3	Lin Thru 0	0.0	1819000	0.00000	0.999993	
Ca 227.549	3	Lin Thru 0	0.0	1309	0.00000	0.999925	
Cd 228.802	3	Lin Thru 0	0.0	465600	0.00000	0.999991	
Co 228.616	3	Lin Thru 0	0.0	212600	0.00000	0.999983	
Cr 267.716	3	Lin Thru 0	0.0	377200	0.00000	0.999990	
Cu 327.396	3	Lin Thru 0	0.0	449800	0.00000	0.999999	
Fe 261.387	3	Lin Thru 0	0.0	27120	0.00000	0.999989	
Mg 279.079	3	Lin Thru 0	0.0	68400	0.00000	0.999920	
Mn 257.610	3	Lin Thru 0	0.0	2362000	0.00000	0.999978	
Mo 202.030	3	Lin Thru 0	0.0	60800	0.00000	0.999998	
Ni 231.604	3	Lin Thru 0	0.0	216200	0.00000	0.999991	
Pb 220.353	3	Lin Thru 0	0.0	26840	0.00000	0.999996	
Sb 206.833	3	Lin Thru 0	0.0	17350	0.00000	0.999989	
Se 196.026	3	Lin Thru 0	0.0	8656	0.00000	0.999983	
Si 288.158	3	Lin Thru 0	0.0	116600	0.00000	0.999991	
Sn 189.933	3	Lin Thru 0	0.0	15870	0.00000	0.999894	
Ti 337.280	3	Lin Thru 0	0.0	1757000	0.00000	0.999999	
Tl 190.800	3	Lin Thru 0	0.0	13000	0.00000	0.999955	
V 292.402	3	Lin Thru 0	0.0	313700	0.00000	0.999998	
Zn 206.200	3	Lin Thru 0	0.0	189100	0.00000	0.999987	
K 766.490	3	Lin Thru 0	0.0	21170	0.00000	0.999995	
Na 589.592	3	Lin Thru 0	0.0	39810	0.00000	0.999843	
Sr 407.771	3	Lin, Calc Int	-11650.3	1737000	0.00000	0.999848	
Sr 421.552	3	Lin, Bracketing	-11283.4	863700	0.00000	0.999792	
Sr 460.733	3	Non Lin, Calc Int	-10.9	23170	402.52156	1.000000	

Sequence No.: 5
Sample ID: ICV 2nd Vendor
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 10:00:43 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3849360.2						51477.47	1.34%
Ag 328.068	292345.7	0.389	mg/L	0.0041	0.389	mg/L	0.0041	1.06%
QC value within limits for Ag 328.068 Recovery = 97.17%								
Al 237.312	182800.3	10.1	mg/L	0.14	10.1	mg/L	0.14	1.36%
QC value within limits for Al 237.312 Recovery = 101.03%								
As 188.979	4128.9	0.392	mg/L	0.0039	0.392	mg/L	0.0039	0.99%
QC value within limits for As 188.979 Recovery = 98.00%								
Ba 230.424	396458.2	1.05	mg/L	0.015	1.05	mg/L	0.015	1.48%
QC value within limits for Ba 230.424 Recovery = 104.68%								
Be 234.861	94175.9	0.0516	mg/L	0.00066	0.0516	mg/L	0.00066	1.27%
QC value within limits for Be 234.861 Recovery = 103.15%								
Ca 227.549	13625.6	10.3	mg/L	0.05	10.3	mg/L	0.05	0.50%
QC value within limits for Ca 227.549 Recovery = 102.82%								
Cd 228.802	23549.3	0.0499	mg/L	0.00032	0.0499	mg/L	0.00032	0.63%

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QC value within limits for Cd 228.802 Recovery = 99.88%

Co 228.616	45101.4	0.212 mg/L	0.0030	0.212 mg/L	0.0030	1.39%

QC value greater than the upper limit for Co 228.616 Recovery = 106.13%

Cr 267.716	194928.3	0.524 mg/L	0.0080	0.524 mg/L	0.0080	1.54%

QC value within limits for Cr 267.716 Recovery = 104.71%

Cu 327.396	231685.5	0.515 mg/L	0.0047	0.515 mg/L	0.0047	0.91%

QC value within limits for Cu 327.396 Recovery = 102.95%

Fe 261.387	113523.5	4.23 mg/L	0.062	4.23 mg/L	0.062	1.46%

QC value greater than the upper limit for Fe 261.387 Recovery = 105.67%

Mg 279.079	687561.2	10.0 mg/L	0.19	10.0 mg/L	0.19	1.94%

QC value within limits for Mg 279.079 Recovery = 100.40%

Mn 257.610	1214905.8	0.514 mg/L	0.0069	0.514 mg/L	0.0069	1.33%

QC value within limits for Mn 257.610 Recovery = 102.74%

Mo 202.030	63353.8	1.04 mg/L	0.020	1.04 mg/L	0.020	1.93%

QC value within limits for Mo 202.030 Recovery = 104.72%

Ni 231.604	113752.6	0.526 mg/L	0.0086	0.526 mg/L	0.0086	1.64%

QC value greater than the upper limit for Ni 231.604 Recovery = 105.28%

Pb 220.353	13624.2	0.512 mg/L	0.0034	0.512 mg/L	0.0034	0.67%

QC value within limits for Pb 220.353 Recovery = 102.32%

Sb 206.833	20876.4	1.19 mg/L	0.008	1.19 mg/L	0.008	0.65%

QC value within limits for Sb 206.833 Recovery = 98.94%

Se 196.026	3600.6	0.413 mg/L	0.0058	0.413 mg/L	0.0058	1.41%

QC value within limits for Se 196.026 Recovery = 103.34%

Si 288.158	3953.0	0.0426 mg/L	0.00009	0.0426 mg/L	0.00009	0.21%

QC value less than the lower limit for Si 288.158 Recovery = 0.85%

Sn 189.933	15053.6	0.946 mg/L	0.0242	0.946 mg/L	0.0242	2.56%

QC value less than the lower limit for Sn 189.933 Recovery = 94.75%

Ti 337.280	1751453.6	1.01 mg/L	0.014	1.01 mg/L	0.014	1.35%

QC value within limits for Ti 337.280 Recovery = 100.91%

Tl 190.800	6900.1	0.542 mg/L	0.0090	0.542 mg/L	0.0090	1.67%

QC value greater than the upper limit for Tl 190.800 Recovery = 108.50%

V 292.402	324050.3	1.03 mg/L	0.014	1.03 mg/L	0.014	1.38%

QC value within limits for V 292.402 Recovery = 103.26%

Zn 206.200	195449.7	1.03 mg/L	0.023	1.03 mg/L	0.023	2.24%

QC value within limits for Zn 206.200 Recovery = 103.38%

K 766.490	1048589.4	49.5 mg/L	0.04	49.5 mg/L	0.04	0.09%

QC value within limits for K 766.490 Recovery = 99.02%

Na 589.592	1991619.3	50.0 mg/L	0.27	50.0 mg/L	0.27	0.54%

QC value within limits for Na 589.592 Recovery = 100.04%

Sr 407.771	1735767.3	1.01 mg/L	0.005	1.01 mg/L	0.005	0.50%

QC value within limits for Sr 407.771 Recovery = 100.60%

Sr 421.552	856664.0	1.00 mg/L	0.005	1.00 mg/L	0.005	0.55%

QC value within limits for Sr 421.552 Recovery = 100.49%

Sr 460.733	23308.6	0.990 mg/L	0.0008	0.990 mg/L	0.0008	0.08%

QC value within limits for Sr 460.733 Recovery = 98.96%

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 10:04:59 AM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 5/29/2001 10:10:01 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 5
Sample ID: ICV 2nd Vendor
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 10:10:01 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3865368.0						31174.88	0.81%
Ag 328.068	289517.0	0.385	mg/L	0.0015	0.385	mg/L	0.0015	0.39%
QC value within limits for Ag 328.068 Recovery = 96.23%								
Al 237.312	181039.2	10.0	mg/L	0.05	10.0	mg/L	0.05	0.55%
QC value within limits for Al 237.312 Recovery = 100.06%								
As 188.979	4097.8	0.389	mg/L	0.0017	0.389	mg/L	0.0017	0.45%
QC value within limits for As 188.979 Recovery = 97.26%								
Ba 230.424	392641.9	1.04	mg/L	0.005	1.04	mg/L	0.005	0.50%
QC value within limits for Ba 230.424 Recovery = 103.68%								
Be 234.861	93504.4	0.0512	mg/L	0.00025	0.0512	mg/L	0.00025	0.50%
QC value within limits for Be 234.861 Recovery = 102.41%								
Ca 227.549	13511.7	10.2	mg/L	0.04	10.2	mg/L	0.04	0.43%
QC value within limits for Ca 227.549 Recovery = 101.96%								
Cd 228.802	23388.4	0.0496	mg/L	0.00021	0.0496	mg/L	0.00021	0.42%
QC value within limits for Cd 228.802 Recovery = 99.20%								
Co 228.616	44758.9	0.211	mg/L	0.0020	0.211	mg/L	0.0020	0.96%
QC value greater than the upper limit for Co 228.616 Recovery = 105.32%								
Cr 267.716	193381.8	0.519	mg/L	0.0027	0.519	mg/L	0.0027	0.51%
QC value within limits for Cr 267.716 Recovery = 103.88%								
Cu 327.396	229262.4	0.509	mg/L	0.0030	0.509	mg/L	0.0030	0.59%
QC value within limits for Cu 327.396 Recovery = 101.88%								
Fe 261.387	112332.3	4.18	mg/L	0.024	4.18	mg/L	0.024	0.58%
QC value within limits for Fe 261.387 Recovery = 104.56%								
Mg 279.079	681334.4	9.95	mg/L	0.065	9.95	mg/L	0.065	0.65%
QC value within limits for Mg 279.079 Recovery = 99.50%								
Mn 257.610	1205751.5	0.510	mg/L	0.0028	0.510	mg/L	0.0028	0.54%
QC value within limits for Mn 257.610 Recovery = 101.97%								
Mo 202.030	62527.5	1.03	mg/L	0.014	1.03	mg/L	0.014	1.38%
QC value within limits for Mo 202.030 Recovery = 103.36%								
Ni 231.604	112991.9	0.523	mg/L	0.0038	0.523	mg/L	0.0038	0.72%
QC value within limits for Ni 231.604 Recovery = 104.58%								
Pb 220.353	13545.2	0.509	mg/L	0.0025	0.509	mg/L	0.0025	0.50%
QC value within limits for Pb 220.353 Recovery = 101.72%								
Sb 206.833	20677.3	1.18	mg/L	0.006	1.18	mg/L	0.006	0.51%
QC value within limits for Sb 206.833 Recovery = 98.00%								
Se 196.026	3588.9	0.412	mg/L	0.0016	0.412	mg/L	0.0016	0.38%
QC value within limits for Se 196.026 Recovery = 103.01%								
Si 288.158	3504.8	0.0387	mg/L	0.00051	0.0387	mg/L	0.00051	1.31%
QC value less than the lower limit for Si 288.158 Recovery = 0.77%								
Sn 189.933	14973.2	0.941	mg/L	0.0104	0.941	mg/L	0.0104	1.11%
QC value less than the lower limit for Sn 189.933 Recovery = 94.25%								
Ti 337.280	1735099.4	0.999	mg/L	0.0051	0.999	mg/L	0.0051	0.51%
QC value within limits for Ti 337.280 Recovery = 99.96%								
Tl 190.800	6735.4	0.530	mg/L	0.0050	0.530	mg/L	0.0050	0.95%
QC value greater than the upper limit for Tl 190.800 Recovery = 105.94%								
V 292.402	321063.7	1.02	mg/L	0.006	1.02	mg/L	0.006	0.56%
QC value within limits for V 292.402 Recovery = 102.31%								
Zn 206.200	193764.6	1.02	mg/L	0.005	1.02	mg/L	0.005	0.51%
QC value within limits for Zn 206.200 Recovery = 102.49%								
K 766.490	1086127.0	51.3	mg/L	0.80	51.3	mg/L	0.80	1.56%
QC value within limits for K 766.490 Recovery = 102.56%								
Na 589.592	1940553.6	48.7	mg/L	0.32	48.7	mg/L	0.32	0.66%
QC value within limits for Na 589.592 Recovery = 97.48%								
Sr 407.771	1695313.1	0.983	mg/L	0.0055	0.983	mg/L	0.0055	0.56%
QC value within limits for Sr 407.771 Recovery = 98.27%								
Sr 421.552	837408.6	0.983	mg/L	0.0059	0.983	mg/L	0.0059	0.60%
QC value within limits for Sr 421.552 Recovery = 98.26%								
Sr 460.733	24248.8	1.03	mg/L	0.012	1.03	mg/L	0.012	1.13%
QC value within limits for Sr 460.733 Recovery = 102.88%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICB
Analyst:
Sample Wt:

Autosampler Location: 1
Date Collected: 5/29/2001 10:14:17 AM
Sample Prep Volume:

Dilution: Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3119251.8						7377.38	0.24%
Ag 328.068	-42.6	-0.00006	mg/L	0.000044	-0.00006	mg/L	0.000044	77.70%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	26.4	0.00147	mg/L	0.000003	0.00147	mg/L	0.000003	0.19%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-0.8	-0.00008	mg/L	0.000657	-0.00008	mg/L	0.000657	848.80%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	47.2	0.00012	mg/L	0.000022	0.00012	mg/L	0.000022	17.63%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-1.5	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	483.07%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	10.8	0.00824	mg/L	0.004422	0.00824	mg/L	0.004422	53.69%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-3.3	-0.00001	mg/L	0.000011	-0.00001	mg/L	0.000011	155.88%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	5.4	0.00003	mg/L	0.000023	0.00003	mg/L	0.000023	82.06%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-8.6	-0.00002	mg/L	0.000003	-0.00002	mg/L	0.000003	12.93%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-2.1	0.00000	mg/L	0.000072	0.00000	mg/L	0.000072	>999.9%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	43.5	0.00161	mg/L	0.000242	0.00161	mg/L	0.000242	15.08%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	92.6	0.00135	mg/L	0.000427	0.00135	mg/L	0.000427	31.62%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	8.7	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	14.19%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	91.8	0.00151	mg/L	0.000136	0.00151	mg/L	0.000136	9.02%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	12.4	0.00006	mg/L	0.000017	0.00006	mg/L	0.000017	29.58%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	0.1	0.00001	mg/L	0.000029	0.00001	mg/L	0.000029	512.02%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	2.0	0.00012	mg/L	0.000376	0.00012	mg/L	0.000376	325.03%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	2.2	0.00026	mg/L	0.000224	0.00026	mg/L	0.000224	86.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	74.3	0.00064	mg/L	0.000166	0.00064	mg/L	0.000166	25.83%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	56.2	0.00354	mg/L	0.000265	0.00354	mg/L	0.000265	7.47%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	187.2	0.00011	mg/L	0.000047	0.00011	mg/L	0.000047	40.94%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	3.6	0.00028	mg/L	0.000113	0.00028	mg/L	0.000113	41.06%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	59.5	0.00019	mg/L	0.000108	0.00019	mg/L	0.000108	56.85%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-16.4	-0.00009	mg/L	0.000073	-0.00009	mg/L	0.000073	84.30%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	126.8	0.00599	mg/L	0.007235	0.00599	mg/L	0.007235	120.84%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	404.4	0.0102	mg/L	0.00126	0.0102	mg/L	0.00126	12.42%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	103.1	0.00677	mg/L	0.000010	0.00677	mg/L	0.000010	0.15%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	-48.6	0.0130	mg/L	0.00004	0.0130	mg/L	0.00004	0.35%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								
Sr 460.733	24.0	0.00151	mg/L	0.001299	0.00151	mg/L	0.001299	86.31%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 7 Autosampler Location: 6
Sample ID: ICSA Date Collected: 5/29/2001 10:18:27 AM

Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3360096.6						16126.13	0.48%
Ag 328.068	671.7	0.00089	mg/L	0.000033	0.00089	mg/L	0.000033	3.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	4334837.9	240	mg/L	1.3	240	mg/L	1.3	0.52%
QC value within limits for Al 237.312 Recovery = 95.83%								
As 188.979	-14.3	-0.00038	mg/L	0.004947	-0.00038	mg/L	0.004947	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	-2883.7	-0.00481	mg/L	0.000005	-0.00481	mg/L	0.000005	0.11%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	13382.6	0.00062	mg/L	0.000033	0.00062	mg/L	0.000033	5.27%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	320315.8	243	mg/L	1.2	243	mg/L	1.2	0.48%
QC value within limits for Ca 227.549 Recovery = 97.22%								
Cd 228.802	-10.3	-0.00054	mg/L	0.000033	-0.00054	mg/L	0.000033	6.16%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	700.0	0.00570	mg/L	0.000062	0.00570	mg/L	0.000062	1.09%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	224.3	0.00280	mg/L	0.000168	0.00280	mg/L	0.000168	6.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-1115.5	-0.00248	mg/L	0.000076	-0.00248	mg/L	0.000076	3.05%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	2311406.6	85.2	mg/L	0.56	85.2	mg/L	0.56	0.65%
QC value within limits for Fe 261.387 Recovery = 85.24%								
Mg 279.079	16156424.8	236	mg/L	0.9	236	mg/L	0.9	0.37%
QC value within limits for Mg 279.079 Recovery = 94.46%								
Mn 257.610	6389.4	-0.00406	mg/L	0.000016	-0.00406	mg/L	0.000016	0.39%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	-92.3	-0.00214	mg/L	0.000320	-0.00214	mg/L	0.000320	14.96%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	-97.7	0.00066	mg/L	0.000563	0.00066	mg/L	0.000563	85.68%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-327.0	-0.00287	mg/L	0.000627	-0.00287	mg/L	0.000627	21.87%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	504.3	-0.0120	mg/L	0.01240	-0.0120	mg/L	0.01240	103.37%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	199.3	-0.0200	mg/L	0.00093	-0.0200	mg/L	0.00093	4.63%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	30643.9	0.469	mg/L	0.0040	0.469	mg/L	0.0040	0.85%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	181.5	-0.0473	mg/L	0.00022	-0.0473	mg/L	0.00022	0.46%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	9009.3	0.0222	mg/L	0.00026	0.0222	mg/L	0.00026	1.19%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	244.2	0.00588	mg/L	0.005789	0.00588	mg/L	0.005789	98.46%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	-1962.5	-0.00422	mg/L	0.000092	-0.00422	mg/L	0.000092	2.19%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	2231.8	-0.00608	mg/L	0.000479	-0.00608	mg/L	0.000479	7.88%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	4116.0	-0.514	mg/L	0.0055	-0.514	mg/L	0.0055	1.06%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	3792.9	0.0953	mg/L	0.00355	0.0953	mg/L	0.00355	3.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	12651.7	0.0140	mg/L	0.00000	0.0140	mg/L	0.00000	0.02%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	6167.6	0.0202	mg/L	0.00005	0.0202	mg/L	0.00005	0.27%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								
Sr 460.733	16.2	0.00117	mg/L	0.004936	0.00117	mg/L	0.004936	422.81%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 8 **Autosampler Location: 7**
Sample ID: ICSAB **Date Collected: 5/29/2001 10:22:07 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3390857.4						5232.21	0.15%
Ag 328.068	368857.0	0.490	mg/L	0.0003	0.490	mg/L	0.0003	0.06%
QC value within limits for Ag 328.068 Recovery = 98.08%								
Al 237.312	4326742.3	239	mg/L	0.4	239	mg/L	0.4	0.17%
QC value within limits for Al 237.312 Recovery = 95.65%								
As 188.979	2586.3	0.245	mg/L	0.0079	0.245	mg/L	0.0079	3.23%
QC value within limits for As 188.979 Recovery = 98.20%								
Ba 230.424	82671.3	0.221	mg/L	0.0013	0.221	mg/L	0.0013	0.59%
QC value within limits for Ba 230.424 Recovery = 88.33%								
Be 234.861	470374.8	0.252	mg/L	0.0002	0.252	mg/L	0.0002	0.09%
QC value within limits for Be 234.861 Recovery = 100.74%								
Ca 227.549	316936.3	240	mg/L	0.2	240	mg/L	0.2	0.07%
QC value within limits for Ca 227.549 Recovery = 96.18%								
Cd 228.802	213637.7	0.458	mg/L	0.0011	0.458	mg/L	0.0011	0.24%
QC value within limits for Cd 228.802 Recovery = 91.66%								
Co 228.616	44883.5	0.214	mg/L	0.0020	0.214	mg/L	0.0020	0.94%
QC value within limits for Co 228.616 Recovery = 85.40%								
Cr 267.716	83626.7	0.225	mg/L	0.0013	0.225	mg/L	0.0013	0.58%
QC value within limits for Cr 267.716 Recovery = 90.14%								
Cu 327.396	107526.8	0.239	mg/L	0.0005	0.239	mg/L	0.0005	0.22%
QC value within limits for Cu 327.396 Recovery = 95.62%								
Fe 261.387	2305413.0	85.0	mg/L	0.32	85.0	mg/L	0.32	0.37%
QC value within limits for Fe 261.387 Recovery = 85.05%								
Mg 279.079	16153570.4	236	mg/L	0.1	236	mg/L	0.1	0.02%
QC value within limits for Mg 279.079 Recovery = 94.45%								
Mn 257.610	539230.5	0.221	mg/L	0.0008	0.221	mg/L	0.0008	0.34%
QC value within limits for Mn 257.610 Recovery = 88.58%								
Mo 202.030	-110.4	-0.00244	mg/L	0.000343	-0.00244	mg/L	0.000343	14.09%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	91242.3	0.423	mg/L	0.0033	0.423	mg/L	0.0033	0.78%
QC value within limits for Ni 231.604 Recovery = 84.62%								
Pb 220.353	11386.2	0.434	mg/L	0.0007	0.434	mg/L	0.0007	0.16%
QC value within limits for Pb 220.353 Recovery = 86.74%								
Sb 206.833	8893.0	0.467	mg/L	0.0029	0.467	mg/L	0.0029	0.63%
QC value within limits for Sb 206.833 Recovery = 93.40%								
Se 196.026	2446.1	0.239	mg/L	0.0180	0.239	mg/L	0.0180	7.52%
QC value within limits for Se 196.026 Recovery = 95.77%								
Si 288.158	1555.5	0.218	mg/L	0.0005	0.218	mg/L	0.0005	0.25%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	14.6	-0.0575	mg/L	0.00224	-0.0575	mg/L	0.00224	3.89%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	8716.8	0.0246	mg/L	0.00003	0.0246	mg/L	0.00003	0.13%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	4040.7	0.301	mg/L	0.0038	0.301	mg/L	0.0038	1.25%
QC value less than the lower limit for Tl 190.800 Recovery = 60.11%								
V 292.402	69119.4	0.222	mg/L	0.0005	0.222	mg/L	0.0005	0.24%
QC value within limits for V 292.402 Recovery = 88.94%								
Zn 206.200	85159.5	0.433	mg/L	0.0047	0.433	mg/L	0.0047	1.09%
QC value within limits for Zn 206.200 Recovery = 86.59%								
K 766.490	122487.1	5.08	mg/L	0.045	5.08	mg/L	0.045	0.89%
QC value within limits for K 766.490 Recovery = 101.56%								
Na 589.592	206065.2	5.18	mg/L	0.047	5.18	mg/L	0.047	0.91%
QC value within limits for Na 589.592 Recovery = 103.51%								
Sr 407.771	12585.5	0.0140	mg/L	0.00002	0.0140	mg/L	0.00002	0.17%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	6164.4	0.0202	mg/L	0.00018	0.0202	mg/L	0.00018	0.91%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								
Sr 460.733	137.3	0.00640	mg/L	0.000357	0.00640	mg/L	0.000357	5.58%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 9 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 5/29/2001 10:25:50 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	3856758.5						7744.29	0.20%
Ag 328.068	290112.7	0.386	mg/L	0.0008	0.386	mg/L	0.0008	0.21%
QC value within limits for Ag 328.068 Recovery = 96.43%								
Al 237.312	180788.0	9.99	mg/L	0.000	9.99	mg/L	0.000	0.00%
QC value within limits for Al 237.312 Recovery = 99.92%								
As 188.979	4059.5	0.385	mg/L	0.0019	0.385	mg/L	0.0019	0.50%
QC value within limits for As 188.979 Recovery = 96.35%								
Ba 230.424	390985.0	1.03	mg/L	0.000	1.03	mg/L	0.000	0.01%
QC value within limits for Ba 230.424 Recovery = 103.24%								
Be 234.861	93623.5	0.0513	mg/L	0.00008	0.0513	mg/L	0.00008	0.16%
QC value within limits for Be 234.861 Recovery = 102.54%								
Ca 227.549	13466.2	10.2	mg/L	0.00	10.2	mg/L	0.00	0.03%
QC value within limits for Ca 227.549 Recovery = 101.61%								
Cd 228.802	23229.1	0.0493	mg/L	0.00002	0.0493	mg/L	0.00002	0.04%
QC value within limits for Cd 228.802 Recovery = 98.51%								
Co 228.616	44464.7	0.209	mg/L	0.0003	0.209	mg/L	0.0003	0.15%
QC value within limits for Co 228.616 Recovery = 104.62%								
Cr 267.716	192150.7	0.516	mg/L	0.0005	0.516	mg/L	0.0005	0.09%
QC value within limits for Cr 267.716 Recovery = 103.22%								
Cu 327.396	230048.0	0.511	mg/L	0.0012	0.511	mg/L	0.0012	0.24%
QC value within limits for Cu 327.396 Recovery = 102.23%								
Fe 261.387	112518.1	4.19	mg/L	0.007	4.19	mg/L	0.007	0.16%
QC value within limits for Fe 261.387 Recovery = 104.73%								
Mg 279.079	676595.5	9.88	mg/L	0.013	9.88	mg/L	0.013	0.13%
QC value within limits for Mg 279.079 Recovery = 98.80%								
Mn 257.610	1202734.0	0.509	mg/L	0.0001	0.509	mg/L	0.0001	0.02%
QC value within limits for Mn 257.610 Recovery = 101.71%								
Mo 202.030	61951.8	1.02	mg/L	0.007	1.02	mg/L	0.007	0.65%
QC value within limits for Mo 202.030 Recovery = 102.41%								
Ni 231.604	111941.8	0.518	mg/L	0.0006	0.518	mg/L	0.0006	0.12%
QC value within limits for Ni 231.604 Recovery = 103.60%								
Pb 220.353	13368.8	0.502	mg/L	0.0000	0.502	mg/L	0.0000	0.01%
QC value within limits for Pb 220.353 Recovery = 100.40%								
Sb 206.833	20489.4	1.17	mg/L	0.000	1.17	mg/L	0.000	0.01%
QC value within limits for Sb 206.833 Recovery = 97.10%								
Se 196.026	3530.3	0.405	mg/L	0.0018	0.405	mg/L	0.0018	0.44%
QC value within limits for Se 196.026 Recovery = 101.32%								
Si 288.158	3289.2	0.0368	mg/L	0.00015	0.0368	mg/L	0.00015	0.41%
QC value less than the lower limit for Si 288.158 Recovery = 0.74%								
Sn 189.933	14471.5	0.909	mg/L	0.0166	0.909	mg/L	0.0166	1.82%
QC value within limits for Sn 189.933 Recovery = 91.08%								
Ti 337.280	1732997.9	0.998	mg/L	0.0013	0.998	mg/L	0.0013	0.13%
QC value within limits for Ti 337.280 Recovery = 99.84%								
Tl 190.800	6759.9	0.532	mg/L	0.0053	0.532	mg/L	0.0053	1.00%
QC value within limits for Tl 190.800 Recovery = 106.32%								
V 292.402	320630.9	1.02	mg/L	0.000	1.02	mg/L	0.000	0.02%
QC value within limits for V 292.402 Recovery = 102.17%								
Zn 206.200	190792.3	1.01	mg/L	0.003	1.01	mg/L	0.003	0.30%
QC value within limits for Zn 206.200 Recovery = 100.92%								
K 766.490	1082134.5	51.1	mg/L	0.58	51.1	mg/L	0.58	1.14%
QC value within limits for K 766.490 Recovery = 102.19%								
Na 589.592	1967783.3	49.4	mg/L	0.45	49.4	mg/L	0.45	0.91%
QC value within limits for Na 589.592 Recovery = 98.85%								
Sr 407.771	1694586.5	0.982	mg/L	0.0095	0.982	mg/L	0.0095	0.97%
QC value within limits for Sr 407.771 Recovery = 98.23%								
Sr 421.552	837583.8	0.983	mg/L	0.0091	0.983	mg/L	0.0091	0.93%
QC value within limits for Sr 421.552 Recovery = 98.28%								
Sr 460.733	23731.1	1.01	mg/L	0.010	1.01	mg/L	0.010	1.04%
QC value within limits for Sr 460.733 Recovery = 100.72%								

QC Failed. Continue with analysis.

Sequence No.: 10 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 5/29/2001 10:30:07 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3078972.8						12583.17	0.41%
Ag 328.068	-64.5	-0.00009	mg/L	0.000007	-0.00009	mg/L	0.000007	8.34%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	52.9	0.00296	mg/L	0.000548	0.00296	mg/L	0.000548	18.52%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.0	0.00009	mg/L	0.000195	0.00009	mg/L	0.000195	216.57%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	47.7	0.00013	mg/L	0.000002	0.00013	mg/L	0.000002	1.95%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-7.9	0.00000	mg/L	0.000003	0.00000	mg/L	0.000003	67.91%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	10.6	0.00801	mg/L	0.001931	0.00801	mg/L	0.001931	24.12%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	0.0	0.00000	mg/L	0.000006	0.00000	mg/L	0.000006	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	6.7	0.00003	mg/L	0.000003	0.00003	mg/L	0.000003	8.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-26.5	-0.00007	mg/L	0.000017	-0.00007	mg/L	0.000017	24.58%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-22.8	-0.00005	mg/L	0.000085	-0.00005	mg/L	0.000085	167.75%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	156.2	0.00577	mg/L	0.000204	0.00577	mg/L	0.000204	3.54%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	86.6	0.00126	mg/L	0.000028	0.00126	mg/L	0.000028	2.22%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	19.6	0.00001	mg/L	0.000002	0.00001	mg/L	0.000002	28.79%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	68.6	0.00113	mg/L	0.000112	0.00113	mg/L	0.000112	9.96%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	3.7	0.00002	mg/L	0.000009	0.00002	mg/L	0.000009	52.03%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-2.1	-0.00007	mg/L	0.000053	-0.00007	mg/L	0.000053	71.63%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-1.9	-0.00011	mg/L	0.000187	-0.00011	mg/L	0.000187	172.15%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	3.7	0.00042	mg/L	0.000872	0.00042	mg/L	0.000872	206.94%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	-37.1	-0.00031	mg/L	0.000233	-0.00031	mg/L	0.000233	74.57%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	48.4	0.00305	mg/L	0.000157	0.00305	mg/L	0.000157	5.15%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	189.8	0.00011	mg/L	0.000032	0.00011	mg/L	0.000032	28.56%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	13.6	0.00105	mg/L	0.000488	0.00105	mg/L	0.000488	46.43%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	45.6	0.00015	mg/L	0.000053	0.00015	mg/L	0.000053	36.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	5.1	0.00003	mg/L	0.000081	0.00003	mg/L	0.000081	305.26%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	501.3	0.0237	mg/L	0.00535	0.0237	mg/L	0.00535	22.61%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	899.4	0.0226	mg/L	0.00277	0.0226	mg/L	0.00277	12.25%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	92.5	0.00676	mg/L	0.000024	0.00676	mg/L	0.000024	0.35%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	-61.0	0.0130	mg/L	0.00006	0.0130	mg/L	0.00006	0.49%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								

Sr 460.733	76.4	0.00377 mg/L	0.000914	0.00377 mg/L	0.000914	24.24%

QC value within limits for Sr 460.733 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: PBW Y WG98149-03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/29/2001 10:34:17 AM

Sample Prep Volume:
Data Type: Original

Mean Data: PBW Y WG98149-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3130439.7						27166.90	0.87%
Ag 328.068	-86.4	-0.00011	mg/L	0.000030	-0.00011	mg/L	0.000030	26.00%
Al 237.312	400.0	0.0221	mg/L	0.00077	0.0221	mg/L	0.00077	3.49%
As 188.979	1.2	0.00011	mg/L	0.000152	0.00011	mg/L	0.000152	133.38%
Ba 230.424	84.6	0.00022	mg/L	0.000010	0.00022	mg/L	0.000010	4.27%
Be 234.861	1.8	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	438.91%
Ca 227.549	65.0	0.0494	mg/L	0.00205	0.0494	mg/L	0.00205	4.14%
Cd 228.802	0.8	0.00000	mg/L	0.000009	0.00000	mg/L	0.000009	595.68%
Co 228.616	5.8	0.00003	mg/L	0.000024	0.00003	mg/L	0.000024	89.08%
Cr 267.716	25.1	0.00007	mg/L	0.000004	0.00007	mg/L	0.000004	5.90%
Cu 327.396	-2.6	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	332.34%
Fe 261.387	222.5	0.00823	mg/L	0.000016	0.00823	mg/L	0.000016	0.19%
Mg 279.079	253.1	0.00369	mg/L	0.000033	0.00369	mg/L	0.000033	0.90%
Mn 257.610	1859.5	0.00079	mg/L	0.000000	0.00079	mg/L	0.000000	0.03%
Mo 202.030	15.5	0.00026	mg/L	0.000006	0.00026	mg/L	0.000006	2.54%
Ni 231.604	25.8	0.00012	mg/L	0.000051	0.00012	mg/L	0.000051	42.43%
Pb 220.353	8.5	0.00032	mg/L	0.000314	0.00032	mg/L	0.000314	99.10%
Sb 206.833	4.0	0.00022	mg/L	0.000314	0.00022	mg/L	0.000314	140.93%
Se 196.026	4.0	0.00046	mg/L	0.000769	0.00046	mg/L	0.000769	167.76%
Si 288.158	8807.2	0.0756	mg/L	0.00019	0.0756	mg/L	0.00019	0.26%
Sn 189.933	14.1	0.00088	mg/L	0.000210	0.00088	mg/L	0.000210	23.79%
Ti 337.280	511.8	0.00030	mg/L	0.000024	0.00030	mg/L	0.000024	7.99%
Tl 190.800	17.6	0.00136	mg/L	0.000038	0.00136	mg/L	0.000038	2.78%
V 292.402	73.5	0.00023	mg/L	0.000041	0.00023	mg/L	0.000041	17.64%
Zn 206.200	163.4	0.00086	mg/L	0.000040	0.00086	mg/L	0.000040	4.65%
K 766.490	505.1	0.0239	mg/L	0.00349	0.0239	mg/L	0.00349	14.63%
Na 589.592	3000.0	0.0753	mg/L	0.00010	0.0753	mg/L	0.00010	0.13%
Sr 407.771	518.2	0.00701	mg/L	0.000001	0.00701	mg/L	0.000001	0.02%
Sr 421.552	212.8	0.0133	mg/L	0.00004	0.0133	mg/L	0.00004	0.31%
Sample signal is less than that of the lowest standard.								
Sr 460.733	-8.9	0.00008	mg/L	0.000342	0.00008	mg/L	0.000342	403.67%

Sequence No.: 12
Sample ID: LCSW Y WG98149-04
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/29/2001 10:38:28 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LCSW Y WG98149-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3783240.7						45596.82	1.21%
Ag 328.068	148975.8	0.198	mg/L	0.0029	0.198	mg/L	0.0029	1.45%
Al 237.312	182115.5	10.0	mg/L	0.15	10.0	mg/L	0.15	1.49%
As 188.979	10148.4	0.961	mg/L	0.0131	0.961	mg/L	0.0131	1.36%
Ba 230.424	3514540.9	9.27	mg/L	0.100	9.27	mg/L	0.100	1.08%
Be 234.861	1791814.4	0.985	mg/L	0.0099	0.985	mg/L	0.0099	1.00%
Ca 227.549	13132.7	9.97	mg/L	0.103	9.97	mg/L	0.103	1.03%
Cd 228.802	442177.3	0.949	mg/L	0.0132	0.949	mg/L	0.0132	1.39%
Co 228.616	206720.8	0.972	mg/L	0.0166	0.972	mg/L	0.0166	1.71%
Cr 267.716	370512.3	0.988	mg/L	0.0167	0.988	mg/L	0.0167	1.69%
Cu 327.396	435977.6	0.969	mg/L	0.0134	0.969	mg/L	0.0134	1.38%
Fe 261.387	22813.8	0.972	mg/L	0.0106	0.972	mg/L	0.0106	1.09%
Mg 279.079	663943.0	9.70	mg/L	0.184	9.70	mg/L	0.184	1.90%

Mn 257.610	2355637.2	0.997 mg/L	0.0099	0.997 mg/L	0.0099	0.99%
Mo 202.030	56560.1	0.930 mg/L	0.0190	0.930 mg/L	0.0190	2.04%
Ni 231.604	211704.6	0.979 mg/L	0.0165	0.979 mg/L	0.0165	1.68%
Pb 220.353	26252.0	0.982 mg/L	0.0145	0.982 mg/L	0.0145	1.48%
Sb 206.833	16837.0	0.948 mg/L	0.0110	0.948 mg/L	0.0110	1.16%
Se 196.026	8171.4	0.941 mg/L	0.0135	0.941 mg/L	0.0135	1.43%
Si 288.158	1189574.6	10.2 mg/L	0.09	10.2 mg/L	0.09	0.86%
Sn 189.933	15551.4	0.978 mg/L	0.0221	0.978 mg/L	0.0221	2.26%
Ti 337.280	1740698.7	1.01 mg/L	0.010	1.01 mg/L	0.010	1.02%
Tl 190.800	10783.4	0.852 mg/L	0.0306	0.852 mg/L	0.0306	3.58%
V 292.402	304915.1	0.971 mg/L	0.0165	0.971 mg/L	0.0165	1.70%
Zn 206.200	186573.5	0.988 mg/L	0.0203	0.988 mg/L	0.0203	2.05%
K 766.490	1063832.7	50.2 mg/L	0.25	50.2 mg/L	0.25	0.50%
Na 589.592	1976894.7	49.7 mg/L	0.57	49.7 mg/L	0.57	1.15%
Sr 407.771	1689002.8	0.979 mg/L	0.0099	0.979 mg/L	0.0099	1.01%
Sr 421.552	835627.5	0.981 mg/L	0.0093	0.981 mg/L	0.0093	0.95%
Sr 460.733	23343.8	0.991 mg/L	0.0000	0.991 mg/L	0.0000	0.00%

Recovery Check: LCSW Y WG98149-04

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.0	50.2	0.249	mg/L	100.4
Na 589.592	50.1	49.7	0.572	mg/L	99.2
Sr 407.771	1.01	0.979	0.010	mg/L	97.2
Sr 421.552	1.01	0.981	0.009	mg/L	96.7
Sr 460.733	1.00	0.991	0.000	mg/L	99.1
Ag 328.068	0.200	0.198	0.003	mg/L	99.1
Al 237.312	10.0	10.0	0.150	mg/L	100.2
As 188.979	1.00	0.961	0.013	mg/L	96.1
Ba 230.424	10.0	9.27	0.100	mg/L	92.7
Be 234.861	1.00	0.985	0.010	mg/L	98.5
Ca 227.549	10.0	9.97	0.103	mg/L	99.2
Cd 228.802	1.00	0.949	0.013	mg/L	94.9
Co 228.616	1.00	0.972	0.017	mg/L	97.2
Cr 267.716	1.00	0.988	0.017	mg/L	98.8
Cu 327.396	1.000	0.969	0.013	mg/L	96.9
Fe 261.387	1.01	0.972	0.011	mg/L	96.3
Mg 279.079	10.0	9.70	0.184	mg/L	96.9
Mn 257.610	1.00	0.997	0.010	mg/L	99.6
Mo 202.030	0.995	0.930	0.019	mg/L	93.5
Ni 231.604	1.00	0.979	0.017	mg/L	97.9
Pb 220.353	1.00	0.982	0.015	mg/L	98.2
Sb 206.833	1.20	0.948	0.011	mg/L	78.8
Se 196.026	1.00	0.941	0.013	mg/L	94.1
Si 288.158	10.1	10.2	0.087	mg/L	101.4
Sn 189.933	0.999	0.978	0.022	mg/L	97.8
Ti 337.280	1.000	1.01	0.010	mg/L	100.8
Tl 190.800	1.00	0.852	0.031	mg/L	85.1
V 292.402	1.00	0.971	0.016	mg/L	97.1
Zn 206.200	1.00	0.988	0.020	mg/L	98.7

Sequence No.: 13
Sample ID: 0548602
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 5/29/2001 10:42:45 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0548602

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3127500.1						13911.50	0.44%
Ag 328.068	32.2	0.00004	mg/L	0.000090	0.00004	mg/L	0.000090	209.95%
Al 237.312	167.1	0.00936	mg/L	0.000631	0.00936	mg/L	0.000631	6.75%
As 188.979	2.9	0.00027	mg/L	0.000428	0.00027	mg/L	0.000428	155.79%
Ba 230.424	75.6	0.00020	mg/L	0.000037	0.00020	mg/L	0.000037	18.35%
Be 234.861	-5.6	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	51.46%
Ca 227.549	33.4	0.0251	mg/L	0.00756	0.0251	mg/L	0.00756	30.13%
Cd 228.802	49.0	0.00011	mg/L	0.000005	0.00011	mg/L	0.000005	4.57%

Co 228.616	6.6	0.00003 mg/L	0.000037	0.00003 mg/L	0.000037	106.83%
Cr 267.716	78.4	0.00021 mg/L	0.000023	0.00021 mg/L	0.000023	10.84%
Cu 327.396	380.7	0.00085 mg/L	0.000156	0.00085 mg/L	0.000156	18.42%
Fe 261.387	553.8	0.0205 mg/L	0.00071	0.0205 mg/L	0.00071	3.49%
Mg 279.079	422.9	0.00618 mg/L	0.000365	0.00618 mg/L	0.000365	5.90%
Mn 257.610	3482.1	0.00147 mg/L	0.000015	0.00147 mg/L	0.000015	1.00%
Mo 202.030	89.7	0.00148 mg/L	0.000124	0.00148 mg/L	0.000124	8.44%
Ni 231.604	74.3	0.00034 mg/L	0.000025	0.00034 mg/L	0.000025	7.25%
Pb 220.353	1.1	0.00005 mg/L	0.000054	0.00005 mg/L	0.000054	117.15%
Sb 206.833	1.4	0.00008 mg/L	0.000003	0.00008 mg/L	0.000003	4.25%
Se 196.026	9.7	0.00112 mg/L	0.000364	0.00112 mg/L	0.000364	32.40%
Si 288.158	8560.5	0.0734 mg/L	0.00129	0.0734 mg/L	0.00129	1.76%
Sn 189.933	58.0	0.00365 mg/L	0.000033	0.00365 mg/L	0.000033	0.91%
Ti 337.280	291.6	0.00018 mg/L	0.000001	0.00018 mg/L	0.000001	0.70%
Tl 190.800	143.2	0.0110 mg/L	0.00165	0.0110 mg/L	0.00165	14.92%
V 292.402	111.0	0.00036 mg/L	0.000157	0.00036 mg/L	0.000157	44.10%
Zn 206.200	1848.6	0.00978 mg/L	0.000022	0.00978 mg/L	0.000022	0.23%
K 766.490	820.7	0.0388 mg/L	0.00219	0.0388 mg/L	0.00219	5.66%
Na 589.592	2516.2	0.0632 mg/L	0.00396	0.0632 mg/L	0.00396	6.26%
Sr 407.771	172.1	0.00681 mg/L	0.000054	0.00681 mg/L	0.000054	0.80%
Sr 421.552	18.4	0.0131 mg/L	0.00004	0.0131 mg/L	0.00004	0.29%
Sample signal is less than that of the lowest standard.						
Sr 460.733	91.2	0.00441 mg/L	0.000986	0.00441 mg/L	0.000986	22.37%

Sequence No.: 14
Sample ID: 0548602PS 0.9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 5/29/2001 10:46:56 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0548602PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3685743.0						107422.08	2.91%
Ag 328.068	143857.4	0.191	mg/L	0.0037	0.191	mg/L	0.0037	1.94%
Al 237.312	175243.9	9.66	mg/L	0.212	9.66	mg/L	0.212	2.20%
As 188.979	9927.3	0.940	mg/L	0.0082	0.940	mg/L	0.0082	0.87%
Ba 230.424	3401819.9	8.97	mg/L	0.230	8.97	mg/L	0.230	2.57%
Be 234.861	1717267.8	0.944	mg/L	0.0258	0.944	mg/L	0.0258	2.74%
Ca 227.549	12838.5	9.75	mg/L	0.059	9.75	mg/L	0.059	0.60%
Cd 228.802	427824.5	0.918	mg/L	0.0175	0.918	mg/L	0.0175	1.90%
Co 228.616	200329.8	0.942	mg/L	0.0195	0.942	mg/L	0.0195	2.07%
Cr 267.716	354334.6	0.945	mg/L	0.0176	0.945	mg/L	0.0176	1.86%
Cu 327.396	420979.4	0.936	mg/L	0.0202	0.936	mg/L	0.0202	2.16%
Fe 261.387	22164.0	0.944	mg/L	0.0075	0.944	mg/L	0.0075	0.79%
Mg 279.079	642861.5	9.39	mg/L	0.201	9.39	mg/L	0.201	2.14%
Mn 257.610	2271255.8	0.961	mg/L	0.0262	0.961	mg/L	0.0262	2.72%
Mo 202.030	54292.4	0.893	mg/L	0.0206	0.893	mg/L	0.0206	2.30%
Ni 231.604	204602.7	0.947	mg/L	0.0178	0.947	mg/L	0.0178	1.88%
Pb 220.353	25614.3	0.958	mg/L	0.0081	0.958	mg/L	0.0081	0.84%
Sb 206.833	16697.6	0.941	mg/L	0.0059	0.941	mg/L	0.0059	0.63%
Se 196.026	7714.0	0.889	mg/L	0.0073	0.889	mg/L	0.0073	0.83%
Si 288.158	1067818.7	9.17	mg/L	0.212	9.17	mg/L	0.212	2.32%
Sn 189.933	-83.8	-0.00765	mg/L	0.000444	-0.00765	mg/L	0.000444	5.81%
Ti 337.280	1671136.8	0.967	mg/L	0.0257	0.967	mg/L	0.0257	2.66%
Tl 190.800	12338.3	0.971	mg/L	0.0210	0.971	mg/L	0.0210	2.16%
V 292.402	292935.7	0.933	mg/L	0.0178	0.933	mg/L	0.0178	1.90%
Zn 206.200	183197.3	0.970	mg/L	0.0179	0.970	mg/L	0.0179	1.85%
K 766.490	1018979.8	48.1	mg/L	0.59	48.1	mg/L	0.59	1.22%
Na 589.592	1892177.2	47.5	mg/L	1.06	47.5	mg/L	1.06	2.23%
Sr 407.771	1634289.7	0.948	mg/L	0.0186	0.948	mg/L	0.0186	1.96%
Sr 421.552	807894.3	0.948	mg/L	0.0195	0.948	mg/L	0.0195	2.05%
Sr 460.733	22685.0	0.964	mg/L	0.0048	0.964	mg/L	0.0048	0.50%

Recovery Check: 0548602PS 0.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.0	48.1	0.587	mg/L	96.1

Na 589.592	50.1	47.5	1.061	mg/L	94.9
Sr 407.771	1.01	0.948	0.019	mg/L	94.1
Sr 421.552	1.01	0.948	0.019	mg/L	93.5
Sr 460.733	1.00	0.964	0.005	mg/L	95.9
Ag 328.068	0.200	0.191	0.004	mg/L	95.6
Al 237.312	10.0	9.66	0.212	mg/L	96.5
As 188.979	1.00	0.940	0.008	mg/L	93.9
Ba 230.424	10.0	8.97	0.230	mg/L	89.7
Be 234.861	1.000	0.944	0.026	mg/L	94.4
Ca 227.549	10.0	9.75	0.059	mg/L	97.2
Cd 228.802	1.00	0.918	0.017	mg/L	91.8
Co 228.616	1.00	0.942	0.019	mg/L	94.2
Cr 267.716	1.00	0.945	0.018	mg/L	94.5
Cu 327.396	1.00	0.936	0.020	mg/L	93.5
Fe 261.387	1.02	0.944	0.007	mg/L	92.3
Mg 279.079	10.0	9.39	0.201	mg/L	93.8
Mn 257.610	1.00	0.961	0.026	mg/L	95.9
Mo 202.030	0.996	0.893	0.021	mg/L	89.6
Ni 231.604	1.00	0.947	0.018	mg/L	94.6
Pb 220.353	1.00	0.958	0.008	mg/L	95.8
Sb 206.833	1.20	0.941	0.006	mg/L	78.2
Se 196.026	1.00	0.889	0.007	mg/L	88.8
Si 288.158	10.1	9.17	0.212	mg/L	90.9
Sn 189.933	1.00	-0.00765	0.000	mg/L	-1.1
Ti 337.280	1.000	0.967	0.026	mg/L	96.7
Tl 190.800	1.01	0.971	0.021	mg/L	96.0
V 292.402	1.00	0.933	0.018	mg/L	93.3
Zn 206.200	1.01	0.970	0.018	mg/L	96.0

Sequence No.: 15
Sample ID: 0548603
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 5/29/2001 10:51:14 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0548603

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3143824.2						110222.40	3.51%
Ag 328.068	-69.0	-0.00009	mg/L	0.000138	-0.00009	mg/L	0.000138	150.65%
Al 237.312	110.4	0.00619	mg/L	0.000166	0.00619	mg/L	0.000166	2.68%
As 188.979	-2.8	-0.00026	mg/L	0.000239	-0.00026	mg/L	0.000239	92.20%
Ba 230.424	124.0	0.00033	mg/L	0.000025	0.00033	mg/L	0.000025	7.57%
Be 234.861	2.3	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	261.65%
Ca 227.549	47.8	0.0362	mg/L	0.00656	0.0362	mg/L	0.00656	18.13%
Cd 228.802	70.0	0.00015	mg/L	0.000012	0.00015	mg/L	0.000012	8.14%
Co 228.616	5.4	0.00003	mg/L	0.000020	0.00003	mg/L	0.000020	69.61%
Cr 267.716	106.0	0.00028	mg/L	0.000013	0.00028	mg/L	0.000013	4.52%
Cu 327.396	185.5	0.00041	mg/L	0.000054	0.00041	mg/L	0.000054	13.17%
Fe 261.387	403.0	0.0149	mg/L	0.00000	0.0149	mg/L	0.00000	0.03%
Mg 279.079	373.2	0.00545	mg/L	0.000111	0.00545	mg/L	0.000111	2.04%
Mn 257.610	2235.3	0.00095	mg/L	0.000008	0.00095	mg/L	0.000008	0.80%
Mo 202.030	96.4	0.00158	mg/L	0.000018	0.00158	mg/L	0.000018	1.15%
Ni 231.604	54.1	0.00025	mg/L	0.000058	0.00025	mg/L	0.000058	23.05%
Pb 220.353	-0.7	-0.00002	mg/L	0.000034	-0.00002	mg/L	0.000034	151.68%
Sb 206.833	5.8	0.00033	mg/L	0.000265	0.00033	mg/L	0.000265	80.43%
Se 196.026	5.3	0.00061	mg/L	0.000402	0.00061	mg/L	0.000402	65.36%
Si 288.158	6430.1	0.0552	mg/L	0.00167	0.0552	mg/L	0.00167	3.02%
Sn 189.933	0.7	0.00004	mg/L	0.000080	0.00004	mg/L	0.000080	189.26%
Ti 337.280	263.6	0.00017	mg/L	0.000014	0.00017	mg/L	0.000014	8.51%
Tl 190.800	80.7	0.00622	mg/L	0.000410	0.00622	mg/L	0.000410	6.60%
V 292.402	133.6	0.00043	mg/L	0.000184	0.00043	mg/L	0.000184	43.14%
Zn 206.200	1395.6	0.00738	mg/L	0.000009	0.00738	mg/L	0.000009	0.13%
K 766.490	914.5	0.0432	mg/L	0.00374	0.0432	mg/L	0.00374	8.66%
Na 589.592	2424.5	0.0609	mg/L	0.00004	0.0609	mg/L	0.00004	0.07%
Sr 407.771	148.5	0.00679	mg/L	0.000041	0.00679	mg/L	0.000041	0.60%
Sr 421.552	10.1	0.0131	mg/L	0.00004	0.0131	mg/L	0.00004	0.28%
Sample signal is less than that of the lowest standard.								
Sr 460.733	20.5	0.00135	mg/L	0.002171	0.00135	mg/L	0.002171	160.25%

Sequence No.: 16
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 10:55:30 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3828331.3						42869.65	1.12%
Ag 328.068	286894.1	0.381	mg/L	0.0038	0.381	mg/L	0.0038	0.98%
QC value within limits for Ag 328.068 Recovery = 95.36%								
Al 237.312	178173.6	9.85	mg/L	0.110	9.85	mg/L	0.110	1.12%
QC value within limits for Al 237.312 Recovery = 98.47%								
As 188.979	4004.9	0.380	mg/L	0.0025	0.380	mg/L	0.0025	0.66%
QC value within limits for As 188.979 Recovery = 95.06%								
Ba 230.424	387246.6	1.02	mg/L	0.014	1.02	mg/L	0.014	1.35%
QC value within limits for Ba 230.424 Recovery = 102.25%								
Be 234.861	92820.1	0.0508	mg/L	0.00058	0.0508	mg/L	0.00058	1.14%
QC value within limits for Be 234.861 Recovery = 101.66%								
Ca 227.549	13361.2	10.1	mg/L	0.08	10.1	mg/L	0.08	0.78%
QC value within limits for Ca 227.549 Recovery = 100.83%								
Cd 228.802	22952.3	0.0487	mg/L	0.00043	0.0487	mg/L	0.00043	0.87%
QC value within limits for Cd 228.802 Recovery = 97.34%								
Co 228.616	44165.7	0.208	mg/L	0.0039	0.208	mg/L	0.0039	1.87%
QC value within limits for Co 228.616 Recovery = 103.91%								
Cr 267.716	190025.7	0.510	mg/L	0.0073	0.510	mg/L	0.0073	1.43%
QC value within limits for Cr 267.716 Recovery = 102.08%								
Cu 327.396	226374.5	0.503	mg/L	0.0046	0.503	mg/L	0.0046	0.91%
QC value within limits for Cu 327.396 Recovery = 100.59%								
Fe 261.387	110632.4	4.12	mg/L	0.053	4.12	mg/L	0.053	1.30%
QC value within limits for Fe 261.387 Recovery = 102.98%								
Mg 279.079	668518.8	9.76	mg/L	0.156	9.76	mg/L	0.156	1.60%
QC value within limits for Mg 279.079 Recovery = 97.62%								
Mn 257.610	1190469.4	0.503	mg/L	0.0061	0.503	mg/L	0.0061	1.22%
QC value within limits for Mn 257.610 Recovery = 100.68%								
Mo 202.030	61014.7	1.00	mg/L	0.022	1.00	mg/L	0.022	2.21%
QC value within limits for Mo 202.030 Recovery = 100.86%								
Ni 231.604	110344.4	0.511	mg/L	0.0074	0.511	mg/L	0.0074	1.46%
QC value within limits for Ni 231.604 Recovery = 102.13%								
Pb 220.353	13223.7	0.497	mg/L	0.0043	0.497	mg/L	0.0043	0.88%
QC value within limits for Pb 220.353 Recovery = 99.31%								
Sb 206.833	20253.9	1.15	mg/L	0.011	1.15	mg/L	0.011	0.99%
QC value within limits for Sb 206.833 Recovery = 95.99%								
Se 196.026	3498.7	0.402	mg/L	0.0051	0.402	mg/L	0.0051	1.28%
QC value within limits for Se 196.026 Recovery = 100.41%								
Si 288.158	3709.7	0.0404	mg/L	0.00018	0.0404	mg/L	0.00018	0.44%
QC value less than the lower limit for Si 288.158 Recovery = 0.81%								
Sn 189.933	14677.4	0.922	mg/L	0.0254	0.922	mg/L	0.0254	2.76%
QC value within limits for Sn 189.933 Recovery = 92.38%								
Ti 337.280	1716052.8	0.988	mg/L	0.0123	0.988	mg/L	0.0123	1.25%
QC value within limits for Ti 337.280 Recovery = 98.86%								
Tl 190.800	6626.1	0.521	mg/L	0.0113	0.521	mg/L	0.0113	2.16%
QC value within limits for Tl 190.800 Recovery = 104.23%								
V 292.402	317504.2	1.01	mg/L	0.013	1.01	mg/L	0.013	1.29%
QC value within limits for V 292.402 Recovery = 101.17%								
Zn 206.200	189475.2	1.00	mg/L	0.019	1.00	mg/L	0.019	1.92%
QC value within limits for Zn 206.200 Recovery = 100.22%								
K 766.490	1045642.1	49.4	mg/L	0.24	49.4	mg/L	0.24	0.49%
QC value within limits for K 766.490 Recovery = 98.74%								
Na 589.592	1942368.2	48.8	mg/L	0.78	48.8	mg/L	0.78	1.61%
QC value within limits for Na 589.592 Recovery = 97.57%								
Sr 407.771	1666860.0	0.966	mg/L	0.0150	0.966	mg/L	0.0150	1.55%
QC value within limits for Sr 407.771 Recovery = 96.63%								
Sr 421.552	825046.1	0.968	mg/L	0.0159	0.968	mg/L	0.0159	1.64%
QC value within limits for Sr 421.552 Recovery = 96.83%								
Sr 460.733	23058.1	0.979	mg/L	0.0116	0.979	mg/L	0.0116	1.19%
QC value within limits for Sr 460.733 Recovery = 97.92%								

QC Failed. Continue with analysis.

Sequence No.: 17
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 10:59:46 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	3077412.1						339.80	0.01%
Ag 328.068	-75.6	-0.00010	mg/L	0.000025	-0.00010	mg/L	0.000025	24.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	59.1	0.00329	mg/L	0.001169	0.00329	mg/L	0.001169	35.56%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	-1.7	-0.00016	mg/L	0.000274	-0.00016	mg/L	0.000274	172.41%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	52.2	0.00014	mg/L	0.000014	0.00014	mg/L	0.000014	10.22%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	0.9	0.00000	mg/L	0.000001	0.00000	mg/L	0.000001	246.94%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	4.2	0.00315	mg/L	0.000005	0.00315	mg/L	0.000005	0.16%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	12.3	0.00003	mg/L	0.000014	0.00003	mg/L	0.000014	53.36%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	5.7	0.00003	mg/L	0.000007	0.00003	mg/L	0.000007	23.82%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-2.8	-0.00001	mg/L	0.000025	-0.00001	mg/L	0.000025	430.18%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	12.2	0.00003	mg/L	0.000041	0.00003	mg/L	0.000041	151.26%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	115.4	0.00426	mg/L	0.000044	0.00426	mg/L	0.000044	1.02%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	90.0	0.00131	mg/L	0.000174	0.00131	mg/L	0.000174	13.21%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	21.5	0.00001	mg/L	0.000000	0.00001	mg/L	0.000000	0.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	90.2	0.00148	mg/L	0.000169	0.00148	mg/L	0.000169	11.37%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	-0.3	0.00000	mg/L	0.000012	0.00000	mg/L	0.000012	936.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-6.0	-0.00022	mg/L	0.000099	-0.00022	mg/L	0.000099	45.32%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	-0.5	-0.00003	mg/L	0.000079	-0.00003	mg/L	0.000079	271.63%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	9.6	0.00111	mg/L	0.000243	0.00111	mg/L	0.000243	21.97%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	72.1	0.00062	mg/L	0.000166	0.00062	mg/L	0.000166	26.75%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	44.2	0.00278	mg/L	0.000387	0.00278	mg/L	0.000387	13.90%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	218.8	0.00013	mg/L	0.000000	0.00013	mg/L	0.000000	0.09%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	18.8	0.00145	mg/L	0.000407	0.00145	mg/L	0.000407	28.05%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	72.8	0.00023	mg/L	0.000081	0.00023	mg/L	0.000081	34.88%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	-1.2	-0.00001	mg/L	0.000045	-0.00001	mg/L	0.000045	668.92%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	465.9	0.0220	mg/L	0.00482	0.0220	mg/L	0.00482	21.89%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	762.0	0.0191	mg/L	0.00204	0.0191	mg/L	0.00204	10.66%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	6.9	0.00671	mg/L	0.000055	0.00671	mg/L	0.000055	0.81%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	-123.8	0.0129	mg/L	0.00002	0.0129	mg/L	0.00002	0.19%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								

Sr 460.733 -22.7 -0.00051 mg/L 0.001210 -0.00051 mg/L 0.001210 236.74%
QC value within limits for Sr 460.733 Recovery = Not calculated
QC Failed. Continue with analysis.

Analysis Begun

Start Time: 5/29/2001 11:19:04 AM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: 0536401 WG98149-01
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 14
Date Collected: 5/29/2001 11:19:04 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0536401 WG98149-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3669730.4						60469.46	1.65%
Ag 328.068	311.4	0.00041	mg/L	0.000104	0.00041	mg/L	0.000104	25.12%
Al 237.312	-474.0	0.0136	mg/L	0.00121	0.0136	mg/L	0.00121	8.92%
As 188.979	75.7	0.00710	mg/L	0.000384	0.00710	mg/L	0.000384	5.42%
Ba 230.424	10483.8	0.0279	mg/L	0.00014	0.0279	mg/L	0.00014	0.51%
Be 234.861	818.4	0.00007	mg/L	0.000003	0.00007	mg/L	0.000003	4.63%
Ca 227.549	66457.1	50.6	mg/L	0.55	50.6	mg/L	0.55	1.08%
Cd 228.802	20.8	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	126.89%
Co 228.616	1392.2	0.00670	mg/L	0.000043	0.00670	mg/L	0.000043	0.64%
Cr 267.716	186.9	0.00068	mg/L	0.000068	0.00068	mg/L	0.000068	10.08%
Cu 327.396	-23.6	-0.00005	mg/L	0.000153	-0.00005	mg/L	0.000153	290.08%
Fe 261.387	160217.6	5.92	mg/L	0.070	5.92	mg/L	0.070	1.18%
Mg 279.079	971573.6	14.2	mg/L	0.17	14.2	mg/L	0.17	1.19%
Mn 257.610	1210413.2	0.512	mg/L	0.0058	0.512	mg/L	0.0058	1.14%
Mo 202.030	30.1	0.00050	mg/L	0.000033	0.00050	mg/L	0.000033	6.72%
Ni 231.604	2338.8	0.0109	mg/L	0.00000	0.0109	mg/L	0.00000	0.00%
Pb 220.353	64.2	0.00239	mg/L	0.000380	0.00239	mg/L	0.000380	15.89%
Sb 206.833	22.4	0.00006	mg/L	0.000176	0.00006	mg/L	0.000176	295.41%
Se 196.026	-3.8	-0.00043	mg/L	0.000363	-0.00043	mg/L	0.000363	84.12%
Si 288.158	456905.2	3.94	mg/L	0.048	3.94	mg/L	0.048	1.22%
Sn 189.933	-94.9	-0.00953	mg/L	0.000061	-0.00953	mg/L	0.000061	0.64%
Ti 337.280	171.4	0.00444	mg/L	0.000064	0.00444	mg/L	0.000064	1.44%
Tl 190.800	30.2	0.00722	mg/L	0.000022	0.00722	mg/L	0.000022	0.31%
V 292.402	54.4	0.00065	mg/L	0.000002	0.00065	mg/L	0.000002	0.30%
Zn 206.200	1544.4	0.00762	mg/L	0.000089	0.00762	mg/L	0.000089	1.18%
K 766.490	35671.5	1.64	mg/L	0.005	1.64	mg/L	0.005	0.31%
Na 589.592	26265.7	0.660	mg/L	0.0008	0.660	mg/L	0.0008	0.12%
Sr 407.771	86243.7	0.0564	mg/L	0.00008	0.0564	mg/L	0.00008	0.14%
Sr 421.552	42643.4	0.0624	mg/L	0.00019	0.0624	mg/L	0.00019	0.31%
Sr 460.733	1118.8	0.0487	mg/L	0.00455	0.0487	mg/L	0.00455	9.34%

Sequence No.: 2
Sample ID: 0536401S WG98149-05
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 15
Date Collected: 5/29/2001 11:23:20 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0536401S WG98149-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3584448.4						85609.09	2.39%
Ag 328.068	145158.2	0.193	mg/L	0.0011	0.193	mg/L	0.0011	0.57%
Al 237.312	177296.8	9.82	mg/L	0.073	9.82	mg/L	0.073	0.75%
As 188.979	9996.4	0.946	mg/L	0.0153	0.946	mg/L	0.0153	1.61%
Ba 230.424	3236899.9	8.54	mg/L	0.182	8.54	mg/L	0.182	2.13%
Be 234.861	1689500.0	0.928	mg/L	0.0232	0.928	mg/L	0.0232	2.49%

Ca 227.549	73400.3	55.9 mg/L	0.41	55.9 mg/L	0.41	0.72%
Cd 228.802	424230.4	0.910 mg/L	0.0071	0.910 mg/L	0.0071	0.78%
Co 228.616	187052.2	0.880 mg/L	0.0091	0.880 mg/L	0.0091	1.04%
Cr 267.716	347541.0	0.927 mg/L	0.0095	0.927 mg/L	0.0095	1.02%
Cu 327.396	414885.4	0.922 mg/L	0.0069	0.922 mg/L	0.0069	0.75%
Fe 261.387	183392.1	6.90 mg/L	0.048	6.90 mg/L	0.048	0.70%
Mg 279.079	1622933.2	23.7 mg/L	0.60	23.7 mg/L	0.60	2.53%
Mn 257.610	3303187.0	1.40 mg/L	0.032	1.40 mg/L	0.032	2.31%
Mo 202.030	54518.3	0.897 mg/L	0.0156	0.897 mg/L	0.0156	1.74%
Ni 231.604	194054.7	0.898 mg/L	0.0100	0.898 mg/L	0.0100	1.11%
Pb 220.353	24521.4	0.917 mg/L	0.0155	0.917 mg/L	0.0155	1.69%
Sb 206.833	16450.3	0.926 mg/L	0.0150	0.926 mg/L	0.0150	1.62%
Se 196.026	7892.4	0.909 mg/L	0.0174	0.909 mg/L	0.0174	1.91%
Si 288.158	1540033.0	13.2 mg/L	0.30	13.2 mg/L	0.30	2.25%
Sn 189.933	14551.8	0.911 mg/L	0.0224	0.911 mg/L	0.0224	2.46%
Ti 337.280	1650109.7	0.959 mg/L	0.0221	0.959 mg/L	0.0221	2.31%
Tl 190.800	8739.9	0.698 mg/L	0.0341	0.698 mg/L	0.0341	4.88%
V 292.402	292588.9	0.933 mg/L	0.0082	0.933 mg/L	0.0082	0.88%
Zn 206.200	169398.6	0.896 mg/L	0.0126	0.896 mg/L	0.0126	1.41%
K 766.490	1078708.1	50.9 mg/L	0.58	50.9 mg/L	0.58	1.14%
Na 589.592	1930776.2	48.5 mg/L	0.21	48.5 mg/L	0.21	0.44%
Sr 407.771	1687908.4	0.978 mg/L	0.0045	0.978 mg/L	0.0045	0.46%
Sr 421.552	836265.6	0.981 mg/L	0.0042	0.981 mg/L	0.0042	0.43%
Sr 460.733	24204.4	1.03 mg/L	0.012	1.03 mg/L	0.012	1.15%

Recovery Check: 0536401S WG98149-05

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	51.6	50.9	0.579	mg/L	98.5
Na 589.592	50.7	48.5	0.212	mg/L	95.7
Sr 407.771	1.06	0.978	0.004	mg/L	92.2
Sr 421.552	1.06	0.981	0.004	mg/L	91.9
Sr 460.733	1.05	1.03	0.012	mg/L	97.8
Ag 328.068	0.200	0.193	0.001	mg/L	96.3
Al 237.312	10.0	9.82	0.073	mg/L	98.0
As 188.979	1.01	0.946	0.015	mg/L	93.9
Ba 230.424	10.0	8.54	0.182	mg/L	85.1
Be 234.861	1.00	0.928	0.023	mg/L	92.8
Ca 227.549	60.6	55.9	0.405	mg/L	52.5
Cd 228.802	1.000	0.910	0.007	mg/L	91.0
Co 228.616	1.01	0.880	0.009	mg/L	87.3
Cr 267.716	1.00	0.927	0.009	mg/L	92.7
Cu 327.396	1.000	0.922	0.007	mg/L	92.2
Fe 261.387	6.92	6.90	0.048	mg/L	97.2
Mg 279.079	24.2	23.7	0.600	mg/L	95.1
Mn 257.610	1.51	1.40	0.032	mg/L	88.5
Mo 202.030	0.995	0.897	0.016	mg/L	90.1
Ni 231.604	1.01	0.898	0.010	mg/L	88.7
Pb 220.353	1.00	0.917	0.016	mg/L	91.5
Sb 206.833	1.20	0.926	0.015	mg/L	76.9
Se 196.026	1.000	0.909	0.017	mg/L	91.0
Si 288.158	13.9	13.2	0.297	mg/L	93.0
Sn 189.933	0.989	0.911	0.022	mg/L	92.2
Ti 337.280	1.00	0.959	0.022	mg/L	95.5
Tl 190.800	1.01	0.698	0.034	mg/L	69.1
V 292.402	1.00	0.933	0.008	mg/L	93.2
Zn 206.200	1.01	0.896	0.013	mg/L	88.9

Sequence No.: 3
Sample ID: 0536401SD WG98149-06
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 5/29/2001 11:27:41 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536401SD WG98149-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3615147.8						84617.79	2.34%

Ag 328.068	147129.9	0.196 mg/L	0.0035	0.196 mg/L	0.0035	1.78%
Al 237.312	179972.5	9.96 mg/L	0.189	9.96 mg/L	0.189	1.90%
As 188.979	10176.6	0.963 mg/L	0.0216	0.963 mg/L	0.0216	2.24%
Ba 230.424	3288949.2	8.68 mg/L	0.177	8.68 mg/L	0.177	2.04%
Be 234.861	1726403.1	0.949 mg/L	0.0184	0.949 mg/L	0.0184	1.94%
Ca 227.549	73477.3	55.9 mg/L	0.93	55.9 mg/L	0.93	1.66%
Cd 228.802	429242.2	0.921 mg/L	0.0159	0.921 mg/L	0.0159	1.73%
Co 228.616	189132.1	0.890 mg/L	0.0137	0.890 mg/L	0.0137	1.54%
Cr 267.716	351247.8	0.937 mg/L	0.0160	0.937 mg/L	0.0160	1.70%
Cu 327.396	422712.8	0.939 mg/L	0.0176	0.939 mg/L	0.0176	1.88%
Fe 261.387	183883.8	6.92 mg/L	0.111	6.92 mg/L	0.111	1.60%
Mg 279.079	1637380.1	23.9 mg/L	0.58	23.9 mg/L	0.58	2.43%
Mn 257.610	3343577.8	1.41 mg/L	0.029	1.41 mg/L	0.029	2.07%
Mo 202.030	55225.8	0.908 mg/L	0.0194	0.908 mg/L	0.0194	2.13%
Ni 231.604	196027.9	0.907 mg/L	0.0164	0.907 mg/L	0.0164	1.81%
Pb 220.353	24976.6	0.934 mg/L	0.0191	0.934 mg/L	0.0191	2.04%
Sb 206.833	16762.3	0.943 mg/L	0.0184	0.943 mg/L	0.0184	1.96%
Se 196.026	8036.0	0.926 mg/L	0.0183	0.926 mg/L	0.0183	1.98%
Si 288.158	1572062.0	13.5 mg/L	0.27	13.5 mg/L	0.27	2.03%
Sn 189.933	14658.1	0.918 mg/L	0.0284	0.918 mg/L	0.0284	3.10%
Ti 337.280	1682041.7	0.977 mg/L	0.0194	0.977 mg/L	0.0194	1.99%
Tl 190.800	8924.9	0.713 mg/L	0.0361	0.713 mg/L	0.0361	5.06%
V 292.402	296133.3	0.944 mg/L	0.0161	0.944 mg/L	0.0161	1.70%
Zn 206.200	170124.7	0.900 mg/L	0.0139	0.900 mg/L	0.0139	1.55%
K 766.490	1096039.0	51.7 mg/L	0.37	51.7 mg/L	0.37	0.71%
Na 589.592	1929876.6	48.5 mg/L	0.42	48.5 mg/L	0.42	0.86%
Sr 407.771	1684667.7	0.977 mg/L	0.0085	0.977 mg/L	0.0085	0.87%
Sr 421.552	835308.1	0.980 mg/L	0.0076	0.980 mg/L	0.0076	0.78%
Sr 460.733	24314.7	1.03 mg/L	0.006	1.03 mg/L	0.006	0.59%

Duplicate Check: 0536401SD WG98149-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	50.9	51.7	0.368	mg/L	1.6
Na 589.592	48.5	48.5	0.417	mg/L	0.0
Sr 407.771	0.978	0.977	0.008	mg/L	0.2
Sr 421.552	0.981	0.980	0.008	mg/L	0.1
Sr 460.733	1.03	1.03	0.006	mg/L	0.4
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.193	0.196	0.003	mg/L	1.3
Al 237.312	9.82	9.96	0.189	mg/L	1.5
As 188.979	0.946	0.963	0.022	mg/L	1.8
Ba 230.424	8.54	8.68	0.177	mg/L	1.6
Be 234.861	0.928	0.949	0.018	mg/L	2.2
Ca 227.549	55.9	55.9	0.927	mg/L	0.1
Cd 228.802	0.910	0.921	0.016	mg/L	1.2
Co 228.616	0.880	0.890	0.014	mg/L	1.1
Cr 267.716	0.927	0.937	0.016	mg/L	1.1
Cu 327.396	0.922	0.939	0.018	mg/L	1.9
Fe 261.387	6.90	6.92	0.111	mg/L	0.3
Mg 279.079	23.7	23.9	0.582	mg/L	0.9
Mn 257.610	1.40	1.41	0.029	mg/L	1.2
Mo 202.030	0.897	0.908	0.019	mg/L	1.3
Ni 231.604	0.898	0.907	0.016	mg/L	1.0
Pb 220.353	0.917	0.934	0.019	mg/L	1.8
Sb 206.833	0.926	0.943	0.018	mg/L	1.9
Se 196.026	0.909	0.926	0.018	mg/L	1.8
Si 288.158	13.2	13.5	0.274	mg/L	2.1
Sn 189.933	0.911	0.918	0.028	mg/L	0.7
Ti 337.280	0.959	0.977	0.019	mg/L	1.9
Tl 190.800	0.698	0.713	0.036	mg/L	2.1
V 292.402	0.933	0.944	0.016	mg/L	1.2
Zn 206.200	0.896	0.900	0.014	mg/L	0.4

Sequence No.: 4
Sample ID: 0536402 WG98149-02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 5/29/2001 11:32:03 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536402 WG98149-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3127875.3						56682.54	1.81%
Ag 328.068	3970.4	0.00528	mg/L	0.000017	0.00528	mg/L	0.000017	0.32%
Al 237.312	-16667.3	0.120	mg/L	0.0087	0.120	mg/L	0.0087	7.28%
As 188.979	64.6	0.00620	mg/L	0.000621	0.00620	mg/L	0.000621	10.02%
Ba 230.424	-2794.4	-0.00407	mg/L	0.000398	-0.00407	mg/L	0.000398	9.77%
Be 234.861	19790.8	0.00128	mg/L	0.000186	0.00128	mg/L	0.000186	14.59%
Ca 227.549	596437.4	453	mg/L	7.1	453	mg/L	7.1	1.57%
Cd 228.802	-145.4	-0.00076	mg/L	0.000304	-0.00076	mg/L	0.000304	40.01%
Co 228.616	91580.9	0.434	mg/L	0.0109	0.434	mg/L	0.0109	2.50%
Cr 267.716	4320.2	0.0163	mg/L	0.00090	0.0163	mg/L	0.00090	5.54%
Cu 327.396	-2785.2	-0.00619	mg/L	0.000123	-0.00619	mg/L	0.000123	1.99%
Fe 261.387	4008342.8	148	mg/L	2.9	148	mg/L	2.9	1.94%
Mg 279.079	19809810.1	290	mg/L	7.4	290	mg/L	7.4	2.56%
Mn 257.610	32796023.4	13.9	mg/L	0.23	13.9	mg/L	0.23	1.66%
Mo 202.030	-17.5	-0.00029	mg/L	0.000000	-0.00029	mg/L	0.000000	0.03%
Ni 231.604	150304.6	0.697	mg/L	0.0163	0.697	mg/L	0.0163	2.34%
Pb 220.353	880.3	0.0328	mg/L	0.00050	0.0328	mg/L	0.00050	1.53%
Sb 206.833	288.2	-0.00908	mg/L	0.000585	-0.00908	mg/L	0.000585	6.45%
Se 196.026	25.7	0.00315	mg/L	0.003575	0.00315	mg/L	0.003575	113.41%
Si 288.158	547929.1	4.93	mg/L	0.093	4.93	mg/L	0.093	1.89%
Sn 189.933	-91.2	-0.0375	mg/L	0.00221	-0.0375	mg/L	0.00221	5.89%
Ti 337.280	-289.8	0.0823	mg/L	0.00136	0.0823	mg/L	0.00136	1.65%
Tl 190.800	345.8	0.157	mg/L	0.0001	0.157	mg/L	0.0001	0.03%
V 292.402	-5123.8	-0.00449	mg/L	0.000370	-0.00449	mg/L	0.000370	8.25%
Zn 206.200	47911.7	0.240	mg/L	0.0066	0.240	mg/L	0.0066	2.74%
K 766.490	90879.6	3.42	mg/L	0.055	3.42	mg/L	0.055	1.59%
Na 589.592	134526.3	3.38	mg/L	0.038	3.38	mg/L	0.038	1.11%
Sr 407.771	680383.6	0.398	mg/L	0.0012	0.398	mg/L	0.0012	0.30%
Sr 421.552	336331.0	0.402	mg/L	0.0014	0.402	mg/L	0.0014	0.34%
Sr 460.733	9992.3	0.429	mg/L	0.0075	0.429	mg/L	0.0075	1.74%

Sequence No.: 5
Sample ID: 0536402DP WG98149-07
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 5/29/2001 11:36:20 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536402DP WG98149-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3140174.8						33121.99	1.05%
Ag 328.068	3799.5	0.00505	mg/L	0.000079	0.00505	mg/L	0.000079	1.57%
Al 237.312	-16001.8	0.121	mg/L	0.0067	0.121	mg/L	0.0067	5.57%
As 188.979	66.8	0.00641	mg/L	0.000550	0.00641	mg/L	0.000550	8.58%
Ba 230.424	-2712.2	-0.00399	mg/L	0.000056	-0.00399	mg/L	0.000056	1.40%
Be 234.861	19103.4	0.00123	mg/L	0.000031	0.00123	mg/L	0.000031	2.49%
Ca 227.549	568302.9	431	mg/L	5.0	431	mg/L	5.0	1.16%
Cd 228.802	-459.5	-0.00141	mg/L	0.000075	-0.00141	mg/L	0.000075	5.32%
Co 228.616	87744.6	0.416	mg/L	0.0051	0.416	mg/L	0.0051	1.23%
Cr 267.716	4212.6	0.0158	mg/L	0.00028	0.0158	mg/L	0.00028	1.75%
Cu 327.396	-2681.0	-0.00596	mg/L	0.000077	-0.00596	mg/L	0.000077	1.29%
Fe 261.387	3869574.7	143	mg/L	1.8	143	mg/L	1.8	1.24%
Mg 279.079	19103523.8	279	mg/L	5.1	279	mg/L	5.1	1.84%
Mn 257.610	32069128.7	13.6	mg/L	0.18	13.6	mg/L	0.18	1.35%
Mo 202.030	-103.3	-0.00170	mg/L	0.000834	-0.00170	mg/L	0.000834	49.12%
Ni 231.604	144307.1	0.669	mg/L	0.0100	0.669	mg/L	0.0100	1.50%
Pb 220.353	828.8	0.0308	mg/L	0.00023	0.0308	mg/L	0.00023	0.74%
Sb 206.833	250.3	-0.0104	mg/L	0.00042	-0.0104	mg/L	0.00042	4.05%
Se 196.026	4.6	0.00070	mg/L	0.001140	0.00070	mg/L	0.001140	162.38%
Si 288.158	523388.8	4.71	mg/L	0.057	4.71	mg/L	0.057	1.21%
Sn 189.933	-146.9	-0.0395	mg/L	0.00102	-0.0395	mg/L	0.00102	2.59%
Ti 337.280	-204.5	0.0801	mg/L	0.00100	0.0801	mg/L	0.00100	1.25%
Tl 190.800	142.7	0.138	mg/L	0.0018	0.138	mg/L	0.0018	1.31%
V 292.402	-5028.5	-0.00460	mg/L	0.000113	-0.00460	mg/L	0.000113	2.46%

Zn 206.200	46359.3	0.232 mg/L	0.0049	0.232 mg/L	0.0049	2.11%
K 766.490	81656.0	3.02 mg/L	0.012	3.02 mg/L	0.012	0.40%
Na 589.592	122113.3	3.07 mg/L	0.034	3.07 mg/L	0.034	1.10%
Sr 407.771	634215.1	0.372 mg/L	0.0075	0.372 mg/L	0.0075	2.02%
Sr 421.552	307190.3	0.369 mg/L	0.0033	0.369 mg/L	0.0033	0.90%
Sr 460.733	9224.0	0.396 mg/L	0.0051	0.396 mg/L	0.0051	1.29%

Duplicate Check: 0536402DP WG98149-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	3.42	3.02	0.012	mg/L	12.6
Na 589.592	3.38	3.07	0.034	mg/L	9.7
Sr 407.771	0.398	0.372	0.008	mg/L	6.9
Sr 421.552	0.402	0.369	0.003	mg/L	8.7
Sr 460.733	0.429	0.396	0.005	mg/L	7.9
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00528	0.00505	0.000	mg/L	4.4
Al 237.312	0.120	0.121	0.007	mg/L	0.9
As 188.979	0.00620	0.00641	0.001	mg/L	3.2
Ba 230.424	-0.00407	-0.00399	0.000	mg/L	-2.0
Be 234.861	0.00128	0.00123	0.000	mg/L	3.6
Ca 227.549	453	431	4.996	mg/L	4.8
Cd 228.802	-0.00076	-0.00141	0.000	mg/L	-60.2
Co 228.616	0.434	0.416	0.005	mg/L	4.3
Cr 267.716	0.0163	0.0158	0.000	mg/L	2.8
Cu 327.396	-0.00619	-0.00596	0.000	mg/L	-3.8
Fe 261.387	148	143	1.779	mg/L	3.5
Mg 279.079	290	279	5.143	mg/L	3.6
Mn 257.610	13.9	13.6	0.183	mg/L	2.2
Mo 202.030	-0.00029	-0.00170	0.001	mg/L	-142.5
Ni 231.604	0.697	0.669	0.010	mg/L	4.1
Pb 220.353	0.0328	0.0308	0.000	mg/L	6.0
Sb 206.833	-0.00908	-0.0104	0.000	mg/L	-13.6
Se 196.026	0.00315	0.00070	0.001	mg/L	127.2
Si 288.158	4.93	4.71	0.057	mg/L	4.6
Sn 189.933	-0.0375	-0.0395	0.001	mg/L	-5.2
Ti 337.280	0.0823	0.0801	0.001	mg/L	2.7
Tl 190.800	0.157	0.138	0.002	mg/L	12.7
V 292.402	-0.00449	-0.00460	0.000	mg/L	-2.3
Zn 206.200	0.240	0.232	0.005	mg/L	3.3

Sequence No.: 6
Sample ID: 0546704
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 5/29/2001 11:40:37 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0546704

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3401075.8						43959.58	1.29%
Ag 328.068	1408.0	0.00187	mg/L	0.000110	0.00187	mg/L	0.000110	5.87%
Al 237.312	-3311.9	0.0342	mg/L	0.00312	0.0342	mg/L	0.00312	9.13%
As 188.979	181.1	0.0170	mg/L	0.00066	0.0170	mg/L	0.00066	3.91%
Ba 230.424	54799.4	0.146	mg/L	0.0024	0.146	mg/L	0.0024	1.66%
Be 234.861	4139.5	0.00019	mg/L	0.000049	0.00019	mg/L	0.000049	26.01%
Ca 227.549	357781.6	273	mg/L	4.2	273	mg/L	4.2	1.52%
Cd 228.802	38.1	-0.00016	mg/L	0.000011	-0.00016	mg/L	0.000011	7.20%
Co 228.616	216.2	0.00183	mg/L	0.000031	0.00183	mg/L	0.000031	1.71%
Cr 267.716	456.0	0.00226	mg/L	0.000022	0.00226	mg/L	0.000022	0.96%
Cu 327.396	-352.5	-0.00078	mg/L	0.000021	-0.00078	mg/L	0.000021	2.70%
Fe 261.387	870314.2	32.1	mg/L	0.46	32.1	mg/L	0.46	1.44%
Mg 279.079	4364227.8	63.8	mg/L	0.94	63.8	mg/L	0.94	1.47%
Mn 257.610	4261622.6	1.80	mg/L	0.024	1.80	mg/L	0.024	1.33%
Mo 202.030	23.7	0.00039	mg/L	0.000091	0.00039	mg/L	0.000091	23.42%
Ni 231.604	-29.7	0.00028	mg/L	0.000047	0.00028	mg/L	0.000047	16.76%
Pb 220.353	272.3	0.0101	mg/L	0.00042	0.0101	mg/L	0.00042	4.16%
Sb 206.833	76.3	-0.00176	mg/L	0.000091	-0.00176	mg/L	0.000091	5.18%

Se 196.026	9.8	0.00117 mg/L	0.002322	0.00117 mg/L	0.002322	198.88%
Si 288.158	1208267.5	10.5 mg/L	0.15	10.5 mg/L	0.15	1.42%
Sn 189.933	-157.6	-0.0290 mg/L	0.00018	-0.0290 mg/L	0.00018	0.62%
Ti 337.280	383.8	0.0194 mg/L	0.00027	0.0194 mg/L	0.00027	1.39%
Tl 190.800	78.9	0.0245 mg/L	0.00033	0.0245 mg/L	0.00033	1.35%
V 292.402	-543.1	0.00084 mg/L	0.000013	0.00084 mg/L	0.000013	1.51%
Zn 206.200	5559.4	0.0265 mg/L	0.00008	0.0265 mg/L	0.00008	0.31%
K 766.490	22755.3	0.884 mg/L	0.0117	0.884 mg/L	0.0117	1.32%
Na 589.592	2804646.4	70.4 mg/L	0.17	70.4 mg/L	0.17	0.24%
Sr 407.771	1529892.1	0.887 mg/L	0.0007	0.887 mg/L	0.0007	0.08%
Sr 421.552	756207.2	0.889 mg/L	0.0003	0.889 mg/L	0.0003	0.04%
Sr 460.733	22871.1	0.971 mg/L	0.0028	0.971 mg/L	0.0028	0.29%

Sequence No.: 7
Sample ID: 0546705
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 5/29/2001 11:44:51 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0546705

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3386415.6						83054.61	2.45%
Ag 328.068	1488.7	0.00198	mg/L	0.000040	0.00198	mg/L	0.000040	2.03%
Al 237.312	-2927.5	0.0369	mg/L	0.00350	0.0369	mg/L	0.00350	9.50%
As 188.979	171.8	0.0161	mg/L	0.00028	0.0161	mg/L	0.00028	1.72%
Ba 230.424	55409.6	0.148	mg/L	0.0020	0.148	mg/L	0.0020	1.39%
Be 234.861	3914.3	0.00023	mg/L	0.000066	0.00023	mg/L	0.000066	28.79%
Ca 227.549	366122.5	279	mg/L	1.6	279	mg/L	1.6	0.59%
Cd 228.802	205.8	0.00020	mg/L	0.000021	0.00020	mg/L	0.000021	10.79%
Co 228.616	211.7	0.00176	mg/L	0.000061	0.00176	mg/L	0.000061	3.44%
Cr 267.716	464.9	0.00217	mg/L	0.000023	0.00217	mg/L	0.000023	1.05%
Cu 327.396	-352.1	-0.00078	mg/L	0.000040	-0.00078	mg/L	0.000040	5.07%
Fe 261.387	802907.6	29.7	mg/L	0.41	29.7	mg/L	0.41	1.39%
Mg 279.079	4442386.3	64.9	mg/L	1.37	64.9	mg/L	1.37	2.11%
Mn 257.610	4330502.0	1.83	mg/L	0.036	1.83	mg/L	0.036	1.96%
Mo 202.030	-9.0	-0.00015	mg/L	0.000220	-0.00015	mg/L	0.000220	149.60%
Ni 231.604	-9.2	0.00034	mg/L	0.000005	0.00034	mg/L	0.000005	1.57%
Pb 220.353	257.7	0.00960	mg/L	0.000193	0.00960	mg/L	0.000193	2.01%
Sb 206.833	78.0	-0.00148	mg/L	0.000055	-0.00148	mg/L	0.000055	3.69%
Se 196.026	-0.1	0.00002	mg/L	0.002126	0.00002	mg/L	0.002126	>999.9%
Si 288.158	1216457.1	10.6	mg/L	0.24	10.6	mg/L	0.24	2.31%
Sn 189.933	-173.3	-0.0305	mg/L	0.00002	-0.0305	mg/L	0.00002	0.05%
Ti 337.280	-33.1	0.0194	mg/L	0.00021	0.0194	mg/L	0.00021	1.09%
Tl 190.800	46.0	0.0220	mg/L	0.00078	0.0220	mg/L	0.00078	3.55%
V 292.402	-589.9	0.00049	mg/L	0.000020	0.00049	mg/L	0.000020	4.02%
Zn 206.200	9949.7	0.0499	mg/L	0.00041	0.0499	mg/L	0.00041	0.83%
K 766.490	27602.2	1.11	mg/L	0.030	1.11	mg/L	0.030	2.66%
Na 589.592	2860685.3	71.8	mg/L	2.59	71.8	mg/L	2.59	3.60%
Sr 407.771	1558625.3	0.904	mg/L	0.0288	0.904	mg/L	0.0288	3.18%
Sr 421.552	771018.8	0.906	mg/L	0.0290	0.906	mg/L	0.0290	3.20%
Sr 460.733	23709.9	1.01	mg/L	0.011	1.01	mg/L	0.011	1.06%

Sequence No.: 8
Sample ID: 0536001
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 5/29/2001 11:49:07 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536001

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3658526.4						95975.93	2.62%
Ag 328.068	8612.2	0.0115	mg/L	0.00024	0.0115	mg/L	0.00024	2.06%
Al 237.312	24309.6	1.29	mg/L	0.019	1.29	mg/L	0.019	1.44%
As 188.979	-12.2	-0.00096	mg/L	0.000855	-0.00096	mg/L	0.000855	89.07%
Ba 230.424	1884.3	0.00645	mg/L	0.000000	0.00645	mg/L	0.000000	0.00%

Be 234.861	2293.7	0.00125 mg/L	0.000013	0.00125 mg/L	0.000013	1.06%
Ca 227.549	483221.2	369 mg/L	5.3	369 mg/L	5.3	1.44%
Cd 228.802	734.9	0.00087 mg/L	0.000028	0.00087 mg/L	0.000028	3.27%
Co 228.616	37703.2	0.178 mg/L	0.0038	0.178 mg/L	0.0038	2.14%
Cr 267.716	5450.4	0.0119 mg/L	0.00025	0.0119 mg/L	0.00025	2.15%
Cu 327.396	1228.7	0.00273 mg/L	0.000127	0.00273 mg/L	0.000127	4.63%
Fe 261.387	-180.7	0.416 mg/L	0.0025	0.416 mg/L	0.0025	0.60%
Mg 279.079	34975884.1	511 mg/L	10.8	511 mg/L	10.8	2.12%
Mn 257.610	31841755.1	13.5 mg/L	0.21	13.5 mg/L	0.21	1.55%
Mo 202.030	6.7	0.00011 mg/L	0.000111	0.00011 mg/L	0.000111	103.70%
Ni 231.604	139319.8	0.644 mg/L	0.0145	0.644 mg/L	0.0145	2.25%
Pb 220.353	344.6	0.0129 mg/L	0.00003	0.0129 mg/L	0.00003	0.23%
Sb 206.833	24.8	-0.0114 mg/L	0.00080	-0.0114 mg/L	0.00080	7.01%
Se 196.026	185.5	0.0212 mg/L	0.00120	0.0212 mg/L	0.00120	5.68%
Si 288.158	617074.5	5.48 mg/L	0.083	5.48 mg/L	0.083	1.52%
Sn 189.933	-161.3	-0.0362 mg/L	0.00058	-0.0362 mg/L	0.00058	1.59%
Ti 337.280	-82.7	0.0660 mg/L	0.00102	0.0660 mg/L	0.00102	1.55%
Tl 190.800	36.6	0.115 mg/L	0.0022	0.115 mg/L	0.0022	1.89%
V 292.402	-1453.4	-0.00466 mg/L	0.000080	-0.00466 mg/L	0.000080	1.71%
Zn 206.200	106903.9	0.560 mg/L	0.0163	0.560 mg/L	0.0163	2.91%
K 766.490	120110.1	4.14 mg/L	0.007	4.14 mg/L	0.007	0.18%
Na 589.592	2865264.8	72.0 mg/L	1.15	72.0 mg/L	1.15	1.59%
Sr 407.771	860253.0	0.502 mg/L	0.0086	0.502 mg/L	0.0086	1.72%
Sr 421.552	423011.8	0.503 mg/L	0.0089	0.503 mg/L	0.0089	1.77%
Sr 460.733	12302.2	0.527 mg/L	0.0017	0.527 mg/L	0.0017	0.32%

Sequence No.: 9
Sample ID: 0548401
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 5/29/2001 11:53:24 AM

Sample Prep Volume:
Data Type: Original

Mean Data: 0548401

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3257811.1						763.81	0.02%
Ag 328.068	37286.5	0.0496	mg/L	0.00044	0.0496	mg/L	0.00044	0.90%
Al 237.312	272324.9	16.6	mg/L	0.17	16.6	mg/L	0.17	1.01%
As 188.979	84.3	0.00857	mg/L	0.000073	0.00857	mg/L	0.000073	0.85%
Ba 230.424	-6435.9	-0.0146	mg/L	0.00051	-0.0146	mg/L	0.00051	3.51%
Be 234.861	31455.4	0.00266	mg/L	0.000227	0.00266	mg/L	0.000227	8.51%
Ca 227.549	13361.3	5.95	mg/L	0.104	5.95	mg/L	0.104	1.74%
Cd 228.802	-237.2	-0.00032	mg/L	0.000056	-0.00032	mg/L	0.000056	17.51%
Co 228.616	734.6	0.00795	mg/L	0.000048	0.00795	mg/L	0.000048	0.61%
Cr 267.716	22628.1	0.0695	mg/L	0.00030	0.0695	mg/L	0.00030	0.43%
Cu 327.396	1891.6	0.00421	mg/L	0.000647	0.00421	mg/L	0.000647	15.39%
Fe 261.387	6070225.9	224	mg/L	3.4	224	mg/L	3.4	1.51%
Mg 279.079	101002.6	1.47	mg/L	0.034	1.47	mg/L	0.034	2.29%
Mn 257.610	8243816.1	3.49	mg/L	0.050	3.49	mg/L	0.050	1.42%
Mo 202.030	-375.0	-0.00621	mg/L	0.000833	-0.00621	mg/L	0.000833	13.42%
Ni 231.604	-615.6	0.00007	mg/L	0.000012	0.00007	mg/L	0.000012	18.13%
Pb 220.353	851.3	0.0323	mg/L	0.00004	0.0323	mg/L	0.00004	0.14%
Sb 206.833	495.1	0.00170	mg/L	0.000370	0.00170	mg/L	0.000370	21.76%
Se 196.026	-113.1	-0.0158	mg/L	0.00202	-0.0158	mg/L	0.00202	12.81%
Si 288.158	81024.8	0.705	mg/L	0.0172	0.705	mg/L	0.0172	2.44%
Sn 189.933	383.5	0.0208	mg/L	0.00488	0.0208	mg/L	0.00488	23.40%
Ti 337.280	486.7	0.0270	mg/L	0.00043	0.0270	mg/L	0.00043	1.61%
Tl 190.800	950.1	0.123	mg/L	0.0115	0.123	mg/L	0.0115	9.33%
V 292.402	-5386.9	0.00044	mg/L	0.000196	0.00044	mg/L	0.000196	44.89%
Zn 206.200	7885.2	0.0255	mg/L	0.00115	0.0255	mg/L	0.00115	4.53%
K 766.490	249497.4	11.8	mg/L	0.05	11.8	mg/L	0.05	0.46%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	35463.5	0.0271	mg/L	0.00014	0.0271	mg/L	0.00014	0.50%
Sr 421.552	17640.1	0.0335	mg/L	0.00029	0.0335	mg/L	0.00029	0.86%
Sr 460.733	581.0	0.0255	mg/L	0.00209	0.0255	mg/L	0.00209	8.18%

Sequence No.: 10

Autosampler Location: 23

Sample ID: 0548402
Analyst:
Sample Wt:
Dilution:

Date Collected: 5/29/2001 11:57:38 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 0548402

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	1645818.8						4709.48	0.29%
Ag 328.068	464938.0	0.618	mg/L	0.0073	0.618	mg/L	0.0073	1.18%
Al 237.312	4226700.9	235	mg/L	2.8	235	mg/L	2.8	1.20%
As 188.979	167.3	0.0182	mg/L	0.00401	0.0182	mg/L	0.00401	22.04%
Ba 230.424	-6883.5	-0.0142	mg/L	0.00031	-0.0142	mg/L	0.00031	2.16%
Be 234.861	46426.5	0.00501	mg/L	0.000055	0.00501	mg/L	0.000055	1.09%
Ca 227.549	19416.3	9.20	mg/L	0.173	9.20	mg/L	0.173	1.88%
Cd 228.802	-17.8	0.00000	mg/L	0.000131	0.00000	mg/L	0.000131	>999.9%
Co 228.616	1955.8	0.0156	mg/L	0.00023	0.0156	mg/L	0.00023	1.46%
Cr 267.716	59980.2	0.171	mg/L	0.0014	0.171	mg/L	0.0014	0.83%
Cu 327.396	3331.5	0.00741	mg/L	0.000493	0.00741	mg/L	0.000493	6.65%
Fe 261.387	8072019.4	298	mg/L	1.1	298	mg/L	1.1	0.36%
Mg 279.079	148462.4	2.14	mg/L	0.030	2.14	mg/L	0.030	1.41%
Mn 257.610	7882182.7	3.33	mg/L	0.016	3.33	mg/L	0.016	0.48%
Mo 202.030	-521.8	-0.00919	mg/L	0.000904	-0.00919	mg/L	0.000904	9.84%
Ni 231.604	2557.1	0.0157	mg/L	0.00021	0.0157	mg/L	0.00021	1.36%
Pb 220.353	398.2	0.0240	mg/L	0.00004	0.0240	mg/L	0.00004	0.18%
Sb 206.833	1369.9	0.0165	mg/L	0.00774	0.0165	mg/L	0.00774	46.92%
Se 196.026	491.3	0.0148	mg/L	0.02523	0.0148	mg/L	0.02523	170.04%
Si 288.158	440896.3	3.87	mg/L	0.055	3.87	mg/L	0.055	1.42%
Sn 189.933	150.3	-0.0321	mg/L	0.00449	-0.0321	mg/L	0.00449	13.98%
Ti 337.280	6788.0	0.0424	mg/L	0.00028	0.0424	mg/L	0.00028	0.66%
Tl 190.800	478.8	0.0736	mg/L	0.00042	0.0736	mg/L	0.00042	0.58%
V 292.402	-7255.5	-0.00398	mg/L	0.000350	-0.00398	mg/L	0.000350	8.80%
Zn 206.200	19215.4	0.0717	mg/L	0.00025	0.0717	mg/L	0.00025	0.35%
K 766.490	599538.9	28.3	mg/L	0.40	28.3	mg/L	0.40	1.42%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	75741.8	0.0503	mg/L	0.00041	0.0503	mg/L	0.00041	0.82%
Sr 421.552	37653.2	0.0567	mg/L	0.00049	0.0567	mg/L	0.00049	0.87%
Sr 460.733	1397.0	0.0607	mg/L	0.00095	0.0607	mg/L	0.00095	1.56%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 12:01:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3925571.5						126755.98	3.23%
Ag 328.068	292479.2	0.389	mg/L	0.0119	0.389	mg/L	0.0119	3.07%
QC value within limits for Ag 328.068 Recovery = 97.22%								
Al 237.312	183474.3	10.1	mg/L	0.20	10.1	mg/L	0.20	1.98%
QC value within limits for Al 237.312 Recovery = 101.41%								
As 188.979	4133.9	0.392	mg/L	0.0034	0.392	mg/L	0.0034	0.88%
QC value within limits for As 188.979 Recovery = 98.10%								
Ba 230.424	394711.4	1.04	mg/L	0.029	1.04	mg/L	0.029	2.75%
QC value within limits for Ba 230.424 Recovery = 104.22%								
Be 234.861	93899.6	0.0514	mg/L	0.00171	0.0514	mg/L	0.00171	3.32%
QC value within limits for Be 234.861 Recovery = 102.83%								
Ca 227.549	13721.5	10.4	mg/L	0.08	10.4	mg/L	0.08	0.78%
QC value within limits for Ca 227.549 Recovery = 103.54%								
Cd 228.802	23529.7	0.0499	mg/L	0.00047	0.0499	mg/L	0.00047	0.93%
QC value within limits for Cd 228.802 Recovery = 99.79%								
Co 228.616	44628.6	0.210	mg/L	0.0058	0.210	mg/L	0.0058	2.77%
QC value within limits for Co 228.616 Recovery = 105.01%								
Cr 267.716	192581.9	0.517	mg/L	0.0158	0.517	mg/L	0.0158	3.06%
QC value within limits for Cr 267.716 Recovery = 103.47%								

Cu 327.396	233962.1	0.520 mg/L	0.0163	0.520 mg/L	0.0163	3.13%
QC value within limits for Cu 327.396 Recovery = 103.97%						
Fe 261.387	115206.5	4.29 mg/L	0.036	4.29 mg/L	0.036	0.84%
QC value within limits for Fe 261.387 Recovery = 107.21%						
Mg 279.079	684357.8	9.99 mg/L	0.294	9.99 mg/L	0.294	2.94%
QC value within limits for Mg 279.079 Recovery = 99.94%						
Mn 257.610	1223760.3	0.517 mg/L	0.0109	0.517 mg/L	0.0109	2.10%
QC value within limits for Mn 257.610 Recovery = 103.49%						
Mo 202.030	62753.0	1.03 mg/L	0.038	1.03 mg/L	0.038	3.69%
QC value within limits for Mo 202.030 Recovery = 103.73%						
Ni 231.604	112404.1	0.520 mg/L	0.0139	0.520 mg/L	0.0139	2.67%
QC value within limits for Ni 231.604 Recovery = 104.03%						
Pb 220.353	13477.8	0.506 mg/L	0.0051	0.506 mg/L	0.0051	1.01%
QC value within limits for Pb 220.353 Recovery = 101.22%						
Sb 206.833	20694.1	1.18 mg/L	0.013	1.18 mg/L	0.013	1.08%
QC value within limits for Sb 206.833 Recovery = 98.08%						
Se 196.026	3547.8	0.407 mg/L	0.0054	0.407 mg/L	0.0054	1.34%
QC value within limits for Se 196.026 Recovery = 101.81%						
Si 288.158	3964.5	0.0428 mg/L	0.00051	0.0428 mg/L	0.00051	1.19%
QC value less than the lower limit for Si 288.158 Recovery = 0.86%						
Sn 189.933	13919.3	0.875 mg/L	0.0332	0.875 mg/L	0.0332	3.80%
QC value less than the lower limit for Sn 189.933 Recovery = 87.59%						
Ti 337.280	1753738.1	1.01 mg/L	0.028	1.01 mg/L	0.028	2.81%
QC value within limits for Ti 337.280 Recovery = 101.03%						
Tl 190.800	6385.0	0.503 mg/L	0.0145	0.503 mg/L	0.0145	2.88%
QC value within limits for Tl 190.800 Recovery = 100.58%						
V 292.402	323794.3	1.03 mg/L	0.030	1.03 mg/L	0.030	2.89%
QC value within limits for V 292.402 Recovery = 103.18%						
Zn 206.200	191687.3	1.01 mg/L	0.026	1.01 mg/L	0.026	2.52%
QC value within limits for Zn 206.200 Recovery = 101.39%						
K 766.490	1092142.3	51.6 mg/L	1.06	51.6 mg/L	1.06	2.05%
QC value within limits for K 766.490 Recovery = 103.13%						
Na 589.592	2141950.7	53.8 mg/L	1.76	53.8 mg/L	1.76	3.26%
QC value within limits for Na 589.592 Recovery = 107.60%						
Sr 407.771	1613920.0	0.936 mg/L	0.0202	0.936 mg/L	0.0202	2.16%
QC value within limits for Sr 407.771 Recovery = 93.58%						
Sr 421.552	799841.5	0.939 mg/L	0.0203	0.939 mg/L	0.0203	2.16%
QC value within limits for Sr 421.552 Recovery = 93.91%						
Sr 460.733	23351.8	0.991 mg/L	0.0202	0.991 mg/L	0.0202	2.03%
QC value within limits for Sr 460.733 Recovery = 99.14%						

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 12:05:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3287154.3						32676.08	0.99%
Ag 328.068	-75.5	-0.00010	mg/L	0.000001	-0.00010	mg/L	0.000001	1.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	109.8	0.00621	mg/L	0.000337	0.00621	mg/L	0.000337	5.43%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	1.4	0.00013	mg/L	0.000829	0.00013	mg/L	0.000829	658.41%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	106.1	0.00028	mg/L	0.000017	0.00028	mg/L	0.000017	5.93%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-15.3	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	21.18%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	17.2	0.0128	mg/L	0.00627	0.0128	mg/L	0.00627	49.21%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-0.6	0.00000	mg/L	0.000012	0.00000	mg/L	0.000012	898.26%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	4.2	0.00002	mg/L	0.000013	0.00002	mg/L	0.000013	58.82%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-60.0	-0.00016	mg/L	0.000033	-0.00016	mg/L	0.000033	21.33%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 327.396	-78.2	-0.00017 mg/L	0.000102	-0.00017 mg/L	0.000102	58.54%

QC value within limits for Cu 327.396 Recovery = Not calculated

Fe 261.387	580.7	0.0214 mg/L	0.00044	0.0214 mg/L	0.00044	2.07%

QC value greater than the upper limit for Fe 261.387 Recovery = Not calculated

Mg 279.079	167.4	0.00244 mg/L	0.000076	0.00244 mg/L	0.000076	3.12%

QC value within limits for Mg 279.079 Recovery = Not calculated

Mn 257.610	62.9	0.00003 mg/L	0.000012	0.00003 mg/L	0.000012	45.66%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.030	71.8	0.00118 mg/L	0.000109	0.00118 mg/L	0.000109	9.22%

QC value within limits for Mo 202.030 Recovery = Not calculated

Ni 231.604	17.3	0.00008 mg/L	0.000001	0.00008 mg/L	0.000001	1.51%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	-15.0	-0.00056 mg/L	0.000044	-0.00056 mg/L	0.000044	7.86%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	1.4	0.00009 mg/L	0.000219	0.00009 mg/L	0.000219	257.01%

QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	21.6	0.00249 mg/L	0.000179	0.00249 mg/L	0.000179	7.18%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 288.158	-258.6	-0.00221 mg/L	0.000171	-0.00221 mg/L	0.000171	7.72%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	164.7	0.0104 mg/L	0.00045	0.0104 mg/L	0.00045	4.35%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	228.5	0.00014 mg/L	0.000033	0.00014 mg/L	0.000033	24.14%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	62.8	0.00484 mg/L	0.000152	0.00484 mg/L	0.000152	3.13%

QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	109.4	0.00035 mg/L	0.000149	0.00035 mg/L	0.000149	42.50%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	-49.1	-0.00026 mg/L	0.000040	-0.00026 mg/L	0.000040	15.15%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	1501.5	0.0709 mg/L	0.00595	0.0709 mg/L	0.00595	8.38%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	8974.4	0.225 mg/L	0.0011	0.225 mg/L	0.0011	0.47%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771	3.4	0.00671 mg/L	0.000058	0.00671 mg/L	0.000058	0.86%

QC value within limits for Sr 407.771 Recovery = Not calculated

Sr 421.552	29.5	0.0131 mg/L	0.00003	0.0131 mg/L	0.00003	0.26%

Sample signal is less than that of the lowest standard.
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated

Sr 460.733	33.5	0.00192 mg/L	0.000331	0.00192 mg/L	0.000331	17.25%

QC value within limits for Sr 460.733 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 13 **Autosampler Location: 24**
Sample ID: 0552501 **Date Collected: 5/29/2001 12:09:44 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 0552501

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3593873.6						101288.56	2.82%
Ag 328.068	-246.8	-0.00033	mg/L	0.000110	-0.00033	mg/L	0.000110	33.60%
Al 237.312	-2622.4	0.284	mg/L	0.0115	0.284	mg/L	0.0115	4.05%
As 188.979	22.5	0.00210	mg/L	0.001141	0.00210	mg/L	0.001141	54.29%
Ba 230.424	1401.9	0.00440	mg/L	0.000001	0.00440	mg/L	0.000001	0.02%
Be 234.861	7393.1	0.00023	mg/L	0.000031	0.00023	mg/L	0.000031	13.24%
Ca 227.549	32869.8	24.0	mg/L	0.39	24.0	mg/L	0.39	1.62%
Cd 228.802	-23.3	-0.00002	mg/L	0.000013	-0.00002	mg/L	0.000013	55.26%
Co 228.616	316.7	0.00266	mg/L	0.000019	0.00266	mg/L	0.000019	0.72%
Cr 267.716	-138.7	0.00210	mg/L	0.000053	0.00210	mg/L	0.000053	2.51%
Cu 327.396	-205.4	-0.00046	mg/L	0.000037	-0.00046	mg/L	0.000037	8.04%
Fe 261.387	1598553.4	59.0	mg/L	1.47	59.0	mg/L	1.47	2.50%
Mg 279.079	759446.5	11.1	mg/L	0.31	11.1	mg/L	0.31	2.77%
Mn 257.610	1478474.7	0.625	mg/L	0.0156	0.625	mg/L	0.0156	2.50%
Mo 202.030	26.8	0.00044	mg/L	0.001080	0.00044	mg/L	0.001080	244.93%
Ni 231.604	258.2	0.00196	mg/L	0.000029	0.00196	mg/L	0.000029	1.50%

Pb 220.353	246.3	0.00918 mg/L	0.000255	0.00918 mg/L	0.000255	2.78%
Sb 206.833	98.4	-0.00072 mg/L	0.000627	-0.00072 mg/L	0.000627	87.41%
Se 196.026	24.4	0.00285 mg/L	0.000908	0.00285 mg/L	0.000908	31.90%
Si 288.158	273262.8	2.36 mg/L	0.050	2.36 mg/L	0.050	2.12%
Sn 189.933	70.0	0.00268 mg/L	0.000571	0.00268 mg/L	0.000571	21.30%
Ti 337.280	21619.2	0.0183 mg/L	0.00044	0.0183 mg/L	0.00044	2.41%
Tl 190.800	51.0	0.0152 mg/L	0.00070	0.0152 mg/L	0.00070	4.62%
V 292.402	-804.0	0.00215 mg/L	0.000067	0.00215 mg/L	0.000067	3.11%
Zn 206.200	47865.1	0.249 mg/L	0.0058	0.249 mg/L	0.0058	2.32%
K 766.490	135948.3	6.39 mg/L	0.112	6.39 mg/L	0.112	1.75%
Na 589.592	765980.2	19.2 mg/L	0.35	19.2 mg/L	0.35	1.80%
Sr 407.771	538390.5	0.317 mg/L	0.0049	0.317 mg/L	0.0049	1.55%
Sr 421.552	261547.7	0.316 mg/L	0.0055	0.316 mg/L	0.0055	1.73%
Sr 460.733	7503.0	0.323 mg/L	0.0007	0.323 mg/L	0.0007	0.20%

Sequence No.: 14
Sample ID: 0552604
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 5/29/2001 12:14:01 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0552604

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3253248.0						17660.59	0.54%
Ag 328.068	-57.8	-0.00008	mg/L	0.000020	-0.00008	mg/L	0.000020	25.90%
Al 237.312	206.9	0.0117	mg/L	0.00003	0.0117	mg/L	0.00003	0.29%
As 188.979	2.3	0.00022	mg/L	0.000113	0.00022	mg/L	0.000113	51.95%
Ba 230.424	181.2	0.00048	mg/L	0.000015	0.00048	mg/L	0.000015	3.17%
Be 234.861	-8.1	-0.00001	mg/L	0.000005	-0.00001	mg/L	0.000005	62.87%
Ca 227.549	459.7	0.350	mg/L	0.0006	0.350	mg/L	0.0006	0.18%
Cd 228.802	-3.0	-0.00001	mg/L	0.000006	-0.00001	mg/L	0.000006	81.70%
Co 228.616	35.5	0.00017	mg/L	0.000027	0.00017	mg/L	0.000027	15.89%
Cr 267.716	3.6	0.00001	mg/L	0.000034	0.00001	mg/L	0.000034	255.32%
Cu 327.396	17.2	0.00004	mg/L	0.000016	0.00004	mg/L	0.000016	42.53%
Fe 261.387	1269.4	0.0469	mg/L	0.00090	0.0469	mg/L	0.00090	1.92%
Mg 279.079	5279.7	0.0772	mg/L	0.00234	0.0772	mg/L	0.00234	3.04%
Mn 257.610	4620.9	0.00195	mg/L	0.000010	0.00195	mg/L	0.000010	0.52%
Mo 202.030	23.2	0.00038	mg/L	0.000072	0.00038	mg/L	0.000072	18.81%
Ni 231.604	126.0	0.00058	mg/L	0.000017	0.00058	mg/L	0.000017	2.95%
Pb 220.353	-3.8	-0.00014	mg/L	0.000317	-0.00014	mg/L	0.000317	228.21%
Sb 206.833	4.6	0.00026	mg/L	0.000277	0.00026	mg/L	0.000277	107.79%
Se 196.026	13.1	0.00151	mg/L	0.000408	0.00151	mg/L	0.000408	27.06%
Si 288.158	36304.0	0.312	mg/L	0.0042	0.312	mg/L	0.0042	1.34%
Sn 189.933	155.9	0.00979	mg/L	0.000308	0.00979	mg/L	0.000308	3.14%
Ti 337.280	493.4	0.00031	mg/L	0.000004	0.00031	mg/L	0.000004	1.44%
Tl 190.800	41.8	0.00324	mg/L	0.000197	0.00324	mg/L	0.000197	6.09%
V 292.402	95.7	0.00031	mg/L	0.000060	0.00031	mg/L	0.000060	19.36%
Zn 206.200	3441.0	0.0182	mg/L	0.00004	0.0182	mg/L	0.00004	0.19%
K 766.490	1269.6	0.0597	mg/L	0.00428	0.0597	mg/L	0.00428	7.17%
Na 589.592	8770.7	0.220	mg/L	0.0074	0.220	mg/L	0.0074	3.38%
Sr 407.771	1996.7	0.00786	mg/L	0.000023	0.00786	mg/L	0.000023	0.29%
Sr 421.552	919.1	0.0141	mg/L	0.00003	0.0141	mg/L	0.00003	0.24%
Sample signal is less than that of the lowest standard.								
Sr 460.733	40.7	0.00223	mg/L	0.001411	0.00223	mg/L	0.001411	63.40%

Sequence No.: 15
Sample ID: 0552903
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 5/29/2001 12:18:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0552903

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3570063.5						71433.26	2.00%
Ag 328.068	54328.3	0.0722	mg/L	0.00061	0.0722	mg/L	0.00061	0.85%

Al 237.312	186378.4	10.3 mg/L	0.15	10.3 mg/L	0.15	1.49%
As 188.979	7.4	0.00085 mg/L	0.000315	0.00085 mg/L	0.000315	36.96%
Ba 230.424	24245.7	0.0641 mg/L	0.00100	0.0641 mg/L	0.00100	1.56%
Be 234.861	500.8	0.00012 mg/L	0.000007	0.00012 mg/L	0.000007	5.67%
Ca 227.549	43670.5	33.3 mg/L	0.40	33.3 mg/L	0.40	1.21%
Cd 228.802	131.5	0.00023 mg/L	0.000004	0.00023 mg/L	0.000004	1.57%
Co 228.616	1138.7	0.00546 mg/L	0.000087	0.00546 mg/L	0.000087	1.59%
Cr 267.716	4568.3	0.0121 mg/L	0.00018	0.0121 mg/L	0.00018	1.50%
Cu 327.396	9696.1	0.0216 mg/L	0.00034	0.0216 mg/L	0.00034	1.58%
Fe 261.387	45834.3	1.69 mg/L	0.030	1.69 mg/L	0.030	1.79%
Mg 279.079	805332.5	11.8 mg/L	0.35	11.8 mg/L	0.35	2.99%
Mn 257.610	290493.5	0.123 mg/L	0.0023	0.123 mg/L	0.0023	1.86%
Mo 202.030	975.2	0.0160 mg/L	0.00038	0.0160 mg/L	0.00038	2.35%
Ni 231.604	298089.6	1.38 mg/L	0.034	1.38 mg/L	0.034	2.44%
Pb 220.353	117.7	0.00483 mg/L	0.000251	0.00483 mg/L	0.000251	5.20%
Sb 206.833	-25.4	-0.00347 mg/L	0.000336	-0.00347 mg/L	0.000336	9.70%
Se 196.026	52.9	0.00426 mg/L	0.001158	0.00426 mg/L	0.001158	27.21%
Si 288.158	216869.4	1.88 mg/L	0.033	1.88 mg/L	0.033	1.76%
Sn 189.933	78.8	0.00084 mg/L	0.000271	0.00084 mg/L	0.000271	32.26%
Ti 337.280	5399.0	0.00535 mg/L	0.000083	0.00535 mg/L	0.000083	1.55%
Tl 190.800	77.3	0.00627 mg/L	0.000120	0.00627 mg/L	0.000120	1.91%
V 292.402	351.0	0.00105 mg/L	0.000036	0.00105 mg/L	0.000036	3.40%
Zn 206.200	202104.0	1.07 mg/L	0.039	1.07 mg/L	0.039	3.64%
K 766.490	68084.8	3.18 mg/L	0.061	3.18 mg/L	0.061	1.93%
Na 589.592	Saturated2.					
Saturated in preshot (code 2)						
Sr 407.771	306878.0	0.183 mg/L	0.0028	0.183 mg/L	0.0028	1.52%
Sr 421.552	149012.6	0.186 mg/L	0.0035	0.186 mg/L	0.0035	1.86%
Sr 460.733	4364.7	0.188 mg/L	0.0043	0.188 mg/L	0.0043	2.26%

Sequence No.: 16
Sample ID: 0536403
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 5/29/2001 12:22:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536403

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3152377.8						44121.86	1.40%
Ag 328.068	2034.5	0.00270	mg/L	0.000079	0.00270	mg/L	0.000079	2.92%
Al 237.312	571.5	0.00087	mg/L	0.001816	0.00087	mg/L	0.001816	208.23%
As 188.979	-31.1	-0.00290	mg/L	0.000054	-0.00290	mg/L	0.000054	1.87%
Ba 230.424	2824.0	0.00933	mg/L	0.000125	0.00933	mg/L	0.000125	1.34%
Be 234.861	278.0	0.00015	mg/L	0.000006	0.00015	mg/L	0.000006	4.18%
Ca 227.549	615453.3	470	mg/L	5.5	470	mg/L	5.5	1.18%
Cd 228.802	-1.6	-0.00048	mg/L	0.000011	-0.00048	mg/L	0.000011	2.37%
Co 228.616	1087.1	0.00541	mg/L	0.000094	0.00541	mg/L	0.000094	1.74%
Cr 267.716	421.2	0.00048	mg/L	0.000070	0.00048	mg/L	0.000070	14.48%
Cu 327.396	-18.8	-0.00004	mg/L	0.000157	-0.00004	mg/L	0.000157	377.87%
Fe 261.387	1733.2	0.122	mg/L	0.0005	0.122	mg/L	0.0005	0.41%
Mg 279.079	8662644.9	127	mg/L	3.2	127	mg/L	3.2	2.53%
Mn 257.610	4497476.2	1.90	mg/L	0.043	1.90	mg/L	0.043	2.27%
Mo 202.030	-47.8	-0.00079	mg/L	0.000150	-0.00079	mg/L	0.000150	19.01%
Ni 231.604	2525.2	0.0117	mg/L	0.00014	0.0117	mg/L	0.00014	1.22%
Pb 220.353	197.2	0.00735	mg/L	0.000095	0.00735	mg/L	0.000095	1.29%
Sb 206.833	33.3	-0.00291	mg/L	0.000373	-0.00291	mg/L	0.000373	12.81%
Se 196.026	62.7	0.00724	mg/L	0.000970	0.00724	mg/L	0.000970	13.41%
Si 288.158	347618.0	3.22	mg/L	0.054	3.22	mg/L	0.054	1.68%
Sn 189.933	-143.7	-0.0420	mg/L	0.00006	-0.0420	mg/L	0.00006	0.13%
Ti 337.280	-559.3	0.0244	mg/L	0.00034	0.0244	mg/L	0.00034	1.41%
Tl 190.800	39.0	0.0189	mg/L	0.00069	0.0189	mg/L	0.00069	3.65%
V 292.402	-73.4	-0.00023	mg/L	0.000031	-0.00023	mg/L	0.000031	13.68%
Zn 206.200	2181.6	0.0103	mg/L	0.00015	0.0103	mg/L	0.00015	1.42%
K 766.490	116179.9	5.11	mg/L	0.011	5.11	mg/L	0.011	0.21%
Na 589.592	314417.8	7.90	mg/L	0.119	7.90	mg/L	0.119	1.50%
Sr 407.771	1051930.3	0.612	mg/L	0.0010	0.612	mg/L	0.0010	0.16%
Sr 421.552	523215.2	0.619	mg/L	0.0011	0.619	mg/L	0.0011	0.18%
Sr 460.733	16340.1	0.697	mg/L	0.0053	0.697	mg/L	0.0053	0.76%

Sequence No.: 17
Sample ID: 0536404
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 5/29/2001 12:26:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536404

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3087889.3						46904.31	1.52%
Ag 328.068	4048.2	0.00538	mg/L	0.000267	0.00538	mg/L	0.000267	4.97%
Al 237.312	-228.8	0.0798	mg/L	0.00070	0.0798	mg/L	0.00070	0.88%
As 188.979	-8.7	-0.00068	mg/L	0.000159	-0.00068	mg/L	0.000159	23.39%
Ba 230.424	-359.6	0.00100	mg/L	0.000167	0.00100	mg/L	0.000167	16.62%
Be 234.861	3227.6	0.00052	mg/L	0.000010	0.00052	mg/L	0.000010	1.95%
Ca 227.549	575547.3	439	mg/L	6.5	439	mg/L	6.5	1.49%
Cd 228.802	-170.2	-0.00106	mg/L	0.000010	-0.00106	mg/L	0.000010	0.99%
Co 228.616	37457.3	0.177	mg/L	0.0045	0.177	mg/L	0.0045	2.57%
Cr 267.716	4114.1	0.00948	mg/L	0.000218	0.00948	mg/L	0.000218	2.29%
Cu 327.396	278.9	0.00062	mg/L	0.000221	0.00062	mg/L	0.000221	35.67%
Fe 261.387	523797.1	19.6	mg/L	0.45	19.6	mg/L	0.45	2.29%
Mg 279.079	30402147.5	444	mg/L	11.0	444	mg/L	11.0	2.48%
Mn 257.610	22319892.7	9.44	mg/L	0.193	9.44	mg/L	0.193	2.05%
Mo 202.030	71.8	0.00118	mg/L	0.000312	0.00118	mg/L	0.000312	26.40%
Ni 231.604	87132.0	0.403	mg/L	0.0109	0.403	mg/L	0.0109	2.71%
Pb 220.353	372.2	0.0139	mg/L	0.00003	0.0139	mg/L	0.00003	0.24%
Sb 206.833	73.5	-0.00850	mg/L	0.000365	-0.00850	mg/L	0.000365	4.29%
Se 196.026	161.8	0.0187	mg/L	0.00107	0.0187	mg/L	0.00107	5.73%
Si 288.158	589008.1	5.27	mg/L	0.101	5.27	mg/L	0.101	1.91%
Sn 189.933	-95.8	-0.0368	mg/L	0.00116	-0.0368	mg/L	0.00116	3.14%
Ti 337.280	-777.5	0.0517	mg/L	0.00085	0.0517	mg/L	0.00085	1.64%
Tl 190.800	20.7	0.0822	mg/L	0.00168	0.0822	mg/L	0.00168	2.04%
V 292.402	-1398.7	-0.00291	mg/L	0.000052	-0.00291	mg/L	0.000052	1.78%
Zn 206.200	47206.0	0.244	mg/L	0.0093	0.244	mg/L	0.0093	3.80%
K 766.490	142088.4	5.38	mg/L	0.034	5.38	mg/L	0.034	0.64%
Na 589.592	3876539.9	97.4	mg/L	0.38	97.4	mg/L	0.38	0.39%
Sr 407.771	1366362.9	0.793	mg/L	0.0017	0.793	mg/L	0.0017	0.22%
Sr 421.552	674098.1	0.794	mg/L	0.0002	0.794	mg/L	0.0002	0.02%
Sr 460.733	20356.6	0.866	mg/L	0.0067	0.866	mg/L	0.0067	0.78%

Sequence No.: 18
Sample ID: 0536405
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 5/29/2001 12:31:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536405

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	4033274.5						263352.93	6.53%
Ag 328.068	1310.8	0.00174	mg/L	0.000033	0.00174	mg/L	0.000033	1.87%
Al 237.312	1683.7	0.0702	mg/L	0.00044	0.0702	mg/L	0.00044	0.62%
As 188.979	-11.8	-0.00110	mg/L	0.000777	-0.00110	mg/L	0.000777	70.35%
Ba 230.424	2920.5	0.00869	mg/L	0.000056	0.00869	mg/L	0.000056	0.65%
Be 234.861	408.5	0.00022	mg/L	0.000005	0.00022	mg/L	0.000005	2.27%
Ca 227.549	324305.6	248	mg/L	0.9	248	mg/L	0.9	0.38%
Cd 228.802	114.3	-0.00009	mg/L	0.000001	-0.00009	mg/L	0.000001	0.94%
Co 228.616	116.3	0.00076	mg/L	0.000027	0.00076	mg/L	0.000027	3.54%
Cr 267.716	115.3	-0.00056	mg/L	0.000013	-0.00056	mg/L	0.000013	2.34%
Cu 327.396	257.5	0.00057	mg/L	0.000028	0.00057	mg/L	0.000028	4.93%
Fe 261.387	788.0	0.0429	mg/L	0.00253	0.0429	mg/L	0.00253	5.89%
Mg 279.079	11857904.5	173	mg/L	4.5	173	mg/L	4.5	2.60%
Mn 257.610	1086716.0	0.457	mg/L	0.0142	0.457	mg/L	0.0142	3.11%
Mo 202.030	-14.6	-0.00024	mg/L	0.000130	-0.00024	mg/L	0.000130	54.10%
Ni 231.604	16769.9	0.0776	mg/L	0.00161	0.0776	mg/L	0.00161	2.08%
Pb 220.353	136.4	0.00509	mg/L	0.000002	0.00509	mg/L	0.000002	0.04%

Sb 206.833	32.3	-0.00155 mg/L	0.000333	-0.00155 mg/L	0.000333	21.49%
Se 196.026	44.2	0.00509 mg/L	0.001415	0.00509 mg/L	0.001415	27.82%
Si 288.158	521037.9	4.59 mg/L	0.134	4.59 mg/L	0.134	2.92%
Sn 189.933	-12.4	-0.0181 mg/L	0.00048	-0.0181 mg/L	0.00048	2.67%
Ti 337.280	137.4	0.00799 mg/L	0.000090	0.00799 mg/L	0.000090	1.13%
Tl 190.800	26.2	0.00586 mg/L	0.000169	0.00586 mg/L	0.000169	2.89%
V 292.402	26.5	0.00008 mg/L	0.000072	0.00008 mg/L	0.000072	84.28%
Zn 206.200	21216.3	0.110 mg/L	0.0041	0.110 mg/L	0.0041	3.68%
K 766.490	79602.5	3.24 mg/L	0.007	3.24 mg/L	0.007	0.23%
Na 589.592	1003281.3	25.2 mg/L	0.84	25.2 mg/L	0.84	3.33%
Sr 407.771	529902.6	0.312 mg/L	0.0108	0.312 mg/L	0.0108	3.48%
Sr 421.552	266197.4	0.321 mg/L	0.0005	0.321 mg/L	0.0005	0.14%
Sr 460.733	7966.4	0.342 mg/L	0.0005	0.342 mg/L	0.0005	0.15%

Sequence No.: 19
Sample ID: 0536406
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 5/29/2001 12:35:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536406

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3282415.1						95769.29	2.92%
Ag 328.068	1687.2	0.00224	mg/L	0.000048	0.00224	mg/L	0.000048	2.16%
Al 237.312	-355.1	0.0419	mg/L	0.00308	0.0419	mg/L	0.00308	7.35%
As 188.979	-5.7	-0.00051	mg/L	0.000356	-0.00051	mg/L	0.000356	69.89%
Ba 230.424	3230.5	0.00974	mg/L	0.000060	0.00974	mg/L	0.000060	0.62%
Be 234.861	1545.6	0.00014	mg/L	0.000009	0.00014	mg/L	0.000009	6.34%
Ca 227.549	363612.0	277	mg/L	6.4	277	mg/L	6.4	2.29%
Cd 228.802	-14.8	-0.00030	mg/L	0.000003	-0.00030	mg/L	0.000003	0.96%
Co 228.616	2946.5	0.0142	mg/L	0.00020	0.0142	mg/L	0.00020	1.37%
Cr 267.716	719.1	0.00203	mg/L	0.000067	0.00203	mg/L	0.000067	3.31%
Cu 327.396	-94.9	-0.00021	mg/L	0.000001	-0.00021	mg/L	0.000001	0.45%
Fe 261.387	295007.7	11.0	mg/L	0.28	11.0	mg/L	0.28	2.57%
Mg 279.079	4649525.5	67.9	mg/L	1.58	67.9	mg/L	1.58	2.32%
Mn 257.610	6513252.6	2.76	mg/L	0.053	2.76	mg/L	0.053	1.91%
Mo 202.030	-33.9	-0.00056	mg/L	0.000010	-0.00056	mg/L	0.000010	1.82%
Ni 231.604	5756.2	0.0268	mg/L	0.00020	0.0268	mg/L	0.00020	0.76%
Pb 220.353	169.5	0.00631	mg/L	0.000060	0.00631	mg/L	0.000060	0.96%
Sb 206.833	33.0	-0.00259	mg/L	0.000988	-0.00259	mg/L	0.000988	38.15%
Se 196.026	35.0	0.00404	mg/L	0.000480	0.00404	mg/L	0.000480	11.87%
Si 288.158	398482.6	3.56	mg/L	0.091	3.56	mg/L	0.091	2.56%
Sn 189.933	-36.3	-0.0217	mg/L	0.00036	-0.0217	mg/L	0.00036	1.65%
Ti 337.280	-260.6	0.0227	mg/L	0.00045	0.0227	mg/L	0.00045	1.97%
Tl 190.800	40.2	0.0272	mg/L	0.00088	0.0272	mg/L	0.00088	3.22%
V 292.402	-272.0	0.00000	mg/L	0.000012	0.00000	mg/L	0.000012	329.68%
Zn 206.200	3439.7	0.0168	mg/L	0.00010	0.0168	mg/L	0.00010	0.62%
K 766.490	55319.1	2.41	mg/L	0.004	2.41	mg/L	0.004	0.18%
Na 589.592	96415.7	2.42	mg/L	0.011	2.42	mg/L	0.011	0.45%
Sr 407.771	370691.6	0.220	mg/L	0.0006	0.220	mg/L	0.0006	0.26%
Sr 421.552	183667.0	0.226	mg/L	0.0007	0.226	mg/L	0.0007	0.29%
Sr 460.733	5538.7	0.239	mg/L	0.0056	0.239	mg/L	0.0056	2.36%

Sequence No.: 20
Sample ID: 0536407
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 5/29/2001 12:39:55 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536407

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3448315.7						27053.51	0.78%
Ag 328.068	2434.5	0.00324	mg/L	0.000158	0.00324	mg/L	0.000158	4.88%
Al 237.312	-8914.5	0.153	mg/L	0.0066	0.153	mg/L	0.0066	4.34%
As 188.979	36.3	0.00349	mg/L	0.000993	0.00349	mg/L	0.000993	28.48%

Ba 230.424	1547.7	0.00602 mg/L	0.000067	0.00602 mg/L	0.000067	1.11%
Be 234.861	11731.4	0.00052 mg/L	0.000037	0.00052 mg/L	0.000037	7.08%
Ca 227.549	335467.1	254 mg/L	2.3	254 mg/L	2.3	0.91%
Cd 228.802	-238.4	-0.00075 mg/L	0.000027	-0.00075 mg/L	0.000027	3.64%
Co 228.616	38970.0	0.185 mg/L	0.0039	0.185 mg/L	0.0039	2.12%
Cr 267.716	2394.1	0.00945 mg/L	0.000295	0.00945 mg/L	0.000295	3.12%
Cu 327.396	-1639.3	-0.00364 mg/L	0.000023	-0.00364 mg/L	0.000023	0.62%
Fe 261.387	2473995.2	91.5 mg/L	1.38	91.5 mg/L	1.38	1.51%
Mg 279.079	10404986.4	152 mg/L	3.7	152 mg/L	3.7	2.46%
Mn 257.610	22408995.8	9.49 mg/L	0.176	9.49 mg/L	0.176	1.85%
Mo 202.030	-127.5	-0.00210 mg/L	0.000012	-0.00210 mg/L	0.000012	0.57%
Ni 231.604	87040.1	0.404 mg/L	0.0068	0.404 mg/L	0.0068	1.68%
Pb 220.353	500.2	0.0186 mg/L	0.00011	0.0186 mg/L	0.00011	0.60%
Sb 206.833	153.2	-0.00695 mg/L	0.000364	-0.00695 mg/L	0.000364	5.24%
Se 196.026	13.1	0.00161 mg/L	0.000735	0.00161 mg/L	0.000735	45.56%
Si 288.158	752841.4	6.59 mg/L	0.084	6.59 mg/L	0.084	1.28%
Sn 189.933	-16.6	-0.0189 mg/L	0.00013	-0.0189 mg/L	0.00013	0.69%
Ti 337.280	37.7	0.0549 mg/L	0.00087	0.0549 mg/L	0.00087	1.58%
Tl 190.800	24.2	0.0900 mg/L	0.00272	0.0900 mg/L	0.00272	3.03%
V 292.402	-2778.5	-0.00155 mg/L	0.000051	-0.00155 mg/L	0.000051	3.27%
Zn 206.200	60449.7	0.312 mg/L	0.0083	0.312 mg/L	0.0083	2.67%
K 766.490	72378.2	2.96 mg/L	0.018	2.96 mg/L	0.018	0.62%
Na 589.592	125818.6	3.16 mg/L	0.006	3.16 mg/L	0.006	0.18%
Sr 407.771	310914.2	0.186 mg/L	0.0009	0.186 mg/L	0.0009	0.50%
Sr 421.552	152986.9	0.190 mg/L	0.0002	0.190 mg/L	0.0002	0.11%
Sr 460.733	4608.8	0.199 mg/L	0.0008	0.199 mg/L	0.0008	0.40%

Sequence No.: 21
Sample ID: 0536408
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 5/29/2001 12:44:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536408

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3362132.3						46384.88	1.38%
Ag 328.068	3296.1	0.00438	mg/L	0.000172	0.00438	mg/L	0.000172	3.92%
Al 237.312	-4534.5	0.198	mg/L	0.0023	0.198	mg/L	0.0023	1.17%
As 188.979	0.6	0.00017	mg/L	0.001235	0.00017	mg/L	0.001235	708.66%
Ba 230.424	1948.6	0.00673	mg/L	0.000047	0.00673	mg/L	0.000047	0.70%
Be 234.861	8441.6	0.00045	mg/L	0.000016	0.00045	mg/L	0.000016	3.55%
Ca 227.549	309543.2	235	mg/L	3.2	235	mg/L	3.2	1.35%
Cd 228.802	-223.2	-0.00076	mg/L	0.000010	-0.00076	mg/L	0.000010	1.29%
Co 228.616	43354.4	0.205	mg/L	0.0051	0.205	mg/L	0.0051	2.48%
Cr 267.716	3422.8	0.0108	mg/L	0.00020	0.0108	mg/L	0.00020	1.81%
Cu 327.396	-1002.7	-0.00223	mg/L	0.000041	-0.00223	mg/L	0.000041	1.84%
Fe 261.387	1749727.4	64.9	mg/L	1.45	64.9	mg/L	1.45	2.23%
Mg 279.079	13229260.0	193	mg/L	4.2	193	mg/L	4.2	2.16%
Mn 257.610	25994956.0	11.0	mg/L	0.20	11.0	mg/L	0.20	1.82%
Mo 202.030	-95.3	-0.00157	mg/L	0.000200	-0.00157	mg/L	0.000200	12.73%
Ni 231.604	93974.2	0.435	mg/L	0.0098	0.435	mg/L	0.0098	2.26%
Pb 220.353	422.5	0.0157	mg/L	0.00005	0.0157	mg/L	0.00005	0.32%
Sb 206.833	108.6	-0.00779	mg/L	0.000328	-0.00779	mg/L	0.000328	4.22%
Se 196.026	48.9	0.00570	mg/L	0.002269	0.00570	mg/L	0.002269	39.82%
Si 288.158	533494.1	4.69	mg/L	0.082	4.69	mg/L	0.082	1.74%
Sn 189.933	-37.1	-0.0188	mg/L	0.00007	-0.0188	mg/L	0.00007	0.39%
Ti 337.280	-124.5	0.0591	mg/L	0.00103	0.0591	mg/L	0.00103	1.74%
Tl 190.800	29.8	0.100	mg/L	0.0013	0.100	mg/L	0.0013	1.28%
V 292.402	-2322.3	-0.00224	mg/L	0.000008	-0.00224	mg/L	0.000008	0.36%
Zn 206.200	64539.8	0.335	mg/L	0.0117	0.335	mg/L	0.0117	3.50%
K 766.490	586959.9	27.1	mg/L	0.54	27.1	mg/L	0.54	1.98%
Na 589.592	486094.2	12.2	mg/L	0.25	12.2	mg/L	0.25	2.06%
Sr 407.771	332732.3	0.198	mg/L	0.0041	0.198	mg/L	0.0041	2.07%
Sr 421.552	163351.4	0.202	mg/L	0.0010	0.202	mg/L	0.0010	0.48%
Sr 460.733	4969.6	0.214	mg/L	0.0013	0.214	mg/L	0.0013	0.58%

Sequence No.: 22

Autosampler Location: 33

Sample ID: 0536409
Analyst:
Sample Wt:
Dilution:

Date Collected: 5/29/2001 12:48:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536409

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3316657.5						50283.30	1.52%
Ag 328.068	3734.3	0.00496	mg/L	0.000110	0.00496	mg/L	0.000110	2.22%
Al 237.312	-5309.5	0.208	mg/L	0.0030	0.208	mg/L	0.0030	1.45%
As 188.979	30.8	0.00301	mg/L	0.000345	0.00301	mg/L	0.000345	11.45%
Ba 230.424	1761.4	0.00644	mg/L	0.000138	0.00644	mg/L	0.000138	2.15%
Be 234.861	9329.7	0.00044	mg/L	0.000011	0.00044	mg/L	0.000011	2.38%
Ca 227.549	350915.5	267	mg/L	0.7	267	mg/L	0.7	0.28%
Cd 228.802	-261.7	-0.00087	mg/L	0.000004	-0.00087	mg/L	0.000004	0.51%
Co 228.616	47851.2	0.227	mg/L	0.0036	0.227	mg/L	0.0036	1.58%
Cr 267.716	3751.7	0.0120	mg/L	0.00036	0.0120	mg/L	0.00036	3.04%
Cu 327.396	-1160.5	-0.00258	mg/L	0.000050	-0.00258	mg/L	0.000050	1.92%
Fe 261.387	1954925.6	72.5	mg/L	1.19	72.5	mg/L	1.19	1.65%
Mg 279.079	14212657.4	208	mg/L	5.4	208	mg/L	5.4	2.58%
Mn 257.610	27771006.7	11.8	mg/L	0.23	11.8	mg/L	0.23	1.98%
Mo 202.030	-99.7	-0.00164	mg/L	0.000045	-0.00164	mg/L	0.000045	2.73%
Ni 231.604	103318.2	0.479	mg/L	0.0080	0.479	mg/L	0.0080	1.67%
Pb 220.353	460.2	0.0171	mg/L	0.00003	0.0171	mg/L	0.00003	0.16%
Sb 206.833	122.0	-0.00840	mg/L	0.001033	-0.00840	mg/L	0.001033	12.31%
Se 196.026	40.9	0.00479	mg/L	0.000189	0.00479	mg/L	0.000189	3.95%
Si 288.158	585876.2	5.16	mg/L	0.027	5.16	mg/L	0.027	0.53%
Sn 189.933	-58.7	-0.0224	mg/L	0.00031	-0.0224	mg/L	0.00031	1.40%
Ti 337.280	-26.5	0.0639	mg/L	0.00104	0.0639	mg/L	0.00104	1.62%
Tl 190.800	31.3	0.108	mg/L	0.0025	0.108	mg/L	0.0025	2.35%
V 292.402	-2642.5	-0.00265	mg/L	0.000031	-0.00265	mg/L	0.000031	1.16%
Zn 206.200	64646.1	0.335	mg/L	0.0090	0.335	mg/L	0.0090	2.69%
K 766.490	113889.0	4.76	mg/L	0.026	4.76	mg/L	0.026	0.55%
Na 589.592	138978.1	3.49	mg/L	0.019	3.49	mg/L	0.019	0.55%
Sr 407.771	362200.1	0.215	mg/L	0.0048	0.215	mg/L	0.0048	2.23%
Sr 421.552	179643.4	0.221	mg/L	0.0049	0.221	mg/L	0.0049	2.23%
Sr 460.733	5356.5	0.231	mg/L	0.0054	0.231	mg/L	0.0054	2.34%

Sequence No.: 23
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 12:52:52 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3782419.6						8896.87	0.24%
Ag 328.068	285488.9	0.380	mg/L	0.0007	0.380	mg/L	0.0007	0.18%
QC value within limits for Ag 328.068 Recovery = 94.89%								
Al 237.312	177569.9	9.81	mg/L	0.020	9.81	mg/L	0.020	0.20%
QC value within limits for Al 237.312 Recovery = 98.14%								
As 188.979	3939.4	0.374	mg/L	0.0024	0.374	mg/L	0.0024	0.64%
QC value within limits for As 188.979 Recovery = 93.52%								
Ba 230.424	381459.4	1.01	mg/L	0.001	1.01	mg/L	0.001	0.15%
QC value within limits for Ba 230.424 Recovery = 100.73%								
Be 234.861	90742.3	0.0497	mg/L	0.00002	0.0497	mg/L	0.00002	0.04%
QC value within limits for Be 234.861 Recovery = 99.37%								
Ca 227.549	13480.4	10.2	mg/L	0.04	10.2	mg/L	0.04	0.39%
QC value within limits for Ca 227.549 Recovery = 101.74%								
Cd 228.802	23109.6	0.0490	mg/L	0.00032	0.0490	mg/L	0.00032	0.64%
QC value within limits for Cd 228.802 Recovery = 98.02%								
Co 228.616	43077.9	0.203	mg/L	0.0005	0.203	mg/L	0.0005	0.27%
QC value within limits for Co 228.616 Recovery = 101.34%								
Cr 267.716	188546.9	0.506	mg/L	0.0001	0.506	mg/L	0.0001	0.01%
QC value within limits for Cr 267.716 Recovery = 101.29%								
Cu 327.396	226516.8	0.503	mg/L	0.0002	0.503	mg/L	0.0002	0.04%

	QC value within limits for Cu 327.396 Recovery = 100.66%					
Fe 261.387	110917.0	4.13 mg/L	0.003	4.13 mg/L	0.003	0.06%
	QC value within limits for Fe 261.387 Recovery = 103.23%					
Mg 279.079	661229.9	9.66 mg/L	0.039	9.66 mg/L	0.039	0.40%
	QC value within limits for Mg 279.079 Recovery = 96.56%					
Mn 257.610	1181595.0	0.500 mg/L	0.0012	0.500 mg/L	0.0012	0.24%
	QC value within limits for Mn 257.610 Recovery = 99.93%					
Mo 202.030	59759.2	0.983 mg/L	0.0087	0.983 mg/L	0.0087	0.89%
	QC value within limits for Mo 202.030 Recovery = 98.78%					
Ni 231.604	108811.9	0.504 mg/L	0.0001	0.504 mg/L	0.0001	0.02%
	QC value within limits for Ni 231.604 Recovery = 100.71%					
Pb 220.353	13016.0	0.489 mg/L	0.0045	0.489 mg/L	0.0045	0.91%
	QC value within limits for Pb 220.353 Recovery = 97.75%					
Sb 206.833	20054.7	1.14 mg/L	0.006	1.14 mg/L	0.006	0.56%
	QC value within limits for Sb 206.833 Recovery = 95.04%					
Se 196.026	3441.1	0.395 mg/L	0.0038	0.395 mg/L	0.0038	0.96%
	QC value within limits for Se 196.026 Recovery = 98.75%					
Si 288.158	3380.8	0.0376 mg/L	0.00028	0.0376 mg/L	0.00028	0.74%
	QC value less than the lower limit for Si 288.158 Recovery = 0.75%					
Sn 189.933	13218.6	0.831 mg/L	0.0242	0.831 mg/L	0.0242	2.91%
	QC value less than the lower limit for Sn 189.933 Recovery = 83.18%					
Ti 337.280	1708722.8	0.984 mg/L	0.0002	0.984 mg/L	0.0002	0.02%
	QC value within limits for Ti 337.280 Recovery = 98.43%					
Tl 190.800	6505.1	0.512 mg/L	0.0102	0.512 mg/L	0.0102	2.00%
	QC value within limits for Tl 190.800 Recovery = 102.36%					
V 292.402	314331.1	1.00 mg/L	0.000	1.00 mg/L	0.000	0.03%
	QC value within limits for V 292.402 Recovery = 100.16%					
Zn 206.200	180061.2	0.952 mg/L	0.0036	0.952 mg/L	0.0036	0.38%
	QC value within limits for Zn 206.200 Recovery = 95.24%					
K 766.490	1110548.5	52.4 mg/L	1.53	52.4 mg/L	1.53	2.91%
	QC value within limits for K 766.490 Recovery = 104.87%					
Na 589.592	1900630.4	47.7 mg/L	0.15	47.7 mg/L	0.15	0.31%
	QC value within limits for Na 589.592 Recovery = 95.47%					
Sr 407.771	1559485.0	0.904 mg/L	0.0018	0.904 mg/L	0.0018	0.20%
	QC value within limits for Sr 407.771 Recovery = 90.45%					
Sr 421.552	771551.2	0.906 mg/L	0.0021	0.906 mg/L	0.0021	0.23%
	QC value within limits for Sr 421.552 Recovery = 90.64%					
Sr 460.733	23041.4	0.978 mg/L	0.0339	0.978 mg/L	0.0339	3.46%
	QC value within limits for Sr 460.733 Recovery = 97.85%					

QC Failed. Continue with analysis.

Sequence No.: 24
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 12:57:08 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3201079.4						4815.52	0.15%
Ag 328.068	-85.7	-0.00011	mg/L	0.000023	-0.00011	mg/L	0.000023	19.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	129.6	0.00725	mg/L	0.000593	0.00725	mg/L	0.000593	8.17%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.1	0.00020	mg/L	0.000291	0.00020	mg/L	0.000291	148.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	119.9	0.00032	mg/L	0.000016	0.00032	mg/L	0.000016	5.20%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-21.7	-0.00001	mg/L	0.000001	-0.00001	mg/L	0.000001	5.56%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	7.5	0.00543	mg/L	0.009893	0.00543	mg/L	0.009893	182.08%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-9.9	-0.00002	mg/L	0.000015	-0.00002	mg/L	0.000015	69.02%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-5.2	-0.00002	mg/L	0.000027	-0.00002	mg/L	0.000027	118.50%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	-56.2	-0.00015	mg/L	0.000080	-0.00015	mg/L	0.000080	54.70%
QC value within limits for Cr 267.716 Recovery = Not calculated								

Cu 327.396	-104.7	-0.00023 mg/L	0.000034	-0.00023 mg/L	0.000034	14.49%
QC value within limits for Cu 327.396 Recovery = Not calculated						
Fe 261.387	400.6	0.0148 mg/L	0.00025	0.0148 mg/L	0.00025	1.69%
QC value within limits for Fe 261.387 Recovery = Not calculated						
Mg 279.079	210.1	0.00307 mg/L	0.000102	0.00307 mg/L	0.000102	3.32%
QC value within limits for Mg 279.079 Recovery = Not calculated						
Mn 257.610	121.3	0.00005 mg/L	0.000004	0.00005 mg/L	0.000004	7.49%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.030	47.4	0.00078 mg/L	0.000074	0.00078 mg/L	0.000074	9.50%
QC value within limits for Mo 202.030 Recovery = Not calculated						
Ni 231.604	25.1	0.00012 mg/L	0.000030	0.00012 mg/L	0.000030	25.72%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	-9.8	-0.00036 mg/L	0.000060	-0.00036 mg/L	0.000060	16.36%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.833	-5.6	-0.00032 mg/L	0.000020	-0.00032 mg/L	0.000020	6.23%
QC value within limits for Sb 206.833 Recovery = Not calculated						
Se 196.026	-4.3	-0.00049 mg/L	0.000112	-0.00049 mg/L	0.000112	22.59%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 288.158	-587.4	-0.00503 mg/L	0.000076	-0.00503 mg/L	0.000076	1.51%
QC value within limits for Si 288.158 Recovery = Not calculated						
Sn 189.933	120.8	0.00761 mg/L	0.000187	0.00761 mg/L	0.000187	2.46%
QC value within limits for Sn 189.933 Recovery = Not calculated						
Ti 337.280	299.3	0.00017 mg/L	0.000071	0.00017 mg/L	0.000071	40.99%
QC value within limits for Ti 337.280 Recovery = Not calculated						
Tl 190.800	37.6	0.00290 mg/L	0.000837	0.00290 mg/L	0.000837	28.90%
QC value within limits for Tl 190.800 Recovery = Not calculated						
V 292.402	96.9	0.00031 mg/L	0.000019	0.00031 mg/L	0.000019	6.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200	-25.3	-0.00014 mg/L	0.000010	-0.00014 mg/L	0.000010	7.65%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490	891.5	0.0421 mg/L	0.00275	0.0421 mg/L	0.00275	6.54%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592	983.0	0.0247 mg/L	0.00177	0.0247 mg/L	0.00177	7.17%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771	3.0	0.00671 mg/L	0.000017	0.00671 mg/L	0.000017	0.26%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552	-32.5	0.0130 mg/L	0.00003	0.0130 mg/L	0.00003	0.22%
Sample signal is less than that of the lowest standard.						
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated						
Sr 460.733	-32.0	-0.00091 mg/L	0.006135	-0.00091 mg/L	0.006135	673.97%
QC value within limits for Sr 460.733 Recovery = Not calculated						

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 5/29/2001 1:17:57 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 5
Sample ID: 0536410
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 5/29/2001 1:17:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536410

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3282647.6						33904.81	1.03%
Ag 328.068	-109.4	-0.00015	mg/L	0.000050	-0.00015	mg/L	0.000050	34.36%
Al 237.312	193.8	0.0109	mg/L	0.00016	0.0109	mg/L	0.00016	1.51%
As 188.979	-1.2	-0.00011	mg/L	0.000241	-0.00011	mg/L	0.000241	212.60%
Ba 230.424	157.9	0.00042	mg/L	0.000003	0.00042	mg/L	0.000003	0.81%
Be 234.861	-10.5	-0.00001	mg/L	0.000003	-0.00001	mg/L	0.000003	42.11%

Ca 227.549	93.2	0.0707 mg/L	0.00359	0.0707 mg/L	0.00359	5.08%
Cd 228.802	10.0	0.00002 mg/L	0.000025	0.00002 mg/L	0.000025	117.56%
Co 228.616	17.4	0.00008 mg/L	0.000014	0.00008 mg/L	0.000014	16.74%
Cr 267.716	-41.3	-0.00011 mg/L	0.000015	-0.00011 mg/L	0.000015	14.14%
Cu 327.396	115.9	0.00026 mg/L	0.000002	0.00026 mg/L	0.000002	0.93%
Fe 261.387	642.1	0.0237 mg/L	0.00018	0.0237 mg/L	0.00018	0.76%
Mg 279.079	713.7	0.0104 mg/L	0.00020	0.0104 mg/L	0.00020	1.96%
Mn 257.610	3389.2	0.00143 mg/L	0.000004	0.00143 mg/L	0.000004	0.30%
Mo 202.030	0.9	0.00001 mg/L	0.000029	0.00001 mg/L	0.000029	199.94%
Ni 231.604	64.9	0.00030 mg/L	0.000033	0.00030 mg/L	0.000033	10.90%
Pb 220.353	-6.6	-0.00024 mg/L	0.000164	-0.00024 mg/L	0.000164	67.09%
Sb 206.833	2.7	0.00015 mg/L	0.000814	0.00015 mg/L	0.000814	536.71%
Se 196.026	8.9	0.00103 mg/L	0.000665	0.00103 mg/L	0.000665	64.70%
Si 288.158	4068.0	0.0349 mg/L	0.00164	0.0349 mg/L	0.00164	4.70%
Sn 189.933	41.9	0.00264 mg/L	0.000326	0.00264 mg/L	0.000326	12.35%
Ti 337.280	425.2	0.00025 mg/L	0.000016	0.00025 mg/L	0.000016	6.27%
Tl 190.800	33.6	0.00260 mg/L	0.001205	0.00260 mg/L	0.001205	46.29%
V 292.402	91.4	0.00029 mg/L	0.000124	0.00029 mg/L	0.000124	42.18%
Zn 206.200	341.5	0.00180 mg/L	0.000025	0.00180 mg/L	0.000025	1.37%
K 766.490	588.6	0.0278 mg/L	0.01154	0.0278 mg/L	0.01154	41.54%
Na 589.592	2156.4	0.0542 mg/L	0.00062	0.0542 mg/L	0.00062	1.14%
Sr 407.771	227.9	0.00684 mg/L	0.000003	0.00684 mg/L	0.000003	0.04%
Sr 421.552	-40.8	0.0130 mg/L	0.00009	0.0130 mg/L	0.00009	0.66%
Sample signal is less than that of the lowest standard.						
Sr 460.733	-48.2	-0.00161 mg/L	0.001743	-0.00161 mg/L	0.001743	108.08%

Sequence No.: 6
Sample ID: 0536402 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 35
Date Collected: 5/29/2001 1:22:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536402 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3543164.9						10715.56	0.30%
Ag 328.068	514.5	0.00068	mg/L	0.000036	0.00684	mg/L	0.000356	5.20%
Al 237.312	-1567.6	0.0532	mg/L	0.00061	0.532	mg/L	0.0061	1.14%
As 188.979	-2.3	-0.00019	mg/L	0.000342	-0.00191	mg/L	0.003419	178.86%
Ba 230.424	-232.3	-0.00020	mg/L	0.000042	-0.00202	mg/L	0.000420	20.79%
Be 234.861	2451.5	0.00006	mg/L	0.000019	0.00062	mg/L	0.000192	31.21%
Ca 227.549	69718.7	52.9	mg/L	0.54	529	mg/L	5.4	1.03%
Cd 228.802	-56.7	-0.00017	mg/L	0.000003	-0.00173	mg/L	0.000034	1.99%
Co 228.616	11492.4	0.0545	mg/L	0.00075	0.545	mg/L	0.0075	1.37%
Cr 267.716	556.5	0.00214	mg/L	0.000042	0.0214	mg/L	0.00042	1.95%
Cu 327.396	-396.3	-0.00088	mg/L	0.000058	-0.00881	mg/L	0.000582	6.60%
Fe 261.387	536597.8	19.9	mg/L	0.15	199	mg/L	1.5	0.77%
Mg 279.079	2449476.9	35.8	mg/L	0.14	358	mg/L	1.4	0.38%
Mn 257.610	6143308.9	2.60	mg/L	0.014	26.0	mg/L	0.14	0.55%
Mo 202.030	-33.4	-0.00055	mg/L	0.000020	-0.00549	mg/L	0.000196	3.57%
Ni 231.604	18809.3	0.0872	mg/L	0.00125	0.872	mg/L	0.0125	1.44%
Pb 220.353	111.3	0.00414	mg/L	0.000094	0.0414	mg/L	0.00094	2.26%
Sb 206.833	45.8	-0.00100	mg/L	0.000194	-0.0100	mg/L	0.00194	19.40%
Se 196.026	12.1	0.00141	mg/L	0.001057	0.0141	mg/L	0.01057	75.01%
Si 288.158	56890.6	0.515	mg/L	0.0055	5.15	mg/L	0.055	1.07%
Sn 189.933	-40.0	-0.00624	mg/L	0.000068	-0.0624	mg/L	0.00068	1.09%
Ti 337.280	229.2	0.0144	mg/L	0.00013	0.144	mg/L	0.0013	0.88%
Tl 190.800	2.1	0.0238	mg/L	0.00042	0.238	mg/L	0.0042	1.77%
V 292.402	-424.9	0.00023	mg/L	0.000015	0.00230	mg/L	0.000149	6.48%
Zn 206.200	6030.4	0.0302	mg/L	0.00028	0.302	mg/L	0.0028	0.93%
K 766.490	8522.9	0.295	mg/L	0.0012	2.95	mg/L	0.012	0.40%
Na 589.592	13587.0	0.341	mg/L	0.0081	3.41	mg/L	0.081	2.38%
Sr 407.771	68942.5	0.0464	mg/L	0.00074	0.464	mg/L	0.0074	1.60%
Sr 421.552	33991.1	0.0524	mg/L	0.00068	0.524	mg/L	0.0068	1.29%
Sr 460.733	908.4	0.0397	mg/L	0.00140	0.397	mg/L	0.0140	3.52%

Sequence No.: 7
Sample ID: 0536402DP 0.1

Autosampler Location: 36
Date Collected: 5/29/2001 1:26:18 PM

Analyst:
Sample Wt:
Dilution: 10X

Sample Prep Volume:
Data Type: Original

Mean Data: 0536402DP 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3523330.4						26742.08	0.76%
Ag 328.068	531.2	0.00071	mg/L	0.000010	0.00706	mg/L	0.000104	1.47%
Al 237.312	-1606.2	0.0436	mg/L	0.00130	0.436	mg/L	0.0130	2.97%
As 188.979	7.7	0.00074	mg/L	0.000221	0.00741	mg/L	0.002214	29.89%
Ba 230.424	-277.2	-0.00034	mg/L	0.000073	-0.00343	mg/L	0.000729	21.26%
Be 234.861	2376.3	0.00009	mg/L	0.000009	0.00089	mg/L	0.000092	10.26%
Ca 227.549	65887.5	50.0	mg/L	0.45	500	mg/L	4.5	0.90%
Cd 228.802	-62.7	-0.00018	mg/L	0.000010	-0.00183	mg/L	0.000102	5.58%
Co 228.616	10889.6	0.0516	mg/L	0.00137	0.516	mg/L	0.0137	2.65%
Cr 267.716	519.4	0.00201	mg/L	0.000017	0.0201	mg/L	0.00017	0.86%
Cu 327.396	-272.5	-0.00061	mg/L	0.000132	-0.00606	mg/L	0.001320	21.79%
Fe 261.387	507899.2	18.8	mg/L	0.29	188	mg/L	2.9	1.55%
Mg 279.079	2308524.6	33.7	mg/L	0.53	337	mg/L	5.3	1.58%
Mn 257.610	5826293.5	2.47	mg/L	0.034	24.7	mg/L	0.34	1.37%
Mo 202.030	-43.4	-0.00071	mg/L	0.000071	-0.00714	mg/L	0.000710	9.94%
Ni 231.604	17842.4	0.0828	mg/L	0.00120	0.828	mg/L	0.0120	1.45%
Pb 220.353	107.5	0.00400	mg/L	0.000008	0.0400	mg/L	0.00008	0.20%
Sb 206.833	36.9	-0.00132	mg/L	0.000779	-0.0132	mg/L	0.00779	59.20%
Se 196.026	1.7	0.00021	mg/L	0.000115	0.00213	mg/L	0.001155	54.25%
Si 288.158	54040.4	0.489	mg/L	0.0066	4.89	mg/L	0.066	1.36%
Sn 189.933	-48.1	-0.00654	mg/L	0.000552	-0.0654	mg/L	0.00552	8.44%
Ti 337.280	100.0	0.0136	mg/L	0.00015	0.136	mg/L	0.0015	1.11%
Tl 190.800	4.1	0.0227	mg/L	0.00013	0.227	mg/L	0.0013	0.59%
V 292.402	-403.6	0.00021	mg/L	0.000010	0.00214	mg/L	0.000096	4.51%
Zn 206.200	5719.7	0.0286	mg/L	0.00033	0.286	mg/L	0.0033	1.17%
K 766.490	7849.6	0.270	mg/L	0.0060	2.70	mg/L	0.060	2.22%
Na 589.592	12560.9	0.315	mg/L	0.0004	3.15	mg/L	0.004	0.13%
Sr 407.771	64075.8	0.0436	mg/L	0.00011	0.436	mg/L	0.0011	0.26%
Sr 421.552	31481.0	0.0495	mg/L	0.00020	0.495	mg/L	0.0020	0.41%
Sr 460.733	807.8	0.0353	mg/L	0.00297	0.353	mg/L	0.0297	8.42%

Sequence No.: 8
Sample ID: 0536408 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 37
Date Collected: 5/29/2001 1:30:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536408 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3474236.8						24611.45	0.71%
Ag 328.068	319.0	0.00042	mg/L	0.000029	0.00424	mg/L	0.000287	6.76%
Al 237.312	-284.1	0.0327	mg/L	0.00650	0.327	mg/L	0.0650	19.85%
As 188.979	0.7	0.00008	mg/L	0.000354	0.00081	mg/L	0.003536	436.66%
Ba 230.424	296.7	0.00096	mg/L	0.000070	0.00958	mg/L	0.000701	7.31%
Be 234.861	901.1	0.00004	mg/L	0.000002	0.00042	mg/L	0.000020	4.82%
Ca 227.549	34698.6	26.4	mg/L	0.41	264	mg/L	4.1	1.54%
Cd 228.802	-22.2	-0.00008	mg/L	0.000015	-0.00079	mg/L	0.000145	18.47%
Co 228.616	4974.6	0.0236	mg/L	0.00013	0.236	mg/L	0.0013	0.54%
Cr 267.716	359.4	0.00115	mg/L	0.000073	0.0115	mg/L	0.00073	6.36%
Cu 327.396	-115.5	-0.00026	mg/L	0.000088	-0.00257	mg/L	0.000884	34.40%
Fe 261.387	189302.8	7.03	mg/L	0.119	70.3	mg/L	1.19	1.69%
Mg 279.079	1413907.6	20.7	mg/L	0.14	207	mg/L	1.4	0.68%
Mn 257.610	3958645.5	1.68	mg/L	0.007	16.8	mg/L	0.07	0.40%
Mo 202.030	-22.4	-0.00037	mg/L	0.000124	-0.00369	mg/L	0.001244	33.75%
Ni 231.604	10742.5	0.0498	mg/L	0.00026	0.498	mg/L	0.0026	0.52%
Pb 220.353	50.3	0.00187	mg/L	0.000080	0.0187	mg/L	0.00080	4.27%
Sb 206.833	14.4	-0.00087	mg/L	0.000821	-0.00871	mg/L	0.008212	94.23%
Se 196.026	5.3	0.00061	mg/L	0.000416	0.00614	mg/L	0.004158	67.68%
Si 288.158	51887.5	0.458	mg/L	0.0076	4.58	mg/L	0.076	1.65%
Sn 189.933	-29.0	-0.00368	mg/L	0.000639	-0.0368	mg/L	0.00639	17.34%

Ti 337.280	205.4	0.00884 mg/L	0.000089	0.0884 mg/L	0.00089	1.01%
Tl 190.800	-3.3	0.0144 mg/L	0.00004	0.144 mg/L	0.0004	0.31%
V 292.402	-96.2	0.00025 mg/L	0.000002	0.00252 mg/L	0.000022	0.86%
Zn 206.200	7666.5	0.0399 mg/L	0.00024	0.399 mg/L	0.0024	0.61%
K 766.490	54870.7	2.53 mg/L	0.035	25.3 mg/L	0.35	1.37%
Na 589.592	45872.7	1.15 mg/L	0.011	11.5 mg/L	0.11	0.94%
Sr 407.771	32652.3	0.0255 mg/L	0.00020	0.255 mg/L	0.0020	0.80%
Sr 421.552	16022.1	0.0316 mg/L	0.00019	0.316 mg/L	0.0019	0.62%
Sr 460.733	388.5	0.0172 mg/L	0.00111	0.172 mg/L	0.0111	6.46%

Sequence No.: 9
Sample ID: 0536409 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 38
Date Collected: 5/29/2001 1:34:43 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536409 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3509132.4						75471.30	2.15%
Ag 328.068	349.1	0.00046	mg/L	0.000046	0.00464	mg/L	0.000457	9.85%
Al 237.312	-481.2	0.0301	mg/L	0.00215	0.301	mg/L	0.0215	7.13%
As 188.979	4.6	0.00044	mg/L	0.000125	0.00445	mg/L	0.001249	28.06%
Ba 230.424	256.5	0.00088	mg/L	0.000028	0.00879	mg/L	0.000280	3.18%
Be 234.861	1051.2	0.00005	mg/L	0.000012	0.00048	mg/L	0.000117	24.31%
Ca 227.549	39546.3	30.0	mg/L	0.73	300	mg/L	7.3	2.43%
Cd 228.802	-28.3	-0.00010	mg/L	0.000001	-0.00095	mg/L	0.000007	0.75%
Co 228.616	5614.3	0.0266	mg/L	0.00039	0.266	mg/L	0.0039	1.47%
Cr 267.716	428.9	0.00137	mg/L	0.000029	0.0137	mg/L	0.00029	2.11%
Cu 327.396	-124.1	-0.00028	mg/L	0.000056	-0.00276	mg/L	0.000561	20.34%
Fe 261.387	221032.6	8.21	mg/L	0.269	82.1	mg/L	2.69	3.28%
Mg 279.079	1557974.8	22.8	mg/L	0.45	228	mg/L	4.5	1.96%
Mn 257.610	4435732.5	1.88	mg/L	0.033	18.8	mg/L	0.33	1.76%
Mo 202.030	-28.9	-0.00048	mg/L	0.000059	-0.00476	mg/L	0.000587	12.35%
Ni 231.604	12042.4	0.0558	mg/L	0.00093	0.558	mg/L	0.0093	1.67%
Pb 220.353	55.0	0.00205	mg/L	0.000040	0.0205	mg/L	0.00040	1.95%
Sb 206.833	21.2	-0.00072	mg/L	0.000381	-0.00718	mg/L	0.003812	53.12%
Se 196.026	1.2	0.00014	mg/L	0.002277	0.00143	mg/L	0.022768	>999.9%
Si 288.158	58658.0	0.518	mg/L	0.0159	5.18	mg/L	0.159	3.07%
Sn 189.933	-37.8	-0.00449	mg/L	0.000254	-0.0449	mg/L	0.00254	5.65%
Ti 337.280	157.1	0.00991	mg/L	0.000090	0.0991	mg/L	0.00090	0.91%
Tl 190.800	0.2	0.0165	mg/L	0.00075	0.165	mg/L	0.0075	4.56%
V 292.402	-139.7	0.00021	mg/L	0.000001	0.00207	mg/L	0.000012	0.57%
Zn 206.200	7804.2	0.0405	mg/L	0.00072	0.405	mg/L	0.0072	1.79%
K 766.490	10573.2	0.431	mg/L	0.0035	4.31	mg/L	0.035	0.80%
Na 589.592	13549.0	0.340	mg/L	0.0029	3.40	mg/L	0.029	0.87%
Sr 407.771	36172.2	0.0275	mg/L	0.00024	0.275	mg/L	0.0024	0.88%
Sr 421.552	17747.4	0.0336	mg/L	0.00040	0.336	mg/L	0.0040	1.18%
Sr 460.733	323.3	0.0144	mg/L	0.00027	0.144	mg/L	0.0027	1.90%

Sequence No.: 10
Sample ID: 0536001 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 39
Date Collected: 5/29/2001 1:38:55 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0536001 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3642642.0						16588.50	0.46%
Ag 328.068	1045.4	0.00139	mg/L	0.000078	0.0139	mg/L	0.00078	5.65%
Al 237.312	2814.3	0.149	mg/L	0.0003	1.49	mg/L	0.003	0.23%
As 188.979	-4.7	-0.00042	mg/L	0.000956	-0.00417	mg/L	0.009559	229.27%
Ba 230.424	345.0	0.00109	mg/L	0.000129	0.0109	mg/L	0.00129	11.79%
Be 234.861	271.1	0.00015	mg/L	0.000001	0.00146	mg/L	0.000011	0.72%
Ca 227.549	59572.1	45.5	mg/L	0.85	455	mg/L	8.5	1.86%
Cd 228.802	85.8	0.00009	mg/L	0.000003	0.00090	mg/L	0.000034	3.77%

Co 228.616	4793.2	0.0226 mg/L	0.00017	0.226 mg/L	0.0017	0.77%
Cr 267.716	648.2	0.00136 mg/L	0.000041	0.0136 mg/L	0.00041	3.01%
Cu 327.396	64.5	0.00014 mg/L	0.000083	0.00143 mg/L	0.000835	58.17%
Fe 261.387	1063.9	0.117 mg/L	0.0007	1.17 mg/L	0.007	0.57%
Mg 279.079	4900470.3	71.6 mg/L	0.46	716 mg/L	4.6	0.64%
Mn 257.610	5950149.0	2.52 mg/L	0.004	25.2 mg/L	0.04	0.16%
Mo 202.030	-16.2	-0.00027 mg/L	0.000000	-0.00267 mg/L	0.000003	0.12%
Ni 231.604	17774.8	0.0822 mg/L	0.00087	0.822 mg/L	0.0087	1.06%
Pb 220.353	44.8	0.00168 mg/L	0.000147	0.0168 mg/L	0.00147	8.77%
Sb 206.833	11.1	-0.00134 mg/L	0.000930	-0.0134 mg/L	0.00930	69.31%
Se 196.026	30.5	0.00349 mg/L	0.001587	0.0349 mg/L	0.01587	45.43%
Si 288.158	69230.1	0.617 mg/L	0.0125	6.17 mg/L	0.125	2.02%
Sn 189.933	-50.9	-0.00642 mg/L	0.000198	-0.0642 mg/L	0.00198	3.08%
Ti 337.280	233.2	0.0121 mg/L	0.00001	0.121 mg/L	0.0001	0.10%
Tl 190.800	-7.0	0.0205 mg/L	0.00046	0.205 mg/L	0.0046	2.26%
V 292.402	-31.5	-0.00010 mg/L	0.000012	-0.00100 mg/L	0.000123	12.31%
Zn 206.200	13113.3	0.0686 mg/L	0.00147	0.686 mg/L	0.0147	2.15%
K 766.490	11929.5	0.349 mg/L	0.0007	3.49 mg/L	0.007	0.20%
Na 589.592	309783.1	7.78 mg/L	0.124	77.8 mg/L	1.24	1.59%
Sr 407.771	91754.6	0.0595 mg/L	0.00019	0.595 mg/L	0.0019	0.32%
Sr 421.552	45357.9	0.0656 mg/L	0.00027	0.656 mg/L	0.0027	0.41%
Sr 460.733	1160.9	0.0505 mg/L	0.00164	0.505 mg/L	0.0164	3.24%

Sequence No.: 11
Sample ID: 0550101 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 40
Date Collected: 5/29/2001 1:43:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0550101 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3524195.2						25457.59	0.72%
Ag 328.068	163.5	0.00022	mg/L	0.000117	0.00217	mg/L	0.001172	53.88%
Al 237.312	169.2	0.00842	mg/L	0.001291	0.0842	mg/L	0.01291	15.34%
As 188.979	2.0	0.00019	mg/L	0.000013	0.00189	mg/L	0.000133	7.00%
Ba 230.424	3277.3	0.00876	mg/L	0.000001	0.0876	mg/L	0.00001	0.02%
Be 234.861	29.0	0.00001	mg/L	0.000003	0.00009	mg/L	0.000028	32.62%
Ca 227.549	37902.7	28.9	mg/L	0.07	289	mg/L	0.7	0.25%
Cd 228.802	8.2	-0.00001	mg/L	0.000004	-0.00009	mg/L	0.000043	46.84%
Co 228.616	60.0	0.00030	mg/L	0.000016	0.00300	mg/L	0.000158	5.26%
Cr 267.716	-0.8	-0.00002	mg/L	0.000029	-0.00018	mg/L	0.000288	159.24%
Cu 327.396	8.9	0.00002	mg/L	0.000071	0.00020	mg/L	0.000707	356.45%
Fe 261.387	3017.8	0.114	mg/L	0.0009	1.14	mg/L	0.009	0.82%
Mg 279.079	312675.5	4.57	mg/L	0.078	45.7	mg/L	0.78	1.72%
Mn 257.610	184014.3	0.0778	mg/L	0.00117	0.778	mg/L	0.0117	1.51%
Mo 202.030	-26.9	-0.00044	mg/L	0.000017	-0.00442	mg/L	0.000165	3.74%
Ni 231.604	117.1	0.00054	mg/L	0.000001	0.00543	mg/L	0.000008	0.15%
Pb 220.353	19.3	0.00072	mg/L	0.000168	0.00717	mg/L	0.001676	23.36%
Sb 206.833	6.3	0.00010	mg/L	0.000273	0.00105	mg/L	0.002727	260.23%
Se 196.026	11.1	0.00128	mg/L	0.000210	0.0128	mg/L	0.00210	16.35%
Si 288.158	50960.9	0.452	mg/L	0.0078	4.52	mg/L	0.078	1.73%
Sn 189.933	-46.4	-0.00495	mg/L	0.000228	-0.0495	mg/L	0.00228	4.61%
Ti 337.280	272.9	0.00157	mg/L	0.000075	0.0157	mg/L	0.00075	4.80%
Tl 190.800	16.0	0.00190	mg/L	0.000149	0.0190	mg/L	0.00149	7.86%
V 292.402	103.7	0.00034	mg/L	0.000012	0.00339	mg/L	0.000116	3.43%
Zn 206.200	1175.0	0.00616	mg/L	0.000068	0.0616	mg/L	0.00068	1.10%
K 766.490	3993.1	0.175	mg/L	0.0046	1.75	mg/L	0.046	2.60%
Na 589.592	715228.7	18.0	mg/L	0.19	180	mg/L	1.9	1.04%
Sr 407.771	98394.0	0.0634	mg/L	0.00089	0.634	mg/L	0.0089	1.40%
Sr 421.552	48568.7	0.0693	mg/L	0.00097	0.693	mg/L	0.0097	1.40%
Sr 460.733	1333.6	0.0580	mg/L	0.00155	0.580	mg/L	0.0155	2.67%

Sequence No.: 12
Sample ID: 0550102 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 41
Date Collected: 5/29/2001 1:47:25 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0550102 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3530091.7						9357.20	0.27%
Ag 328.068	333.9	0.00044	mg/L	0.000056	0.00444	mg/L	0.000557	12.54%
Al 237.312	113.7	0.00522	mg/L	0.000472	0.0522	mg/L	0.00472	9.05%
As 188.979	-2.3	-0.00022	mg/L	0.000065	-0.00217	mg/L	0.000653	30.13%
Ba 230.424	3394.7	0.00907	mg/L	0.000043	0.0907	mg/L	0.00043	0.48%
Be 234.861	40.5	0.00002	mg/L	0.000009	0.00016	mg/L	0.000095	59.75%
Ca 227.549	38881.8	29.7	mg/L	0.06	297	mg/L	0.6	0.21%
Cd 228.802	1.6	-0.00002	mg/L	0.000002	-0.00024	mg/L	0.000023	9.64%
Co 228.616	50.6	0.00026	mg/L	0.000016	0.00256	mg/L	0.000159	6.22%
Cr 267.716	1.9	-0.00001	mg/L	0.000008	-0.00011	mg/L	0.000082	70.94%
Cu 327.396	-29.4	-0.00007	mg/L	0.000145	-0.00066	mg/L	0.001454	221.94%
Fe 261.387	2658.2	0.100	mg/L	0.0009	1.00	mg/L	0.009	0.87%
Mg 279.079	320853.0	4.69	mg/L	0.025	46.9	mg/L	0.25	0.53%
Mn 257.610	185796.7	0.0786	mg/L	0.00054	0.786	mg/L	0.0054	0.69%
Mo 202.030	-26.9	-0.00044	mg/L	0.000090	-0.00442	mg/L	0.000902	20.41%
Ni 231.604	71.5	0.00033	mg/L	0.000007	0.00332	mg/L	0.000066	1.99%
Pb 220.353	18.3	0.00068	mg/L	0.000010	0.00683	mg/L	0.000096	1.41%
Sb 206.833	1.5	-0.00018	mg/L	0.000110	-0.00176	mg/L	0.001097	62.22%
Se 196.026	3.1	0.00035	mg/L	0.000648	0.00353	mg/L	0.006476	183.51%
Si 288.158	52162.9	0.462	mg/L	0.0039	4.62	mg/L	0.039	0.84%
Sn 189.933	-50.8	-0.00528	mg/L	0.000138	-0.0528	mg/L	0.00138	2.61%
Ti 337.280	216.7	0.00157	mg/L	0.000011	0.0157	mg/L	0.00011	0.71%
Tl 190.800	19.4	0.00216	mg/L	0.000430	0.0216	mg/L	0.00430	19.86%
V 292.402	135.0	0.00044	mg/L	0.000092	0.00438	mg/L	0.000920	21.01%
Zn 206.200	776.6	0.00405	mg/L	0.000042	0.0405	mg/L	0.00042	1.03%
K 766.490	3968.9	0.173	mg/L	0.0021	1.73	mg/L	0.021	1.21%
Na 589.592	754922.2	19.0	mg/L	0.13	190	mg/L	1.3	0.69%
Sr 407.771	99908.2	0.0642	mg/L	0.00120	0.642	mg/L	0.0120	1.86%
Sr 421.552	49445.9	0.0703	mg/L	0.00130	0.703	mg/L	0.0130	1.85%
Sr 460.733	1353.2	0.0588	mg/L	0.00167	0.588	mg/L	0.0167	2.83%

Sequence No.: 13
Sample ID: 0550103 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 42
Date Collected: 5/29/2001 1:51:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0550103 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3489468.9						49632.63	1.42%
Ag 328.068	183.6	0.00024	mg/L	0.000070	0.00244	mg/L	0.000703	28.79%
Al 237.312	161.0	0.00795	mg/L	0.000869	0.0795	mg/L	0.00869	10.93%
As 188.979	1.8	0.00017	mg/L	0.000125	0.00169	mg/L	0.001253	74.13%
Ba 230.424	3296.8	0.00881	mg/L	0.000140	0.0881	mg/L	0.00140	1.58%
Be 234.861	26.7	0.00001	mg/L	0.000007	0.00007	mg/L	0.000075	102.51%
Ca 227.549	38329.0	29.3	mg/L	0.27	293	mg/L	2.7	0.91%
Cd 228.802	7.6	-0.00001	mg/L	0.000026	-0.00011	mg/L	0.000263	243.50%
Co 228.616	55.3	0.00028	mg/L	0.000003	0.00278	mg/L	0.000031	1.11%
Cr 267.716	-1.7	-0.00002	mg/L	0.000030	-0.00020	mg/L	0.000300	149.50%
Cu 327.396	-12.7	-0.00003	mg/L	0.000124	-0.00028	mg/L	0.001244	439.27%
Fe 261.387	3033.8	0.114	mg/L	0.0020	1.14	mg/L	0.020	1.77%
Mg 279.079	315335.6	4.61	mg/L	0.059	46.1	mg/L	0.59	1.27%
Mn 257.610	185233.4	0.0783	mg/L	0.00087	0.783	mg/L	0.0087	1.10%
Mo 202.030	-28.0	-0.00046	mg/L	0.000075	-0.00461	mg/L	0.000753	16.33%
Ni 231.604	97.9	0.00045	mg/L	0.000054	0.00454	mg/L	0.000544	11.97%
Pb 220.353	14.3	0.00053	mg/L	0.000118	0.00531	mg/L	0.001183	22.27%
Sb 206.833	-4.4	-0.00052	mg/L	0.000293	-0.00518	mg/L	0.002930	56.59%
Se 196.026	5.6	0.00065	mg/L	0.001765	0.00649	mg/L	0.017650	271.95%
Si 288.158	52869.2	0.468	mg/L	0.0052	4.68	mg/L	0.052	1.11%
Sn 189.933	-50.2	-0.00521	mg/L	0.000048	-0.0521	mg/L	0.00048	0.91%
Ti 337.280	174.8	0.00153	mg/L	0.000052	0.0153	mg/L	0.00052	3.43%
Tl 190.800	18.9	0.00212	mg/L	0.000141	0.0212	mg/L	0.00141	6.62%
V 292.402	133.4	0.00043	mg/L	0.000135	0.00434	mg/L	0.001348	31.08%

Zn 206.200	920.2	0.00481 mg/L	0.000052	0.0481 mg/L	0.00052	1.08%
K 766.490	4230.5	0.186 mg/L	0.0063	1.86 mg/L	0.063	3.37%
Na 589.592	745446.4	18.7 mg/L	0.33	187 mg/L	3.3	1.78%
Sr 407.771	100055.9	0.0643 mg/L	0.00082	0.643 mg/L	0.0082	1.28%
Sr 421.552	49540.9	0.0704 mg/L	0.00084	0.704 mg/L	0.0084	1.20%
Sr 460.733	1261.0	0.0549 mg/L	0.00435	0.549 mg/L	0.0435	7.92%

Sequence No.: 14
Sample ID: 0550104 0.1
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 43
Date Collected: 5/29/2001 1:55:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0550104 0.1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3483246.4						25613.37	0.74%
Ag 328.068	148.9	0.00020	mg/L	0.000006	0.00198	mg/L	0.000061	3.08%
Al 237.312	108.8	0.00497	mg/L	0.000255	0.0497	mg/L	0.00255	5.12%
As 188.979	0.5	0.00005	mg/L	0.000142	0.00051	mg/L	0.001420	277.24%
Ba 230.424	3373.4	0.00902	mg/L	0.000078	0.0902	mg/L	0.00078	0.86%
Be 234.861	49.8	0.00002	mg/L	0.000006	0.00021	mg/L	0.000060	28.39%
Ca 227.549	38104.0	29.1	mg/L	0.40	291	mg/L	4.0	1.36%
Cd 228.802	8.0	-0.00001	mg/L	0.000005	-0.00010	mg/L	0.000052	53.09%
Co 228.616	51.8	0.00026	mg/L	0.000022	0.00261	mg/L	0.000223	8.53%
Cr 267.716	-2.8	-0.00002	mg/L	0.000028	-0.00024	mg/L	0.000277	115.01%
Cu 327.396	-76.2	-0.00017	mg/L	0.000061	-0.00170	mg/L	0.000612	36.08%
Fe 261.387	2601.5	0.0983	mg/L	0.00085	0.983	mg/L	0.0085	0.86%
Mg 279.079	313393.8	4.58	mg/L	0.045	45.8	mg/L	0.45	0.98%
Mn 257.610	180930.4	0.0765	mg/L	0.00088	0.765	mg/L	0.0088	1.15%
Mo 202.030	-29.1	-0.00048	mg/L	0.000021	-0.00479	mg/L	0.000213	4.45%
Ni 231.604	67.1	0.00031	mg/L	0.000022	0.00311	mg/L	0.000217	6.96%
Pb 220.353	14.8	0.00055	mg/L	0.000173	0.00550	mg/L	0.001726	31.41%
Sb 206.833	7.1	0.00015	mg/L	0.000488	0.00150	mg/L	0.004876	324.86%
Se 196.026	4.5	0.00052	mg/L	0.001819	0.00516	mg/L	0.018190	352.55%
Si 288.158	51635.7	0.457	mg/L	0.0105	4.57	mg/L	0.105	2.28%
Sn 189.933	-58.9	-0.00575	mg/L	0.000236	-0.0575	mg/L	0.00236	4.11%
Ti 337.280	149.8	0.00150	mg/L	0.000022	0.0150	mg/L	0.00022	1.46%
Tl 190.800	13.2	0.00167	mg/L	0.000487	0.0167	mg/L	0.00487	29.20%
V 292.402	102.7	0.00033	mg/L	0.000129	0.00335	mg/L	0.001294	38.64%
Zn 206.200	714.8	0.00373	mg/L	0.000001	0.0373	mg/L	0.00001	0.02%
K 766.490	3942.4	0.173	mg/L	0.0057	1.73	mg/L	0.057	3.32%
Na 589.592	736221.2	18.5	mg/L	0.13	185	mg/L	1.3	0.68%
Sr 407.771	97980.7	0.0631	mg/L	0.00074	0.631	mg/L	0.0074	1.17%
Sr 421.552	48470.4	0.0692	mg/L	0.00102	0.692	mg/L	0.0102	1.47%
Sr 460.733	1203.9	0.0524	mg/L	0.00374	0.524	mg/L	0.0374	7.13%

Sequence No.: 15
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 2:00:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3840015.2						14701.40	0.38%
Ag 328.068	285642.4	0.380	mg/L	0.0014	0.380	mg/L	0.0014	0.38%
QC value within limits for Ag 328.068 Recovery = 94.94%								
Al 237.312	178977.9	9.89	mg/L	0.051	9.89	mg/L	0.051	0.51%
QC value within limits for Al 237.312 Recovery = 98.92%								
As 188.979	3931.1	0.373	mg/L	0.0016	0.373	mg/L	0.0016	0.42%
QC value within limits for As 188.979 Recovery = 93.33%								
Ba 230.424	383720.1	1.01	mg/L	0.008	1.01	mg/L	0.008	0.81%
QC value within limits for Ba 230.424 Recovery = 101.32%								
Be 234.861	90321.9	0.0495	mg/L	0.00041	0.0495	mg/L	0.00041	0.84%
QC value within limits for Be 234.861 Recovery = 98.91%								

Ca 227.549	13521.9	10.2 mg/L	0.03	10.2 mg/L	0.03	0.31%
QC value within limits for Ca 227.549 Recovery = 102.06%						
Cd 228.802	23242.3	0.0493 mg/L	0.00026	0.0493 mg/L	0.00026	0.52%
QC value within limits for Cd 228.802 Recovery = 98.59%						
Co 228.616	43342.6	0.204 mg/L	0.0020	0.204 mg/L	0.0020	0.98%
QC value within limits for Co 228.616 Recovery = 101.97%						
Cr 267.716	189668.8	0.509 mg/L	0.0045	0.509 mg/L	0.0045	0.88%
QC value within limits for Cr 267.716 Recovery = 101.88%						
Cu 327.396	225743.0	0.502 mg/L	0.0025	0.502 mg/L	0.0025	0.51%
QC value within limits for Cu 327.396 Recovery = 100.31%						
Fe 261.387	111040.7	4.13 mg/L	0.032	4.13 mg/L	0.032	0.77%
QC value within limits for Fe 261.387 Recovery = 103.34%						
Mg 279.079	664814.2	9.71 mg/L	0.107	9.71 mg/L	0.107	1.10%
QC value within limits for Mg 279.079 Recovery = 97.08%						
Mn 257.610	1189249.1	0.503 mg/L	0.0034	0.503 mg/L	0.0034	0.67%
QC value within limits for Mn 257.610 Recovery = 100.57%						
Mo 202.030	60449.2	0.994 mg/L	0.0136	0.994 mg/L	0.0136	1.37%
QC value within limits for Mo 202.030 Recovery = 99.92%						
Ni 231.604	110022.4	0.509 mg/L	0.0057	0.509 mg/L	0.0057	1.13%
QC value within limits for Ni 231.604 Recovery = 101.83%						
Pb 220.353	13089.7	0.492 mg/L	0.0029	0.492 mg/L	0.0029	0.59%
QC value within limits for Pb 220.353 Recovery = 98.31%						
Sb 206.833	20059.4	1.14 mg/L	0.007	1.14 mg/L	0.007	0.60%
QC value within limits for Sb 206.833 Recovery = 95.05%						
Se 196.026	3437.3	0.395 mg/L	0.0032	0.395 mg/L	0.0032	0.81%
QC value within limits for Se 196.026 Recovery = 98.64%						
Si 288.158	3323.5	0.0371 mg/L	0.00001	0.0371 mg/L	0.00001	0.04%
QC value less than the lower limit for Si 288.158 Recovery = 0.74%						
Sn 189.933	14436.3	0.907 mg/L	0.0187	0.907 mg/L	0.0187	2.06%
QC value within limits for Sn 189.933 Recovery = 90.86%						
Ti 337.280	1714663.3	0.987 mg/L	0.0064	0.987 mg/L	0.0064	0.65%
QC value within limits for Ti 337.280 Recovery = 98.77%						
Tl 190.800	6501.7	0.512 mg/L	0.0074	0.512 mg/L	0.0074	1.45%
QC value within limits for Tl 190.800 Recovery = 102.32%						
V 292.402	314286.7	1.00 mg/L	0.007	1.00 mg/L	0.007	0.71%
QC value within limits for V 292.402 Recovery = 100.15%						
Zn 206.200	181667.2	0.961 mg/L	0.0122	0.961 mg/L	0.0122	1.27%
QC value within limits for Zn 206.200 Recovery = 96.09%						
K 766.490	1094288.6	51.7 mg/L	0.28	51.7 mg/L	0.28	0.53%
QC value within limits for K 766.490 Recovery = 103.34%						
Na 589.592	1926567.2	48.4 mg/L	0.28	48.4 mg/L	0.28	0.58%
QC value within limits for Na 589.592 Recovery = 96.78%						
Sr 407.771	1571736.3	0.912 mg/L	0.0048	0.912 mg/L	0.0048	0.53%
QC value within limits for Sr 407.771 Recovery = 91.15%						
Sr 421.552	777722.7	0.913 mg/L	0.0048	0.913 mg/L	0.0048	0.53%
QC value within limits for Sr 421.552 Recovery = 91.35%						
Sr 460.733	22610.2	0.960 mg/L	0.0007	0.960 mg/L	0.0007	0.08%
QC value within limits for Sr 460.733 Recovery = 96.05%						

QC Failed. Continue with analysis.

Sequence No.: 16
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 2:04:29 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3136329.8						39939.09	1.27%
Ag 328.068	-7.5	-0.00001	mg/L	0.000123	-0.00001	mg/L	0.000123	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	111.4	0.00622	mg/L	0.000258	0.00622	mg/L	0.000258	4.14%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	0.2	0.00002	mg/L	0.000077	0.00002	mg/L	0.000077	432.23%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	129.3	0.00034	mg/L	0.000010	0.00034	mg/L	0.000010	2.79%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-13.0	-0.00001	mg/L	0.000001	-0.00001	mg/L	0.000001	7.45%

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QC value within limits for Be 234.861 Recovery = Not calculated

Ca 227.549	18.2	0.0137 mg/L	0.00318	0.0137 mg/L	0.00318	23.27%
QC value within limits for Ca 227.549 Recovery = Not calculated							
Cd 228.802	-4.4	-0.00001 mg/L	0.000019	-0.00001 mg/L	0.000019	195.30%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616	2.3	0.00001 mg/L	0.000006	0.00001 mg/L	0.000006	53.88%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716	-78.0	-0.00020 mg/L	0.000005	-0.00020 mg/L	0.000005	2.55%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.396	-105.2	-0.00023 mg/L	0.000061	-0.00023 mg/L	0.000061	26.21%
QC value within limits for Cu 327.396 Recovery = Not calculated							
Fe 261.387	283.2	0.0104 mg/L	0.00036	0.0104 mg/L	0.00036	3.42%
QC value within limits for Fe 261.387 Recovery = Not calculated							
Mg 279.079	188.9	0.00276 mg/L	0.000006	0.00276 mg/L	0.000006	0.21%
QC value within limits for Mg 279.079 Recovery = Not calculated							
Mn 257.610	67.3	0.00003 mg/L	0.000000	0.00003 mg/L	0.000000	0.52%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.030	30.9	0.00051 mg/L	0.000177	0.00051 mg/L	0.000177	34.72%
QC value within limits for Mo 202.030 Recovery = Not calculated							
Ni 231.604	19.0	0.00009 mg/L	0.000005	0.00009 mg/L	0.000005	5.34%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	-12.8	-0.00048 mg/L	0.000033	-0.00048 mg/L	0.000033	6.99%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.833	-1.3	-0.00007 mg/L	0.000453	-0.00007 mg/L	0.000453	610.85%
QC value within limits for Sb 206.833 Recovery = Not calculated							
Se 196.026	13.0	0.00151 mg/L	0.000470	0.00151 mg/L	0.000470	31.23%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 288.158	-553.8	-0.00474 mg/L	0.000017	-0.00474 mg/L	0.000017	0.36%
QC value within limits for Si 288.158 Recovery = Not calculated							
Sn 189.933	39.9	0.00251 mg/L	0.000080	0.00251 mg/L	0.000080	3.18%
QC value within limits for Sn 189.933 Recovery = Not calculated							
Ti 337.280	326.6	0.00019 mg/L	0.000026	0.00019 mg/L	0.000026	13.97%
QC value within limits for Ti 337.280 Recovery = Not calculated							
Tl 190.800	14.8	0.00114 mg/L	0.000302	0.00114 mg/L	0.000302	26.36%
QC value within limits for Tl 190.800 Recovery = Not calculated							
V 292.402	117.0	0.00037 mg/L	0.000069	0.00037 mg/L	0.000069	18.46%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200	-73.0	-0.00039 mg/L	0.000013	-0.00039 mg/L	0.000013	3.45%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490	671.7	0.0317 mg/L	0.00225	0.0317 mg/L	0.00225	7.11%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592	811.7	0.0204 mg/L	0.00097	0.0204 mg/L	0.00097	4.78%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771	9.1	0.00671 mg/L	0.000001	0.00671 mg/L	0.000001	0.01%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	-59.1	0.0130 mg/L	0.00007	0.0130 mg/L	0.00007	0.52%
Sample signal is less than that of the lowest standard.							
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated							
Sr 460.733	0.7	0.00050 mg/L	0.006399	0.00050 mg/L	0.006399	>999.9%
QC value within limits for Sr 460.733 Recovery = Not calculated							

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 5/29/2001 2:08:07 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: PBW MU
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 44
Date Collected: 5/29/2001 2:08:07 PM
Sample Prep Volume:
Data Type: Original

Mean Data: PBW MU

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2989071.2						62751.48	2.10%
Ag 328.068	-73.7	-0.00010	mg/L	0.000108	-0.00010	mg/L	0.000108	110.44%
Al 237.312	243.5	0.0134	mg/L	0.00019	0.0134	mg/L	0.00019	1.41%
As 188.979	2.4	0.00023	mg/L	0.000420	0.00023	mg/L	0.000420	184.44%
Ba 230.424	85.7	0.00023	mg/L	0.000029	0.00023	mg/L	0.000029	13.02%
Be 234.861	-4.3	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	158.79%
Ca 227.549	13.0	0.00991	mg/L	0.000248	0.00991	mg/L	0.000248	2.51%
Cd 228.802	9.2	0.00002	mg/L	0.000022	0.00002	mg/L	0.000022	109.61%
Co 228.616	14.5	0.00007	mg/L	0.000023	0.00007	mg/L	0.000023	33.57%
Cr 267.716	-18.3	-0.00005	mg/L	0.000009	-0.00005	mg/L	0.000009	19.16%
Cu 327.396	2322.4	0.00516	mg/L	0.000212	0.00516	mg/L	0.000212	4.11%
Fe 261.387	-29.0	-0.00106	mg/L	0.003321	-0.00106	mg/L	0.003321	313.95%
Mg 279.079	323.4	0.00472	mg/L	0.000068	0.00472	mg/L	0.000068	1.44%
Mn 257.610	311.7	0.00013	mg/L	0.000003	0.00013	mg/L	0.000003	2.44%
Mo 202.030	0.1	0.00000	mg/L	0.000017	0.00000	mg/L	0.000017	918.83%
Ni 231.604	25.9	0.00012	mg/L	0.000002	0.00012	mg/L	0.000002	1.28%
Pb 220.353	-9.6	-0.00036	mg/L	0.000024	-0.00036	mg/L	0.000024	6.64%
Sb 206.833	-3.7	-0.00021	mg/L	0.000250	-0.00021	mg/L	0.000250	116.41%
Se 196.026	2.8	0.00032	mg/L	0.000126	0.00032	mg/L	0.000126	38.99%
Si 288.158	-401.6	-0.00343	mg/L	0.000182	-0.00343	mg/L	0.000182	5.30%
Sn 189.933	129.0	0.00813	mg/L	0.002290	0.00813	mg/L	0.002290	28.18%
Ti 337.280	195.9	0.00011	mg/L	0.000063	0.00011	mg/L	0.000063	56.15%
Tl 190.800	177.3	0.0136	mg/L	0.00325	0.0136	mg/L	0.00325	23.81%
V 292.402	46.0	0.00015	mg/L	0.000009	0.00015	mg/L	0.000009	6.30%
Zn 206.200	917.3	0.00485	mg/L	0.000140	0.00485	mg/L	0.000140	2.90%
K 766.490	660.1	0.0312	mg/L	0.01364	0.0312	mg/L	0.01364	43.77%
Na 589.592	1250.3	0.0314	mg/L	0.00205	0.0314	mg/L	0.00205	6.52%
Sr 407.771	-94.2	0.00665	mg/L	0.000021	0.00665	mg/L	0.000021	0.31%
Sr 421.552	-39.6	0.0130	mg/L	0.00007	0.0130	mg/L	0.00007	0.54%
Sample signal is less than that of the lowest standard.								
Sr 460.733	55.0	0.00284	mg/L	0.001377	0.00284	mg/L	0.001377	48.39%

Sequence No.: 2
Sample ID: LCSW MU
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 45
Date Collected: 5/29/2001 2:12:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCSW MU

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3571494.6						173831.70	4.87%
Ag 328.068	143258.1	0.190	mg/L	0.0065	0.190	mg/L	0.0065	3.43%
Al 237.312	175578.4	9.68	mg/L	0.355	9.68	mg/L	0.355	3.66%
As 188.979	9838.2	0.931	mg/L	0.0168	0.931	mg/L	0.0168	1.81%
Ba 230.424	3348560.9	8.83	mg/L	0.381	8.83	mg/L	0.381	4.32%

Be 234.861	1677010.4	0.922 mg/L	0.0436	0.922 mg/L	0.0436	4.73%
Ca 227.549	12962.0	9.84 mg/L	0.080	9.84 mg/L	0.080	0.81%
Cd 228.802	430589.1	0.924 mg/L	0.0348	0.924 mg/L	0.0348	3.76%
Co 228.616	197860.9	0.931 mg/L	0.0396	0.931 mg/L	0.0396	4.25%
Cr 267.716	359550.2	0.959 mg/L	0.0377	0.959 mg/L	0.0377	3.93%
Cu 327.396	394946.3	0.878 mg/L	0.0335	0.878 mg/L	0.0335	3.82%
Fe 261.387	22113.9	0.940 mg/L	0.0123	0.940 mg/L	0.0123	1.31%
Mg 279.079	640607.9	9.35 mg/L	0.437	9.35 mg/L	0.437	4.67%
Mn 257.610	2250169.4	0.952 mg/L	0.0436	0.952 mg/L	0.0436	4.58%
Mo 202.030	57754.4	0.950 mg/L	0.0397	0.950 mg/L	0.0397	4.18%
Ni 231.604	205516.7	0.951 mg/L	0.0398	0.951 mg/L	0.0398	4.19%
Pb 220.353	25687.2	0.961 mg/L	0.0164	0.961 mg/L	0.0164	1.71%
Sb 206.833	16506.0	0.929 mg/L	0.0120	0.929 mg/L	0.0120	1.29%
Se 196.026	7799.2	0.899 mg/L	0.0176	0.899 mg/L	0.0176	1.96%
Si 288.158	995967.2	8.55 mg/L	0.302	8.55 mg/L	0.302	3.53%
Sn 189.933	519.4	0.0304 mg/L	0.00421	0.0304 mg/L	0.00421	13.87%
Ti 337.280	1667161.5	0.965 mg/L	0.0434	0.965 mg/L	0.0434	4.49%
Tl 190.800	8637.9	0.686 mg/L	0.0289	0.686 mg/L	0.0289	4.22%
V 292.402	297865.2	0.949 mg/L	0.0371	0.949 mg/L	0.0371	3.91%
Zn 206.200	180367.4	0.955 mg/L	0.0493	0.955 mg/L	0.0493	5.16%
K 766.490	1037064.2	49.0 mg/L	0.40	49.0 mg/L	0.40	0.81%
Na 589.592	1802246.5	45.3 mg/L	0.58	45.3 mg/L	0.58	1.28%
Sr 407.771	1489384.2	0.864 mg/L	0.0089	0.864 mg/L	0.0089	1.03%
Sr 421.552	736664.5	0.866 mg/L	0.0092	0.866 mg/L	0.0092	1.06%
Sr 460.733	21300.6	0.906 mg/L	0.0104	0.906 mg/L	0.0104	1.14%

Recovery Check: LCSW MU

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.0	49.0	0.395	mg/L	97.9
Na 589.592	50.0	45.3	0.581	mg/L	90.5
Sr 407.771	1.01	0.864	0.009	mg/L	85.7
Sr 421.552	1.01	0.866	0.009	mg/L	85.3
Sr 460.733	1.00	0.906	0.010	mg/L	90.3
Ag 328.068	0.200	0.190	0.007	mg/L	95.3
Al 237.312	10.0	9.68	0.355	mg/L	96.7
As 188.979	1.00	0.931	0.017	mg/L	93.1
Ba 230.424	10.0	8.83	0.381	mg/L	88.3
Be 234.861	1.000	0.922	0.044	mg/L	92.2
Ca 227.549	10.0	9.84	0.080	mg/L	98.3
Cd 228.802	1.00	0.924	0.035	mg/L	92.4
Co 228.616	1.00	0.931	0.040	mg/L	93.0
Cr 267.716	1.000	0.959	0.038	mg/L	95.9
Cu 327.396	1.01	0.878	0.034	mg/L	87.3
Fe 261.387	0.999	0.940	0.012	mg/L	94.1
Mg 279.079	10.0	9.35	0.437	mg/L	93.5
Mn 257.610	1.00	0.952	0.044	mg/L	95.2
Mo 202.030	0.995	0.950	0.040	mg/L	95.5
Ni 231.604	1.00	0.951	0.040	mg/L	95.1
Pb 220.353	1.000	0.961	0.016	mg/L	96.1
Sb 206.833	1.20	0.929	0.012	mg/L	77.3
Se 196.026	1.00	0.899	0.018	mg/L	89.8
Si 288.158	10.00	8.55	0.302	mg/L	85.6
Sn 189.933	1.01	0.0304	0.004	mg/L	2.2
Ti 337.280	1.000	0.965	0.043	mg/L	96.6
Tl 190.800	1.01	0.686	0.029	mg/L	67.3
V 292.402	1.00	0.949	0.037	mg/L	94.9
Zn 206.200	1.00	0.955	0.049	mg/L	95.0

Sequence No.: 3
Sample ID: TC BLK 5/25
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 5/29/2001 2:16:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC BLK 5/25

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 360.073	3642959.3				43237.99	1.19%
Ag 328.068	-59.3	-0.00008 mg/L	0.000038	-0.00008 mg/L	0.000038	48.31%
Al 237.312	49.0	0.00289 mg/L	0.001769	0.00289 mg/L	0.001769	61.13%
As 188.979	7.2	0.00068 mg/L	0.000304	0.00068 mg/L	0.000304	44.42%
Ba 230.424	749.6	0.00198 mg/L	0.000387	0.00198 mg/L	0.000387	19.55%
Be 234.861	366.0	0.00020 mg/L	0.000033	0.00020 mg/L	0.000033	16.77%
Ca 227.549	10.3	0.00737 mg/L	0.007277	0.00737 mg/L	0.007277	98.70%
Cd 228.802	108.3	0.00023 mg/L	0.000054	0.00023 mg/L	0.000054	23.42%
Co 228.616	57.0	0.00027 mg/L	0.000045	0.00027 mg/L	0.000045	16.88%
Cr 267.716	205.2	0.00055 mg/L	0.000008	0.00055 mg/L	0.000008	1.46%
Cu 327.396	538.6	0.00120 mg/L	0.000043	0.00120 mg/L	0.000043	3.60%
Fe 261.387	727.5	0.0269 mg/L	0.00104	0.0269 mg/L	0.00104	3.88%
Mg 279.079	223.5	0.00326 mg/L	0.000427	0.00326 mg/L	0.000427	13.08%
Mn 257.610	711.2	0.00030 mg/L	0.000040	0.00030 mg/L	0.000040	13.47%
Mo 202.030	23.1	0.00038 mg/L	0.000052	0.00038 mg/L	0.000052	13.80%
Ni 231.604	80.4	0.00037 mg/L	0.000022	0.00037 mg/L	0.000022	5.98%
Pb 220.353	13.5	0.00050 mg/L	0.000076	0.00050 mg/L	0.000076	15.11%
Sb 206.833	7.7	0.00043 mg/L	0.000208	0.00043 mg/L	0.000208	48.63%
Se 196.026	11.2	0.00130 mg/L	0.000142	0.00130 mg/L	0.000142	10.96%
Si 288.158	-124.7	-0.00106 mg/L	0.000223	-0.00106 mg/L	0.000223	20.97%
Sn 189.933	85.3	0.00537 mg/L	0.000394	0.00537 mg/L	0.000394	7.34%
Ti 337.280	548.9	0.00032 mg/L	0.000006	0.00032 mg/L	0.000006	1.89%
Tl 190.800	316.7	0.0244 mg/L	0.00150	0.0244 mg/L	0.00150	6.13%
V 292.402	81.0	0.00026 mg/L	0.000037	0.00026 mg/L	0.000037	14.38%
Zn 206.200	985.1	0.00521 mg/L	0.000159	0.00521 mg/L	0.000159	3.05%
K 766.490	3370.6	0.159 mg/L	0.0084	0.159 mg/L	0.0084	5.26%
Na 589.592	2976493.0	74.8 mg/L	0.43	74.8 mg/L	0.43	0.57%
Sr 407.771	415.2	0.00695 mg/L	0.000050	0.00695 mg/L	0.000050	0.71%
Sr 421.552	164.3	0.0133 mg/L	0.00007	0.0133 mg/L	0.00007	0.51%
Sample signal is less than that of the lowest standard.						
Sr 460.733	-13.7	-0.00012 mg/L	0.002004	-0.00012 mg/L	0.002004	>999.9%

Sequence No.: 4
Sample ID: TC0560705
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 47
Date Collected: 5/29/2001 2:20:59 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0560705

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3594008.4						23310.36	0.65%
Ag 328.068	295.8	0.00039	mg/L	0.000043	0.00393	mg/L	0.000435	11.05%
Al 237.312	1971.9	0.107	mg/L	0.0006	1.07	mg/L	0.006	0.55%
As 188.979	28.9	0.00272	mg/L	0.000228	0.0272	mg/L	0.00228	8.41%
Ba 230.424	1953.5	0.00533	mg/L	0.000089	0.0533	mg/L	0.00089	1.66%
Be 234.861	61.6	0.00003	mg/L	0.000002	0.00026	mg/L	0.000022	8.46%
Ca 227.549	57143.9	43.6	mg/L	1.08	436	mg/L	10.8	2.47%
Cd 228.802	900.5	0.00189	mg/L	0.000024	0.0189	mg/L	0.00024	1.28%
Co 228.616	37.7	0.00020	mg/L	0.000010	0.00199	mg/L	0.000101	5.05%
Cr 267.716	318.5	0.00093	mg/L	0.000065	0.00932	mg/L	0.000647	6.94%
Cu 327.396	19742.6	0.0439	mg/L	0.00273	0.439	mg/L	0.0273	6.21%
Fe 261.387	3024.4	0.113	mg/L	0.0019	1.13	mg/L	0.019	1.69%
Mg 279.079	107750.1	1.57	mg/L	0.051	15.7	mg/L	0.51	3.24%
Mn 257.610	84646.0	0.0358	mg/L	0.00095	0.358	mg/L	0.0095	2.65%
Mo 202.030	43.6	0.00072	mg/L	0.000015	0.00716	mg/L	0.000147	2.05%
Ni 231.604	1436.2	0.00664	mg/L	0.000145	0.0664	mg/L	0.00145	2.17%
Pb 220.353	183.8	0.00686	mg/L	0.000168	0.0686	mg/L	0.00168	2.45%
Sb 206.833	43.6	0.00219	mg/L	0.000064	0.0219	mg/L	0.00064	2.92%
Se 196.026	25.8	0.00295	mg/L	0.001134	0.0295	mg/L	0.01134	38.46%
Si 288.158	129816.7	1.14	mg/L	0.032	11.4	mg/L	0.32	2.78%
Sn 189.933	1568.6	0.0958	mg/L	0.00285	0.958	mg/L	0.0285	2.98%
Ti 337.280	4315.9	0.00435	mg/L	0.000139	0.0435	mg/L	0.00139	3.18%
Tl 190.800	1032.8	0.0798	mg/L	0.00504	0.798	mg/L	0.0504	6.32%
V 292.402	4368.6	0.0139	mg/L	0.00038	0.139	mg/L	0.0038	2.73%
Zn 206.200	5218.9	0.0276	mg/L	0.00042	0.276	mg/L	0.0042	1.53%
K 766.490	10129.4	0.474	mg/L	0.0010	4.74	mg/L	0.010	0.20%
Na 589.592	3264123.0	82.0	mg/L	0.34	820	mg/L	3.4	0.42%
Sr 407.771	130054.6	0.0816	mg/L	0.00091	0.816	mg/L	0.0091	1.11%

Sr 421.552	64279.3	0.0875 mg/L	0.00100	0.875 mg/L	0.0100	1.14%
Sr 460.733	1773.5	0.0769 mg/L	0.00355	0.769 mg/L	0.0355	4.61%

Sequence No.: 5
Sample ID: TC0560705SDL 0.2
Analyst:
Sample Wt:
Dilution: 50X

Autosampler Location: 48
Date Collected: 5/29/2001 2:25:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC0560705SDL 0.2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3474193.2						5781.09	0.17%
Ag 328.068	-8.9	-0.00001	mg/L	0.000002	-0.00059	mg/L	0.000116	19.76%
Al 237.312	503.0	0.0275	mg/L	0.00013	1.38	mg/L	0.007	0.48%
As 188.979	8.0	0.00075	mg/L	0.000155	0.0375	mg/L	0.00777	20.73%
Ba 230.424	494.6	0.00135	mg/L	0.000051	0.0673	mg/L	0.00257	3.82%
Be 234.861	17.8	0.00001	mg/L	0.000005	0.00034	mg/L	0.000259	76.29%
Ca 227.549	13428.6	10.3	mg/L	0.28	513	mg/L	13.9	2.70%
Cd 228.802	183.9	0.00039	mg/L	0.000003	0.0193	mg/L	0.00017	0.87%
Co 228.616	24.4	0.00012	mg/L	0.000011	0.00605	mg/L	0.000552	9.12%
Cr 267.716	84.7	0.00025	mg/L	0.000028	0.0123	mg/L	0.00138	11.18%
Cu 327.396	383.9	0.00085	mg/L	0.000028	0.0427	mg/L	0.00141	3.30%
Fe 261.387	1213.0	0.0450	mg/L	0.00214	2.25	mg/L	0.107	4.75%
Mg 279.079	23669.5	0.345	mg/L	0.0072	17.2	mg/L	0.36	2.10%
Mn 257.610	19031.8	0.00805	mg/L	0.000203	0.402	mg/L	0.0102	2.53%
Mo 202.030	32.4	0.00053	mg/L	0.000019	0.0266	mg/L	0.00093	3.49%
Ni 231.604	324.7	0.00150	mg/L	0.000042	0.0751	mg/L	0.00211	2.81%
Pb 220.353	40.9	0.00153	mg/L	0.000303	0.0764	mg/L	0.01514	19.81%
Sb 206.833	10.5	0.00052	mg/L	0.000122	0.0262	mg/L	0.00610	23.29%
Se 196.026	16.7	0.00192	mg/L	0.001833	0.0959	mg/L	0.09166	95.59%
Si 288.158	25344.0	0.223	mg/L	0.0065	11.1	mg/L	0.32	2.91%
Sn 189.933	164.0	0.00961	mg/L	0.000048	0.481	mg/L	0.0024	0.50%
Ti 337.280	1162.6	0.00111	mg/L	0.000041	0.0554	mg/L	0.00207	3.74%
Tl 190.800	133.9	0.0104	mg/L	0.00020	0.519	mg/L	0.0100	1.92%
V 292.402	1045.5	0.00334	mg/L	0.000067	0.167	mg/L	0.0034	2.02%
Zn 206.200	1072.5	0.00567	mg/L	0.000239	0.283	mg/L	0.0119	4.21%
K 766.490	2500.2	0.117	mg/L	0.0002	5.85	mg/L	0.010	0.17%
Na 589.592	714831.9	18.0	mg/L	0.02	898	mg/L	1.0	0.11%
Sr 407.771	29516.5	0.0237	mg/L	0.00002	1.18	mg/L	0.001	0.07%
Sr 421.552	14336.2	0.0297	mg/L	0.00019	1.48	mg/L	0.010	0.64%
Sr 460.733	233.2	0.0105	mg/L	0.00362	0.527	mg/L	0.1808	34.33%

Duplicate Check: TC0560705SDL 0.2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	4.74	5.85	0.010	mg/L	21.1
Na 589.592	820	898	1.001	mg/L	9.1
Sr 407.771	0.816	1.18	0.001	mg/L	36.9
Sr 421.552	0.875	1.48	0.010	mg/L	51.6
Sr 460.733	0.769	0.527	0.181	mg/L	37.4
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00393	-0.00059	0.000	mg/L	270.5
Al 237.312	1.07	1.38	0.007	mg/L	24.8
As 188.979	0.0272	0.0375	0.008	mg/L	32.0
Ba 230.424	0.0533	0.0673	0.003	mg/L	23.3
Be 234.861	0.00026	0.00034	0.000	mg/L	25.7
Ca 227.549	436	513	13.856	mg/L	16.1
Cd 228.802	0.0189	0.0193	0.000	mg/L	1.8
Co 228.616	0.00199	0.00605	0.001	mg/L	100.9
Cr 267.716	0.00932	0.0123	0.001	mg/L	27.7
Cu 327.396	0.439	0.0427	0.001	mg/L	164.6
Fe 261.387	1.13	2.25	0.107	mg/L	66.5
Mg 279.079	15.7	17.2	0.362	mg/L	9.4
Mn 257.610	0.358	0.402	0.010	mg/L	11.7
Mo 202.030	0.00716	0.0266	0.001	mg/L	115.3
Ni 231.604	0.0664	0.0751	0.002	mg/L	12.3
Pb 220.353	0.0686	0.0764	0.015	mg/L	10.8

Sb 206.833	0.0219	0.0262	0.006	mg/L	17.9
Se 196.026	0.0295	0.0959	0.092	mg/L	105.9
Si 288.158	11.4	11.1	0.323	mg/L	2.0
Sn 189.933	0.958	0.481	0.002	mg/L	66.3
Ti 337.280	0.0435	0.0554	0.002	mg/L	24.1
Tl 190.800	0.798	0.519	0.010	mg/L	42.4
V 292.402	0.139	0.167	0.003	mg/L	17.9
Zn 206.200	0.276	0.283	0.012	mg/L	2.7

Sequence No.: 6
Sample ID: TC0560705PS 0.9
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 49
Date Collected: 5/29/2001 2:29:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0560705PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3631368.6						72544.83	2.00%
Ag 328.068	145218.7	0.193	mg/L	0.0043	1.93	mg/L	0.043	2.22%
Al 237.312	181349.0	10.00	mg/L	0.233	100.0	mg/L	2.33	2.33%
As 188.979	9867.1	0.934	mg/L	0.0144	9.34	mg/L	0.144	1.54%
Ba 230.424	3248277.7.	8.57	mg/L	0.218	85.7	mg/L	2.18	2.54%
Be 234.861	1720049.2	0.946	mg/L	0.0267	9.46	mg/L	0.267	2.82%
Ca 227.549	63276.3	48.3	mg/L	1.12	483	mg/L	11.2	2.32%
Cd 228.802	430743.3	0.924	mg/L	0.0240	9.24	mg/L	0.240	2.60%
Co 228.616	190539.9	0.896	mg/L	0.0253	8.96	mg/L	0.253	2.82%
Cr 267.716	352061.4	0.939	mg/L	0.0241	9.39	mg/L	0.241	2.56%
Cu 327.396	402832.9	0.895	mg/L	0.0261	8.95	mg/L	0.261	2.91%
Fe 261.387	26067.6	1.08	mg/L	0.012	10.8	mg/L	0.12	1.11%
Mg 279.079	723720.9	10.6	mg/L	0.31	106	mg/L	3.1	2.94%
Mn 257.610	2288182.1	0.968	mg/L	0.0263	9.68	mg/L	0.263	2.72%
Mo 202.030	55157.6	0.907	mg/L	0.0275	9.07	mg/L	0.275	3.03%
Ni 231.604	198728.4	0.919	mg/L	0.0259	9.19	mg/L	0.259	2.82%
Pb 220.353	24851.6	0.930	mg/L	0.0148	9.30	mg/L	0.148	1.59%
Sb 206.833	16501.0	0.929	mg/L	0.0091	9.29	mg/L	0.091	0.98%
Se 196.026	6796.5	0.783	mg/L	0.0173	7.83	mg/L	0.173	2.21%
Si 288.158	1008399.3	8.68	mg/L	0.098	86.8	mg/L	0.98	1.13%
Sn 189.933	602.9	0.0329	mg/L	0.00197	0.329	mg/L	0.0197	6.00%
Ti 337.280	1674815.0	0.971	mg/L	0.0234	9.71	mg/L	0.234	2.41%
Tl 190.800	10357.4	0.819	mg/L	0.0250	8.19	mg/L	0.250	3.06%
V 292.402	297714.8	0.948	mg/L	0.0221	9.48	mg/L	0.221	2.33%
Zn 206.200	176438.0	0.934	mg/L	0.0271	9.34	mg/L	0.271	2.90%
K 766.490	1102466.3	52.1	mg/L	0.72	521	mg/L	7.2	1.38%
Na 589.592	4772239.5	120	mg/L	2.5	1200	mg/L	24.8	2.07%
Sr 407.771	1604390.2	0.930	mg/L	0.0186	9.30	mg/L	0.186	2.00%
Sr 421.552	786989.0	0.924	mg/L	0.0273	9.24	mg/L	0.273	2.95%
Sr 460.733	24029.8	1.02	mg/L	0.016	10.2	mg/L	0.16	1.55%

Sequence No.: 7
Sample ID: TC0560706
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 50
Date Collected: 5/29/2001 2:33:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0560706

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3605967.8						97576.53	2.71%
Ag 328.068	276.6	0.00037	mg/L	0.000022	0.00368	mg/L	0.000219	5.96%
Al 237.312	1828.1	0.0989	mg/L	0.00027	0.989	mg/L	0.0027	0.27%
As 188.979	20.0	0.00188	mg/L	0.000004	0.0188	mg/L	0.00004	0.21%
Ba 230.424	2054.9	0.00561	mg/L	0.000312	0.0561	mg/L	0.00312	5.57%
Be 234.861	196.3	0.00010	mg/L	0.000050	0.00103	mg/L	0.000495	48.16%
Ca 227.549	59641.9	45.5	mg/L	0.39	455	mg/L	3.9	0.86%
Cd 228.802	822.3	0.00172	mg/L	0.000018	0.0172	mg/L	0.00018	1.04%
Co 228.616	39.0	0.00021	mg/L	0.000012	0.00206	mg/L	0.000123	5.97%

Cr 267.716	262.5	0.00079 mg/L	0.000049	0.00791 mg/L	0.000491	6.21%
Cu 327.396	19128.1	0.0425 mg/L	0.00178	0.425 mg/L	0.0178	4.19%
Fe 261.387	1935.1	0.0722 mg/L	0.00307	0.722 mg/L	0.0307	4.25%
Mg 279.079	107469.5	1.57 mg/L	0.035	15.7 mg/L	0.35	2.25%
Mn 257.610	61327.2	0.0259 mg/L	0.00042	0.259 mg/L	0.0042	1.61%
Mo 202.030	56.5	0.00093 mg/L	0.000215	0.00930 mg/L	0.002150	23.13%
Ni 231.604	1258.2	0.00582 mg/L	0.000024	0.0582 mg/L	0.00024	0.41%
Pb 220.353	146.8	0.00548 mg/L	0.000068	0.0548 mg/L	0.00068	1.24%
Sb 206.833	20.5	0.00086 mg/L	0.000462	0.00856 mg/L	0.004615	53.93%
Se 196.026	34.7	0.00397 mg/L	0.000779	0.0397 mg/L	0.00779	19.61%
Si 288.158	121261.0	1.06 mg/L	0.018	10.6 mg/L	0.18	1.70%
Sn 189.933	794.2	0.0468 mg/L	0.00787	0.468 mg/L	0.0787	16.80%
Ti 337.280	4164.9	0.00429 mg/L	0.000029	0.0429 mg/L	0.00029	0.69%
Tl 190.800	1207.6	0.0932 mg/L	0.00642	0.932 mg/L	0.0642	6.89%
V 292.402	4853.9	0.0155 mg/L	0.00026	0.155 mg/L	0.0026	1.69%
Zn 206.200	4808.5	0.0254 mg/L	0.00067	0.254 mg/L	0.0067	2.63%
K 766.490	10720.9	0.502 mg/L	0.0059	5.02 mg/L	0.059	1.17%
Na 589.592	3241854.0	81.4 mg/L	1.40	814 mg/L	14.0	1.73%
Sr 407.771	147841.5	0.0918 mg/L	0.00059	0.918 mg/L	0.0059	0.65%
Sr 421.552	73146.9	0.0978 mg/L	0.00082	0.978 mg/L	0.0082	0.84%
Sr 460.733	2107.2	0.0913 mg/L	0.00133	0.913 mg/L	0.0133	1.45%

Sequence No.: 8
Sample ID: TC0560706S
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 51
Date Collected: 5/29/2001 2:37:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0560706S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3497171.5						213045.16	6.09%
Ag 328.068	141027.7	0.188	mg/L	0.0046	1.88	mg/L	0.046	2.45%
Al 237.312	175078.1	9.65	mg/L	0.299	96.5	mg/L	2.99	3.10%
As 188.979	9500.9	0.899	mg/L	0.0184	8.99	mg/L	0.184	2.05%
Ba 230.424	3120605.2	8.23	mg/L	0.370	82.3	mg/L	3.70	4.49%
Be 234.861	1677022.7	0.922	mg/L	0.0446	9.22	mg/L	0.446	4.84%
Ca 227.549	68468.6	52.2	mg/L	1.32	522	mg/L	13.2	2.53%
Cd 228.802	410738.0	0.882	mg/L	0.0269	8.82	mg/L	0.269	3.06%
Co 228.616	182490.3	0.858	mg/L	0.0333	8.58	mg/L	0.333	3.88%
Cr 267.716	336571.8	0.898	mg/L	0.0332	8.98	mg/L	0.332	3.70%
Cu 327.396	378344.5	0.841	mg/L	0.0240	8.41	mg/L	0.240	2.85%
Fe 261.387	24160.7	1.01	mg/L	0.015	10.1	mg/L	0.15	1.49%
Mg 279.079	698427.1	10.2	mg/L	0.44	102	mg/L	4.4	4.30%
Mn 257.610	2178860.4	0.922	mg/L	0.0433	9.22	mg/L	0.433	4.70%
Mo 202.030	52866.8	0.870	mg/L	0.0325	8.70	mg/L	0.325	3.74%
Ni 231.604	188609.1	0.873	mg/L	0.0346	8.73	mg/L	0.346	3.96%
Pb 220.353	23778.1	0.890	mg/L	0.0175	8.90	mg/L	0.175	1.97%
Sb 206.833	15918.4	0.896	mg/L	0.0120	8.96	mg/L	0.120	1.34%
Se 196.026	6589.4	0.759	mg/L	0.0216	7.59	mg/L	0.216	2.85%
Si 288.158	988477.9	8.51	mg/L	0.311	85.1	mg/L	3.11	3.65%
Sn 189.933	393.0	0.0194	mg/L	0.00227	0.194	mg/L	0.0227	11.71%
Ti 337.280	1619586.6	0.939	mg/L	0.0441	9.39	mg/L	0.441	4.70%
Tl 190.800	8812.9	0.699	mg/L	0.0289	6.99	mg/L	0.289	4.13%
V 292.402	289031.6	0.921	mg/L	0.0316	9.21	mg/L	0.316	3.43%
Zn 206.200	165339.3	0.875	mg/L	0.0465	8.75	mg/L	0.465	5.31%
K 766.490	1054952.2	49.8	mg/L	0.12	498	mg/L	1.2	0.25%
Na 589.592	5061793.3	127	mg/L	5.7	1270	mg/L	56.9	4.48%
Sr 407.771	1604416.9	0.930	mg/L	0.0377	9.30	mg/L	0.377	4.05%
Sr 421.552	800198.4	0.940	mg/L	0.0153	9.40	mg/L	0.153	1.63%
Sr 460.733	23439.2	0.995	mg/L	0.0127	9.95	mg/L	0.127	1.27%

Sequence No.: 9
Sample ID: TC0560706SD
Analyst:
Sample Wt:
Dilution: 10X

Autosampler Location: 52
Date Collected: 5/29/2001 2:42:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: TC0560706SD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3375422.1						133561.04	3.96%
Ag 328.068	139893.7	0.186	mg/L	0.0025	1.86	mg/L	0.025	1.33%
Al 237.312	173127.3	9.54	mg/L	0.201	95.4	mg/L	2.01	2.11%
As 188.979	9395.9	0.889	mg/L	0.0208	8.89	mg/L	0.208	2.33%
Ba 230.424	3085144.8	8.14	mg/L	0.323	81.4	mg/L	3.23	3.97%
Be 234.861	1659897.0	0.912	mg/L	0.0347	9.12	mg/L	0.347	3.80%
Ca 227.549	67845.1	51.8	mg/L	0.65	518	mg/L	6.5	1.26%
Cd 228.802	405457.6	0.870	mg/L	0.0205	8.70	mg/L	0.205	2.35%
Co 228.616	181012.6	0.851	mg/L	0.0269	8.51	mg/L	0.269	3.16%
Cr 267.716	333881.4	0.891	mg/L	0.0263	8.91	mg/L	0.263	2.95%
Cu 327.396	373711.9	0.831	mg/L	0.0144	8.31	mg/L	0.144	1.73%
Fe 261.387	24015.0	1.00	mg/L	0.018	10.0	mg/L	0.18	1.82%
Mg 279.079	690504.2	10.1	mg/L	0.36	101	mg/L	3.6	3.56%
Mn 257.610	2149992.8	0.909	mg/L	0.0364	9.09	mg/L	0.364	4.00%
Mo 202.030	52387.3	0.862	mg/L	0.0262	8.62	mg/L	0.262	3.05%
Ni 231.604	186122.6	0.861	mg/L	0.0299	8.61	mg/L	0.299	3.48%
Pb 220.353	23553.2	0.881	mg/L	0.0214	8.81	mg/L	0.214	2.43%
Sb 206.833	15740.2	0.886	mg/L	0.0177	8.86	mg/L	0.177	1.99%
Se 196.026	6568.5	0.756	mg/L	0.0244	7.56	mg/L	0.244	3.23%
Si 288.158	965739.0	8.31	mg/L	0.286	83.1	mg/L	2.86	3.44%
Sn 189.933	326.9	0.0153	mg/L	0.00285	0.153	mg/L	0.0285	18.61%
Ti 337.280	1597782.6	0.926	mg/L	0.0339	9.26	mg/L	0.339	3.66%
Tl 190.800	9002.0	0.713	mg/L	0.0215	7.13	mg/L	0.215	3.01%
V 292.402	287315.4	0.915	mg/L	0.0228	9.15	mg/L	0.228	2.49%
Zn 206.200	163585.6	0.866	mg/L	0.0408	8.66	mg/L	0.408	4.71%
K 766.490	1061689.5	50.1	mg/L	0.49	501	mg/L	4.9	0.98%
Na 589.592	5139204.8	129	mg/L	0.7	1290	mg/L	6.6	0.51%
Sr 407.771	1596523.7	0.926	mg/L	0.0087	9.26	mg/L	0.087	0.94%
Sr 421.552	793208.7	0.931	mg/L	0.0081	9.31	mg/L	0.081	0.87%
Sr 460.733	23531.5	0.999	mg/L	0.0100	9.99	mg/L	0.100	1.00%

Duplicate Check: TC0560706SD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	498	501	4.909	mg/L	0.6
Na 589.592	1270	1290	6.647	mg/L	1.5
Sr 407.771	9.30	9.26	0.087	mg/L	0.5
Sr 421.552	9.40	9.31	0.081	mg/L	0.9
Sr 460.733	9.95	9.99	0.100	mg/L	0.4
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	1.88	1.86	0.025	mg/L	0.8
Al 237.312	96.5	95.4	2.011	mg/L	1.1
As 188.979	8.99	8.89	0.208	mg/L	1.1
Ba 230.424	82.3	81.4	3.231	mg/L	1.1
Be 234.861	9.22	9.12	0.347	mg/L	1.0
Ca 227.549	522	518	6.542	mg/L	0.9
Cd 228.802	8.82	8.70	0.205	mg/L	1.3
Co 228.616	8.58	8.51	0.269	mg/L	0.8
Cr 267.716	8.98	8.91	0.263	mg/L	0.8
Cu 327.396	8.41	8.31	0.144	mg/L	1.2
Fe 261.387	10.1	10.0	0.182	mg/L	0.6
Mg 279.079	102	101	3.587	mg/L	1.1
Mn 257.610	9.22	9.09	0.364	mg/L	1.3
Mo 202.030	8.70	8.62	0.262	mg/L	0.9
Ni 231.604	8.73	8.61	0.299	mg/L	1.3
Pb 220.353	8.90	8.81	0.214	mg/L	1.0
Sb 206.833	8.96	8.86	0.177	mg/L	1.1
Se 196.026	7.59	7.56	0.244	mg/L	0.3
Si 288.158	85.1	83.1	2.860	mg/L	2.3
Sn 189.933	0.194	0.153	0.029	mg/L	23.7
Ti 337.280	9.39	9.26	0.339	mg/L	1.3
Tl 190.800	6.99	7.13	0.215	mg/L	2.0
V 292.402	9.21	9.15	0.228	mg/L	0.6
Zn 206.200	8.75	8.66	0.408	mg/L	1.1

Sequence No.: 10
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 2:46:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3617678.9						85744.33	2.37%
Ag 328.068	273934.5	0.364	mg/L	0.0081	0.364	mg/L	0.0081	2.21%
QC value within limits for Ag 328.068 Recovery = 91.05%								
Al 237.312	169261.9	9.35	mg/L	0.218	9.35	mg/L	0.218	2.33%
QC value within limits for Al 237.312 Recovery = 93.54%								
As 188.979	3712.2	0.353	mg/L	0.0031	0.353	mg/L	0.0031	0.88%
QC value less than the lower limit for As 188.979 Recovery = 88.14%								
Ba 230.424	367989.8	0.972	mg/L	0.0246	0.972	mg/L	0.0246	2.54%
QC value within limits for Ba 230.424 Recovery = 97.17%								
Be 234.861	88677.5	0.0486	mg/L	0.00107	0.0486	mg/L	0.00107	2.21%
QC value within limits for Be 234.861 Recovery = 97.13%								
Ca 227.549	12749.4	9.62	mg/L	0.049	9.62	mg/L	0.049	0.51%
QC value within limits for Ca 227.549 Recovery = 96.22%								
Cd 228.802	21736.3	0.0461	mg/L	0.00029	0.0461	mg/L	0.00029	0.64%
QC value within limits for Cd 228.802 Recovery = 92.17%								
Co 228.616	41469.1	0.195	mg/L	0.0047	0.195	mg/L	0.0047	2.42%
QC value within limits for Co 228.616 Recovery = 97.54%								
Cr 267.716	180444.8	0.485	mg/L	0.0127	0.485	mg/L	0.0127	2.62%
QC value within limits for Cr 267.716 Recovery = 96.94%								
Cu 327.396	215385.6	0.479	mg/L	0.0106	0.479	mg/L	0.0106	2.22%
QC value within limits for Cu 327.396 Recovery = 95.71%								
Fe 261.387	104481.9	3.89	mg/L	0.107	3.89	mg/L	0.107	2.74%
QC value within limits for Fe 261.387 Recovery = 97.26%								
Mg 279.079	630446.4	9.21	mg/L	0.276	9.21	mg/L	0.276	2.99%
QC value within limits for Mg 279.079 Recovery = 92.06%								
Mn 257.610	1137812.0	0.481	mg/L	0.0125	0.481	mg/L	0.0125	2.59%
QC value within limits for Mn 257.610 Recovery = 96.23%								
Mo 202.030	57144.9	0.940	mg/L	0.0323	0.940	mg/L	0.0323	3.43%
QC value within limits for Mo 202.030 Recovery = 94.46%								
Ni 231.604	103645.5	0.480	mg/L	0.0143	0.480	mg/L	0.0143	2.99%
QC value within limits for Ni 231.604 Recovery = 95.93%								
Pb 220.353	12278.6	0.461	mg/L	0.0047	0.461	mg/L	0.0047	1.03%
QC value within limits for Pb 220.353 Recovery = 92.22%								
Sb 206.833	18888.0	1.08	mg/L	0.008	1.08	mg/L	0.008	0.71%
QC value less than the lower limit for Sb 206.833 Recovery = 89.49%								
Se 196.026	3261.0	0.374	mg/L	0.0036	0.374	mg/L	0.0036	0.96%
QC value within limits for Se 196.026 Recovery = 93.58%								
Si 288.158	4303.9	0.0451	mg/L	0.00044	0.0451	mg/L	0.00044	0.99%
QC value less than the lower limit for Si 288.158 Recovery = 0.90%								
Sn 189.933	12835.6	0.807	mg/L	0.0254	0.807	mg/L	0.0254	3.15%
QC value less than the lower limit for Sn 189.933 Recovery = 80.77%								
Ti 337.280	1644057.6	0.946	mg/L	0.0235	0.946	mg/L	0.0235	2.49%
QC value within limits for Ti 337.280 Recovery = 94.70%								
Tl 190.800	6321.2	0.497	mg/L	0.0106	0.497	mg/L	0.0106	2.13%
QC value within limits for Tl 190.800 Recovery = 99.44%								
V 292.402	303169.7	0.966	mg/L	0.0250	0.966	mg/L	0.0250	2.59%
QC value within limits for V 292.402 Recovery = 96.61%								
Zn 206.200	173036.4	0.915	mg/L	0.0307	0.915	mg/L	0.0307	3.35%
QC value within limits for Zn 206.200 Recovery = 91.53%								
K 766.490	1010185.5	47.7	mg/L	1.26	47.7	mg/L	1.26	2.65%
QC value within limits for K 766.490 Recovery = 95.39%								
Na 589.592	1808327.5	45.4	mg/L	0.57	45.4	mg/L	0.57	1.24%
QC value within limits for Na 589.592 Recovery = 90.84%								
Sr 407.771	1464310.8	0.850	mg/L	0.0088	0.850	mg/L	0.0088	1.04%
QC value less than the lower limit for Sr 407.771 Recovery = 84.97%								
Sr 421.552	724625.0	0.852	mg/L	0.0082	0.852	mg/L	0.0082	0.96%
QC value less than the lower limit for Sr 421.552 Recovery = 85.20%								
Sr 460.733	20871.9	0.888	mg/L	0.0246	0.888	mg/L	0.0246	2.77%
QC value less than the lower limit for Sr 460.733 Recovery = 88.77%								

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 2:50:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3085995.3						17655.77	0.57%
Ag 328.068	-154.2	-0.00021	mg/L	0.000022	-0.00021	mg/L	0.000022	10.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	100.2	0.00557	mg/L	0.001206	0.00557	mg/L	0.001206	21.68%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.9	0.00027	mg/L	0.000052	0.00027	mg/L	0.000052	18.80%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	117.6	0.00031	mg/L	0.000003	0.00031	mg/L	0.000003	0.90%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-28.1	-0.00002	mg/L	0.000004	-0.00002	mg/L	0.000004	24.25%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	10.5	0.00786	mg/L	0.001162	0.00786	mg/L	0.001162	14.79%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	30.2	0.00006	mg/L	0.000014	0.00006	mg/L	0.000014	22.10%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	-3.5	-0.00001	mg/L	0.000011	-0.00001	mg/L	0.000011	79.23%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	17.3	0.00005	mg/L	0.000030	0.00005	mg/L	0.000030	61.41%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-11.0	-0.00002	mg/L	0.000012	-0.00002	mg/L	0.000012	47.05%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	158.2	0.00583	mg/L	0.000033	0.00583	mg/L	0.000033	0.56%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	164.8	0.00241	mg/L	0.000164	0.00241	mg/L	0.000164	6.81%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	58.0	0.00002	mg/L	0.000003	0.00002	mg/L	0.000003	11.09%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	76.6	0.00126	mg/L	0.000066	0.00126	mg/L	0.000066	5.23%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	14.6	0.00007	mg/L	0.000014	0.00007	mg/L	0.000014	20.66%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-2.2	-0.00008	mg/L	0.000074	-0.00008	mg/L	0.000074	94.18%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	2.9	0.00017	mg/L	0.000091	0.00017	mg/L	0.000091	55.14%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	18.9	0.00218	mg/L	0.000445	0.00218	mg/L	0.000445	20.40%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	-217.0	-0.00186	mg/L	0.000104	-0.00186	mg/L	0.000104	5.63%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	95.4	0.00601	mg/L	0.000075	0.00601	mg/L	0.000075	1.24%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	220.6	0.00013	mg/L	0.000033	0.00013	mg/L	0.000033	25.14%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	99.8	0.00768	mg/L	0.000768	0.00768	mg/L	0.000768	10.00%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	110.4	0.00035	mg/L	0.000091	0.00035	mg/L	0.000091	25.74%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	127.2	0.00067	mg/L	0.000021	0.00067	mg/L	0.000021	3.13%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	2007.4	0.0948	mg/L	0.00216	0.0948	mg/L	0.00216	2.28%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	6029.9	0.151	mg/L	0.0023	0.151	mg/L	0.0023	1.53%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	-26.5	0.00669	mg/L	0.000039	0.00669	mg/L	0.000039	0.58%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	-92.0	0.0130	mg/L	0.00006	0.0130	mg/L	0.00006	0.49%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								
Sr 460.733	26.9	0.00163	mg/L	0.001788	0.00163	mg/L	0.001788	109.68%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 5/29/2001 3:02:57 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: PBW 7P WG98171-03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/29/2001 3:02:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: PBW 7P WG98171-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3168364.7						8377.57	0.26%
Ag 328.068	-104.9	-0.00014	mg/L	0.000005	-0.00014	mg/L	0.000005	3.61%
Al 237.312	222.4	0.0123	mg/L	0.00003	0.0123	mg/L	0.00003	0.26%
As 188.979	3.8	0.00035	mg/L	0.000056	0.00035	mg/L	0.000056	16.01%
Ba 230.424	133.2	0.00035	mg/L	0.000003	0.00035	mg/L	0.000003	0.92%
Be 234.861	-26.8	-0.00002	mg/L	0.000001	-0.00002	mg/L	0.000001	6.68%
Ca 227.549	47.9	0.0364	mg/L	0.01075	0.0364	mg/L	0.01075	29.51%
Cd 228.802	32.3	0.00007	mg/L	0.000003	0.00007	mg/L	0.000003	4.59%
Co 228.616	-1.0	-0.00001	mg/L	0.000015	-0.00001	mg/L	0.000015	280.77%
Cr 267.716	-19.6	-0.00005	mg/L	0.000008	-0.00005	mg/L	0.000008	16.86%
Cu 327.396	190.4	0.00042	mg/L	0.000059	0.00042	mg/L	0.000059	13.96%
Fe 261.387	211.5	0.00782	mg/L	0.000207	0.00782	mg/L	0.000207	2.65%
Mg 279.079	419.4	0.00612	mg/L	0.000162	0.00612	mg/L	0.000162	2.64%
Mn 257.610	1380.7	0.00058	mg/L	0.000008	0.00058	mg/L	0.000008	1.31%
Mo 202.030	-3.2	-0.00005	mg/L	0.000042	-0.00005	mg/L	0.000042	78.00%
Ni 231.604	87.1	0.00040	mg/L	0.000019	0.00040	mg/L	0.000019	4.72%
Pb 220.353	7.7	0.00029	mg/L	0.000253	0.00029	mg/L	0.000253	87.79%
Sb 206.833	-0.5	-0.00003	mg/L	0.000363	-0.00003	mg/L	0.000363	>999.9%
Se 196.026	0.2	0.00002	mg/L	0.000597	0.00002	mg/L	0.000597	>999.9%
Si 288.158	954.4	0.00821	mg/L	0.000565	0.00821	mg/L	0.000565	6.88%
Sn 189.933	123.9	0.00780	mg/L	0.000145	0.00780	mg/L	0.000145	1.86%
Ti 337.280	374.0	0.00022	mg/L	0.000016	0.00022	mg/L	0.000016	7.36%
Tl 190.800	56.3	0.00434	mg/L	0.000603	0.00434	mg/L	0.000603	13.90%
V 292.402	89.3	0.00028	mg/L	0.000090	0.00028	mg/L	0.000090	31.56%
Zn 206.200	733.8	0.00388	mg/L	0.000112	0.00388	mg/L	0.000112	2.88%
K 766.490	1141.9	0.0539	mg/L	0.00112	0.0539	mg/L	0.00112	2.08%
Na 589.592	5145.9	0.129	mg/L	0.0054	0.129	mg/L	0.0054	4.16%
Sr 407.771	239.6	0.00684	mg/L	0.000011	0.00684	mg/L	0.000011	0.16%
Sr 421.552	-3.3	0.0131	mg/L	0.00008	0.0131	mg/L	0.00008	0.60%
Sample signal is less than that of the lowest standard.								
Sr 460.733	9.3	0.00087	mg/L	0.001134	0.00087	mg/L	0.001134	130.00%

Sequence No.: 2
Sample ID: LCSW 7P WG98171-04
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/29/2001 3:07:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCSW 7P WG98171-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3657837.2						74055.79	2.02%
Ag 328.068	271785.0	0.361	mg/L	0.0081	0.361	mg/L	0.0081	2.25%
Al 237.312	164110.1	9.07	mg/L	0.204	9.07	mg/L	0.204	2.25%
As 188.979	3697.9	0.351	mg/L	0.0044	0.351	mg/L	0.0044	1.25%
Ba 230.424	360692.7	0.952	mg/L	0.0199	0.952	mg/L	0.0199	2.09%

Be 234.861	86506.7	0.0474 mg/L	0.00108	0.0474 mg/L	0.00108	2.29%
Ca 227.549	12448.4	9.40 mg/L	0.078	9.40 mg/L	0.078	0.83%
Cd 228.802	21076.1	0.0447 mg/L	0.00040	0.0447 mg/L	0.00040	0.90%
Co 228.616	39796.1	0.187 mg/L	0.0032	0.187 mg/L	0.0032	1.70%
Cr 267.716	174627.0	0.469 mg/L	0.0093	0.469 mg/L	0.0093	1.98%
Cu 327.396	205247.8	0.456 mg/L	0.0108	0.456 mg/L	0.0108	2.37%
Fe 261.387	100393.2	3.74 mg/L	0.082	3.74 mg/L	0.082	2.18%
Mg 279.079	610409.4	8.91 mg/L	0.208	8.91 mg/L	0.208	2.33%
Mn 257.610	1113195.1	0.471 mg/L	0.0101	0.471 mg/L	0.0101	2.14%
Mo 202.030	54555.7	0.897 mg/L	0.0238	0.897 mg/L	0.0238	2.65%
Ni 231.604	98317.7	0.455 mg/L	0.0098	0.455 mg/L	0.0098	2.15%
Pb 220.353	12100.6	0.454 mg/L	0.0050	0.454 mg/L	0.0050	1.11%
Sb 206.833	18426.6	1.05 mg/L	0.010	1.05 mg/L	0.010	0.94%
Se 196.026	3136.0	0.360 mg/L	0.0035	0.360 mg/L	0.0035	0.97%
Si 288.158	562861.7	4.84 mg/L	0.102	4.84 mg/L	0.102	2.10%
Sn 189.933	13675.5	0.860 mg/L	0.0208	0.860 mg/L	0.0208	2.42%
Ti 337.280	1646892.4	0.948 mg/L	0.0198	0.948 mg/L	0.0198	2.09%
Tl 190.800	5695.4	0.449 mg/L	0.0112	0.449 mg/L	0.0112	2.50%
V 292.402	292031.5	0.931 mg/L	0.0189	0.931 mg/L	0.0189	2.03%
Zn 206.200	170492.4	0.902 mg/L	0.0173	0.902 mg/L	0.0173	1.92%
K 766.490	1000303.9	47.2 mg/L	0.08	47.2 mg/L	0.08	0.16%
Na 589.592	1786835.1	44.9 mg/L	0.15	44.9 mg/L	0.15	0.33%
Sr 407.771	1488916.2	0.864 mg/L	0.0027	0.864 mg/L	0.0027	0.31%
Sr 421.552	738210.1	0.868 mg/L	0.0026	0.868 mg/L	0.0026	0.30%
Sr 460.733	21313.5	0.906 mg/L	0.0086	0.906 mg/L	0.0086	0.95%

Sequence No.: 3
Sample ID: 0555207
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 5/29/2001 3:11:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0555207

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3174305.8						17631.15	0.56%
Ag 328.068	-67.7	-0.00009	mg/L	0.000036	-0.00009	mg/L	0.000036	39.61%
Al 237.312	436.0	0.0241	mg/L	0.00066	0.0241	mg/L	0.00066	2.76%
As 188.979	-1.9	-0.00017	mg/L	0.000609	-0.00017	mg/L	0.000609	349.79%
Ba 230.424	150.3	0.00040	mg/L	0.000040	0.00040	mg/L	0.000040	10.08%
Be 234.861	-13.4	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	21.45%
Ca 227.549	143.8	0.110	mg/L	0.0014	0.110	mg/L	0.0014	1.26%
Cd 228.802	3.0	0.00001	mg/L	0.000020	0.00001	mg/L	0.000020	323.27%
Co 228.616	7.1	0.00003	mg/L	0.000002	0.00003	mg/L	0.000002	5.59%
Cr 267.716	-1.9	0.00000	mg/L	0.000045	0.00000	mg/L	0.000045	>999.9%
Cu 327.396	74.6	0.00017	mg/L	0.000061	0.00017	mg/L	0.000061	36.99%
Fe 261.387	145.1	0.00536	mg/L	0.000420	0.00536	mg/L	0.000420	7.83%
Mg 279.079	829.2	0.0121	mg/L	0.00015	0.0121	mg/L	0.00015	1.24%
Mn 257.610	289.0	0.00012	mg/L	0.000004	0.00012	mg/L	0.000004	3.24%
Mo 202.030	49.9	0.00082	mg/L	0.000195	0.00082	mg/L	0.000195	23.77%
Ni 231.604	128.5	0.00059	mg/L	0.000023	0.00059	mg/L	0.000023	3.92%
Pb 220.353	6.3	0.00024	mg/L	0.000210	0.00024	mg/L	0.000210	89.06%
Sb 206.833	3.5	0.00020	mg/L	0.000458	0.00020	mg/L	0.000458	233.73%
Se 196.026	-0.1	-0.00001	mg/L	0.000782	-0.00001	mg/L	0.000782	>999.9%
Si 288.158	1834.5	0.0158	mg/L	0.00026	0.0158	mg/L	0.00026	1.66%
Sn 189.933	33.9	0.00213	mg/L	0.000534	0.00213	mg/L	0.000534	25.11%
Ti 337.280	523.6	0.00031	mg/L	0.000014	0.00031	mg/L	0.000014	4.65%
Tl 190.800	49.5	0.00381	mg/L	0.000212	0.00381	mg/L	0.000212	5.57%
V 292.402	127.0	0.00040	mg/L	0.000089	0.00040	mg/L	0.000089	22.09%
Zn 206.200	-19.7	-0.00011	mg/L	0.000005	-0.00011	mg/L	0.000005	4.63%
K 766.490	1458.2	0.0689	mg/L	0.00040	0.0689	mg/L	0.00040	0.57%
Na 589.592	4834.5	0.121	mg/L	0.0007	0.121	mg/L	0.0007	0.60%
Sr 407.771	1259.0	0.00743	mg/L	0.000011	0.00743	mg/L	0.000011	0.15%
Sr 421.552	579.2	0.0137	mg/L	0.00007	0.0137	mg/L	0.00007	0.51%
Sample signal is less than that of the lowest standard.								
Sr 460.733	4.8	0.00068	mg/L	0.003016	0.00068	mg/L	0.003016	444.95%

Sequence No.: 4

Autosampler Location: 12

Sample ID: 0555207SDL 0.2 **Date Collected:** 5/29/2001 3:15:33 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: 5X **Data Type:** Original

Mean Data: 0555207SDL 0.2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3086597.7						62483.90	2.02%
Ag 328.068	-168.0	-0.00022	mg/L	0.000015	-0.00112	mg/L	0.000073	6.52%
Al 237.312	156.2	0.00864	mg/L	0.000112	0.0432	mg/L	0.00056	1.30%
As 188.979	3.1	0.00029	mg/L	0.000294	0.00143	mg/L	0.001472	102.83%
Ba 230.424	107.1	0.00028	mg/L	0.000005	0.00141	mg/L	0.000025	1.79%
Be 234.861	-17.4	-0.00001	mg/L	0.000002	-0.00005	mg/L	0.000010	20.74%
Ca 227.549	44.3	0.0338	mg/L	0.00544	0.169	mg/L	0.0272	16.11%
Cd 228.802	2.4	0.00000	mg/L	0.000000	0.00002	mg/L	0.000002	8.18%
Co 228.616	-1.8	-0.00001	mg/L	0.000013	-0.00004	mg/L	0.000063	162.88%
Cr 267.716	8.2	0.00002	mg/L	0.000035	0.00012	mg/L	0.000177	151.54%
Cu 327.396	-9.1	-0.00002	mg/L	0.000104	-0.00010	mg/L	0.000520	513.84%
Fe 261.387	105.1	0.00388	mg/L	0.000292	0.0194	mg/L	0.00146	7.52%
Mg 279.079	331.5	0.00484	mg/L	0.000319	0.0242	mg/L	0.00159	6.59%
Mn 257.610	211.3	0.00009	mg/L	0.000003	0.00045	mg/L	0.000013	3.00%
Mo 202.030	22.5	0.00037	mg/L	0.000025	0.00185	mg/L	0.000123	6.62%
Ni 231.604	47.7	0.00022	mg/L	0.000005	0.00110	mg/L	0.000023	2.05%
Pb 220.353	-5.8	-0.00022	mg/L	0.000102	-0.00108	mg/L	0.000508	47.19%
Sb 206.833	1.8	0.00010	mg/L	0.000130	0.00050	mg/L	0.000648	129.99%
Se 196.026	1.2	0.00013	mg/L	0.000393	0.00067	mg/L	0.001964	292.11%
Si 288.158	76.1	0.00067	mg/L	0.000448	0.00336	mg/L	0.002238	66.57%
Sn 189.933	18.4	0.00115	mg/L	0.000235	0.00577	mg/L	0.001175	20.38%
Ti 337.280	283.4	0.00017	mg/L	0.000035	0.00083	mg/L	0.000177	21.45%
Tl 190.800	25.4	0.00196	mg/L	0.000246	0.00979	mg/L	0.001231	12.57%
V 292.402	73.2	0.00023	mg/L	0.000129	0.00117	mg/L	0.000646	55.38%
Zn 206.200	25.0	0.00013	mg/L	0.000001	0.00066	mg/L	0.000003	0.39%
K 766.490	1209.4	0.0571	mg/L	0.00085	0.286	mg/L	0.0042	1.49%
Na 589.592	3349.0	0.0841	mg/L	0.00352	0.421	mg/L	0.0176	4.18%
Sr 407.771	229.9	0.00684	mg/L	0.000028	0.0342	mg/L	0.00014	0.41%
Sr 421.552	39.0	0.0131	mg/L	0.00000	0.0655	mg/L	0.00001	0.01%
Sample signal is less than that of the lowest standard.								
Sr 460.733	3.1	0.00060	mg/L	0.001720	0.00302	mg/L	0.008598	284.66%

Duplicate Check: 0555207SDL 0.2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.0689	0.286	0.004	mg/L	122.3
Na 589.592	0.121	0.421	0.018	mg/L	110.4
Sr 407.771	0.00743	0.0342	0.000	mg/L	128.6
Sr 421.552	0.0137	0.0655	0.000	mg/L	130.7
Sr 460.733	0.00068	0.00302	0.009	mg/L	126.7
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	-0.00009	-0.00112	0.000	mg/L	-170.2
Al 237.312	0.0241	0.0432	0.001	mg/L	56.8
As 188.979	-0.00017	0.00143	0.001	mg/L	255.4
Ba 230.424	0.00040	0.00141	0.000	mg/L	112.3
Be 234.861	-0.00001	-0.00005	0.000	mg/L	-145.5
Ca 227.549	0.110	0.169	0.027	mg/L	42.5
Cd 228.802	0.00001	0.00002	0.000	mg/L	121.1
Co 228.616	0.00003	-0.00004	0.000	mg/L	-3986.0
Cr 267.716	0.00000	0.00012	0.000	mg/L	207.5
Cu 327.396	0.00017	-0.00010	0.001	mg/L	827.2
Fe 261.387	0.00536	0.0194	0.001	mg/L	113.4
Mg 279.079	0.0121	0.0242	0.002	mg/L	66.6
Mn 257.610	0.00012	0.00045	0.000	mg/L	114.2
Mo 202.030	0.00082	0.00185	0.000	mg/L	77.2
Ni 231.604	0.00059	0.00110	0.000	mg/L	59.9
Pb 220.353	0.00024	-0.00108	0.001	mg/L	-312.5
Sb 206.833	0.00020	0.00050	0.001	mg/L	87.1
Se 196.026	-0.00001	0.00067	0.002	mg/L	209.0
Si 288.158	0.0158	0.00336	0.002	mg/L	129.8
Sn 189.933	0.00213	0.00577	0.001	mg/L	92.3

Ti 337.280	0.00031	0.00083	0.000	mg/L	91.5
Tl 190.800	0.00381	0.00979	0.001	mg/L	88.0
V 292.402	0.00040	0.00117	0.001	mg/L	97.0
Zn 206.200	-0.00011	0.00066	0.000	mg/L	276.6

Sequence No.: 5
Sample ID: 0555207PS 0.9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 5/29/2001 3:19:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0555207PS 0.9

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3720054.8						29686.68	0.80%
Ag 328.068	139680.7	0.186	mg/L	0.0023	0.186	mg/L	0.0023	1.22%
Al 237.312	169285.0	9.33	mg/L	0.136	9.33	mg/L	0.136	1.45%
As 188.979	9286.9	0.879	mg/L	0.0125	0.879	mg/L	0.0125	1.42%
Ba 230.424	3280718.4	8.65	mg/L	0.125	8.65	mg/L	0.125	1.44%
Be 234.861	1661590.0	0.913	mg/L	0.0087	0.913	mg/L	0.0087	0.95%
Ca 227.549	12563.9	9.54	mg/L	0.104	9.54	mg/L	0.104	1.09%
Cd 228.802	410904.4	0.882	mg/L	0.0134	0.882	mg/L	0.0134	1.52%
Co 228.616	190732.9	0.897	mg/L	0.0168	0.897	mg/L	0.0168	1.88%
Cr 267.716	345521.5	0.922	mg/L	0.0140	0.922	mg/L	0.0140	1.52%
Cu 327.396	405183.3	0.901	mg/L	0.0120	0.901	mg/L	0.0120	1.33%
Fe 261.387	21684.8	0.920	mg/L	0.0119	0.920	mg/L	0.0119	1.30%
Mg 279.079	610693.2	8.92	mg/L	0.169	8.92	mg/L	0.169	1.90%
Mn 257.610	2198217.4	0.930	mg/L	0.0114	0.930	mg/L	0.0114	1.23%
Mo 202.030	53043.8	0.872	mg/L	0.0171	0.872	mg/L	0.0171	1.96%
Ni 231.604	194732.6	0.901	mg/L	0.0162	0.901	mg/L	0.0162	1.80%
Pb 220.353	24282.0	0.908	mg/L	0.0128	0.908	mg/L	0.0128	1.41%
Sb 206.833	15759.8	0.887	mg/L	0.0105	0.887	mg/L	0.0105	1.19%
Se 196.026	7499.2	0.864	mg/L	0.0144	0.864	mg/L	0.0144	1.66%
Si 288.158	1050465.4	9.02	mg/L	0.079	9.02	mg/L	0.079	0.88%
Sn 189.933	-75.7	-0.00707	mg/L	0.000078	-0.00707	mg/L	0.000078	1.11%
Ti 337.280	1641343.4	0.950	mg/L	0.0101	0.950	mg/L	0.0101	1.06%
Tl 190.800	11659.3	0.918	mg/L	0.0202	0.918	mg/L	0.0202	2.20%
V 292.402	286490.7	0.913	mg/L	0.0126	0.913	mg/L	0.0126	1.38%
Zn 206.200	167651.3	0.888	mg/L	0.0159	0.888	mg/L	0.0159	1.79%
K 766.490	986299.2	46.6	mg/L	0.41	46.6	mg/L	0.41	0.89%
Na 589.592	1802626.8	45.3	mg/L	0.44	45.3	mg/L	0.44	0.96%
Sr 407.771	1495203.1	0.867	mg/L	0.0068	0.867	mg/L	0.0068	0.78%
Sr 421.552	740739.9	0.871	mg/L	0.0074	0.871	mg/L	0.0074	0.85%
Sr 460.733	20736.2	0.882	mg/L	0.0114	0.882	mg/L	0.0114	1.29%

Recovery Check: 0555207PS 0.9

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.1	46.6	0.412	mg/L	93.0
Na 589.592	50.1	45.3	0.436	mg/L	90.3
Sr 407.771	1.01	0.867	0.007	mg/L	86.0
Sr 421.552	1.01	0.871	0.007	mg/L	85.7
Sr 460.733	1.00	0.882	0.011	mg/L	88.1
Ag 328.068	0.200	0.186	0.002	mg/L	92.9
Al 237.312	10.0	9.33	0.136	mg/L	93.1
As 188.979	1.000	0.879	0.012	mg/L	87.9
Ba 230.424	10.0	8.65	0.125	mg/L	86.5
Be 234.861	1.000	0.913	0.009	mg/L	91.3
Ca 227.549	10.1	9.54	0.104	mg/L	94.3
Cd 228.802	1.00	0.882	0.013	mg/L	88.2
Co 228.616	1.00	0.897	0.017	mg/L	89.7
Cr 267.716	1.000	0.922	0.014	mg/L	92.2
Cu 327.396	1.00	0.901	0.012	mg/L	90.0
Fe 261.387	1.01	0.920	0.012	mg/L	91.5
Mg 279.079	10.0	8.92	0.169	mg/L	89.1
Mn 257.610	1.00	0.930	0.011	mg/L	93.0
Mo 202.030	0.996	0.872	0.017	mg/L	87.6
Ni 231.604	1.00	0.901	0.016	mg/L	90.0

Pb 220.353	1.00	0.908	0.013	mg/L	90.8
Sb 206.833	1.20	0.887	0.011	mg/L	73.7
Se 196.026	1.000	0.864	0.014	mg/L	86.4
Si 288.158	10.0	9.02	0.079	mg/L	90.0
Sn 189.933	1.00	-0.00707	0.000	mg/L	-0.9
Ti 337.280	1.000	0.950	0.010	mg/L	95.0
Tl 190.800	1.00	0.918	0.020	mg/L	91.5
V 292.402	1.00	0.913	0.013	mg/L	91.2
Zn 206.200	1.000	0.888	0.016	mg/L	88.8

Sequence No.: 6
Sample ID: 0538304 WG98171-01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 5/29/2001 3:24:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 0538304 WG98171-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3107588.1						15232.01	0.49%
Ag 328.068	1102.1	0.00147	mg/L	0.000039	0.00147	mg/L	0.000039	2.63%
Al 237.312	123.6	-0.00318	mg/L	0.001723	-0.00318	mg/L	0.001723	54.18%
As 188.979	-3.0	-0.00028	mg/L	0.000154	-0.00028	mg/L	0.000154	55.09%
Ba 230.424	4323.1	0.0120	mg/L	0.00010	0.0120	mg/L	0.00010	0.83%
Be 234.861	113.2	0.00006	mg/L	0.000005	0.00006	mg/L	0.000005	8.20%
Ca 227.549	188928.3	144	mg/L	3.8	144	mg/L	3.8	2.61%
Cd 228.802	34.5	-0.00008	mg/L	0.000034	-0.00008	mg/L	0.000034	42.38%
Co 228.616	34.8	0.00026	mg/L	0.000056	0.00026	mg/L	0.000056	21.17%
Cr 267.716	185.9	0.00027	mg/L	0.000048	0.00027	mg/L	0.000048	17.68%
Cu 327.396	779.5	0.00173	mg/L	0.000183	0.00173	mg/L	0.000183	10.54%
Fe 261.387	85.3	0.00317	mg/L	0.002446	0.00317	mg/L	0.002446	77.06%
Mg 279.079	3196915.7	46.7	mg/L	0.96	46.7	mg/L	0.96	2.05%
Mn 257.610	566.0	-0.00075	mg/L	0.000010	-0.00075	mg/L	0.000010	1.34%
Mo 202.030	96.5	0.00159	mg/L	0.000096	0.00159	mg/L	0.000096	6.05%
Ni 231.604	60.2	0.00028	mg/L	0.000009	0.00028	mg/L	0.000009	3.37%
Pb 220.353	90.3	0.00337	mg/L	0.000001	0.00337	mg/L	0.000001	0.03%
Sb 206.833	29.2	0.00034	mg/L	0.000737	0.00034	mg/L	0.000737	215.18%
Se 196.026	41.9	0.00484	mg/L	0.000813	0.00484	mg/L	0.000813	16.81%
Si 288.158	1044939.7	9.04	mg/L	0.124	9.04	mg/L	0.124	1.37%
Sn 189.933	-94.1	-0.0160	mg/L	0.00043	-0.0160	mg/L	0.00043	2.69%
Ti 337.280	50.8	0.00469	mg/L	0.000131	0.00469	mg/L	0.000131	2.80%
Tl 190.800	124.1	0.00956	mg/L	0.000976	0.00956	mg/L	0.000976	10.21%
V 292.402	490.6	0.00156	mg/L	0.000025	0.00156	mg/L	0.000025	1.59%
Zn 206.200	753.8	0.00352	mg/L	0.000042	0.00352	mg/L	0.000042	1.19%
K 766.490	54067.6	2.41	mg/L	0.086	2.41	mg/L	0.086	3.55%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	2783794.6	1.61	mg/L	0.041	1.61	mg/L	0.041	2.53%
Sr 421.552	1390515.0	1.62	mg/L	0.041	1.62	mg/L	0.041	2.53%
Sr 460.733	42524.0	1.78	mg/L	0.030	1.78	mg/L	0.030	1.69%

Analysis Begun

Start Time: 5/29/2001 3:30:02 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV

Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 5
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 3:30:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3812709.5						866.76	0.02%
Ag 328.068	284835.8	0.379	mg/L	0.0016	0.379	mg/L	0.0016	0.41%
QC value within limits for Ag 328.068 Recovery = 94.68%								
Al 237.312	177175.9	9.79	mg/L	0.028	9.79	mg/L	0.028	0.28%
QC value within limits for Al 237.312 Recovery = 97.92%								
As 188.979	3880.8	0.369	mg/L	0.0016	0.369	mg/L	0.0016	0.43%
QC value within limits for As 188.979 Recovery = 92.15%								
Ba 230.424	384722.2	1.02	mg/L	0.004	1.02	mg/L	0.004	0.42%
QC value within limits for Ba 230.424 Recovery = 101.59%								
Be 234.861	91683.8	0.0502	mg/L	0.00017	0.0502	mg/L	0.00017	0.35%
QC value within limits for Be 234.861 Recovery = 100.41%								
Ca 227.549	13208.6	9.97	mg/L	0.037	9.97	mg/L	0.037	0.37%
QC value within limits for Ca 227.549 Recovery = 99.67%								
Cd 228.802	22674.8	0.0481	mg/L	0.00024	0.0481	mg/L	0.00024	0.49%
QC value within limits for Cd 228.802 Recovery = 96.15%								
Co 228.616	43445.6	0.204	mg/L	0.0004	0.204	mg/L	0.0004	0.20%
QC value within limits for Co 228.616 Recovery = 102.21%								
Cr 267.716	189725.0	0.510	mg/L	0.0015	0.510	mg/L	0.0015	0.29%
QC value within limits for Cr 267.716 Recovery = 101.92%								
Cu 327.396	224580.5	0.499	mg/L	0.0015	0.499	mg/L	0.0015	0.30%
QC value within limits for Cu 327.396 Recovery = 99.80%								
Fe 261.387	110533.3	4.12	mg/L	0.022	4.12	mg/L	0.022	0.53%
QC value within limits for Fe 261.387 Recovery = 102.88%								
Mg 279.079	664290.3	9.70	mg/L	0.040	9.70	mg/L	0.040	0.42%
QC value within limits for Mg 279.079 Recovery = 97.00%								
Mn 257.610	1187167.6	0.502	mg/L	0.0017	0.502	mg/L	0.0017	0.35%
QC value within limits for Mn 257.610 Recovery = 100.40%								
Mo 202.030	60839.2	1.00	mg/L	0.004	1.00	mg/L	0.004	0.41%
QC value within limits for Mo 202.030 Recovery = 100.57%								
Ni 231.604	109353.0	0.506	mg/L	0.0028	0.506	mg/L	0.0028	0.55%
QC value within limits for Ni 231.604 Recovery = 101.21%								
Pb 220.353	12946.9	0.486	mg/L	0.0030	0.486	mg/L	0.0030	0.61%
QC value within limits for Pb 220.353 Recovery = 97.24%								
Sb 206.833	19697.5	1.12	mg/L	0.006	1.12	mg/L	0.006	0.52%
QC value within limits for Sb 206.833 Recovery = 93.32%								
Se 196.026	3399.5	0.390	mg/L	0.0019	0.390	mg/L	0.0019	0.48%
QC value within limits for Se 196.026 Recovery = 97.55%								
Si 288.158	3900.5	0.0419	mg/L	0.00040	0.0419	mg/L	0.00040	0.94%
QC value less than the lower limit for Si 288.158 Recovery = 0.84%								
Sn 189.933	14398.9	0.905	mg/L	0.0057	0.905	mg/L	0.0057	0.63%
QC value within limits for Sn 189.933 Recovery = 90.63%								
Ti 337.280	1717147.9	0.989	mg/L	0.0038	0.989	mg/L	0.0038	0.38%
QC value within limits for Ti 337.280 Recovery = 98.92%								
Tl 190.800	6732.6	0.529	mg/L	0.0021	0.529	mg/L	0.0021	0.40%
QC value within limits for Tl 190.800 Recovery = 105.87%								
V 292.402	316595.6	1.01	mg/L	0.004	1.01	mg/L	0.004	0.36%
QC value within limits for V 292.402 Recovery = 100.88%								
Zn 206.200	182645.4	0.966	mg/L	0.0040	0.966	mg/L	0.0040	0.42%
QC value within limits for Zn 206.200 Recovery = 96.61%								
K 766.490	1075026.6	50.8	mg/L	0.37	50.8	mg/L	0.37	0.73%
QC value within limits for K 766.490 Recovery = 101.52%								
Na 589.592	1928900.3	48.4	mg/L	0.29	48.4	mg/L	0.29	0.59%
QC value within limits for Na 589.592 Recovery = 96.89%								
Sr 407.771	1581757.4	0.917	mg/L	0.0058	0.917	mg/L	0.0058	0.64%
QC value within limits for Sr 407.771 Recovery = 91.73%								
Sr 421.552	783496.6	0.920	mg/L	0.0050	0.920	mg/L	0.0050	0.54%
QC value within limits for Sr 421.552 Recovery = 92.02%								
Sr 460.733	22539.7	0.958	mg/L	0.0038	0.958	mg/L	0.0038	0.39%
QC value within limits for Sr 460.733 Recovery = 95.75%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 3:34:18 PM

Sample Prep Volume:
Data Type: Original

1251

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3068270.3						26744.22	0.87%
Ag 328.068	-68.5	-0.00009	mg/L	0.000083	-0.00009	mg/L	0.000083	90.92%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	83.8	0.00464	mg/L	0.000030	0.00464	mg/L	0.000030	0.64%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	2.2	0.00020	mg/L	0.000314	0.00020	mg/L	0.000314	154.66%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	105.2	0.00028	mg/L	0.000021	0.00028	mg/L	0.000021	7.43%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-5.5	0.00000	mg/L	0.000006	0.00000	mg/L	0.000006	193.70%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	3.5	0.00262	mg/L	0.005861	0.00262	mg/L	0.005861	224.00%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	3.4	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012	160.35%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	7.8	0.00004	mg/L	0.000019	0.00004	mg/L	0.000019	47.10%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	11.2	0.00003	mg/L	0.000068	0.00003	mg/L	0.000068	217.23%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-5.8	-0.00001	mg/L	0.000091	-0.00001	mg/L	0.000091	703.63%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	79.5	0.00294	mg/L	0.000491	0.00294	mg/L	0.000491	16.73%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	164.1	0.00240	mg/L	0.000187	0.00240	mg/L	0.000187	7.80%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	49.1	0.00002	mg/L	0.000003	0.00002	mg/L	0.000003	13.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	91.1	0.00150	mg/L	0.000151	0.00150	mg/L	0.000151	10.09%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	16.1	0.00007	mg/L	0.000024	0.00007	mg/L	0.000024	32.46%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-5.6	-0.00021	mg/L	0.000272	-0.00021	mg/L	0.000272	131.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	8.3	0.00048	mg/L	0.000149	0.00048	mg/L	0.000149	30.97%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	-0.7	-0.00009	mg/L	0.000501	-0.00009	mg/L	0.000501	572.26%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 288.158	-288.0	-0.00247	mg/L	0.000085	-0.00247	mg/L	0.000085	3.44%
QC value within limits for Si 288.158 Recovery = Not calculated								
Sn 189.933	135.7	0.00855	mg/L	0.000973	0.00855	mg/L	0.000973	11.38%
QC value within limits for Sn 189.933 Recovery = Not calculated								
Ti 337.280	282.4	0.00017	mg/L	0.000036	0.00017	mg/L	0.000036	21.30%
QC value within limits for Ti 337.280 Recovery = Not calculated								
Tl 190.800	62.9	0.00484	mg/L	0.000061	0.00484	mg/L	0.000061	1.27%
QC value within limits for Tl 190.800 Recovery = Not calculated								
V 292.402	79.4	0.00025	mg/L	0.000121	0.00025	mg/L	0.000121	47.97%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 206.200	8.4	0.00004	mg/L	0.000011	0.00004	mg/L	0.000011	24.25%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490	2099.9	0.0992	mg/L	0.00089	0.0992	mg/L	0.00089	0.90%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592	6110.7	0.153	mg/L	0.0030	0.153	mg/L	0.0030	1.99%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771	20.0	0.00672	mg/L	0.000015	0.00672	mg/L	0.000015	0.22%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	4.0	0.0131	mg/L	0.00011	0.0131	mg/L	0.00011	0.88%
Sample signal is less than that of the lowest standard.								
QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated								
Sr 460.733	29.0	0.00172	mg/L	0.003681	0.00172	mg/L	0.003681	214.00%
QC value within limits for Sr 460.733 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: 0538305S WG98171-05
Analyst:

Autosampler Location: 15
Date Collected: 5/29/2001 3:38:28 PM

1253

Sample Wt:
Dilution:
Sample Prep Volume:
Data Type: Original

Mean Data: 0538305S WG98171-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3267646.6						29845.25	0.91%
Ag 328.068	268670.7	0.357	mg/L	0.0020	0.357	mg/L	0.0020	0.55%
Al 237.312	165101.5	9.11	mg/L	0.132	9.11	mg/L	0.132	1.45%
As 188.979	3526.1	0.334	mg/L	0.0076	0.334	mg/L	0.0076	2.29%
Ba 230.424	298832.2	0.790	mg/L	0.0164	0.790	mg/L	0.0164	2.08%
Be 234.861	83214.8	0.0456	mg/L	0.00054	0.0456	mg/L	0.00054	1.19%
Ca 227.549	203744.2	156	mg/L	1.2	156	mg/L	1.2	0.77%
Cd 228.802	19892.3	0.0420	mg/L	0.00063	0.0420	mg/L	0.00063	1.51%
Co 228.616	33450.0	0.157	mg/L	0.0041	0.157	mg/L	0.0041	2.63%
Cr 267.716	147147.4	0.395	mg/L	0.0081	0.395	mg/L	0.0081	2.05%
Cu 327.396	198871.1	0.442	mg/L	0.0029	0.442	mg/L	0.0029	0.65%
Fe 261.387	89181.0	3.32	mg/L	0.068	3.32	mg/L	0.068	2.04%
Mg 279.079	3809268.2	55.7	mg/L	1.42	55.7	mg/L	1.42	2.56%
Mn 257.610	950947.4	0.401	mg/L	0.0072	0.401	mg/L	0.0072	1.80%
Mo 202.030	44798.3	0.737	mg/L	0.0215	0.737	mg/L	0.0215	2.92%
Ni 231.604	84355.8	0.390	mg/L	0.0105	0.390	mg/L	0.0105	2.68%
Pb 220.353	10400.5	0.391	mg/L	0.0085	0.391	mg/L	0.0085	2.18%
Sb 206.833	17361.9	0.989	mg/L	0.0192	0.989	mg/L	0.0192	1.94%
Se 196.026	2646.0	0.303	mg/L	0.0095	0.303	mg/L	0.0095	3.14%
Si 288.158	1710838.7	14.8	mg/L	0.22	14.8	mg/L	0.22	1.51%
Sn 189.933	12255.9	0.760	mg/L	0.0237	0.760	mg/L	0.0237	3.12%
Ti 337.280	1475737.6	0.853	mg/L	0.0117	0.853	mg/L	0.0117	1.38%
Tl 190.800	4485.0	0.355	mg/L	0.0136	0.355	mg/L	0.0136	3.85%
V 292.402	262095.0	0.835	mg/L	0.0127	0.835	mg/L	0.0127	1.52%
Zn 206.200	146607.5	0.775	mg/L	0.0323	0.775	mg/L	0.0323	4.17%
K 766.490	1091045.4	51.4	mg/L	1.11	51.4	mg/L	1.11	2.16%
Na 589.592	Saturated2							
Saturated in preshot (code 2)								
Sr 407.771	4198031.2	2.42	mg/L	0.022	2.42	mg/L	0.022	0.89%
Sr 421.552	2102411.1	2.45	mg/L	0.023	2.45	mg/L	0.023	0.93%
Sr 460.733	63686.4	2.63	mg/L	0.053	2.63	mg/L	0.053	2.03%

==========

Sequence No.: 8
Sample ID: 0538306SD WG98171-06
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 5/29/2001 3:42:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0538306SD WG98171-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3277882.2						70334.50	2.15%
Ag 328.068	269246.4	0.358	mg/L	0.0025	0.358	mg/L	0.0025	0.70%
Al 237.312	166374.2	9.18	mg/L	0.100	9.18	mg/L	0.100	1.09%
As 188.979	3549.0	0.336	mg/L	0.0049	0.336	mg/L	0.0049	1.45%
Ba 230.424	299466.5	0.791	mg/L	0.0128	0.791	mg/L	0.0128	1.62%
Be 234.861	83496.9	0.0457	mg/L	0.00045	0.0457	mg/L	0.00045	0.99%
Ca 227.549	209756.4	160	mg/L	0.9	160	mg/L	0.9	0.56%
Cd 228.802	19955.5	0.0422	mg/L	0.00034	0.0422	mg/L	0.00034	0.80%
Co 228.616	33486.9	0.157	mg/L	0.0032	0.157	mg/L	0.0032	2.00%
Cr 267.716	148464.0	0.399	mg/L	0.0054	0.399	mg/L	0.0054	1.36%
Cu 327.396	199619.9	0.444	mg/L	0.0040	0.444	mg/L	0.0040	0.91%
Fe 261.387	90116.1	3.35	mg/L	0.057	3.35	mg/L	0.057	1.69%
Mg 279.079	3926397.5	57.4	mg/L	1.38	57.4	mg/L	1.38	2.41%
Mn 257.610	959511.4	0.405	mg/L	0.0081	0.405	mg/L	0.0081	1.99%
Mo 202.030	45398.9	0.747	mg/L	0.0168	0.747	mg/L	0.0168	2.26%
Ni 231.604	84819.2	0.393	mg/L	0.0077	0.393	mg/L	0.0077	1.95%
Pb 220.353	10407.0	0.391	mg/L	0.0048	0.391	mg/L	0.0048	1.22%
Sb 206.833	17430.8	0.993	mg/L	0.0099	0.993	mg/L	0.0099	0.99%
Se 196.026	2719.3	0.312	mg/L	0.0057	0.312	mg/L	0.0057	1.82%
Si 288.158	1765459.3	15.2	mg/L	0.30	15.2	mg/L	0.30	1.96%
Sn 189.933	12403.9	0.769	mg/L	0.0184	0.769	mg/L	0.0184	2.39%

1253

Ti 337.280	1488210.0	0.861 mg/L	0.0156	0.861 mg/L	0.0156	1.81%
Tl 190.800	4607.7	0.364 mg/L	0.0059	0.364 mg/L	0.0059	1.62%
V 292.402	263950.6	0.841 mg/L	0.0123	0.841 mg/L	0.0123	1.47%
Zn 206.200	146464.9	0.774 mg/L	0.0232	0.774 mg/L	0.0232	3.00%
K 766.490	1186002.2	55.9 mg/L	0.51	55.9 mg/L	0.51	0.92%
Na 589.592	Saturated2					
Saturated in preshot (code 2)						
Sr 407.771	4281541.9	2.47 mg/L	0.013	2.47 mg/L	0.013	0.54%
Sr 421.552	2144707.5	2.50 mg/L	0.015	2.50 mg/L	0.015	0.60%
Sr 460.733	66461.5	2.74 mg/L	0.001	2.74 mg/L	0.001	0.05%

Duplicate Check: 0538306SD WG98171-06

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	51.4	55.9	0.515	mg/L	8.4
Na 589.592			0.000	mg/L	Not calculated
Sr 407.771	2.42	2.47	0.013	mg/L	2.0
Sr 421.552	2.45	2.50	0.015	mg/L	2.0
Sr 460.733	2.63	2.74	0.001	mg/L	4.1
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.357	0.358	0.002	mg/L	0.2
Al 237.312	9.11	9.18	0.100	mg/L	0.8
As 188.979	0.334	0.336	0.005	mg/L	0.7
Ba 230.424	0.790	0.791	0.013	mg/L	0.2
Be 234.861	0.0456	0.0457	0.000	mg/L	0.3
Ca 227.549	156	160	0.901	mg/L	2.9
Cd 228.802	0.0420	0.0422	0.000	mg/L	0.3
Co 228.616	0.157	0.157	0.003	mg/L	0.1
Cr 267.716	0.395	0.399	0.005	mg/L	0.9
Cu 327.396	0.442	0.444	0.004	mg/L	0.4
Fe 261.387	3.32	3.35	0.057	mg/L	1.0
Mg 279.079	55.7	57.4	1.384	mg/L	3.0
Mn 257.610	0.401	0.405	0.008	mg/L	0.9
Mo 202.030	0.737	0.747	0.017	mg/L	1.3
Ni 231.604	0.390	0.393	0.008	mg/L	0.5
Pb 220.353	0.391	0.391	0.005	mg/L	0.1
Sb 206.833	0.989	0.993	0.010	mg/L	0.4
Se 196.026	0.303	0.312	0.006	mg/L	2.7
Si 288.158	14.8	15.2	0.298	mg/L	3.1
Sn 189.933	0.760	0.769	0.018	mg/L	1.2
Ti 337.280	0.853	0.861	0.016	mg/L	0.9
Tl 190.800	0.355	0.364	0.006	mg/L	2.6
V 292.402	0.835	0.841	0.012	mg/L	0.7
Zn 206.200	0.775	0.774	0.023	mg/L	0.1

Sequence No.: 9
Sample ID: 0538310 WG98171-02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 5/29/2001 3:47:09 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0538310 WG98171-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3459556.9						29221.01	0.84%
Ag 328.068	897.3	0.00119	mg/L	0.000013	0.00119	mg/L	0.000013	1.13%
Al 237.312	396.0	0.0134	mg/L	0.00094	0.0134	mg/L	0.00094	7.02%
As 188.979	-19.9	-0.00185	mg/L	0.000716	-0.00185	mg/L	0.000716	38.63%
Ba 230.424	7118.0	0.0193	mg/L	0.00010	0.0193	mg/L	0.00010	0.53%
Be 234.861	121.9	0.00007	mg/L	0.000000	0.00007	mg/L	0.000000	0.76%
Ca 227.549	184059.6	141	mg/L	2.2	141	mg/L	2.2	1.60%
Cd 228.802	13.2	-0.00011	mg/L	0.000002	-0.00011	mg/L	0.000002	1.84%
Co 228.616	75.5	0.00045	mg/L	0.000012	0.00045	mg/L	0.000012	2.59%
Cr 267.716	247.3	0.00055	mg/L	0.000055	0.00055	mg/L	0.000055	10.07%
Cu 327.396	952.3	0.00212	mg/L	0.000100	0.00212	mg/L	0.000100	4.70%
Fe 261.387	775.3	0.0287	mg/L	0.00003	0.0287	mg/L	0.00003	0.09%
Mg 279.079	1788300.2	26.1	mg/L	0.49	26.1	mg/L	0.49	1.87%
Mn 257.610	3757.6	0.00101	mg/L	0.000012	0.00101	mg/L	0.000012	1.22%

Mo 202.030	217.8	0.00358 mg/L	0.000167	0.00358 mg/L	0.000167	4.67%
Ni 231.604	142.7	0.00066 mg/L	0.000075	0.00066 mg/L	0.000075	11.31%
Pb 220.353	89.5	0.00334 mg/L	0.000110	0.00334 mg/L	0.000110	3.30%
Sb 206.833	34.6	0.00088 mg/L	0.000055	0.00088 mg/L	0.000055	6.27%
Se 196.026	83.0	0.00958 mg/L	0.000494	0.00958 mg/L	0.000494	5.16%
Si 288.158	1494228.2	12.9 mg/L	0.17	12.9 mg/L	0.17	1.35%
Sn 189.933	-12.1	-0.0106 mg/L	0.00040	-0.0106 mg/L	0.00040	3.78%
Ti 337.280	1142.8	0.00568 mg/L	0.000068	0.00568 mg/L	0.000068	1.19%
Tl 190.800	106.7	0.00823 mg/L	0.000887	0.00823 mg/L	0.000887	10.77%
V 292.402	943.3	0.00301 mg/L	0.000006	0.00301 mg/L	0.000006	0.20%
Zn 206.200	2186.8	0.0113 mg/L	0.00011	0.0113 mg/L	0.00011	1.00%
K 766.490	91432.2	4.24 mg/L	0.035	4.24 mg/L	0.035	0.83%
Na 589.592	4800288.4	121 mg/L	1.0	121 mg/L	1.0	0.81%
Sr 407.771	1833232.7	1.06 mg/L	0.009	1.06 mg/L	0.009	0.87%
Sr 421.552	908167.5	1.06 mg/L	0.003	1.06 mg/L	0.003	0.33%
Sr 460.733	27472.9	1.16 mg/L	0.020	1.16 mg/L	0.020	1.74%

Sequence No.: 10
Sample ID: 0538311DP WG98171-07
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 5/29/2001 3:51:25 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 0538311DP WG98171-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3355316.5						36214.46	1.08%
Ag 328.068	921.7	0.00123	mg/L	0.000098	0.00123	mg/L	0.000098	7.98%
Al 237.312	430.3	0.0153	mg/L	0.00203	0.0153	mg/L	0.00203	13.28%
As 188.979	-17.6	-0.00165	mg/L	0.000309	-0.00165	mg/L	0.000309	18.75%
Ba 230.424	7089.3	0.0193	mg/L	0.00012	0.0193	mg/L	0.00012	0.62%
Be 234.861	117.8	0.00006	mg/L	0.000001	0.00006	mg/L	0.000001	1.24%
Ca 227.549	182119.0	139	mg/L	1.7	139	mg/L	1.7	1.23%
Cd 228.802	8.4	-0.00012	mg/L	0.000011	-0.00012	mg/L	0.000011	9.69%
Co 228.616	62.4	0.00038	mg/L	0.000000	0.00038	mg/L	0.000000	0.10%
Cr 267.716	234.8	0.00051	mg/L	0.000035	0.00051	mg/L	0.000035	6.76%
Cu 327.396	386.4	0.00086	mg/L	0.000038	0.00086	mg/L	0.000038	4.46%
Fe 261.387	431.3	0.0160	mg/L	0.00056	0.0160	mg/L	0.00056	3.54%
Mg 279.079	1791024.7	26.2	mg/L	0.46	26.2	mg/L	0.46	1.77%
Mn 257.610	1479.7	0.00005	mg/L	0.000014	0.00005	mg/L	0.000014	29.56%
Mo 202.030	96.6	0.00159	mg/L	0.000131	0.00159	mg/L	0.000131	8.26%
Ni 231.604	75.6	0.00035	mg/L	0.000003	0.00035	mg/L	0.000003	0.84%
Pb 220.353	87.2	0.00325	mg/L	0.000282	0.00325	mg/L	0.000282	8.66%
Sb 206.833	24.6	0.00031	mg/L	0.000108	0.00031	mg/L	0.000108	35.14%
Se 196.026	70.2	0.00811	mg/L	0.000386	0.00811	mg/L	0.000386	4.76%
Si 288.158	1495868.0	12.9	mg/L	0.22	12.9	mg/L	0.22	1.68%
Sn 189.933	-41.2	-0.0123	mg/L	0.00082	-0.0123	mg/L	0.00082	6.66%
Ti 337.280	621.2	0.00531	mg/L	0.000020	0.00531	mg/L	0.000020	0.37%
Tl 190.800	59.5	0.00459	mg/L	0.000648	0.00459	mg/L	0.000648	14.12%
V 292.402	929.7	0.00296	mg/L	0.000053	0.00296	mg/L	0.000053	1.79%
Zn 206.200	880.1	0.00439	mg/L	0.000074	0.00439	mg/L	0.000074	1.69%
K 766.490	90786.9	4.21	mg/L	0.066	4.21	mg/L	0.066	1.57%
Na 589.592	4775750.4	120	mg/L	0.4	120	mg/L	0.4	0.35%
Sr 407.771	1831492.6	1.06	mg/L	0.003	1.06	mg/L	0.003	0.28%
Sr 421.552	896866.4	1.05	mg/L	0.001	1.05	mg/L	0.001	0.10%
Sr 460.733	27581.1	1.17	mg/L	0.009	1.17	mg/L	0.009	0.74%

Duplicate Check: 0538311DP WG98171-07

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	4.24	4.21	0.066	mg/L	0.7
Na 589.592	121	120	0.415	mg/L	0.5
Sr 407.771	1.06	1.06	0.003	mg/L	0.1
Sr 421.552	1.06	1.05	0.001	mg/L	1.2
Sr 460.733	1.16	1.17	0.009	mg/L	0.4
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.00119	0.00123	0.000	mg/L	2.7
Al 237.312	0.0134	0.0153	0.002	mg/L	13.0

As 188.979	-0.00185	-0.00165	0.000	mg/L	-11.9
Ba 230.424	0.0193	0.0193	0.000	mg/L	0.4
Be 234.861	0.00007	0.00006	0.000	mg/L	2.6
Ca 227.549	141	139	1.712	mg/L	1.1
Cd 228.802	-0.00011	-0.00012	0.000	mg/L	-8.3
Co 228.616	0.00045	0.00038	0.000	mg/L	16.1
Cr 267.716	0.00055	0.00051	0.000	mg/L	6.5
Cu 327.396	0.00212	0.00086	0.000	mg/L	84.5
Fe 261.387	0.0287	0.0160	0.001	mg/L	57.0
Mg 279.079	26.1	26.2	0.462	mg/L	0.2
Mn 257.610	0.00101	0.00005	0.000	mg/L	182.4
Mo 202.030	0.00358	0.00159	0.000	mg/L	77.2
Ni 231.604	0.00066	0.00035	0.000	mg/L	61.4
Pb 220.353	0.00334	0.00325	0.000	mg/L	2.7
Sb 206.833	0.00088	0.00031	0.000	mg/L	96.0
Se 196.026	0.00958	0.00811	0.000	mg/L	16.7
Si 288.158	12.9	12.9	0.216	mg/L	0.1
Sn 189.933	-0.0106	-0.0123	0.001	mg/L	-15.1
Ti 337.280	0.00568	0.00531	0.000	mg/L	6.8
Tl 190.800	0.00823	0.00459	0.001	mg/L	56.8
V 292.402	0.00301	0.00296	0.000	mg/L	1.5
Zn 206.200	0.0113	0.00439	0.000	mg/L	88.1

Sequence No.: 11 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 5/29/2001 3:55:41 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3743086.8						46723.71	1.25%
Ag 328.068	285827.8	0.380	mg/L	0.0080	0.380	mg/L	0.0080	2.09%
QC value within limits for Ag 328.068 Recovery = 95.01%								
Al 237.312	176939.9	9.78	mg/L	0.198	9.78	mg/L	0.198	2.03%
QC value within limits for Al 237.312 Recovery = 97.79%								
As 188.979	3844.0	0.365	mg/L	0.0028	0.365	mg/L	0.0028	0.77%
QC value within limits for As 188.979 Recovery = 91.28%								
Ba 230.424	381333.3	1.01	mg/L	0.018	1.01	mg/L	0.018	1.79%
QC value within limits for Ba 230.424 Recovery = 100.69%								
Be 234.861	91514.0	0.0501	mg/L	0.00109	0.0501	mg/L	0.00109	2.17%
QC value within limits for Be 234.861 Recovery = 100.22%								
Ca 227.549	13167.2	9.94	mg/L	0.032	9.94	mg/L	0.032	0.32%
QC value within limits for Ca 227.549 Recovery = 99.36%								
Cd 228.802	22594.1	0.0479	mg/L	0.00014	0.0479	mg/L	0.00014	0.30%
QC value within limits for Cd 228.802 Recovery = 95.81%								
Co 228.616	43052.5	0.203	mg/L	0.0037	0.203	mg/L	0.0037	1.81%
QC value within limits for Co 228.616 Recovery = 101.26%								
Cr 267.716	188483.7	0.506	mg/L	0.0098	0.506	mg/L	0.0098	1.94%
QC value within limits for Cr 267.716 Recovery = 101.26%								
Cu 327.396	225853.9	0.502	mg/L	0.0111	0.502	mg/L	0.0111	2.22%
QC value within limits for Cu 327.396 Recovery = 100.36%								
Fe 261.387	109882.6	4.09	mg/L	0.076	4.09	mg/L	0.076	1.85%
QC value within limits for Fe 261.387 Recovery = 102.27%								
Mg 279.079	656906.3	9.59	mg/L	0.199	9.59	mg/L	0.199	2.07%
QC value within limits for Mg 279.079 Recovery = 95.93%								
Mn 257.610	1182583.1	0.500	mg/L	0.0097	0.500	mg/L	0.0097	1.94%
QC value within limits for Mn 257.610 Recovery = 100.01%								
Mo 202.030	58936.5	0.969	mg/L	0.0250	0.969	mg/L	0.0250	2.58%
QC value within limits for Mo 202.030 Recovery = 97.42%								
Ni 231.604	108169.2	0.501	mg/L	0.0088	0.501	mg/L	0.0088	1.76%
QC value within limits for Ni 231.604 Recovery = 100.11%								
Pb 220.353	12796.6	0.481	mg/L	0.0032	0.481	mg/L	0.0032	0.67%
QC value within limits for Pb 220.353 Recovery = 96.11%								
Sb 206.833	19518.8	1.11	mg/L	0.002	1.11	mg/L	0.002	0.18%
QC value within limits for Sb 206.833 Recovery = 92.47%								
Se 196.026	3345.7	0.384	mg/L	0.0006	0.384	mg/L	0.0006	0.15%
QC value within limits for Se 196.026 Recovery = 96.00%								

Si 288.158	3748.7	0.0406 mg/L	0.00020	0.0406 mg/L	0.00020	0.50%
QC value less than the lower limit for Si 288.158 Recovery = 0.81%						
Sn 189.933	13124.2	0.825 mg/L	0.0227	0.825 mg/L	0.0227	2.75%
QC value less than the lower limit for Sn 189.933 Recovery = 82.59%						
Ti 337.280	1711316.9	0.985 mg/L	0.0188	0.985 mg/L	0.0188	1.90%
QC value within limits for Ti 337.280 Recovery = 98.57%						
Tl 190.800	6344.5	0.499 mg/L	0.0079	0.499 mg/L	0.0079	1.57%
QC value within limits for Tl 190.800 Recovery = 99.89%						
V 292.402	315089.3	1.00 mg/L	0.019	1.00 mg/L	0.019	1.93%
QC value within limits for V 292.402 Recovery = 100.40%						
Zn 206.200	177630.4	0.940 mg/L	0.0181	0.940 mg/L	0.0181	1.93%
QC value within limits for Zn 206.200 Recovery = 93.96%						
K 766.490	1039323.9	49.1 mg/L	0.03	49.1 mg/L	0.03	0.06%
QC value within limits for K 766.490 Recovery = 98.14%						
Na 589.592	1918303.0	48.2 mg/L	0.05	48.2 mg/L	0.05	0.11%
QC value within limits for Na 589.592 Recovery = 96.36%						
Sr 407.771	1535989.3	0.891 mg/L	0.0002	0.891 mg/L	0.0002	0.02%
QC value less than the lower limit for Sr 407.771 Recovery = 89.10%						
Sr 421.552	760754.7	0.894 mg/L	0.0003	0.894 mg/L	0.0003	0.03%
QC value less than the lower limit for Sr 421.552 Recovery = 89.39%						
Sr 460.733	21830.7	0.928 mg/L	0.0001	0.928 mg/L	0.0001	0.01%
QC value within limits for Sr 460.733 Recovery = 92.79%						

QC Failed. Continue with analysis.

Sequence No.: 12 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 5/29/2001 3:59:57 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3076211.4						27601.59	0.90%
Ag 328.068	-107.7	-0.00014	mg/L	0.000051	-0.00014	mg/L	0.000051	35.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	89.7	0.00496	mg/L	0.000514	0.00496	mg/L	0.000514	10.35%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	0.3	0.00003	mg/L	0.000343	0.00003	mg/L	0.000343	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	105.3	0.00028	mg/L	0.000014	0.00028	mg/L	0.000014	4.92%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-14.8	-0.00001	mg/L	0.000002	-0.00001	mg/L	0.000002	22.55%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	9.6	0.00726	mg/L	0.008599	0.00726	mg/L	0.008599	118.51%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	-5.2	-0.00001	mg/L	0.000026	-0.00001	mg/L	0.000026	225.32%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	0.3	0.00000	mg/L	0.000044	0.00000	mg/L	0.000044	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	4.2	0.00001	mg/L	0.000050	0.00001	mg/L	0.000050	388.77%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-44.3	-0.00010	mg/L	0.000126	-0.00010	mg/L	0.000126	128.07%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	73.8	0.00272	mg/L	0.000553	0.00272	mg/L	0.000553	20.31%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	164.4	0.00240	mg/L	0.000095	0.00240	mg/L	0.000095	3.94%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	41.6	0.00002	mg/L	0.000001	0.00002	mg/L	0.000001	8.36%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	74.1	0.00122	mg/L	0.000082	0.00122	mg/L	0.000082	6.72%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	25.6	0.00012	mg/L	0.000004	0.00012	mg/L	0.000004	3.65%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	-7.0	-0.00026	mg/L	0.000024	-0.00026	mg/L	0.000024	9.33%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.833	0.7	0.00004	mg/L	0.000400	0.00004	mg/L	0.000400	>999.9%
QC value within limits for Sb 206.833 Recovery = Not calculated								
Se 196.026	14.4	0.00166	mg/L	0.000375	0.00166	mg/L	0.000375	22.65%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 288.158	-344.3	-0.00295 mg/L	0.000090	-0.00295 mg/L	0.000090	3.05%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	88.1	0.00555 mg/L	0.000435	0.00555 mg/L	0.000435	7.83%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	330.2	0.00019 mg/L	0.000033	0.00019 mg/L	0.000033	16.72%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	35.6	0.00274 mg/L	0.000258	0.00274 mg/L	0.000258	9.43%

QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	81.3	0.00026 mg/L	0.000033	0.00026 mg/L	0.000033	12.61%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	-34.8	-0.00018 mg/L	0.000017	-0.00018 mg/L	0.000017	9.47%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	2378.2	0.112 mg/L	0.0023	0.112 mg/L	0.0023	2.07%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	8259.6	0.207 mg/L	0.0003	0.207 mg/L	0.0003	0.13%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771	-1.4	0.00671 mg/L	0.000008	0.00671 mg/L	0.000008	0.12%

QC value within limits for Sr 407.771 Recovery = Not calculated

Sr 421.552	-17.2	0.0130 mg/L	0.00003	0.0130 mg/L	0.00003	0.26%

Sample signal is less than that of the lowest standard.

QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated

Sr 460.733	-7.6	0.00014 mg/L	0.000417	0.00014 mg/L	0.000417	295.55%

QC value within limits for Sr 460.733 Recovery = Not calculated

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 5/29/2001 4:02:30 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 5/29/2001 8:33:18 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\Administrator\Sample Information\052901.sif
Results Data Set: 052901
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: TC0557701 WG98379-02
Analyst:
Sample Wt:
Dilution: 10X
Autosampler Location: 19
Date Collected: 5/29/2001 4:02:30 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC0557701 WG98379-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3212383.7						31692.83	0.99%
Ag 328.068	20.8	0.00003	mg/L	0.000029	0.00028	mg/L	0.000293	106.12%
Al 237.312	228.8	0.0123	mg/L	0.00253	0.123	mg/L	0.0253	20.52%
As 188.979	1123.8	0.105	mg/L	0.0012	1.05	mg/L	0.012	1.15%
Ba 230.424	271.1	0.00077	mg/L	0.000150	0.00774	mg/L	0.001501	19.40%
Be 234.861	15967.4	0.00878	mg/L	0.000097	0.0878	mg/L	0.00097	1.10%
Ca 227.549	38.8	0.0289	mg/L	0.00511	0.289	mg/L	0.0511	17.69%
Cd 228.802	1629.4	0.00348	mg/L	0.000061	0.0348	mg/L	0.00061	1.75%
Co 228.616	1106.9	0.00513	mg/L	0.000065	0.0513	mg/L	0.00065	1.27%
Cr 267.716	514.6	0.00144	mg/L	0.000084	0.0144	mg/L	0.00084	5.87%
Cu 327.396	61009.6	0.136	mg/L	0.0054	1.36	mg/L	0.054	3.96%
Fe 261.387	-19.3	0.00242	mg/L	0.003495	0.0242	mg/L	0.03495	144.27%
Mg 279.079	368.4	0.00504	mg/L	0.001269	0.0504	mg/L	0.01269	25.16%
Mn 257.610	202871.8	0.0859	mg/L	0.00078	0.859	mg/L	0.0078	0.90%
Mo 202.030	1570.3	0.0258	mg/L	0.00046	0.258	mg/L	0.0046	1.79%
Ni 231.604	16348.5	0.0756	mg/L	0.00129	0.756	mg/L	0.0129	1.71%
Pb 220.353	22.5	0.00094	mg/L	0.000069	0.00941	mg/L	0.000686	7.29%
Sb 206.833	437.0	0.0250	mg/L	0.00003	0.250	mg/L	0.0003	0.11%
Se 196.026	277.4	0.0320	mg/L	0.00548	0.320	mg/L	0.0548	17.11%
Si 288.158	189660.6	1.63	mg/L	0.243	16.3	mg/L	2.43	14.95%
Sn 189.933	2434.5	0.153	mg/L	0.0050	1.53	mg/L	0.050	3.25%
Ti 337.280	103203.4	0.0593	mg/L	0.00052	0.593	mg/L	0.0052	0.88%
Tl 190.800	1601.0	0.125	mg/L	0.0126	1.25	mg/L	0.126	10.14%
V 292.402	3423.9	0.0109	mg/L	0.00011	0.109	mg/L	0.0011	0.99%
Zn 206.200	132380.3	0.700	mg/L	0.0193	7.00	mg/L	0.193	2.76%
K 766.490	1087045.6	51.4	mg/L	0.35	514	mg/L	3.5	0.68%
Na 589.592	Saturated3							
Saturated in preshot (code 3)								
Sr 407.771	89.8	0.00676	mg/L	0.000012	0.0676	mg/L	0.00012	0.17%
Sr 421.552	-33.1	0.0130	mg/L	0.00007	0.130	mg/L	0.0007	0.50%
Sample signal is less than that of the lowest standard.								
Sr 460.733	-162.9	-0.00656	mg/L	0.002294	-0.0656	mg/L	0.02294	34.95%

Sequence No.: 2
Sample ID: TC0557701DP WG98379-07
Analyst:
Sample Wt:
Dilution: 10X
Autosampler Location: 20
Date Collected: 5/29/2001 4:06:43 PM
Sample Prep Volume:
Data Type: Original

Mean Data: TC0557701DP WG98379-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	3122120.5						16184.23	0.52%
Ag 328.068	60.5	0.00008	mg/L	0.000056	0.00080	mg/L	0.000561	69.82%
Al 237.312	166.9	0.00894	mg/L	0.002667	0.0894	mg/L	0.02667	29.82%
As 188.979	1095.2	0.103	mg/L	0.0016	1.03	mg/L	0.016	1.60%

Ba 230.424	273.9	0.00078 mg/L	0.000103	0.00780 mg/L	0.001032	13.24%
Be 234.861	15603.8	0.00858 mg/L	0.000096	0.0858 mg/L	0.00096	1.11%
Ca 227.549	35.0	0.0260 mg/L	0.00482	0.260 mg/L	0.0482	18.51%
Cd 228.802	1724.6	0.00368 mg/L	0.000035	0.0368 mg/L	0.00035	0.94%
Co 228.616	1078.0	0.00499 mg/L	0.000066	0.0499 mg/L	0.00066	1.33%
Cr 267.716	571.6	0.00158 mg/L	0.000078	0.0158 mg/L	0.00078	4.90%
Cu 327.396	55799.0	0.124 mg/L	0.0023	1.24 mg/L	0.023	1.84%
Fe 261.387	2.6	0.00311 mg/L	0.002835	0.0311 mg/L	0.02835	91.06%
Mg 279.079	370.9	0.00508 mg/L	0.000493	0.0508 mg/L	0.00493	9.70%
Mn 257.610	194787.2	0.0825 mg/L	0.00080	0.825 mg/L	0.0080	0.97%
Mo 202.030	1467.5	0.0241 mg/L	0.00053	0.241 mg/L	0.0053	2.19%
Ni 231.604	15761.7	0.0729 mg/L	0.00189	0.729 mg/L	0.0189	2.59%
Pb 220.353	22.6	0.00094 mg/L	0.000206	0.00942 mg/L	0.002062	21.90%
Sb 206.833	421.5	0.0241 mg/L	0.00058	0.241 mg/L	0.0058	2.42%
Se 196.026	117.9	0.0136 mg/L	0.00043	0.136 mg/L	0.0043	3.14%
Si 288.158	205559.5	1.76 mg/L	0.269	17.6 mg/L	2.69	15.24%
Sn 189.933	1842.8	0.116 mg/L	0.0043	1.16 mg/L	0.043	3.67%
Ti 337.280	100595.0	0.0578 mg/L	0.00082	0.578 mg/L	0.0082	1.42%
Tl 190.800	1298.8	0.101 mg/L	0.0123	1.01 mg/L	0.123	12.16%
V 292.402	3316.8	0.0105 mg/L	0.00015	0.105 mg/L	0.0015	1.41%
Zn 206.200	125480.3	0.664 mg/L	0.0220	6.64 mg/L	0.220	3.31%
K 766.490	1123069.3	53.1 mg/L	0.13	531 mg/L	1.3	0.24%
Na 589.592	Saturated3					
Saturated in preshot (code 3)						
Sr 407.771	90.0	0.00676 mg/L	0.000019	0.0676 mg/L	0.00019	0.28%
Sr 421.552	17.7	0.0131 mg/L	0.00003	0.131 mg/L	0.0003	0.25%
Sample signal is less than that of the lowest standard.						
Sr 460.733	-81.2	-0.00303 mg/L	0.006057	-0.0303 mg/L	0.06057	199.67%

Sequence No.: 3
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/29/2001 4:10:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3602567.0						97047.64	2.69%
Ag 328.068	273836.2	0.364	mg/L	0.0115	0.364	mg/L	0.0115	3.15%
QC value within limits for Ag 328.068 Recovery = 91.02%								
Al 237.312	169535.3	9.37	mg/L	0.279	9.37	mg/L	0.279	2.98%
QC value within limits for Al 237.312 Recovery = 93.70%								
As 188.979	3720.2	0.353	mg/L	0.0045	0.353	mg/L	0.0045	1.29%
QC value less than the lower limit for As 188.979 Recovery = 88.34%								
Ba 230.424	366738.9	0.968	mg/L	0.0257	0.968	mg/L	0.0257	2.65%
QC value within limits for Ba 230.424 Recovery = 96.84%								
Be 234.861	86575.7	0.0474	mg/L	0.00150	0.0474	mg/L	0.00150	3.16%
QC value within limits for Be 234.861 Recovery = 94.81%								
Ca 227.549	12874.2	9.72	mg/L	0.143	9.72	mg/L	0.143	1.47%
QC value within limits for Ca 227.549 Recovery = 97.17%								
Cd 228.802	22024.8	0.0467	mg/L	0.00070	0.0467	mg/L	0.00070	1.50%
QC value within limits for Cd 228.802 Recovery = 93.41%								
Co 228.616	41502.2	0.195	mg/L	0.0048	0.195	mg/L	0.0048	2.45%
QC value within limits for Co 228.616 Recovery = 97.60%								
Cr 267.716	181513.6	0.488	mg/L	0.0130	0.488	mg/L	0.0130	2.67%
QC value within limits for Cr 267.716 Recovery = 97.51%								
Cu 327.396	215030.2	0.478	mg/L	0.0151	0.478	mg/L	0.0151	3.16%
QC value within limits for Cu 327.396 Recovery = 95.55%								
Fe 261.387	104797.3	3.90	mg/L	0.113	3.90	mg/L	0.113	2.89%
QC value within limits for Fe 261.387 Recovery = 97.55%								
Mg 279.079	633238.6	9.25	mg/L	0.264	9.25	mg/L	0.264	2.86%
QC value within limits for Mg 279.079 Recovery = 92.47%								
Mn 257.610	1136111.1	0.480	mg/L	0.0128	0.480	mg/L	0.0128	2.67%
QC value within limits for Mn 257.610 Recovery = 96.08%								
Mo 202.030	56057.6	0.922	mg/L	0.0291	0.922	mg/L	0.0291	3.16%
QC value within limits for Mo 202.030 Recovery = 92.66%								
Ni 231.604	103885.1	0.481	mg/L	0.0123	0.481	mg/L	0.0123	2.56%
QC value within limits for Ni 231.604 Recovery = 96.15%								

Pb 220.353	12472.7	0.468 mg/L	0.0085	0.468 mg/L	0.0085	1.81%
QC value within limits for Pb 220.353 Recovery = 93.66%						
Sb 206.833	18961.0	1.08 mg/L	0.017	1.08 mg/L	0.017	1.57%
QC value less than the lower limit for Sb 206.833 Recovery = 89.83%						
Se 196.026	3192.7	0.366 mg/L	0.0073	0.366 mg/L	0.0073	2.00%
QC value within limits for Se 196.026 Recovery = 91.61%						
Si 288.158	4414.8	0.0461 mg/L	0.00031	0.0461 mg/L	0.00031	0.68%
QC value less than the lower limit for Si 288.158 Recovery = 0.92%						
Sn 189.933	12290.7	0.772 mg/L	0.0337	0.772 mg/L	0.0337	4.37%
QC value less than the lower limit for Sn 189.933 Recovery = 77.33%						
Ti 337.280	1646270.4	0.948 mg/L	0.0267	0.948 mg/L	0.0267	2.82%
QC value within limits for Ti 337.280 Recovery = 94.82%						
Tl 190.800	5944.6	0.468 mg/L	0.0158	0.468 mg/L	0.0158	3.37%
QC value within limits for Tl 190.800 Recovery = 93.64%						
V 292.402	303664.1	0.968 mg/L	0.0280	0.968 mg/L	0.0280	2.89%
QC value within limits for V 292.402 Recovery = 96.76%						
Zn 206.200	169806.1	0.898 mg/L	0.0235	0.898 mg/L	0.0235	2.62%
QC value less than the lower limit for Zn 206.200 Recovery = 89.82%						
K 766.490	1038591.9	49.0 mg/L	0.09	49.0 mg/L	0.09	0.18%
QC value within limits for K 766.490 Recovery = 98.08%						
Na 589.592	2111435.2	53.0 mg/L	0.09	53.0 mg/L	.0.09	0.17%
QC value within limits for Na 589.592 Recovery = 106.06%						
Sr 407.771	1491526.5	0.865 mg/L	0.0008	0.865 mg/L	0.0008	0.10%
QC value less than the lower limit for Sr 407.771 Recovery = 86.54%						
Sr 421.552	738823.4	0.868 mg/L	0.0007	0.868 mg/L	0.0007	0.08%
QC value less than the lower limit for Sr 421.552 Recovery = 86.85%						
Sr 460.733	21564.4	0.917 mg/L	0.0049	0.917 mg/L	0.0049	0.53%
QC value within limits for Sr 460.733 Recovery = 91.67%						

QC Failed. Continue with analysis.

Sequence No.: 4
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/29/2001 4:15:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	3012513.3						379.20	0.01%
Ag 328.068	-123.4	-0.00016	mg/L	0.000018	-0.00016	mg/L	0.000018	10.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.312	65.5	0.00360	mg/L	0.000543	0.00360	mg/L	0.000543	15.06%
QC value within limits for Al 237.312 Recovery = Not calculated								
As 188.979	3.4	0.00032	mg/L	0.000266	0.00032	mg/L	0.000266	82.54%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 230.424	89.1	0.00024	mg/L	0.000019	0.00024	mg/L	0.000019	8.07%
QC value within limits for Ba 230.424 Recovery = Not calculated								
Be 234.861	-20.6	-0.00001	mg/L	0.000005	-0.00001	mg/L	0.000005	42.74%
QC value within limits for Be 234.861 Recovery = Not calculated								
Ca 227.549	7.8	0.00596	mg/L	0.002549	0.00596	mg/L	0.002549	42.77%
QC value within limits for Ca 227.549 Recovery = Not calculated								
Cd 228.802	0.7	0.00000	mg/L	0.000002	0.00000	mg/L	0.000002	131.82%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616	1.2	0.00001	mg/L	0.000025	0.00001	mg/L	0.000025	288.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	81.0	0.00022	mg/L	0.000053	0.00022	mg/L	0.000053	24.50%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.396	-64.8	-0.00014	mg/L	0.000113	-0.00014	mg/L	0.000113	78.21%
QC value within limits for Cu 327.396 Recovery = Not calculated								
Fe 261.387	-11.9	-0.00044	mg/L	0.000007	-0.00044	mg/L	0.000007	1.57%
QC value within limits for Fe 261.387 Recovery = Not calculated								
Mg 279.079	131.9	0.00193	mg/L	0.000031	0.00193	mg/L	0.000031	1.62%
QC value within limits for Mg 279.079 Recovery = Not calculated								
Mn 257.610	65.4	0.00003	mg/L	0.000001	0.00003	mg/L	0.000001	2.98%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.030	92.4	0.00152	mg/L	0.000163	0.00152	mg/L	0.000163	10.76%
QC value within limits for Mo 202.030 Recovery = Not calculated								
Ni 231.604	23.9	0.00011	mg/L	0.000004	0.00011	mg/L	0.000004	3.43%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353	-0.8	-0.00003 mg/L	0.000071	-0.00003 mg/L	0.000071	282.23%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.833	4.4	0.00025 mg/L	0.000164	0.00025 mg/L	0.000164	65.34%

QC value within limits for Sb 206.833 Recovery = Not calculated

Se 196.026	6.4	0.00074 mg/L	0.000442	0.00074 mg/L	0.000442	59.37%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 288.158	24.0	0.00021 mg/L	0.000053	0.00021 mg/L	0.000053	25.06%

QC value within limits for Si 288.158 Recovery = Not calculated

Sn 189.933	69.9	0.00440 mg/L	0.000344	0.00440 mg/L	0.000344	7.81%

QC value within limits for Sn 189.933 Recovery = Not calculated

Ti 337.280	187.5	0.00012 mg/L	0.000023	0.00012 mg/L	0.000023	19.64%

QC value within limits for Ti 337.280 Recovery = Not calculated

Tl 190.800	22.8	0.00175 mg/L	0.000691	0.00175 mg/L	0.000691	39.45%

QC value within limits for Tl 190.800 Recovery = Not calculated

V 292.402	79.9	0.00025 mg/L	0.000014	0.00025 mg/L	0.000014	5.40%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200	-112.2	-0.00059 mg/L	0.000007	-0.00059 mg/L	0.000007	1.24%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490	4609.0	0.218 mg/L	0.0029	0.218 mg/L	0.0029	1.32%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592	33850.1	0.850 mg/L	0.0102	0.850 mg/L	0.0102	1.19%

QC value greater than the upper limit for Na 589.592 Recovery = Not calculated

Sr 407.771	6.9	0.00671 mg/L	0.000007	0.00671 mg/L	0.000007	0.11%

QC value within limits for Sr 407.771 Recovery = Not calculated

Sr 421.552	-55.8	0.0130 mg/L	0.00009	0.0130 mg/L	0.00009	0.68%

Sample signal is less than that of the lowest standard.

QC value greater than the upper limit for Sr 421.552 Recovery = Not calculated

Sr 460.733	-82.2	-0.00308 mg/L	0.003132	-0.00308 mg/L	0.003132	101.71%

QC value within limits for Sr 460.733 Recovery = Not calculated

QC Failed. Continue with analysis.

Metals

2nd Cal.

Date: 5/29/01
Analyst: SLP
Method: 6010B
Instrument: IRIS-ICP
Work Group: 98187, 98436

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	✓
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	
Calculations & Correct Factors	
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	
Level IV Data	✓

5/30
05-526P
05-504
05-505

Primary Reviewer Initials & Date Checked SLP 5/29/01

Secondary Reviewer Initials & Date Checked WLS 5/30/01

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1263

KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST GLP DATE 05/29/01 TIME 0920
METHOD # 6010B SOP # ME600F Rev # 0 WORK GROUP # 98348, 98187, 98436
CAL STD SOURCE MI-10-3B ICV/CCV SOURCE MI-10-10 2A 5/29
ICS AB SOURCE MI-10-1B ICS A SOURCE MI-10-1A POST SPK SOURCE DSS-33-40
Instrument ID: TJA IRIS: ✓ Data File: 20010529.1 Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	50				27.	LCSS 8N		1.00/50	WG98060-04
	S1 1/200				28.	05-526-02		1.01/50	02
	S2 1/100				29.	02DP		1.10/50	07
	S3 1/4				30.	01		1.03/50	01
	S4 1/2				31.	01S		0.98/50	05
	S5			ICV/ICB	32.	01SD		0.95/50	06
	ICSA				33.	03		0.96/50	
	ICSAB			CCV/CCB	34.	03SDL.2	0.2		
1.	PBS 9Q			WG98286-03	35.	03PS.9	0.9		CCV/CCB
2.	LCSS 9Q		1.00/50	04	~~36.~~	~~PBS 8N~~			
3.	05-382-02		1.00/50	02	37.	LCSS 8N		1.00	
4.	02DP		0.98/50	07	38.	05-526-02		1.01	DID NOT
5.	01		1.00/50	01	39.	02DP		1.10	RERUN
6.	01S		0.97/50	05	40.	01		1.03	5/29/01
7.	01SD		1.03/50	06	41.	01S		0.98	GLP
8.	03		0.98/50		42.	01SD			
9.	03SDL.2	0.2	0.98/50		43.	03			
10.	03SDL.04	0.04	0.98/50	CCV/CCB	44.	03SDL.2	0.2		
11.	03PS.9	0.9	0.98/50		~~45.~~	~~03PS.9~~	~~0.9~~		CCV/CCB
12.	413-02		1.09/50		46.	PBS 9P			WG98168-02
13.	03		0.98/50		47.	LCSS 9P		1.00/50	03
14.	607-02		1.04/50		48.	05-504-02		1.23/50	01
15.	03		1.06/50		49.	05DP		1.24/50	06
16.	04		1.03/50		50.	02SDL.2	0.2	1.23/50	
17.	07		0.93/50	CCV/CCB	51.	02PS.9	0.9	1.23/50	
18.	50				52.	03S		1.23/50	04
19.	S1 1/200				53.	04SD		1.24/50	06
20.	S2 1/100				54.	01		1.26/50	
21.	S3 1/4				55.	06		1.23/50	CCV/CCB
22.	S4 1/2				56.	07		1.30/50	
23.	S5			ICV/ICB	57.	08		1.27/50	
24.	ICSA				58.	01		1.19/50	
25.	ICSAB			CCV/CCB	59.	02		1.18/50	
26.	PBS 8N			WG98060-03	60.	03		1.23/50	

cont'd

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:
CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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KEMRON ENVIRONMENTAL SERVICES
ICP (ICP/MS) RUN LOGBOOK

ANALYST SLP DATE 05/29/01 TIME 0920
METHOD # 6010B SOP # MEG00F Rev # 0 WORK GROUP # 98348, 98187, 98436
CAL STD SOURCE MI-10-3B ICV/CCV SOURCE MI-10-2A
ICS AB SOURCE MI-10-1B ICS A SOURCE MI-10-1A POST SPK SOURCE OSS-33-40
Instrument ID: TJA IRIS: ✓ Data File: 20010629.1 Perkin Elmer Optima: _____ Perkin Elmer ELAN: _____

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
					27.				
					28.				
					29.				
					30.				
					31.				
					32.				
					33.				
					34.				
1.	05-505-04		1.17/50		35.				
2.	01		1.19/50		36.				
3.	02		1.18/50		37.				
4.	03		1.23/50		38.				
5.	04		1.17/50	CCV/CCB	39.				
6.	05		1.23/50	DID NOT RUN SLP 5/29/01	40.				
7.					41.				
8.					42.				
9.					43.				
10.					44.				
11.					45.				
12.					46.				
13.					47.				
14.					48.				
15.					49.				
16.					50.				
17.					51.				
18.					52.				
19.					53.				
20.					54.				
21.					55.				
22.					56.				
23.					57.				
24.					58.				
25.					59.				
26.					60.				

SLP 5/29/01

SLP 5/29/01

SLP 5/29/01

Reviewed by: _____

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key: CCV - Continuing Calibration Verification
CCB = Continuing Calibration Blank
FRS = Full Recalibration Sequence
R = Analyst Rerun

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/29/2001 Initial Calibration ID: _____

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4			r	Q
Thallium	0.00	-0.114	0.250	0.7629	0.5	1.6408	1.000	3.4206			0.99999	

Comments:

_____

_____

_____

_____

AFCEE FORM I-3A

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INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/29/01 Initial Calibration ID: _____

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5			r	Q
Cadmium	0	0.556	0.001	0.5998	0.025	1.9902	0.05	3.3719	0.1	6.2429			0.99998	
Cobalt	0	-0.172	0.004	0.1358	0.1	7.8474	0.2	15.895	0.4	31.869			1.00000	
Copper	0	-0.037	0.01	-0.062	0.25	2.4423	0.5	5.2453	1	10.59			0.99986	
Magnesium	0	0.1109	0.2	0.1455	5	1.5735	10	3.1389	20	6.2848			0.99990	
Nickel	0	-0.165	0.01	0.4115	0.25	14.867	0.5	30.1	1	60.344			1.00000	
Selenium	0	0.0133	0.008	0.0575	0.2	0.6663	0.4	1.4042	0.8	2.9168			0.99945	
Silver	0	-0.076	0.008	-0.042	0.2	2.8559	0.4	6.2916	0.8	12.438			0.99979	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

1267

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 6010B AAB#: _____

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #: _____

Date of Initial Calibration: 5/29/01 Initial Calibration ID: _____

Instrument ID: IRIS-ICP Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Aluminum	0	0.1109	0.10	0.1664	0.20	0.2287	5.00	2.9980	10.00	5.9902	20.00	12.04	0.99995	
Antimony	0	-0.0466	0.012	0.0100	0.02	0.0816	0.6	3.1933	1.2	6.3915	2.4	13.03	0.99997	
Barium	0	0.9497	0.01	2.9890	0.02	4.9692	0.5	101.8600	1	208.5800	2	421.86	0.99994	
Beryllium	0	0.1109	0.0005	0.3814	0.001	0.6861	0.025	14.7300	0.05	30.0520	0.1	59.30	0.99997	
Calcium	0	0.3050	0.1	0.8981	0.2	1.4866	5	29.1830	10	59.7320	20	118.62	0.99998	
Chromium	0	-0.8296	0.005	-0.4115	0.01	0.0900	0.25	24.6370	0.5	50.3860	1	102.82	0.99998	
Iron	0	0.2507	0.04	0.5264	0.08	0.8930	2	15.3920	4	31.0760	8	62.62	0.99996	
Manganese	0	-0.3596	0.005	3.0702	0.01	6.6265	0.25	178.1300	0.5	357.5200	1	715.53	1.00000	
Potassium	0	-2.2851	0.5	0.5162	1	3.4189	25	152.0000	50	309.1300	100	634.09	0.99993	
Sodium	0	-4.9957	0.5	5.6203	1	15.5700	25	534.2800	50	1091.1000	100	2207.30	0.99998	
Vanadium	0	0.8457	0.01	0.9570	0.02	1.1089	0.5	7.4077	1	14.4220	2	28.04	0.99996	
Zinc	0	0.1833	0.01	1.4685	0.02	2.7164	0.5	63.9080	1	129.7800	2	261.85	0.99997	

r = correlation coefficient

Comments:

_____

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Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

1268

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/29/2001

UNITS: ug/L

ICV Time: 1:44 PM
CCV1 Time: 2:03 PM
CCV2 Time: 3:02 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	10200	102.0	10000	10400	104.0	9910	99.1	
Antimony	1200	1220	101.7	1200	1230	102.5	1140	95.0	
Arsenic	400	395	98.8	400	397	99.3	366	91.5	
Barium	1000	1020	102.0	1000	1030	103.0	983	98.3	
Beryllium	50	50.5	101.0	50	50.6	101.2	50.2	100.4	
Cadmium	50	51.1	102.2	50	51.9	103.8	48.2	96.4	
Calcium	10000	10200	102.0	10000	10200	102.0	9920	99.2	
Chromium	500	504	100.8	500	505	101.0	483	96.6	
Cobalt	200	208	104.0	200	208	104.0	195	97.5	
Copper	500	506	101.2	500	506	101.2	482	96.4	
Iron	4000	4030	100.8	4000	4050	101.3	3870	96.8	
Lead	500	509	101.8	500	517	103.4	475	95.0	
Magnesium	10000	10400	104.0	10000	10200	102.0	10100	101.0	
Manganese	500	504	100.8	500	505	101.0	490	98.0	
Nickel	500	509	101.8	500	512	102.4	488	97.6	
Potassium	50000	50300	100.6	50000	50400	100.8	49000	98.0	
Selenium	400	398	99.5	400	405	101.3	375	93.8	
Silver	400	395	98.8	400	403	100.8	387	96.8	
Sodium	50000	50800	101.6	50000	51400	102.8	47500	95.0	
Thallium	500	518	103.6	500	528	105.6	492	98.4	
Vanadium	1000	1020	102.0	1000	1020	102.0	987	98.7	
Zinc	1000	1020	102.0	1000	1020	102.0	959	95.9	

(1) Control Limits: 90-110%

1269

KEMRON ENVIRONMENTAL SERVICES
FORM 3 - BLANKS

INSTRUMENT:	IRIS - Jarrell Ash
METHOD:	6010B
ANALYST:	slp
DATE:	5/29/2001
UNITS:	ug/L
ICB Time:	1:49 PM
CCB1 Time:	2:08 PM
CCB2 Time:	3:07 PM
CCB3 Time:	

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L) CCB1 1		CCB2 2		CCB3 3	
Aluminum	88.7		-47.0		-5.88			
Antimony	-0.60		-6.14		4.02			
Arsenic	-1.94		-0.98		3.18			
Barium	-0.01		0.06		-0.21			
Beryllium	0.02		-0.12		0			
Cadmium	0.49		0.57		-0.11			
Calcium	1.80		-6.44		-18.8			
Chromium	-0.81		-0.73		-0.29			
Cobalt	-0.17		-0.17		0.11			
Copper	-9.27		-5.55		-2.91			
Iron	-1.06		-8.89		-3.84			
Lead	-0.37		-4.15		-2.67			
Magnesium	114		-21.8		69.2			
Manganese	-0.12		-0.01		0.02			
Nickel	-0.99		-0.96		-0.35			
Potassium	35.3		9.10		-33.2			
Selenium	3.50		4.67		4.67			
Silver	-1.27		0.04		-0.36			
Sodium	18.1		3.62		14.4			
Thallium	-2.70		0.44		-0.40			
Vanadium	-1.83		-1.17		1.72			
Zinc	-0.32		-0.18		0.03			

U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
FORM 4A - INTERFERENCE CHECK SAMPLE

INSTRUMENT ID: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/29/2001

UNITS: ug/L

Initial ICSA Time: 1:54 PM
Initial ICSAB Time: 1:58 PM
Final ICSA Time:
Final ICSAB Time:

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R	Q
Aluminum	250000	250000	249000	249000	99.6				
Antimony	0	500	15.2	522	104.4				
Arsenic	0	250	11.1	260	104.0				
Barium	0	250	0.40	249	99.6				
Beryllium	0	250	-0.19	252	100.8				
Cadmium	0	500	1.73	499	99.8				
Calcium	250000	250000	243000	243000	97.2				
Chromium	0	250	1.10	238	95.2				
Cobalt	0	250	3.66	238	95.2				
Copper	0	250	-4.10	245	98.0				
Iron	100000	100000	86400	91200	91.2				
Lead	0	500	-37.3	437	87.4				
Magnesium	250000	250000	239000	239000	95.6				
Manganese	0	250	-1.84	226	90.4				
Nickel	0	500	0.71	462	92.4				
Potassium	0	2500	125	2610	104.4				
Selenium	0	250	29.8	256	102.4				
Silver	0	500	-1.36	504	100.8				
Sodium	0	1250	57.5	1270	101.6				
Thallium	0	500	2.17	473	94.6				
Vanadium	0	250	-11.8	239	95.6				
Zinc	0	500	-0.34	484	96.8				

(1) Control Limits: 80-120%

1271

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/29/2001

UNITS: mg/kg

Spiked Sample Time: 2:57 PM
Sample Time: 2:47 PM

Sample ID: 0552603PS.9

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	40800		30330		10000	104.7	
Antimony	75-125	965		1.791	B	1000	96.3	
Arsenic	75-125	921		2.466	B	1000	91.9	
Barium	75-125	9630		34.92		10000	96.0	
Beryllium	75-125	982		0.1899	B	1000	98.2	
Cadmium	75-125	929		0.1134	B	1000	92.9	
Calcium	75-125	13200		3528		10000	96.7	
Chromium	75-125	997		36.09		1000	96.1	
Cobalt	75-125	934		1.674		1000	93.2	
Copper	75-125	944		0.145	U	1000	94.4	
Iron	75-125	4210		3087		1000	112.3	
Lead	75-125	955		22.41		1000	93.3	
Magnesium	75-125	10500		879.3		10000	96.2	
Manganese	75-125	1000		37.53		1000	96.2	
Nickel	75-125	945		11.52		1000	93.3	
Potassium	75-125	47400		418.5		50000	94.0	
Selenium	75-125	881		4.941		1000	87.6	
Silver	75-125	189		0.103	U	200	94.5	
Sodium	75-125	46700		126.9		50000	93.1	
Thallium	75-125	940		0.348	U	1000	94.0	
Vanadium	75-125	986		13.68		1000	97.2	
Zinc	75-125	939		8.802		1000	93.0	

N = % Recovery exceeds control limits of 75-125%
U = Result is less than MDL
B = Result is between MDL and RL

1272

KEMRON ENVIRONMENTAL SERVICES
FORM 8 - ICP-AES AND ICP-MS SERIAL DILUTIONS

INSTRUMENT: IRIS - Jarrell Ash
METHOD: 6010B
ANALYST: slp
DATE: 5/29/2001

UNITS: mg/kg

Initial Sample Time: 2:47 PM
Serial Dilution Time: 2:52 PM

Sample ID: 552603

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q
Aluminum	1760		1750		0.6	
Antimony	0.45	U	0.45	U	0.0	
Arsenic	0.35	U	0.35	U	0.0	
Barium	2.02		2.24		10.9	E
Beryllium	0.011	B	0.0154	B	40.0	
Cadmium	0.032	U	0.059	B	84.4	
Calcium	204		213		4.4	
Chromium	2.09		2.08		0.5	
Cobalt	0.097	B	0.043	U	55.7	
Copper	0.145	U	0.145	U	0.0	
Iron	179		184		2.8	
Lead	1.30	B	1.23	B	5.4	
Magnesium	50.9		23.9	B	53.0	
Manganese	2.17		2.92		34.6	E
Nickel	0.666	B	0.702	B	5.4	
Potassium	24.2	B	11.0	B	54.5	
Selenium	0.286	B	1.49	B	421.0	
Silver	0.103	U	0.103	U	0.0	
Sodium	7.37	B	10.5	B	42.5	
Thallium	0.348	U	0.348	U	0.0	
Vanadium	0.793		-0.518		165.3	
Zinc	0.509	B	1.36		167.2	

U = Result is below MDL
B = Result is between MDL and RL
E = %RPD exceeds control limit of 10% when initial sample result is greater than or equal to 50 times the MDL

1273

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: IRIS-Jarrel Ash

Units: mg/kg

Analyte	Wave-length /Mass	Analysis Date	CRQL	MDL
Aluminum	308.20	11/20/00	5	3.16
Antimony	206.80	9/28/00	10	0.45
Arsenic	189.00	10/15/00	5	0.35
Barium	455.40	11/16/00	0.5	0.014
Beryllium	313.00	9/28/00	0.5	0.008
Cadmium	228.80	9/28/00	0.5	0.032
Calcium	373.60	9/28/00	10	2.822
Chromium	267.70	9/28/00	1	0.060
Cobalt	228.60	9/28/00	1	0.043
Copper	324.70	9/28/00	1	0.145
Iron	271.40	9/28/00	2	1.12
Lead	220.30	9/28/00	5	0.331
Magnesium	277.90	10/15/00	25	4.57
Manganese	257.60	11/16/00	0.5	0.007
Nickel	231.60	9/28/00	2	0.104
Potassium	766.40	9/28/00	50	5.9
Selenium	196.00	11/16/00	1	0.256
Silver	328.00	9/28/00	2	0.103
Sodium	589.50	11/16/00	25	0.859
Thallium	190.80	9/28/00	2	0.348
Vanadium	292.40	9/28/00	0.5	0.228
Zinc	213.80	10/15/00	1	0.465

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Ba
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000550	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	-0.0000400	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0015000	-0.0003500
Calcium	373.70	0.0000000	0.0000000	0.0014000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000250	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	-0.0000250	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0002070	-0.0035600	0.0000000
Lead	220.30	-0.0002000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	-0.0597000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	-0.0000200	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	-0.0000520	0.0000000	-0.0003530	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000760	0.0000000	0.0000000	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/00

Analyte	Wave-length (nm)	Interelement Correction Factors for: Be	Co	Cr	Cu	Mn	Mo
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0018000	0.0202000
Antimony	206.80	0.0000000	0.0000000	0.0086800	0.0000000	0.0000000	-0.0014800
Arsenic	189.00	0.0000000	0.0000000	-0.0087000	0.0000000	0.0000000	-0.0006880
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	-0.0030000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0016000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0003400	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0001260	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	-0.0000890	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0760000	0.0000000	0.0000000	0.0000800	-0.0137000
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017000
Magnesium	277.90	0.0000000	0.0000000	-0.0008000	0.0000000	0.0013200	-0.0236000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0128000	0.0004420	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0004300	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000540	0.0000000	0.0000900	-0.0004900
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0060000	0.0004000	0.0000000	0.0000000	-0.0069800
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0009000	0.0002790	0.0000000

Comments:

KEMRON ENVIRONMENTAL SERVICES
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Instrument ID: IRIS-Jarrell Ash

Date: 11/22/2000

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Ti	V	Zn	
Aluminum	308.20	0.0000000	0.0013000	0.0600000	0.0000000	
Antimony	206.80	-0.0023400	0.0000000	-0.0010740	0.0000000	
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	
Boron	249.70	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	228.80	0.0000000	0.0000000	0.0000720	0.0000000	
Calcium	373.70	0.0041400	0.0000000	0.0000000	0.0000000	
Chromium	267.70	0.0000000	0.0000000	-0.0005000	0.0000000	
Cobalt	228.60	0.0000000	0.0014800	0.0000000	-0.0010000	
Copper	324.70	0.0000000	-0.0007090	-0.0070000	0.0000000	
Iron	271.40	0.0000000	0.0000000	-0.1980000	0.0000000	
Lead	220.30	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	277.90	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.60	0.0000000	0.0000000	-0.0000750	0.0000000	
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	
Silver	328.00	0.0000000	0.0060000	0.0000000	0.0000000	
Sodium	589.50	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.80	0.0000000	-0.0024000	-0.0220000	0.0000000	
Vanadium	292.40	-0.0034600	0.0000000	0.0000000	0.0000000	
Zinc	213.80	0.0030000	0.0000000	0.0000000	0.0000000	

Comments:

KEMRON ENVIRONMENTAL SERVICES
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Instrument ID: IRIS-Jarrel Ash

Date: 11/22/2000

Analyte	Integ. Time (Sec.)	Concentration (mg/kg)
Aluminum	15.00	50000.0
Antimony	55.00	2500.0
Arsenic	55.00	5000.0
Barium	15.00	1000.0
Beryllium	15.00	250.0
Boron	15.00	5000.0
Cadmium	55.00	1500.0
Calcium	15.00	50000.0
Chromium	55.00	5000.0
Cobalt	55.00	5000.0
Copper	15.00	2500.0
Iron	55.00	50000.0
Lead	55.00	10000.0
Magnesium	55.00	50000.0
Manganese	55.00	2500.0
Nickel	55.00	5000.0
Potassium	15.00	20000.0
Selenium	55.00	1000.0
Silver	15.00	500.0
Sodium	15.00	20000.0
Thallium	55.00	1000.0
Vanadium	15.00	5000.0
Zinc	55.00	2000.0

Comments:

Rack	Pos	Set	Name & comment
L	1		S0
L	2		S1
L	3		S2
L	4		S3
L	5		S4
L	6		S5
L	7		ICV
L	8		ICSA
L	9		ICSAB
L	10		CCV
L	11		CCB
L	12-19		-- not used
1	1	2	PBS 8N WG98060-03
1	2	2	LCSS 8N WG98060-04
1	3	2	0552602 WG98060-02
1	4	2	0552602DP WG98060-07
1	5	2	0552601 WG98060-01
1	6	2	0552601S WG98060-05
1	7	2	0552601SD WG98060-06
1	8	2	0552603
1	9	2	0552603SDL.2
1	10	2	0552603PS.9
1	11-48		-- not used
2	1-48		-- not used
3	1-48		-- not used
4	1-48		-- not used

Sheri L. Pabzdy
5/29/01
2nd Cal.

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Method: CLP5 Sample Name: S0 Operator:
Comment:
Run Time: 05/29/01 13:13 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11092	-.07624	.05164	.17742	.94971
Stddev	.03925	.10782	.00235	.03180	.16639
%RSD	35.383	141.42	4.5598	17.925	17.520
#1	.08317	-.15248	.04998	.15493	1.0674
#2	.13867	.00000	.05331	.19991	.83205

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11091	.30501	.55600	-.17242	-.82962
Stddev	.03918	.07834	.00178	.02003	.01415
%RSD	35.328	25.685	.31959	11.616	1.7057
#1	.13862	.36041	.55725	-.18658	-.83963
#2	.08321	.24961	.55474	-.15826	-.81962

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.03697	.25073	-2.2851	4.0838	.11092
Stddev	.01960	.08599	.0704	.0675	.03925
%RSD	53.007	34.297	3.0814	1.6523	35.382
#1	-.05083	.18992	-2.2353	4.1315	.08317
#2	-.02311	.31153	-2.3349	4.0361	.13867

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.35956	.00167	-4.9957	-.16492	.07580
Stddev	.01139	.00000	.3820	.04476	.01531
%RSD	3.1688	.00000	7.6460	27.140	20.204
#1	-.36761	.00167	-4.7256	-.13327	.06497
#2	-.35150	.00167	-5.2658	-.19658	.08663

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.04665	.01333	.09995	.15660	-.01583
Stddev	.04241	.02120	.00943	.02827	.00589
%RSD	90.911	159.10	9.4297	18.055	37.215
#1	-.01666	-.00167	.10662	.17659	-.01999
#2	-.07663	.02832	.09329	.13660	-.01166

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.21145	-.16638	-.11411	.84573	.18325
Stddev	.09320	.00658	.02474	.09779	.00942
%RSD	44.076	3.9571	21.676	11.563	5.1409
#1	-.14555	-.16172	-.09662	.91488	.17659
#2	-.27735	-.17103	-.13161	.77658	.18991

Method: CLP5 Sample Name: S1 Operator:
Comment:
Run Time: 05/29/01 13:18 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	B_2496	Ba4554	Be3130	Ca3736
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16644	1.6850	2.9890	.38143	.89807
Stddev	.02940	.0625	.0494	.02947	.10286
%RSD	17.664	3.7104	1.6541	7.7274	11.453
#1	.14565	1.6408	3.0239	.40227	.82534
#2	.18723	1.7292	2.9540	.36059	.97080

Elem	Cr2677	Fe2714	K_7664	Li6707	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.41146	.52643	.51622	6.3536	3.0702
Stddev	.03060	.04238	.23921	.0009	.0096
%RSD	7.4380	8.0502	46.338	.01426	.31234
#1	-.43311	.55640	.68536	6.3542	3.0634
#2	-.38982	.49646	.34708	6.3529	3.0770

Elem	Mo2020	Na5895	Sb2068	Si2516	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.23572	5.6203	.01000	.71798	.23822
Stddev	.00119	.1126	.05654	.01174	.02590
%RSD	.50508	2.0031	565.56	1.6354	10.873
#1	.23488	5.5407	-.02998	.72629	.25653
#2	.23656	5.6999	.04998	.70968	.21990

Elem	Sr2152	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11578	-.12136	.34675	.95703	1.4685
Stddev	.00353	.01470	.03928	.05898	.0460
%RSD	3.0468	12.109	11.328	6.1624	3.1337
#1	.11827	-.11097	.37453	.99873	1.4359
#2	.11328	-.13175	.31898	.91533	1.5010

Method: CLP5 Sample Name: S2 Operator:
Comment:
Run Time: 05/29/01 13:23 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.22871	-.04159	.10163	3.0954	4.9692
Stddev	.02948	.03922	.01651	.0122	.0573
%RSD	12.887	94.299	16.243	.39519	1.1521
#1	.24955	-.06932	.11330	3.1041	4.9287
#2	.20787	-.01386	.08995	3.0868	5.0097

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.68611	1.4866	.59976	.13578	.08996
Stddev	.04879	.0936	.01776	.03179	.01415
%RSD	7.1113	6.2948	2.9609	23.411	15.726
#1	.65161	1.5528	.61232	.11330	.09997
#2	.72061	1.4204	.58721	.15825	.07996

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.06237	.89302	3.4189	9.0876	.14554
Stddev	.01632	.02605	.1226	.1890	.00985
%RSD	26.159	2.9169	3.5870	2.0796	6.7657
#1	-.05084	.91144	3.5056	9.2213	.15251
#2	-.07391	.87460	3.3322	8.9540	.13858

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.6265	.48731	15.570	.41150	.14161
Stddev	.0320	.00582	.234	.00230	.01180
%RSD	.48277	1.1941	1.5061	.55783	8.3335
#1	6.6492	.48319	15.736	.40988	.14996
#2	6.6039	.49142	15.404	.41313	.13327

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08163	.05748	1.4186	.33820	.22075
Stddev	.00234	.00119	.1098	.00241	.02006
%RSD	2.8714	2.0643	7.7375	.71144	9.0870
#1	.07998	.05832	1.4962	.33990	.23493
#2	.08329	.05664	1.3410	.33650	.20656

Elem	Sr3464	Ti3349	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.04852	.73925	1.1089	2.7164
Stddev	.03922	.03897	.0396	.0181
%RSD	80.833	5.2721	3.5668	.66508
#1	-.07625	.71169	1.1369	2.7292
#2	-.02079	.76681	1.0809	2.7036

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Method: CLP5 Sample Name: S3 Operator:
Comment:
Run Time: 05/29/01 13:28 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9980	2.8559	1.1011	78.092	101.86
Stddev	.0929	.0983	.0071	.198	.19
%RSD	3.0976	3.4414	.64461	.25318	.18849
#1	2.9323	2.9254	1.0960	77.953	101.72
#2	3.0636	2.7864	1.1061	78.232	101.99

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.730	29.183	1.9902	7.8474	24.637
Stddev	.146	.135	.0017	.0139	.034
%RSD	.98945	.46147	.08596	.17731	.13667
#1	14.627	29.087	1.9914	7.8572	24.613
#2	14.833	29.278	1.9890	7.8375	24.660

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4423	15.392	152.00	151.43	1.5735
Stddev	.0623	.014	.45	.40	.0097
%RSD	2.5509	.08906	.29454	.26312	.61419
#1	2.4863	15.401	152.32	151.15	1.5667
#2	2.3982	15.382	151.69	151.71	1.5803

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	178.13	12.918	534.28	14.867	3.4548
Stddev	.07	.002	1.14	.030	.0211
%RSD	.04140	.01544	.21378	.20321	.61092
#1	178.07	12.919	533.47	14.888	3.4697
#2	178.18	12.917	535.09	14.846	3.4399

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1933	.66630	34.175	4.8307	6.4207
Stddev	.0023	.01651	.001	.0187	.0273
%RSD	.07096	2.4776	.00410	.38733	.42473
#1	3.1949	.65463	34.176	4.8439	6.4014
#2	3.1917	.67798	34.174	4.8175	6.4399

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.9615	22.618	.76292	7.4077	63.908
Stddev	.0438	.112	.02358	.0529	.148
%RSD	1.1047	.49682	3.0906	.71460	.23134
#1	3.9306	22.539	.74625	7.4452	63.804
#2	3.9924	22.698	.77959	7.3703	64.013

1283

Method: CLP5 Sample Name: S4 Operator:
Comment:
Run Time: 05/29/01 13:33 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.9902	6.2916	2.1255	158.36	208.58
Stddev	.1324	.0393	.0047	.40	.86
%RSD	2.2105	.62502	.22164	.25217	.41376
#1	5.8966	6.2638	2.1288	158.07	207.97
#2	6.0838	6.3194	2.1222	158.64	209.19

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	30.052	59.732	3.3719	15.895	50.386
Stddev	.029	.094	.0018	.005	.108
%RSD	.09579	.15788	.05242	.02961	.21505
#1	30.072	59.666	3.3707	15.898	50.463
#2	30.031	59.799	3.3732	15.891	50.309

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.2453	31.076	309.13	308.12	3.1389
Stddev	.0622	.112	1.02	.40	.0097
%RSD	1.1852	.36010	.33116	.12922	.31016
#1	5.2014	30.996	309.85	307.84	3.1458
#2	5.2893	31.155	308.40	308.41	3.1320

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	357.52	26.203	1091.1	30.100	6.8504
Stddev	.28	.041	2.2	.047	.0035
%RSD	.07849	.15735	.20620	.15650	.05156
#1	357.72	26.174	1092.7	30.134	6.8529
#2	357.32	26.232	1089.5	30.067	6.8479

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.3915	1.4042	70.396	9.6114	13.169
Stddev	.0024	.0071	.035	.0330	.039
%RSD	.03685	.50330	.05023	.34312	.29519
#1	6.3899	1.3992	70.371	9.6348	13.141
#2	6.3932	1.4092	70.421	9.5881	13.196

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.3496	46.815	1.6408	14.422	129.78
Stddev	.0394	.246	.0094	.019	.05
%RSD	.47149	.52532	.57422	.13387	.03633
#1	8.3217	46.642	1.6474	14.435	129.75
#2	8.3774	46.989	1.6341	14.408	129.82

1284

Method: CLP5 Sample Name: S5 Operator:
Comment:
Run Time: 05/29/01 13:38 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12.039	12.438	4.1894	319.87	421.86
Stddev	.093	.127	.0259	1.82	1.69
%RSD	.77348	1.0245	.61858	.56878	.39987
#1	11.974	12.348	4.1711	318.59	423.05
#2	12.105	12.528	4.2077	321.16	420.66

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	59.300	118.62	6.2429	31.869	102.82
Stddev	.431	.41	.0654	.167	.08
%RSD	.72685	.34257	1.0472	.52485	.07793
#1	59.605	118.91	6.1966	31.751	102.76
#2	58.995	118.34	6.2891	31.988	102.88

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.590	62.622	634.09	623.71	6.2848
Stddev	.088	.128	.18	3.53	.0098
%RSD	.83305	.20405	.02763	.56536	.15566
#1	10.528	62.532	634.21	626.21	6.2917
#2	10.653	62.713	633.96	621.22	6.2779

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	715.53	52.672	2207.3	60.344	13.522
Stddev	.48	.324	2.8	.075	.041
%RSD	.06669	.61499	.12887	.12496	.30491
#1	715.19	52.443	2205.3	60.291	13.493
#2	715.87	52.901	2209.3	60.397	13.551

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.031	2.9168	141.37	19.181	26.364
Stddev	.078	.0165	.69	.078	.193
%RSD	.59659	.56541	.48746	.40532	.73273
#1	12.976	2.9051	140.88	19.126	26.227
#2	13.086	2.9284	141.85	19.236	26.501

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16.817	93.704	3.4206	28.042	261.85
Stddev	.196	.375	.0153	.108	.76
%RSD	1.1652	.40063	.44761	.38415	.28971
#1	16.956	93.969	3.4315	28.119	261.32
#2	16.679	93.438	3.4098	27.966	262.39

1285

El Name	Slope	Y-int	Correlation	Date Stdized
Al3082	0.5881	0.1109	0.9999297	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	8.3755e-050		0	0.11092
S1	0.1	0.094482	-0.00552	-5.52	0.16644
S2	0.2	0.20037	0.000373	0.187	0.22871
S3	5	4.9093	-0.0907	-1.81	2.998
S4	10	9.9973	-0.0027	-0.027	5.9902
S5	20	20.284	0.284	1.42	12.039

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	15.9107	-0.0772	0.9982126	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	5.7342e-050		0	-0.076241
S2	0.008	0.0022352	-0.00576	-72.1	-0.04159
S3	0.2	0.18434	-0.0157	-7.83	2.8559
S4	0.4	0.40028	0.000282	0.0706	6.2916
S5	0.8	0.78658	-0.0134	-1.68	12.438

El Name	Slope	Y-int	Correlation	Date Stdized
As1890	5.2124	0.0517	0.9998712	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-1.6446e-050		0	0.051643
S2	0.008	0.009573	0.00157	19.7	0.10163
S3	0.2	0.20131	0.00131	0.657	1.1011
S4	0.4	0.39785	-0.00215	-0.537	2.1255
S5	0.8	0.79381	-0.00619	-0.774	4.1894

El Name	Slope	Y-int	Correlation	Date Stdized
B_2496	15.8751	0.1752	0.9999388	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.0001427	0	0	0.17742
S1	0.1	0.095109	-0.00489	-4.89	1.685
S2	0.2	0.18395	-0.016	-8.02	3.0954
S3	5	4.9081	-0.0919	-1.84	78.092
S4	10	9.9641	-0.0359	-0.359	158.36
S5	20	20.138	0.138	0.692	319.87

El Name	Slope	Y-int	Correlation	Date Stdized
Ba4554	208.3604	0.9480	0.9998957	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	8.0359e-060		0	0.94971
S1	0.01	0.0097953	-0.000205	-2.05	2.989
S2	0.02	0.019299	-0.000701	-3.51	4.9692
S3	0.5	0.48431	-0.0157	-3.14	101.86
S4	1	0.9965	-0.0035	-0.35	208.58
S5	2	2.0201	0.0201	1.01	421.86

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El Name	Slope	Y-int	Correlation	Date Stdized
Be3130	592.6143	0.1106	0.9999586	05/29/01 13:41:31

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	5.9308e-070		0	0.11091
S1	0.0005	0.00045707	-4.29e-05	-8.59	0.38143
S2	0.001	0.00097121	-2.88e-05	-2.88	0.68611
S3	0.025	0.024669	-0.000331	-1.32	14.73
S4	0.05	0.050524	0.000524	1.05	30.052
S5	0.1	0.099879	-0.000121	-0.121	59.3

El Name	Slope	Y-int	Correlation	Date Stdized
Ca3736	5.8987	0.3050	0.9999592	05/29/01 13:41:31

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	7.3916e-060		0	0.30501
S1	0.1	0.10055	0.000549	0.549	0.89807
S2	0.2	0.20032	0.000323	0.162	1.4866
S3	5	4.8956	-0.104	-2.09	29.183
S4	10	10.075	0.0747	0.747	59.732
S5	20	20.059	0.0587	0.293	118.62

El Name	Slope	Y-int	Correlation	Date Stdized
Cd2288	57.0285	0.5559	0.9998347	05/29/01 13:41:31

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	2.1729e-060		0	0.556
S2	0.001	0.00076961	-0.00023	-23	0.59976
S3	0.025	0.02515	0.00015	0.602	1.9902
S4	0.05	0.049379	-0.000621	-1.24	3.3719
S5	0.1	0.099722	-0.000278	-0.278	6.2429

El Name	Slope	Y-int	Correlation	Date Stdized
Co2286	79.9896	-0.1725	0.9999949	05/29/01 13:41:31

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	1.4739e-060		0	-0.17242
S2	0.004	0.0038545	-0.000146	-3.64	0.13578
S3	0.1	0.10026	0.000262	0.262	7.8474
S4	0.2	0.20087	0.000866	0.433	15.895
S5	0.4	0.40058	0.000576	0.144	31.869

El Name	Slope	Y-int	Correlation	Date Stdized
Cr2677	102.9809	-0.8312	0.9998944	05/29/01 13:41:31

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
S0	0	1.4886e-050		0	-0.82962
S1	0.005	0.0040754	-0.000925	-18.5	-0.41146
S2	0.01	0.0089446	-0.00106	-10.6	0.089964
S3	0.25	0.24731	-0.00269	-1.08	24.637
S4	0.5	0.49734	-0.00266	-0.531	50.386
S5	1	1.0065	0.00652	0.652	102.82

El Name	Slope	Y-int	Correlation	Date Stdized
Cu3247	10.6010	-0.0383	0.9953886	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.000122990		0	-0.03697
S2	0.01	-0.0022732	-0.0123	-123	-0.062373
S3	0.25	0.23399	-0.016	-6.4	2.4423
S4	0.5	0.49841	-0.00159	-0.319	5.2453
S5	1	1.0026	0.00258	0.258	10.59

El Name	Slope	Y-int	Correlation	Date Stdized
Fe2714	8.1361	0.2505	0.9999286	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	3.2113e-05	0	0	0.25073
S1	0.04	0.033918	-0.00608	-15.2	0.52643
S2	0.08	0.078975	-0.00102	-1.28	0.89302
S3	2	1.861	-0.139	-6.95	15.392
S4	4	3.7887	-0.211	-5.28	31.076
S5	8	7.6661	-0.334	-4.17	62.622

El Name	Slope	Y-int	Correlation	Date Stdized
K_7664	6.2924	-2.2919	0.9998815	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.0010894	0	0	-2.2851
S1	0.5	0.44628	-0.0537	-10.7	0.51622
S2	1	0.90757	-0.0924	-9.24	3.4189
S3	25	24.521	-0.479	-1.92	152
S4	50	49.491	-0.509	-1.02	309.13
S5	100	101.13	1.13	1.13	634.09

El Name	Slope	Y-int	Correlation	Date Stdized
Li6707	305.6363	4.0699	0.9996681	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	4.5664e-05	0	0	4.0838
S1	0.01	0.007472	-0.00253	-25.3	6.3536
S2	0.02	0.016417	-0.00358	-17.9	9.0876
S3	0.5	0.48214	-0.0179	-3.57	151.43
S4	1	0.99482	-0.00518	-0.518	308.12
S5	2	2.0274	0.0274	1.37	623.71

El Name	Slope	Y-int	Correlation	Date Stdized
Mg2779	0.3054	0.1106	0.9993079	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.00089942	0	0	0.11092
S2	0.2	0.11425	-0.0858	-42.9	0.14554
S3	5	4.7896	-0.21	-4.21	1.5735
S4	10	9.9149	-0.0851	-0.851	3.1389
S5	20	20.215	0.215	1.08	6.2848

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El Name	Slope	Y-int	Correlation	Date Stdized
Mn2576	715.2338	-0.3619	0.9999956	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	3.2071e-060		0	-0.35956
S1	0.005	0.0047985	-0.000202	-4.03	3.0702
S2	0.01	0.0097708	-0.000229	-2.29	6.6265
S3	0.25	0.24955	-0.000448	-0.179	178.13
S4	0.5	0.50038	0.000375	0.075	357.52
S5	1	1.0009	0.00092	0.092	715.53

El Name	Slope	Y-int	Correlation	Date Stdized
Mo2020	26.2134	0.0012	0.9999477	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.8704e-050		0	0.0016661
S1	0.01	0.0089474	-0.00105	-10.5	0.23572
S2	0.02	0.018545	-0.00145	-7.27	0.48731
S3	0.5	0.49275	-0.00725	-1.45	12.918
S4	1	0.99957	-0.000434	-0.0434	26.203
S5	2	2.0093	0.00932	0.466	52.672

El Name	Slope	Y-int	Correlation	Date Stdized
Na5895	21.9767	-5.0079	0.9999492	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	0.000553570		0	-4.9957
S1	0.5	0.48361	-0.0164	-3.28	5.6203
S2	1	0.93635	-0.0637	-6.37	15.57
S3	25	24.539	-0.461	-1.84	534.28
S4	50	49.875	-0.125	-0.251	1091.1
S5	100	100.67	0.666	0.666	2207.3

El Name	Slope	Y-int	Correlation	Date Stdized
Ni2316	60.3669	-0.1652	0.9999914	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	4.8702e-060		0	-0.16492
S2	0.01	0.0095536	-0.000446	-4.46	0.4115
S3	0.25	0.24901	-0.000988	-0.395	14.867
S4	0.5	0.50136	0.00136	0.272	30.1
S5	1	1.0024	0.00236	0.236	60.344

El Name	Slope	Y-int	Correlation	Date Stdized
Pb2203	13.5045	0.0751	0.9992566	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	4.9078e-050		0	0.075799
S2	0.01	0.0049224	-0.00508	-50.8	0.14161
S3	0.25	0.25026	0.00026	0.104	3.4548
S4	0.5	0.50171	0.00171	0.341	6.8504
S5	1	0.99572	-0.00428	-0.428	13.522

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El Name	Slope	Y-int	Correlation	Date Stdized
Sb2068	5.4120	-0.0467	0.9999524	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.7581e-050		0	-0.046645
S1	0.012	0.010484	-0.00152	-12.6	0.0099974
S2	0.024	0.02372	-0.00028	-1.17	0.081635
S3	0.6	0.59867	-0.00133	-0.222	3.1933
S4	1.2	1.1896	-0.0104	-0.865	6.3915
S5	2.4	2.4165	0.0165	0.686	13.031

El Name	Slope	Y-int	Correlation	Date Stdized
Se1960	3.5378	0.0135	0.9984719	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S2	0.008	0.012441	0.00444	55.5	0.057477
S3	0.2	0.18454	-0.0155	-7.73	0.6663
S4	0.4	0.39312	-0.00688	-1.72	1.4042
S0	0	-3.8292e-050		0	0.013327
S5	0.8	0.82066	0.0207	2.58	2.9168

El Name	Slope	Y-int	Correlation	Date Stdized
Si2516	13.9863	0.0986	0.9998986	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	9.7643e-050		0	0.099954
S1	0.05	0.044286	-0.00571	-11.4	0.71798
S2	0.1	0.09438	-0.00562	-5.62	1.4186
S3	2.5	2.4364	-0.0636	-2.54	34.175
S4	5	5.0262	0.0262	0.524	70.396
S5	10	10.1	0.1	1	141.37

El Name	Slope	Y-int	Correlation	Date Stdized
Sn1899	9.4668	0.1564	0.9999509	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.8479e-050		0	0.1566
S1	0.01	0.0086403	-0.00136	-13.6	0.23822
S2	0.02	0.019202	-0.000798	-3.99	0.3382
S3	0.5	0.49376	-0.00624	-1.25	4.8307
S4	1	0.99876	-0.00124	-0.124	9.6114
S5	2	2.0096	0.00964	0.482	19.181

El Name	Slope	Y-int	Correlation	Date Stdized
Sr2152	13.1568	-0.0160	0.9999369	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.0782e-050		0	-0.015826
S1	0.01	0.010013	1.34e-05	0.134	0.11578
S2	0.02	0.017992	-0.00201	-10	0.22075
S3	0.5	0.48923	-0.0108	-2.15	6.4207
S4	1	1.0021	0.00212	0.212	13.169
S5	2	2.0051	0.00505	0.253	26.364

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El Name	Slope	Y-int	Correlation	Date Stdized
Sr3464	8.5030	-0.2114	0.9999587	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-7.15e-07	0	0	-0.21145
S1	0.01	0.010594	0.000594	5.94	-0.12136
S2	0.02	0.019161	-0.000839	-4.2	-0.04852
S3	0.5	0.49076	-0.00924	-1.85	3.9615
S4	1	1.0068	0.00682	0.682	8.3496
S5	2	2.0027	0.00266	0.133	16.817

El Name	Slope	Y-int	Correlation	Date Stdized
Ti3349	46.7317	-0.1661	0.9999306	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	-4.8624e-060		0	-0.16638
S1	0.01	0.010975	0.000975	9.75	0.34675
S2	0.02	0.019374	-0.000626	-3.13	0.73925
S3	0.5	0.48756	-0.0124	-2.49	22.618
S4	1	1.0053	0.00535	0.535	46.815
S5	2	2.0087	0.0087	0.435	93.704

El Name	Slope	Y-int	Correlation	Date Stdized
Tl1908	3.7247	-0.1142	0.9999935	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	1.2552e-050		0	-0.11411
S3	0.25	0.23548	-0.0145	-5.81	0.76292
S4	0.5	0.47117	-0.0288	-5.77	1.6408
S5	1	0.94903	-0.051	-5.1	3.4206

El Name	Slope	Y-int	Correlation	Date Stdized
V_3102	13.5392	0.8454	0.9998808	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	2.1946e-050		0	0.84573
S1	0.01	0.0082426	-0.00176	-17.6	0.95703
S2	0.02	0.019459	-0.000541	-2.71	1.1089
S3	0.5	0.48469	-0.0153	-3.06	7.4077
S4	1	1.0027	0.00275	0.275	14.422
S5	2	2.0088	0.00877	0.439	28.042

El Name	Slope	Y-int	Correlation	Date Stdized
Zn2138	129.6671	0.1826	0.9999577	05/29/01 13:41:31

Standard Name	Concentration Stated	Found	Difference Conc	%	Signal (S)IR
S0	0	4.9823e-060		0	0.18325
S1	0.01	0.0099165	-8.35e-05	-0.835	1.4685
S2	0.02	0.019541	-0.000459	-2.3	2.7164
S3	0.5	0.49146	-0.00854	-1.71	63.908
S4	1	0.99948	-0.000517	-0.0517	129.78
S5	2	2.018	0.018	0.902	261.85

Method: CLP5 Sample Name: ICV Operator:
Comment:
Run Time: 05/29/01 13:44 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.172	.39526	.39463	10.269	1.0166
Stddev	.100	.00916	.00769	.028	.0251
%RSD	.98709	2.3180	1.9474	.27573	2.4691
#1	10.243	.40174	.40007	10.289	1.0343
#2	10.101	.38878	.38920	10.249	.99883
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05049	10.153	.05109	.20759	.50391
Stddev	.00073	.167	.00021	.00071	.00022
%RSD	1.4365	1.6478	.41268	.34169	.04326
#1	.05100	10.272	.05124	.20709	.50406
#2	.04997	10.035	.05095	.20809	.50375
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50568	4.0316	50.303	.98845	10.353
Stddev	.00421	.0019	.247	.01375	.378
%RSD	.83234	.04613	.49182	1.3906	3.6524
#1	.50270	4.0303	50.128	.99817	10.620
#2	.50865	4.0329	50.478	.97873	10.085
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50358	1.0272	50.794	.50854	.50928
Stddev	.00009	.0000	.164	.00015	.00045
%RSD	.01752	.00091	.32338	.02937	.08784
#1	.50365	1.0272	50.678	.50864	.50960
#2	.50352	1.0272	50.910	.50843	.50896
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

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Sample Name: ICV Run Time: 05/29/01 13:44

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2215	.39817	5.0125	1.0153	1.0327
Stddev	.0048	.00565	.0121	.0045	.0064
%RSD	.39404	1.4199	.24077	.44162	.61574
#1	1.2249	.39418	5.0211	1.0185	1.0372
#2	1.2181	.40217	5.0040	1.0121	1.0282
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0162	1.0141	.51751	1.0239	1.0155
Stddev	.0154	.0121	.01055	.0198	.0002
%RSD	1.5196	1.1905	2.0382	1.9291	.02069
#1	1.0271	1.0226	.52497	1.0379	1.0153
#2	1.0053	1.0056	.51005	1.0099	1.0156
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	5.0000%	5.0000%	5.0000%	5.0000%	5.0000%

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/29/01 13:49 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	H .08866	-.00127	-.00194	.01347	-.00001
Stddev	.04179	.00250	.00588	.00186	.00002
%RSD	47.138	196.33	303.61	13.807	373.82
#1	.11822	-.00304	-.00609	.01478	-.00002
#2	.05911	.00049	.00222	.01215	.00001
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00180	.00049	-.00017	-.00081
Stddev	.00003	.00416	.00089	.00031	.00016
%RSD	137.36	230.75	182.43	183.69	20.026
#1	.00000	-.00114	-.00014	.00005	-.00093
#2	.00005	.00475	.00111	-.00039	-.00070
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00927	-.00106	.03533	-.00008	H .11449
Stddev	.00773	.00454	.05145	.00144	.03176
%RSD	83.425	427.86	145.61	1721.8	27.738
#1	-.01474	.00215	-.00105	-.00111	.13694
#2	-.00380	-.00427	.07172	.00094	.09203
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Fail
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	.00021	.01807	-.00099	-.00037
Stddev	.00011	.00027	.00639	.00051	.00070
%RSD	93.774	129.44	35.343	51.289	187.44
#1	-.00004	.00002	.01355	-.00135	.00012
#2	-.00020	.00040	.02258	-.00063	-.00087
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

1294

Sample Name: CCB Run Time: 05/29/01 13:49

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00060	.00350	-.00361	.00107	.00311
Stddev	.00262	.00633	.00017	.00249	.00090
%RSD	439.58	181.02	4.7052	231.55	28.877
#1	-.00245	.00797	-.00373	-.00068	.00375
#2	.00125	-.00098	-.00349	.00283	.00248
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.00177	-.00270	-.00183	-.00032
Stddev	.00058	.00056	.00797	.00314	.00015
%RSD	5281.4	31.548	295.50	171.75	48.333
#1	-.00042	.00217	-.00833	-.00405	-.00021
#2	.00040	.00138	.00294	.00039	-.00043
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Method: CLP5 Sample Name: ICSA Operator:
Comment:
Run Time: 05/29/01 13:54 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	249.47	-.00136	.01111	-.03947	.00040
Stddev	1.93	.00370	.00226	.00267	.00042
%RSD	.77559	272.23	20.376	6.7661	104.55
#1	248.10	-.00398	.00951	-.04136	.00070
#2	250.83	.00126	.01271	-.03759	.00011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.00000	.00000	.00000	.00000
Range	±50.000	±.01600	±.04000	±.20000	±.02000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00019	242.74	.00173	.00366	.00110
Stddev	.00013	1.66	.00049	.00021	.00067
%RSD	70.902	.68526	28.446	5.6084	60.457
#1	-.00009	241.57	.00138	.00381	.00157
#2	-.00028	243.92	.00208	.00352	.00063
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	250.00	.00000	.00000	.00000
Range	±.00100	±50.000	±.00400	±.01000	±.01000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00410	86.390	.12474	.02074	239.15
Stddev	.00093	.095	.01340	.00185	1.22
%RSD	22.669	.11017	10.744	8.9026	.51067
#1	-.00476	86.323	.13422	.01944	238.29
#2	-.00345	86.457	.11526	.02205	240.02
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	100.00	.00000	.00000	250.00
Range	±.01000	±20.000	±1.0000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00184	-.00227	.05748	.00071	-.03734
Stddev	.00005	.00081	.01103	.00023	.00759
%RSD	2.8187	35.608	19.181	32.390	20.326
#1	-.00181	-.00284	.04969	.00088	-.04270
#2	-.00188	-.00170	.06528	.00055	-.03197
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.01000	±.20000	±1.0000	±.04000	±.04000

1296

Sample Name: ICSA Run Time: 05/29/01 13:54

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01525	.02978	.11150	-.00596	Q -.07032
Stddev	.00305	.00013	.00243	.00000	.00408
%RSD	19.997	.44203	2.1801	.00478	5.7951
#1	.01309	.02969	.10978	-.00596	-.06744
#2	.01741	.02987	.11322	-.00596	-.07320
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.00000	.00000	.00000	.00000	.00000
Range	±.04000	±.04000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01305	-.00942	.00217	-.01178	-.00034
Stddev	.01786	.00136	.00883	.00072	.00028
%RSD	136.86	14.443	406.16	6.1423	83.488
#1	.02568	-.01039	.00842	-.01229	-.00054
#2	.00042	-.00846	-.00407	-.01127	-.00014
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000
Range	±.02000	±.06000	±.08000	±.02000	±.02000

Method: CLP5 Sample Name: ICSAB Operator:
Comment:
Run Time: 05/29/01 13:58 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	249.10	.50444	.26026	-.06077	.24852
Stddev	.62	.01230	.00226	.00022	.00018
%RSD	.24730	2.4386	.86914	.35687	.07319
#1	249.54	.51314	.26186	-.06093	.24839
#2	248.66	.49574	.25866	-.06062	.24865
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.00	.50000	.25000	.00000	.25000
Range	±50.000	±.10000	±.05000	±.20000	±.05000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25192	242.77	.49857	.23805	.23785
Stddev	.00096	.75	.00031	.00010	.00092
%RSD	.38039	.31077	.06163	.04301	.38514
#1	.25260	243.30	.49879	.23812	.23850
#2	.25124	242.23	.49836	.23797	.23720
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	250.00	.50000	.25000	.25000
Range	±.05000	±50.000	±.10000	±.05000	±.05000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24495	91.234	2.6073	.01895	238.78
Stddev	.00308	.007	.1003	.00036	.27
%RSD	1.2569	.00812	3.8477	1.8965	.11413
#1	.24712	91.239	2.6783	.01921	238.97
#2	.24277	91.228	2.5364	.01870	238.59
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	100.00	2.5000	.00000	250.00
Range	±.05000	±20.000	±.50000	±.20000	±50.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22571	-.00237	1.2663	.46205	.43703
Stddev	.00007	.00049	.0131	.00032	.00137
%RSD	.03071	20.885	1.0357	.07006	.31236
#1	.22576	-.00202	1.2755	.46182	.43800
#2	.22566	-.00272	1.2570	.46227	.43607
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.25000	.00000	1.2500	.50000	.50000
Range	±.05000	±.20000	±.25000	±.10000	±.10000

1298

Sample Name: ICSAB Run Time: 05/29/01 13:58

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52151	.25597	.00131	-.00350	Q -.04147
Stddev	.00305	.00995	.00193	.00647	.00000
%RSD	.58532	3.8890	146.84	184.73	.00687
#1	.51935	.24893	.00268	-.00808	-.04147
#2	.52366	.26301	-.00005	.00107	-.04147
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.50000	.25000	.00000	.00000	.00000
Range	±.10000	±.05000	±1.0000	±1.0000	±.02000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01305	-.00988	.47279	.23938	.48412
Stddev	.00288	.00076	.00502	.00191	.00003
%RSD	22.064	7.7001	1.0614	.79715	.00715
#1	.01102	-.00934	.46925	.24073	.48415
#2	.01509	-.01042	.47634	.23803	.48410
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.50000	.25000	.50000
Range	±.02000	±.06000	±.10000	±.05000	±.10000

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/29/01 14:03 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	10.358	.40256	.39720	10.267	1.0323
Stddev	.288	.01364	.00135	.084	.0334
%RSD	2.7760	3.3881	.34100	.81902	3.2361
#1	10.561	.41221	.39815	10.207	1.0560
#2	10.154	.39292	.39624	10.326	1.0087
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05061	10.236	.05187	.20820	.50455
Stddev	.00124	.225	.00024	.00065	.00254
%RSD	2.4502	2.1992	.46442	.31222	.50384
#1	.05149	10.395	.05170	.20774	.50275
#2	.04974	10.077	.05204	.20866	.50634
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50621	4.0516	50.439	.98955	10.237
Stddev	.00494	.0184	.126	.01783	.100
%RSD	.97636	.45387	.24972	1.8017	.97475
#1	.50970	4.0386	50.350	1.0022	10.166
#2	.50271	4.0646	50.528	.97695	10.307
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50541	1.0279	51.370	.51150	.51652
Stddev	.00180	.0048	.004	.00309	.00730
%RSD	.35619	.46571	.00841	.60433	1.4130
#1	.50414	1.0245	51.367	.50931	.51136
#2	.50669	1.0312	51.373	.51368	.52168
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1300

Sample Name: CCV Run Time: 05/29/01 14:03

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2264	.40526	5.0204	1.0194	1.0378
Stddev	.0100	.00036	.0320	.0082	.0060
%RSD	.81208	.08890	.63808	.80407	.57726
#1	1.2194	.40551	4.9978	1.0136	1.0336
#2	1.2334	.40500	5.0431	1.0252	1.0420
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0225	1.0227	.52828	1.0240	1.0177
Stddev	.0181	.0195	.00899	.0230	.0057
%RSD	1.7715	1.9089	1.7012	2.2498	.55836
#1	1.0353	1.0365	.52193	1.0403	1.0137
#2	1.0097	1.0089	.53464	1.0077	1.0217
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1301

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/29/01 14:08 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.04703	.00004	-.00098	.01068	.00006
Stddev	.01651	.00435	.00181	.00310	.00002
%RSD	35.096	9992.1	185.08	29.064	36.037
#1	-.03536	.00312	.00030	.01288	.00007
#2	-.05870	-.00303	-.00225	.00849	.00004
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	-.00644	.00057	-.00017	-.00073
Stddev	.00007	.00913	.00003	.00022	.00059
%RSD	56.910	141.88	4.9822	132.58	81.189
#1	-.00016	.00002	.00059	-.00001	-.00115
#2	-.00007	-.01289	.00055	-.00032	-.00031
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00555	-.00889	.00910	-.00084	-.02183
Stddev	.00182	.01387	.02146	.00044	.03218
%RSD	32.830	156.09	235.89	52.842	147.40
#1	-.00684	-.01869	-.00608	-.00053	-.04459
#2	-.00426	.00092	.02427	-.00115	.00092
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.00002	.00362	-.00096	-.00415
Stddev	.00001	.00018	.01004	.00125	.00009
%RSD	84.858	973.38	277.75	130.17	2.0706
#1	-.00001	-.00011	.01072	-.00008	-.00421
#2	-.00002	.00014	-.00349	-.00184	-.00409
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

1302

Sample Name: CCB Run Time: 05/29/01 14:08

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00614	.00467	-.00235	.00055	.00184
Stddev	.00872	.00266	.00177	.00324	.00232
%RSD	142.09	57.021	75.435	591.09	125.93
#1	.00003	.00655	-.00109	-.00174	.00348
#2	-.01230	.00278	-.00360	.00284	.00020
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00204	.00019	.00044	-.00117	-.00018
Stddev	.00232	.00014	.00164	.00311	.00055
%RSD	113.73	73.823	374.48	265.76	304.96
#1	-.00040	.00029	.00160	.00103	-.00057
#2	-.00368	.00009	-.00072	-.00337	.00021
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

Method: CLP5 Sample Name: PBS 8N WG98060-03 Operator: SLP
Comment:
Run Time: 05/29/01 14:13 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-3.5293	-.08478	-.30441	.19080	.02381
Stddev	5.0070	.15528	.18079	.04048	.01882
%RSD	141.87	183.16	59.391	21.216	79.049
#1	-7.0698	.02502	-.43225	.21942	.01050
#2	.01112	-.19458	-.17657	.16217	.03712
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	5.0000	.50000	1.0000	5.0000	.50000
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00348	3.1469	-.00490	-.00665	.01931
Stddev	.00662	.9569	.00588	.00737	.00805
%RSD	190.44	30.409	120.03	110.79	41.692
#1	.00120	3.8235	-.00906	-.00144	.02501
#2	-.00816	2.4702	-.00074	-.01186	.01362
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02500	10.000	.10000	.25000	.25000
Low Limit	-.02500	-10.000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.10318	-.02685	-2.0780	-.06306	6.8471
Stddev	.18587	.46293	2.1528	.02093	3.2011
%RSD	180.14	1724.1	103.60	33.182	46.751
#1	.02825	-.35419	-.55577	-.04827	9.1106
#2	-.23461	.30049	-3.6003	-.07786	4.5835
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.25000	2.0000	25.000	5.0000	25.000
Low Limit	-.25000	-2.0000	-25.000	-5.0000	-25.000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01297	.01682	2.5518	.00166	-.14278
Stddev	.00297	.00003	1.2303	.01962	.02573
%RSD	22.864	.18463	48.213	1179.7	18.021
#1	.01507	.01684	1.6819	-.01221	-.12459
#2	.01087	.01679	3.4217	.01554	-.16098
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	5.0000	25.000	1.0000	1.0000
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1304

Sample Name: PBS 8N WG98060-03 Run Time: 05/29/01 14:13

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21616	.33927	1.2345	.01855	.04807
Stddev	.00003	.08286	.0718	.02482	.05392
%RSD	.01243	24.423	5.8200	133.80	112.16
#1	.21618	.39786	1.2853	.00100	.00995
#2	.21615	.28068	1.1837	.03611	.08620
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1.0000	1.0000	50.000	25.000	.50000
Low Limit	-1.0000	-1.0000	-50.000	-25.000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22377	.01925	-.16757	-.03155	.08192
Stddev	.23072	.02109	.06530	.12073	.00824
%RSD	103.11	109.59	38.967	382.64	10.058
#1	.06063	.00433	-.12140	.05382	.07610
#2	.38692	.03416	-.21374	-.11692	.08775
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.50000	1.5000	2.0000	.50000	1.0000
Low Limit	-.50000	-1.5000	-2.0000	-.50000	-1.0000

1305

Method: CLP5 Sample Name: LCSS 8N WG98060-04 Operator: SLP
Comment:
Run Time: 05/29/01 14:18 Type: Unk Mode: CONC Corr.Fact: 50.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	475.23	9.7029	46.886	48.112	475.00
Stddev	1.65	.0950	.203	.326	4.55
%RSD	.34821	.97943	.43308	.67819	.95692
#1	476.40	9.7701	47.030	47.881	478.21
#2	474.06	9.6357	46.743	48.343	471.79
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	600.00	12.000	60.000	60.000	600.00
Low Limit	400.00	8.0000	40.000	40.000	400.00

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.307	477.88	47.539	47.372	47.518
Stddev	.452	6.47	.238	.124	.089
%RSD	.95480	1.3543	.49991	.26104	.18741
#1	47.626	482.46	47.371	47.285	47.455
#2	46.987	473.30	47.707	47.459	47.581
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	600.00	60.000	60.000	60.000
Low Limit	40.000	400.00	40.000	40.000	40.000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.244	52.718	2293.6	501.00	483.77
Stddev	.033	.013	34.3	3.76	4.81
%RSD	.06890	.02372	1.4974	.75039	.99438
#1	47.267	52.709	2317.9	503.66	487.17
#2	47.221	52.727	2269.3	498.34	480.37
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	3000.0	600.00	600.00
Low Limit	40.000	40.000	2000.0	400.00	400.00

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.281	47.742	2375.3	46.707	47.912
Stddev	.008	.283	41.4	.109	.231
%RSD	.01763	.59276	1.7429	.23365	.48280
#1	47.287	47.542	2404.6	46.629	47.749
#2	47.275	47.942	2346.1	46.784	48.076
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	3000.0	60.000	60.000
Low Limit	40.000	40.000	2000.0	40.000	40.000

1306

Sample Name: LCSS 8N WG98060-04 Run Time: 05/29/01 14:18

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.401	45.033	454.50	46.155	48.554
Stddev	.217	.066	2.27	.274	.443
%RSD	.45822	.14610	.49848	.59305	.91253
#1	47.247	44.986	452.89	45.961	48.241
#2	47.555	45.079	456.10	46.348	48.867
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	600.00	60.000	60.000
Low Limit	40.000	40.000	400.00	40.000	40.000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.999	46.303	47.660	47.894	47.165
Stddev	.201	.377	.310	.312	.162
%RSD	.41870	.81344	.64957	.65246	.34412
#1	48.141	46.569	47.441	48.115	47.050
#2	47.857	46.036	47.879	47.673	47.280
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	60.000	60.000	60.000	60.000	60.000
Low Limit	40.000	40.000	40.000	40.000	40.000

Method: CLP5 Sample Name: 0552602 WG98060-02 Operator: SLP
Comment:
Run Time: 05/29/01 14:23 Type: Unk Mode: CONC Corr.Fact: 49.504951

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	1288.3	-.19587	.10315	.12683	1.1667
Stddev	11.0	.00127	.06721	.11794	.0162
%RSD	.85442	.64660	65.154	92.985	1.3857
#1	1296.1	-.19497	.05563	.21023	1.1782
#2	1280.5	-.19676	.15067	.04344	1.1553
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00814	66.429	.00926	.09237	1.2849
Stddev	.00328	.239	.01388	.00554	.0419
%RSD	40.272	.35968	149.79	5.9935	3.2635
#1	.00582	66.598	.01908	.09628	1.2553
#2	.01046	66.260	-.00055	.08845	1.3146
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.41747	179.07	17.839	.66500	32.643
Stddev	.22782	.54	1.797	.01577	1.598
%RSD	54.571	.30193	10.075	2.3712	4.8954
#1	-.57857	179.45	19.110	.67615	31.513
#2	-.25638	178.69	16.568	.65385	33.773
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2519	.06253	3.4566	.64306	.85132
Stddev	.0027	.01560	.8626	.04445	.05706
%RSD	.21837	24.949	24.954	6.9117	6.7026
#1	1.2539	.07356	2.8467	.67449	.89167
#2	1.2500	.05150	4.0666	.61163	.81097
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1308

Sample Name: 0552602 WG98060-02 Run Time: 05/29/01 14:23

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07396	.34909	440.80	.13164	.80773
Stddev	.08558	.08311	1.50	.16025	.00909
%RSD	115.71	23.808	.34100	121.73	1.1255
#1	.01345	.40786	441.86	.01832	.81416
#2	.13448	.29032	439.74	.24495	.80131
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.78700	47.046	.00320	1.0094	.37368
Stddev	.28548	.207	.26265	.1312	.00586
%RSD	36.275	.43903	8199.1	12.998	1.5673
#1	.98887	47.192	-.18252	1.1022	.36954
#2	.58513	46.900	.18893	.91663	.37782
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1309

Method: CLP5 Sample Name: 0552602DP WG98060-07 Operator: SLP
Comment:
Run Time: 05/29/01 14:28 Type: Unk Mode: CONC Corr.Fact: 45.454544

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	965.49	-.20669	.10788	.02566	.94185
Stddev	2.71	.25051	.04108	.01285	.01657
%RSD	.28117	121.20	38.083	50.067	1.7593
#1	967.41	-.38382	.13692	.01658	.95357
#2	963.57	-.02956	.07883	.03475	.93013
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00694	60.977	.01724	.02929	1.0840
Stddev	.00074	.406	.01105	.03512	.0083
%RSD	10.733	.66561	64.098	119.92	.76641
#1	.00641	61.264	.02506	.00445	1.0781
#2	.00747	60.690	.00943	.05412	1.0898
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.24763	134.32	11.492	.47025	31.002
Stddev	.22547	.79	1.778	.05302	5.861
%RSD	91.052	.58888	15.472	11.274	18.906
#1	-.08820	134.88	10.234	.50773	35.146
#2	-.40707	133.76	12.749	.43276	26.857
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3738	.05733	5.8734	.48198	.66674
Stddev	.0032	.02251	.3417	.00886	.13898
%RSD	.23137	39.267	5.8171	1.8381	20.844
#1	1.3761	.07325	5.6318	.47572	.76501
#2	1.3716	.04141	6.1150	.48825	.56847
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1310

Sample Name: 0552602DP WG98060-07 Run Time: 05/29/01 14:28

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36363	.21287	380.49	.22482	.51077
Stddev	.05960	.04575	1.18	.11320	.03699
%RSD	16.392	21.490	.31096	50.354	7.2429
#1	.40577	.24522	381.32	.14477	.53693
#2	.32148	.18053	379.65	.30487	.48461
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16678	55.994	-.17658	.60029	.47371
Stddev	.10439	.223	.27807	.18807	.00359
%RSD	62.592	.39749	157.47	31.330	.75743
#1	.24059	56.151	.02004	.73328	.47117
#2	.09296	55.837	-.37320	.46731	.47624
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

1311

Method: CLP5 Sample Name: 0552601 WG98060-01 Operator: SLP
Comment:
Run Time: 05/29/01 14:33 Type: Unk Mode: CONC Corr.Fact: 48.543690

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	654.70	.06819	-.02638	.18631	.81066
Stddev	.85	.14859	.15365	.20874	.01262
%RSD	.13000	217.92	582.47	112.04	1.5573
#1	655.30	.17326	-.13503	.03871	.81958
#2	654.10	-.03688	.08227	.33391	.80173
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00287	146.76	.01320	.01210	1.3850
Stddev	.00723	.33	.01676	.00295	.0045
%RSD	251.73	.22557	126.98	24.393	.32630
#1	-.00224	147.00	.02505	.01001	1.3818
#2	.00798	146.53	.00135	.01418	1.3881
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.34938	87.327	7.2391	.18819	17.679
Stddev	.01475	.248	2.0280	.02344	3.126
%RSD	4.2229	.28346	28.015	12.453	17.684
#1	-.33895	87.502	5.8051	.20476	15.469
#2	-.35981	87.152	8.6731	.17162	19.890
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8390	.01490	1.8961	.39981	.77993
Stddev	.0000	.08073	.1128	.00388	.17356
%RSD	.00154	541.97	5.9478	.97034	22.254
#1	1.8390	-.04219	1.8164	.40256	.90266
#2	1.8390	.07198	1.9758	.39707	.65720
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1312

Sample Name: 0552601 WG98060-01 Run Time: 05/29/01 14:33

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.04444	.09648	283.87	.12904	.47752
Stddev	.33827	.08049	1.39	.08454	.06101
%RSD	761.20	83.433	.48865	65.516	12.777
#1	-.28364	.03956	284.85	.18882	.52066
#2	.19476	.15339	282.88	.06926	.43438
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21743	76.715	-.05092	.42602	.20956
Stddev	.27999	.551	.03093	.08183	.00392
%RSD	128.77	.71850	60.741	19.208	1.8692
#1	.01945	77.104	-.02905	.36816	.21233
#2	.41541	76.325	-.07279	.48388	.20679
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0552601S WG98060-05 Operator: SLP
Comment:
Run Time: 05/29/01 14:38 Type: Unk Mode: CONC Corr.Fact: 51.020409

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	1292.2	9.4898	43.020	46.648	475.89
Stddev	4.3	.1554	.346	.075	1.22
%RSD	.32932	1.6373	.80453	.16135	.25648
#1	1289.2	9.5997	42.776	46.701	475.03
#2	1295.2	9.3799	43.265	46.595	476.75
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.239	626.11	46.619	47.224	49.518
Stddev	.121	.56	.069	.037	.025
%RSD	.24581	.08874	.14847	.07748	.05099
#1	49.153	625.72	46.668	47.199	49.536
#2	49.325	626.50	46.570	47.250	49.500
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.698	153.40	2358.3	520.17	509.46
Stddev	.426	.20	2.0	1.82	14.76
%RSD	.89387	.13183	.08428	.35076	2.8963
#1	47.396	153.25	2356.9	518.88	499.03
#2	47.999	153.54	2359.7	521.46	519.89
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	50.265	45.860	2344.7	47.280	48.572
Stddev	.001	.050	3.3	.057	.160
%RSD	.00125	.10918	.14010	.12051	.32846
#1	50.265	45.895	2347.0	47.320	48.685
#2	50.265	45.825	2342.4	47.239	48.459
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0552601S WG98060-05 Run Time: 05/29/01 14:38

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	44.549	44.077	462.58	45.822	46.516
Stddev	.177	.254	.86	.026	.013
%RSD	.39767	.57642	.18554	.05614	.02873
#1	44.674	44.257	463.18	45.803	46.525
#2	44.424	43.897	461.97	45.840	46.506
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	48.601	94.086	47.824	49.398	47.381
Stddev	.441	.375	.021	.185	.005
%RSD	.90805	.39825	.04378	.37417	.00955
#1	48.289	93.822	47.809	49.267	47.384
#2	48.913	94.351	47.838	49.529	47.378
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0552601SD WG98060-06 Operator: SLP
Comment:
Run Time: 05/29/01 14:42 Type: Unk Mode: CONC Corr.Fact: 52.631580

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	1441.6	9.2745	42.813	45.658	477.41
Stddev	.0	.1619	.666	.133	3.09
%RSD	.00113	1.7456	1.5563	.29118	.64777
#1	1441.6	9.1601	43.284	45.752	475.23
#2	1441.6	9.3890	42.342	45.564	479.60
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	50.371	654.59	46.187	47.145	50.180
Stddev	.112	.83	.148	.213	.101
%RSD	.22218	.12606	.32152	.45083	.20143
#1	50.450	655.18	46.292	47.295	50.252
#2	50.292	654.01	46.082	46.994	50.109
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	47.542	168.20	2381.7	530.51	508.71
Stddev	.535	.67	14.4	.44	1.73
%RSD	1.1263	.39783	.60666	.08222	.34000
#1	47.164	168.67	2371.4	530.20	509.93
#2	47.921	167.72	2391.9	530.82	507.48
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	51.202	45.748	2325.8	47.566	48.140
Stddev	.087	.220	3.9	.168	.202
%RSD	.17034	.48061	.16640	.35310	.41998
#1	51.140	45.903	2328.5	47.448	48.283
#2	51.263	45.593	2323.0	47.685	47.998
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1316

Sample Name: 0552601SD WG98060-06 Run Time: 05/29/01 14:42

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	44.677	43.858	538.93	45.769	45.173
Stddev	.022	.282	2.40	.367	.382
%RSD	.04895	.64214	.44618	.80109	.84481
#1	44.693	44.057	540.63	46.028	45.442
#2	44.662	43.659	537.22	45.509	44.903
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	50.158	93.459	47.581	49.805	47.359
Stddev	.182	.056	.083	.012	.173
%RSD	.36200	.05995	.17454	.02348	.36531
#1	50.286	93.420	47.640	49.813	47.482
#2	50.030	93.499	47.522	49.797	47.237
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0552603 Operator: SLP
Comment:
Run Time: 05/29/01 14:47 Type: Unk Mode: CONC Corr.Fact: 52.083336

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	1755.1	-.32909	.14246	.18857	2.0183
Stddev	1.8	.16367	.02354	.09653	.0417
%RSD	.10265	49.734	16.521	51.190	2.0682
#1	1756.3	-.21336	.12581	.12032	2.0478
#2	1753.8	-.44483	.15910	.25683	1.9888
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01099	203.98	.00656	.09701	2.0872
Stddev	.00345	.70	.00636	.04217	.0117
%RSD	31.357	.34383	96.964	43.476	.56116
#1	.01343	204.48	.01106	.06719	2.0789
#2	.00855	203.48	.00206	.12683	2.0955
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.15145	178.74	24.243	.86976	50.860
Stddev	.21100	.02	.770	.05522	8.354
%RSD	139.31	.01283	3.1777	6.3494	16.425
#1	-.00226	178.76	23.698	.90880	44.953
#2	-.30065	178.73	24.788	.83071	56.767
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.1693	.07730	7.3694	.66626	1.2979
Stddev	.0020	.01881	.1092	.04067	.2133
%RSD	.09100	24.332	1.4823	6.1043	16.436
#1	2.1679	.09060	7.2921	.63750	1.1470
#2	2.1707	.06400	7.4466	.69502	1.4487
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

Sample Name: 0552603 Run Time: 05/29/01 14:47

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10374	.28615	601.66	.11098	1.3956
Stddev	.13643	.29489	3.90	.00002	.1073
%RSD	131.51	103.05	.64808	.01672	7.6893
#1	.20022	.49466	598.90	.11099	1.4715
#2	.00727	.07763	604.42	.11096	1.3198
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4225	73.284	-.24698	.79302	.50917
Stddev	.4202	.003	.02616	.33932	.01272
%RSD	29.540	.00467	10.594	42.789	2.4979
#1	1.7196	73.287	-.26548	1.0330	.51817
#2	1.1254	73.282	-.22848	.55308	.50018
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0552603SDL.2 Operator: SLP
Comment:
Run Time: 05/29/01 14:52 Type: Unk Mode: CONC Corr.Fact: 260.416687

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	1745.9	L -.58240	-.32693	-.02053	2.2390
Stddev	11.0	.63878	.58860	.73219	.0365
%RSD	.62825	109.68	180.04	3565.9	1.6322
#1	1738.1	-.13071	.08927	.49721	2.2649
#2	1753.6	-1.0341	-.74313	-.53827	2.2132
Check ?	LC Pass	LC Fail	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01542	213.16	.05900	.00406	2.0791
Stddev	.01293	2.15	.20191	.11977	.0716
%RSD	83.846	1.0109	342.20	2949.5	3.4447
#1	.02456	214.68	-.08377	.08875	2.0285
#2	.00628	211.63	.20177	-.08063	2.1298
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	L -1.6199	183.95	10.957	.45555	23.900
Stddev	3.5367	2.85	2.009	.06670	.026
%RSD	218.33	1.5496	18.340	14.642	.11017
#1	-4.1208	181.93	12.378	.50272	23.919
#2	.88093	185.97	9.5358	.40839	23.882
Check ?	LC Fail	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.9199	-.11938	10.525	.70182	1.2300
Stddev	.0043	.01180	8.063	.32552	.2037
%RSD	.14711	9.8874	76.612	46.382	16.564
#1	2.9229	-.12773	4.8234	.47165	1.3740
#2	2.9168	-.11104	16.227	.93200	1.0859
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1320

Sample Name: 0552603SDL.2 Run Time: 05/29/01 14:52

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.34337	1.4937	643.29	-.45336	1.3314
Stddev	.00070	1.2153	3.70	.00045	.5115
%RSD	.20387	81.358	.57487	.10025	38.415
#1	-.34387	.63440	645.91	-.45304	1.6931
#2	-.34288	2.3530	640.68	-.45368	.96978
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.5021	78.323	-.69289	L -.51796	1.3643
Stddev	.0002	.698	.81189	.37951	.0475
%RSD	.00531	.89063	117.18	73.269	3.4794
#1	3.5022	77.830	-.11879	-.78631	1.3308
#2	3.5019	78.817	-1.2670	-.24961	1.3979
Check ?	LC Pass	LC Pass	LC Pass	LC Fail	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: 0552603PS.9 Operator: SLP
Comment:
Run Time: 05/29/01 14:57 Type: Unk Mode: CONC Corr.Fact: 52.083336

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	2126.2	9.8266	47.968	47.963	501.42
Stddev	10.0	.7433	.141	.259	2.11
%RSD	.47062	7.5639	.29432	.54022	.42032
#1	2133.3	9.3010	48.068	48.146	502.91
#2	2119.2	10.352	47.868	47.780	499.93
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	50000.	500.00	5000.0	5000.0	1000.0
Low Limit	-5.0000	-.50000	-1.0000	-5.0000	-.50000

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	51.160	685.84	48.368	48.649	51.920
Stddev	.068	1.47	.159	.043	.078
%RSD	.13230	.21475	.32804	.08794	.15052
#1	51.113	686.88	48.480	48.679	51.976
#2	51.208	684.79	48.256	48.619	51.865
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	250.00	50000.	1500.0	5000.0	5000.0
Low Limit	-.02500	-5.0000	-.10000	-.25000	-.25000

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	49.157	219.29	2469.0	544.64	545.17
Stddev	.061	.51	10.1	.58	3.33
%RSD	.12401	.23058	.41039	.10652	.61115
#1	49.200	219.65	2461.8	545.05	542.82
#2	49.114	218.94	2476.1	544.23	547.53
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	50000.	20000.	750.00	50000.
Low Limit	-1.0000	-1.0000	-25.000	-5.0000	-5.0000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	52.340	48.541	2431.4	49.217	49.746
Stddev	.089	.038	3.8	.084	.149
%RSD	.16931	.07775	.15680	.17072	.29997
#1	52.403	48.514	2428.8	49.276	49.641
#2	52.277	48.568	2434.1	49.157	49.852
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1500.0	20000.	5000.0	10000.
Low Limit	-.50000	-5.0000	-25.000	-1.0000	-1.0000

1323

Sample Name: 0552603PS.9 Run Time: 05/29/01 14:57

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	50.262	45.902	1063.2	.12004	48.178
Stddev	.475	.243	5.2	.06481	.298
%RSD	.94459	.53021	.48820	53.988	.61952
#1	50.597	46.074	1066.9	.07421	48.389
#2	49.926	45.730	1059.6	.16586	47.967
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	2500.0	1000.0	2500.0	1500.0	1500.0
Low Limit	-1.0000	-1.0000	-50.000	-5.0000	-.50000

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	52.182	118.25	48.978	51.346	48.922
Stddev	.480	.57	.223	.552	.078
%RSD	.92060	.48383	.45536	1.0757	.15975
#1	52.522	118.65	48.820	50.956	48.978
#2	51.842	117.85	49.135	51.737	48.867
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	1500.0	1500.0	1000.0	5000.0	2000.0
Low Limit	-.50000	-.50000	-2.0000	-.50000	-.50000

Method: CLP5 Sample Name: CCV Operator:
Comment:
Run Time: 05/29/01 15:02 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	9.9074	.38654	.36611	9.2876	.98346
Stddev	.2346	.00364	.00182	.1084	.00453
%RSD	2.3674	.94204	.49757	1.1674	.46056
#1	9.7416	.38912	.36482	9.2109	.98025
#2	10.073	.38397	.36740	9.3643	.98666
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.000	.40000	.40000	10.000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05017	9.9210	.04822	.19487	.48347
Stddev	.00017	.0238	.00081	.00087	.00302
%RSD	.34412	.24004	1.6736	.44668	.62420
#1	.05005	9.9041	.04765	.19426	.48134
#2	.05030	9.9378	.04879	.19549	.48560
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.05000	10.000	.05000	.20000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48176	3.8672	49.029	.98450	10.053
Stddev	.00271	.0280	.121	.00220	.030
%RSD	.56152	.72382	.24600	.22320	.30044
#1	.48367	3.8474	49.114	.98295	10.074
#2	.47985	3.8870	48.944	.98606	10.031
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	4.0000	50.000	1.0000	10.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48994	.96225	47.468	.48804	.47464
Stddev	.00286	.01218	.141	.00300	.00344
%RSD	.58388	1.2655	.29625	.61530	.72423
#1	.48792	.95364	47.369	.48592	.47221
#2	.49196	.97086	47.567	.49017	.47707
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	1.0000	50.000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1324

Sample Name: CCV Run Time: 05/29/01 15:02

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1427	.37520	4.6358	.93224	.91534
Stddev	.0126	.00166	.0467	.00946	.01595
%RSD	1.1045	.44116	1.0080	1.0144	1.7421
#1	1.1337	.37403	4.6028	.92556	.90407
#2	1.1516	.37637	4.6689	.93893	.92662
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.2000	.40000	5.0000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.98547	.97049	.49222	.98696	.95905
Stddev	.00187	.00391	.00323	.00032	.00714
%RSD	.18954	.40333	.65650	.03256	.74467
#1	.98415	.96772	.48993	.98718	.95400
#2	.98679	.97326	.49450	.98673	.96410
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	.50000	1.0000	1.0000
Range	10.000%	10.000%	10.000%	10.000%	10.000%

1325

Method: CLP5 Sample Name: CCB Operator:
Comment:
Run Time: 05/29/01 15:07 Type: Blank Mode: CONC Corr.Fact: 1.000000

Elem	Al3082	Ag3280	As1890	B_2496	Ba4554
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00588	-.00036	.00318	.00507	-.00021
Stddev	.00822	.00245	.00136	.00052	.00101
%RSD	139.66	676.97	42.676	10.229	483.65
#1	-.01169	.00137	.00222	.00471	-.00092
#2	-.00007	-.00210	.00414	.00544	.00050
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.05000	.00500	.01000	.05000	.00250
Low Limit	-.05000	-.00500	-.01000	-.05000	-.00250

Elem	Be3130	Ca3736	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00000	-.01879	-.00011	.00011	-.00029
Stddev	.00000	.00829	.00037	.00009	.00048
%RSD	17.000	44.127	333.33	80.746	164.40
#1	.00000	-.02466	-.00037	.00018	-.00063
#2	.00000	-.01293	.00015	.00005	.00005
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00025	.05000	.00100	.00250	.00250
Low Limit	-.00025	-.05000	-.00100	-.00250	-.00250

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2779
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00291	-.00384	-.03321	-.00002	.06917
Stddev	.00061	.00209	.02415	.00026	.16064
%RSD	20.773	54.508	72.710	1093.8	232.24
#1	-.00249	-.00236	-.01613	.00016	.18276
#2	-.00334	-.00532	-.05028	-.00021	-.04442
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.01000	.02000	.25000	.05000	.10000
Low Limit	-.01000	-.02000	-.25000	-.05000	-.10000

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	-.00024	.01442	-.00035	-.00267
Stddev	.00005	.00045	.00690	.00062	.00428
%RSD	278.94	191.06	47.880	176.22	160.40
#1	-.00002	.00008	.00954	-.00080	-.00569
#2	.00006	-.00055	.01930	.00009	.00036
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00250	.05000	.10000	.01000	.01000
Low Limit	-.00250	-.05000	-.10000	-.01000	-.01000

1326

Sample Name: CCB Run Time: 05/29/01 15:07

Elem	Sb2068	Se1960	Si2516	Sn1899	Sr2152
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00402	.00467	-.00438	.00072	.00089
Stddev	.00218	.00466	.00161	.00050	.00152
%RSD	54.187	99.846	36.629	68.615	170.03
#1	.00556	.00137	-.00325	.00108	-.00018
#2	.00248	.00797	-.00552	.00037	.00197
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.02000	.01000	.25000	.20000	.00500
Low Limit	-.02000	-.01000	-.25000	-.20000	-.00500

Elem	Sr3464	Ti3349	Tl1908	V_3102	Zn2138
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00041	.00242	-.00040	.00172	.00003
Stddev	.01036	.00133	.00220	.00093	.00005
%RSD	2509.1	55.211	552.49	54.163	164.11
#1	.00774	.00147	.00115	.00106	.00006
#2	-.00691	.00336	-.00195	.00238	.00000
Check ?	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High Limit	.00500	.01500	.02000	.00728	.01000
Low Limit	-.00500	-.01500	-.02000	-.00728	-.01000

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2.3.1.3 Preparation Log (s)

Metals Digestion Log

Analyst(s): SJK
Date: 05-24-01 @ 821
LCS: 10ml DS50033-40/100ml DUS-1-5-46
MS/MSD: 10ml DS50033-40/100ml DUS-1-5-46
Witness: VC
HNO_3 Lot #: N-17
HCl Lot #: H-14
H_2O_2 Lot #: N/A
Earliest Sample Due Date: 05/29/01

Box: Y

Digestion Work Group: WG 98149
Analytical Work Group: WG

General Digestion
ME401 Revision # 7 - Method 3005A-Water [X]
ME403 Revision # ____ - Method 3050B-Soil [ ]

Furnace Digestion
ME402 Revision # ____ - Method 3020A-Water [ ]
ME403 Revision # ____ - Method 3050B-Soil [ ]

AS/SE Digestion
ME410 Revision # ____ - Method 7060/7740-Water [ ]

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	PBW	100ml	100ml	WG98149-03	
2	LCSW			-04	
3	05-360-01			NPDES	5/29
4	05-364-01			-01	5/29
5	-01MS			-05	
6	-01MSD			-06	
7	-02			-02	
8	-02DUP			-07	
9	-03				
10	-04				
11	-05				
12	-06				
13	-07				
14	-08				
15	-09				
16	-10				
17	05-467-04				5/31
18	-05				
19	05-484-01				
20	-02				5/30
21	05-486-02				
22	-03				5/29
23	05-525-01			LH	
24	05-526-04			LH	5/30
25	05-529-03			NPDES	5/30
26					5/30
27			05-24-01 gk		
28					

Comments: ____________________

Peer Review By: Vicky Collins 5/24/01

Supervisor Review: ____________________

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Metals Digestion Log

Analyst(s): PD
Date: 03.23.01 @1630
LCS: 5mL DSS 33-40
MS/MSD: 5mL DSS 33-40
Witness: JJK
HNO_3 Lot #: N-17/DIY-43
HCl Lot #: H-14
H_2O_2 Lot #: P0.05
Earliest Sample Due Date: 03.23.01

Box: SN

Digestion Work Group: WG 98060
Analytical Work Group: WG

General Digestion
ME401 Revision # ____ - Method 3005A-Water [ ]
ME403 Revision # 7 - Method 3050B-Soil [X]

Furnace Digestion
ME402 Revision # ____ - Method 3020A-Water [ ]
ME403 Revision # ____ - Method 3050B-Soil [ ]

AS/SE Digestion
ME410 Revision # ____ - Method 7060/7740-Water [ ]

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	PBS		50mL	WG 98060 -03	
2	LCSS	1.00g		-04	
3	03.326.01	1.03g		level 4 -01	03.30.01
4	-01MS	0.98		-05	
5	-01MSD	0.95		-06 ~~-07~~ PD 032301	
6	-02	1.01		-02	
7	-02DUP	1.10		-07	
8	-03	0.96			
9	03.31.01	0.93			03.23.01
10	-02	0.93			
11	-03	0.78			
12	-04	0.50			
13					
14					
15					
16					
17					
18					
19					
20					
21			PD 03.23.01		
22					
23					
24					
25					
26					
27					
28					

Comments: _____

Peer Review By: S.K. 03.23.01 Supervisor Review: _____

Microwave Digestion Log

Analyst(s): HD
Date: 05.24.01 @ 1700
LCS: 0.5mL MS 1.8.6
MS/MSD: 0.5mL MS 1.8.6
Witness: HD
Earliest Sample Due Date: 05.23.01 ~~05.23.01~~ 05.24.01

Box: 6P
HNO_3 Lot #: N-17
HCl Lot #: _____

Digestion Work Group: WG 98172
Analytical Work Group: WG

ME407 - Method 3015-Water
ME406 - Method 3051-Soil-Oil

5

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBLW	40mL	50mL	271.06g	271.03g	WG 98172 -03	
2	LCSW			267.37	267.34g	-04	
3	~~05~~ 05.08.01 SPLP BLK 5/23			263.69	263.62g		
4	05.360-01			261.54	261.49g	level 4 AFCEE -02	05.25.01
5	-01 DUP			262.79	262.77	-07	
6	-02			263.56	263.50		
7	-03			264.27	264.21		
8	-04			263.13	263.08	-01	
9	-05MS			262.42	262.33	-05	
10	-06MSD			261.62	261.56	-06	
11	-07			265.23	265.14		
12	-08			263.28	263.21		
13	-09			264.33	264.27		
14	-10			257.89	257.79		
15	-11			265.33	265.48		
16	05.525-01			260.83	260.80	level 4	05.30.01
17	05.526-04			261.90	261.83	level 4	05.30.01
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

HD 05.24.01

Comments: _____

Peer Review By: D. Kinney 05/24/01 Supervisor Review: _____

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Microwave Digestion Log

Analyst(s): VC
Date: 5/24/01 07:50
LCS: 0.5mL MS-1-8.6
MS/MSD: 0.5mL MS-1-8.6
Witness: MEAS
Earliest Sample Due Date: 5/30/01

Box: 46
HNO_3 Lot #: N.17
HCl Lot #: —

Digestion Work Group: WG 98121

Analytical Work Group: WG

ME407 - Method 3015-Water
ME406 - Method 3051-Soil-Oil

5

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBS		50 mL	239.28 gm	239.23 gm	-03	
2	LCSS	0.50 gm		233.05	233.03	-04	
3	05 526-01 #	0.49		232.35	232.32	WG 98121-02	5/30
4	01 dup	0.50		230.67	230.66	-07	
5	02	0.49		235.22	235.21	WG 98121-01	
6	02 MS	0.49		232.35	232.34	-05	
7	02 MSD	0.52		235.16	235.13	-06	
8	03	0.50		235.25	235.22		
9							
10							
11							
12							
13							
14							
15							
16			VC				
17			5/24/01				
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Comments: # level 4

Peer Review By: S Kinney 05-24-01 Supervisor Review: _____

2.3.1.4 Sample Calculations

Example 6010 Calculations
Perkin Elmer Optima 3000 (PE-ICP)

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

The equation is in the form of I = mC + b,

Where: I = Mean emission intensity at the element's measured wavelength.
C = Concentration of the element in mg/L
m = Slope of the ICAL curve computed by system
b = Intercept of the ICAL curve computed by system

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

C = [(I - b) / (m)]] [(Qs) / (Vp)] [D]

Where:		Example:
I =	Mean adjusted intensity at the element's measured wavelength.	307088.8
b =	Intercept of the ICAL curve computed by system	373.4
m =	Slope of the ICAL curve computed by system	780569.9
Qs =	Sample quantity digested (defaults to 1)_	1
Vp =	Prep volume (defaults to 1)	1
D =	Dilution factor as a multplier (10X = 10)	1
C =	Concentration of element in ppm (mg/L):	**0.39293778**

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

C = [(I - b) / m]] [(Vp) / (Qs)] [D]

Where:		Example:
I =	Mean emission intensity at the element's measured wavelength.	307088.8
b =	Intercept of the ICAL curve computed by system	373.4
m =	Slope of the ICAL curve computed by system	780569.9
Qs =	Sample quantity digested (g)	2
Vp =	Prep volume (mL)	100
D =	Dilution factor as a multplier (10X = 10)	1
C =	Concentration of element in ppm (mg/kg):	**19.6468888**

5.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:			
Cx =	Concentration calculated as received (wet basis):		19.646889
Px =	Percent solids of sample (%wt)		80
		C(mg/kg)	**24.5586113**

Example 6010 Calculations
TJA - Iris

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data,	1
= Final volume/ initial volume	
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/L):	**0.1**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: this calculation is performed automatically by the data system when correction factors have been entered):

Cx = (Cs) (Fc) (D)

	Example:
Where:	
Cs = Concentration computed by the data system (mg/L)(ppm)	0.1
Fc = Correction factor for the preparation data,	50
= Final volume(mL)/ initial weight (g)	
D = Dilution factor as a multplier (10X = 10)	1
Cx = Concentration of element in ppm (mg/kg):	**5**

4.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:		
Cx = Concentration calculated as received (wet basis):		125
Px = Percent solids of sample (%wt)		80
	C(mg/kg)	156.25

Example 6020 Calculations
Perkin Elmer ELAN ICP/MS

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Vi)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = [\,Cs\,]\ [(Vf / Ws)]\ [D]$$

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

$$Cdry = [(Cx)(100)] / Px$$

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.3.3 Metals CVAA (Mercury) Data

METALS - CVAA (MERCURY) DATA
Login Number: L0105526

A. QC Summary

✓ Batch QC Summary Form

B. Raw Data

✓ Analyst checksheet

___ Analysis run log

✓ Instrument data: (actual order may vary)

- Initial and continuing calibration standards
- Initial and continuing calibration blanks
- Preparation blank data
- Laboratory control sample
- Sample data
- Matrix spike
- Matrix spike duplicate
- Duplicate
- Post digestion spike (if applicable)
- Serial dilution (as needed)
- Standard additions results (as needed)

C. Preparation Log(s)

D. Sample Calculations

Checked by: MMB Date: 06/01/01

2.3.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98240
METHOD: 7470A
MATRIX: Water
UNITS: mg/L
INSTRUMENT: Leeman PS 202

RUN DATE: 05/25/2001
PREP DATE: 05/24/2001
ANALYST: AMT
DUPLICATE: L0105424-02
MS/MSD L0105514-02

			CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.000955	ND	ND	ND	0.001000	0.000939	0.000992	95.5	80.0	120.0	93.9	99.2	75.0	125.0	NA	5.5	20

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES
OHIO VALLEY LABORATORY
QUALITY CONTROL SUMMARY

WORKGROUP: WG98215 **RUN DATE:** 05/25/2001
METHOD: 7471A **PREP DATE:** 05/24/2001
MATRIX: Soil **ANALYST:** AMT
UNITS: mg/kg **DUPLICATE** L0105526-02
INSTRUMENT: Leeman PS 202 **MS/MSD** L0105526-01

			CONCENTRATION PPB								PERCENT RECOVERY							PERCENT RPD		
ANALYTE	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.1000	ND	0.1670	0.1750	ND	ND	ND	0.1670	0.1750	0.1730	104.8	80.0	120.0	104.8	103.6	75.0	125.0	NA	1.1	20.0

NOTES & DEFINITIONS :
RDL = REPORTING DETECTION LIMIT
DL = DILUTED OUT
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE
T- LCS = TRUE VALUE OF LCS
REP1 = UNSPIKED SAMPLE REPLICATE 1
REP2 = UNSPIKED SAMPLE REPLICATE 2
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX
T-MS = TRUE VALUE OF MATRIX SPIKE
MS = MATRIX SPIKE
MSD = MATRIX SPIKE DUPLICATE
LCL = LOWER CONTROL LIMIT
UCL = UPPER CONTROL LIMIT

REP RPD = % RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

2.3.3.2 Raw Data

Metals

Date: 05-25-01
Analyst: AmT
Method: 7471A
Instrument: DS202
Work Group: 98214, 98215

CGas
05551 - 5/25

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	✓
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	✓
Calculations & Correct Factors	✓
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	✓
QA Approval - Seedpak 3	
Check for Completeness	✓
Level IV Data	05438
	05526

05427 > 5/29
(P) 05438
(P) 05526 - 5/30

Primary Reviewer Initials & Date Checked AmT 5/25/01

Secondary Reviewer Initials & Date Checked _____

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

KEMRON ENVIRONMENTAL SERVICES
MERCURY RUN LOGBOOK

ANALYST AmT DATE 05-25-01 TIME 0930
METHOD # 7471A SOP # ME405 REV. # 2 WORK GROUP # 98214 98215
CAL STD SOURCE DSS 0034 - 49 ICV/CCV SOURCE DSS 0034 - 50
POST SPK SOURCE DSS 0034 - 49 (10ppb Std)

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S 0.0		g/ml		27.	05		.76/100	CCV/CCB
	S 0.2				28.	06		.73/100	
	S 1.0				29.	05526-01		.10/100	01
	S 2.0				30.	05526-01MS			05
	S 5.0				31.	01MSD			06
	S 10.0				32.	02			07
	ICV				33.	02 Dup			07
	ICB			PRDL/CCV/CCB	34.	03	0.9		
1.	PBS I			WG98148-03	35.	03 SPK			CCV/CCB
2.	LCSS I		.10/100	04	36.	05427-01	0.5		
3.	05555-01	0.9			37.	01SPK			
4.	01SPK				38.	05427-01	0.2		
5.	02				39.	01 1 ppb			
6.	03			01	40.	01 2 ppb			
7.	04 MS			05	41.	01 3 ppb			CCV/CCB
8.	05 MSD			06	42.				
9.	06				43.				
10.	07			CCV/CCB	44.				
11.	08			02	45.				
12.	Carried over 08 Dup			07	46.				
13.	PRDL 01	0.9		RR	47.				
14.	01SPK				48.				
15.	03	0.9			49.				
16.	03SPK				50.				
17.	PRDL			CCV/CCB	51.				
18.	PBS R			WG98148-03	52.				
19.	LCSS R		.10/100	04	53.				
20.	05427-01	0.9			54.				
21.	01SPK				55.				
22.	05438-01	0.9	.74/100		56.				
23.	01SPK		.74/100		57.				
24.	02		.71/100		58.				
25.	03		.71/100		59.				
26.	04		.75/100		60.				

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence

ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

1344

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 7471 AAB#: WG98215

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 25-May-01 Initial Calibration ID:

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Mercury	0.000	-3770	0.200	13000	1.000	86922	2.000	171259	5.000	431027	10.000	854825	0.99997	

r = correlation coefficient

Comments:

Forms by ChemSW(707)864-0845;v1.0;12/1/97

AFCEE FORM I-3B

1345

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICV Time:	9:40 AM
CCV1 Time:	9:46 AM
CCV2 Time:	10:03 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.05	105.0	1.0	1.05	105.0	.965	96.5	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICV Time:	9:40 AM
CCV1 Time:	10:18 AM
CCV2 Time:	10:32 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.05	105.0	1.0	1.01	101.0	1.05	105.0	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICV Time:	9:40 AM
CCV1 Time:	10:43 AM
CCV2 Time:	11:05 AM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	1.05	105.0	1.0	1.06	106.0	.980	98.0	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICB Time:	9:43 AM
CCB1 Time:	9:47 AM
CCB2 Time:	10:04 AM
CCB3 Time:	10:19 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.011	.063	-.048	-.013

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7471
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICB Time:	9:43 AM
CCB1 Time:	10:33 AM
CCB2 Time:	10:45 AM
CCB3 Time:	11:06 AM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.011	.031	.023	.040

1350

KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PS202
METHOD: 7470
ANALYST: amt
DATE: 5/25/2001

UNITS: ug/L

Spiked Sample Time: 10:42 AM
Sample Time: 10:41 AM

Sample ID: 0552603

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	85-115	1.10		0.052	U	1.0	110.0	

N = % Recovery exceeds control limits of 85-115%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PS202

Date: 8/1/2000

Units: mg/kg

Analyte	Wave-length /Mass	CRQL	MDL
Mercury	253.70	0.1	0.01773

Comments:

```
Hg     .000     ppb       -3770

*** Standard: 2 Rep: 1              Seq:  842     09:31:59 25 May 2001 HG

Hg     .200     ppb       13000

*** Standard: 3 Rep: 1              Seq:  843     09:33:21 25 May 2001 HG

Hg     1.00     ppb       86922

*** Standard: 4 Rep: 1              Seq:  844     09:34:34 25 May 2001 HG

Hg     2.00     ppb       171259

*** Standard: 5 Rep: 1              Seq:  845     09:35:47 25 May 2001 HG

Hg     5.00     ppb       431027

*** Standard: 6 Rep: 1              Seq:  846     09:37:37 25 May 2001 HG

Hg     10.0     ppb       854825
```

Andrea Tucker
DSS 0034-49
Box I + R
WA 98214
98215

```
RunProt: CLP2        Hg analysis in the ppb range
RunFold: 051701   Seq: 847  Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2    09:39:07 25 May 2001 Xmit: Off Gas:      0.70 LPM
State: Idle                                           User: AMT PS202    A/S: On
```

CALIBRATION: Accepted Values protocol: CLP2

	Current	Accepted	Type	A	B	C	r
Hg	Yes	09:39 25-May-01	L		1.16787e-5	-7.10580e-4	.999988

```
Update coefficients
For help on <hotkey> press Shift <hotkey>
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  847     09:40:56 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     1.05    1.00  ppb         .000  %

*** Check Standard: 3  Ck3ICB        Seq:  848     09:43:16 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -5.51    -.011    .200  ppb         .000  %

*** Check Standard: 4  Ck4PRDL       Seq:  849     09:44:49 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          127.     .316    .250  ppb         .000  %

*** Check Standard: 2  Ck2CCV        Seq:  850     09:46:23 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     1.05    1.00  ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  851     09:47:55 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          31.5     .063    .200  ppb         .000  %

*** Sample ID: PBS I                 Seq:  852     09:49:16 25 May 2001 HG
                          WG98145-03
Hg    .045    ppb       .000  %    .045

*** Sample ID: LCSS I                Seq:  853     09:51:31 25 May 2001 HG
                          WG98145-04             Wgt .60000 Vol 100.00
Hg    858.    ppb       .000  %    858.

*** Sample ID: 0555101               Seq:  854     09:52:50 25 May 2001 HG
 UNSPIKED                   0.9                   Wgt .60000 Vol 111.00
Hg    685.    ppb       .000  %    685.

*** Sample ID: 0555101PS             Seq:  855     09:54:21 25 May 2001 HG
 SPIKED                                          Wgt .60000 Vol 100.00
Hg    721.    ppb       .000  %    721.

*** %Rec.  ID: 0555101PS             Seq:  856     09:54:21 25 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  L ppb         61.9     3.70    .000      4.32    .000

*** Sample ID: 0555102               Seq:  857     09:55:28 25 May 2001 HG
                                                Wgt .60000 Vol 100.00
Hg    1260    ppb       .000  %    1260

*** Sample ID: 0555103               Seq:  858     09:56:44 25 May 2001 HG
 UNSPIKED                 WG98145-01             Wgt .60000 Vol 100.00
Hg    727.    ppb       .000  %    727.
```

Retry

PSpk

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** Sample ID: 0555104S                Seq:  859    09:58:13 25 May 2001 HG
 SPIKED                    WG98145-05          Wgt .60000 Vol 100.00
Hg    1550    ppb        .000  %   1550

*** %Rec.  ID: 0555104S                Seq:  860    09:58:13 25 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  H ppb          493.     4.36    .000      9.29    .000

*** DUP  ID: 055510SSD  0555104S      Seq:  861    10:00:10 25 May 2001 HG
      RPD                 Orig.     Dup.
Hg    67.9    %           1550      3140

*** Sample ID: 0555105SD               Seq:  862    10:00:10 25 May 2001 HG
 DUP                       WG98145-06          Wgt .60000 Vol 100.00
Hg    3140    ppb        .000  %   3140

*** Sample ID: 0555106                 Seq:  863    10:01:28 25 May 2001 HG
                                                  Wgt .60000 Vol 100.00
Hg    733.    ppb        .000  %   733.

*** Sample ID: 0555107                 Seq:  864    10:02:36 25 May 2001 HG
                                                  Wgt .60000 Vol 100.00
Hg    500.    ppb        .000  %   500.

*** Check Standard: 2  Ck2CCV          Seq:  865    10:03:44 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.5     .965    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB          Seq:  866    10:04:51 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -24.2    -.048    .200   ppb        .000  %

*** Sample ID: 0555108                 Seq:  867    10:05:58 25 May 2001 HG
                          WG98145-02          Wgt .60000 Vol 100.00
Hg    520.    ppb        .000  %   520.

*** DUP  ID: 0555108DP  0555108        Seq:  868    10:07:25 25 May 2001 HG
      RPD                 Orig.     Dup.
Hg    74.6    %           520.      1140

*** Sample ID: 0555108DP               Seq:  869    10:07:25 25 May 2001 HG
 DUP                       WG98145-07          Wgt .60000 Vol 100.00
Hg    1140    ppb        .000  %   1140

*** Sample ID: 0555101                 Seq:  870    10:09:36 25 May 2001 HG
 UNSPIKED                    0.9               Wgt .60000 Vol 111.00
Hg    618.    ppb        .000  %   618.
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** Sample ID: 0555101PS              Seq:  871    10:10:44 25 May 2001 HG
 SPIKED                                          Wgt .60000 Vol 100.00
Hg    719.    ppb       .000  %   719.

*** %Rec.  ID: 0555101PS              Seq:  872    10:10:44 25 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         97.3     3.34     .000      4.32     .000

*** Sample ID: 0555103               Seq:  873    10:14:04 25 May 2001 HG
 UNSPIKED                  0.9                   Wgt .60000 Vol 111.00
Hg    775.    ppb       .000  %   775.

*** Sample ID: 0555103PS             Seq:  874    10:15:15 25 May 2001 HG
 SPIKED                                          Wgt .60000 Vol 100.00
Hg    850.    ppb       .000  %   850.

*** %Rec.  ID: 0555103PS             Seq:  875    10:15:15 25 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         90.9     4.19     .000      5.10     .000

*** Sample ID: PRDL                  Seq:  876    10:16:33 25 May 2001 HG

Hg    .259    ppb       .000  %   .259

*** Check Standard: 2  Ck2CCV        Seq:  877    10:18:04 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     1.01    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB        Seq:  878    10:19:32 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -6.64    -.013    .200   ppb        .000  %

*** Sample ID: PBS R                 Seq:  879    10:20:41 25 May 2001 HG
                           WG98148-03
Hg   -.000    ppb       .000  %  -.000

*** Sample ID: LCSS R                Seq:  880    10:21:49 25 May 2001 HG
                           WG98148-04            Wgt .60000 Vol 100.00
Hg    175.    ppb       .000  %   175.
```

Hg	485.	ppb	.000	%	485.

D:1

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** Sample ID: 0542701PS              Seq:  882    10:24:30 25 May 2001 HG
 SPIKED                                          Wgt .60000 Vol 100.00
Hg    329.    ppb       .000  %   329.

*** %Rec.  ID: 0542701PS              Seq:  883    10:24:30 25 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  L ppb       -64.2     2.62    .000      1.98    .000

*** Sample ID: 0543801               Seq:  884    10:25:36 25 May 2001 HG
 UNSPIKED                  0.9                   Wgt .74000 Vol 111.00
Hg    25.0    ppb       .000  %   25.0

*** Sample ID: 0543801PS             Seq:  885    10:26:44 25 May 2001 HG
 SPIKED                                          Wgt .74000 Vol 100.00
Hg    140.    ppb       .000  %   140.

*** %Rec.  ID: 0543801PS             Seq:  886    10:26:44 25 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb        87.0     .167    .000      1.04    .000

*** Sample ID: 0543802               Seq:  887    10:27:52 25 May 2001 HG
                                                 Wgt .71000 Vol 100.00
Hg   -.090    ppb       .000  %  -.090

*** Sample ID: 0543803               Seq:  888    10:29:01 25 May 2001 HG
                                                 Wgt .71000 Vol 100.00
Hg   -1.37    ppb       .000  %  -1.37

*** Sample ID: 0543804               Seq:  889    10:30:07 25 May 2001 HG
                                                 Wgt .75000 Vol 100.00
Hg    6.52    ppb       .000  %   6.52

*** Sample ID: 0543805               Seq:  890    10:31:15 25 May 2001 HG
                                                 Wgt .76000 Vol 100.00
Hg    5.04    ppb       .000  %   5.04

*** Check Standard: 2  Ck2CCV        Seq:  891    10:32:26 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     1.05    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB        Seq:  892    10:33:34 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          15.3     .031    .200   ppb        .000  %
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------

*** Sample ID: 0543806                Seq:  893    10:34:42 25 May 2001 HG
                                                  Wgt .73000 Vol 100.00
Hg    21.4    ppb       .000  %   21.4

*** Sample ID: 0552601                Seq:  894    10:35:48 25 May 2001 HG
 UNSPIKED                 WG98148-01              Wgt .60000 Vol 100.00
Hg    6.38    ppb       .000  %   6.38

*** Sample ID: 0553601S               Seq:  895    10:36:56 25 May 2001 HG
 SPIKED                   WG98148-05              Wgt .60000 Vol 100.00
Hg    175.    ppb       .000  %   175.

*** %Rec.  ID: 0553601S               Seq:  896    10:36:56 25 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb        101.     .038    .000      1.05    .000

*** DUP  ID: 0552601SD  0553601S     Seq:  897    10:38:04 25 May 2001 HG
      RPD                Orig.     Dup.
Hg    1.16    %          175.     173.

*** Sample ID: 0552601SD              Seq:  898    10:38:04 25 May 2001 HG
 DUP                      WG98148-06              Wgt .60000 Vol 100.00
Hg    173.    ppb       .000  %   173.

*** Sample ID: 0552602                Seq:  899    10:39:12 25 May 2001 HG
                          WG98148-02              Wgt .60000 Vol 100.00
Hg   -1.19    ppb       .000  %  -1.19

*** DUP  ID: 0552602DP  0552602       Seq:  900    10:40:18 25 May 2001 HG
      RPD                Orig.     Dup.
Hg    297.    %         -1.19      .232

*** Sample ID: 0552602DP              Seq:  901    10:40:18 25 May 2001 HG
 DUP                      WG98148-07              Wgt .60000 Vol 100.00
Hg    .232    ppb       .000  %   .232

*** Sample ID: 0552603                Seq:  902    10:41:25 25 May 2001 HG
 UNSPIKED                   0.9                   Wgt .60000 Vol 111.00
Hg    2.55    ppb       .000  %   2.55

*** Sample ID: 0552603PS              Seq:  903    10:42:37 25 May 2001 HG
 SPIKED                                           Wgt .60000 Vol 100.00
Hg    184.    ppb       .000  %   184.
```

```
Line   Conc.  Units      SD/RSD       1        2        3        4        5
-------------------------------------------------------------------------------

*** %Rec.  ID: 0552603PS              Seq:  904    10:42:37 25 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb         109.      .014    .000      1.10    .000

*** Check Standard: 2  Ck2CCV        Seq:  905    10:43:46 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     1.06    1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  906    10:45:18 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          11.5     .023    .200   ppb         .000  %

*** Sample ID: 0542701               Seq:  907    10:48:11 25 May 2001 HG
 UNSPIKED                    0.5                  Wgt .60000 Vol 200.00
Hg    855.     ppb         .000  %   855.

*** Sample ID: 0542701PS             Seq:  908    10:49:37 25 May 2001 HG
 SPIKED                                           Wgt .60000 Vol 100.00
Hg    462.     ppb         .000  %   462.

*** %Rec.  ID: 0542701PS             Seq:  909    10:49:37 25 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00  L  ppb         20.5     2.57    .000      2.77    .000

*** Sample ID: 0542701               Seq:  910    10:58:59 25 May 2001 HG
                              0.2
Hg    1.41     ppb         .000  %   1.41

*** Sample ID: 01 1 ppb              Seq:  911    11:00:39 25 May 2001 HG
                              0.2
Hg    2.27     ppb         .000  %   2.27

*** Sample ID: 01 2 ppb              Seq:  912    11:02:10 25 May 2001 HG
                              0.2
Hg    3.45     ppb         .000  %   3.45

*** Sample ID: 01 3 ppb              Seq:  913    11:03:19 25 May 2001 HG
                              0.2
Hg    4.57     ppb         .000  %   4.57

*** Check Standard: 2  Ck2ccv        Seq:  914    11:05:21 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.0     .980    1.00   ppb         .000  %
```

MSA 1/5

r=0.998
Y' = -1.244
Hg = 1033

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3ccb Seq: 915 11:06:54 25 May 2001 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		19.8	.040	.200	ppb	.000	%

Metals

Date: 05-25-01
Analyst: QmT
Method: 7470A
Instrument: PS200
Work Group: 98240

	Analyst
Calibration/Linearity	✓
ICV/CCV	✓
ICB/CCB	✓
icsa/icsab/cri	NA
Blank/LCS	✓
MS/MSD	✓
Postspike/Serial Dilution	✓
Duplicate	✓
Record Results	✓
Excel Spreadsheets	✓
Results Reporting / Data Qualifiers	✓
Calculations & Correct Factors	✓
Reanalysis Assign	
Instrument Failure/Reassign	
Case Narrative	
QA Approval - Seedpak 3	
Check for Completeness	✓
Level IV Data	05526
	05525

05424 > 5/29
05425

05525 > 5/30
05526

05516 > 5/31 (P)
05517

55501 - 6/1
05514 - 6/4
05542 - 6/6

Primary Reviewer Initials & Date Checked QmT 5/25/01

Secondary Reviewer Initials & Date Checked _____

_____ • Check for compliance with Method and project-specific requirements
_____ • Check the completeness of the reported information
_____ • Check the information for the report narrative
_____ • Check the reasonableness of results

Supervisory Review Initials & Date Checked _____

Comments: _____

✓ - Checked & OK
NA - Not Applicable
DL - Diluted Out

1363

MERCURY RUN LOGBOOK

ANALYST Omt DATE 05-25-01 TIME 1152
METHOD # 7470A SOP # ME404 REV. # 4 WORK GROUP # 98240
CAL STD SOURCE DSS 0034-47 ICV/CCV SOURCE DSS 0034-48
POST SPK SOURCE DSS 0034-47 (10 ppb std)

Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs	Cup #	Sample No.	Dil	Prep Conc	Autosampler Runs
	S 0.0		ul/ml		27.	055516-01	0.9	1g/50	
	S 0.2				28.	01 SPK			
	S 1.0				29.	01 MS			
	S 2.0				30.	055517-01			CCV/CCB
	S 5.0				31.				
	S 10.0				32.				
	ICV				33.				
	ICB			CCV/CCB	34.				
1.	PBW A3			WG98143-03	35.				
2.	LCSW A3			04	36.				
3.	055514-02			01	37.				
4.	02 MS			05	38.				
5.	02 MSD			06	39.				
6.	055501-01	0.9			40.				
7.	01 SPK				41.				
8.	02				42.				
9.	03				43.				
10.	04			CCV/CCB	44.				
11.	05				45.				
12.	06				46.				
13.	07				47.				
14.	08				48.				
15.	055525-01				49.				
16.	055526-04				50.				
17.	TC F.It Blk 5/23			WG98043@1100	51.				
18.	TC054024-01		5/50		52.				
19.	01 MS				53.				
20.	02			CCV/CCB 02	54.				
21.	02 Dup			07	55.				
22.	03				56.				
23.	04				57.				
24.	054025-01				58.				
25.	054042-01				59.				
26.	01 MS				60.				

Omt 5-25-01

Comments: _____

Note: No entry for Dil represents 1X Dilution

Autosampler Run Key:

CCV - Continuing Calibration Verfication
CCB = Continuing Calibration Blank
% D = Automatic Instrument Rerun due to % RSD > 20%
FRS = Rull Recalibration Sequence

ID = Automatic Instrument Dilution
R = Analyst Rerun
BLK = Blank Rerun

Reviewed By: _____

1364

INORGANIC ANALYSES DATA SHEET
INITIAL MULTIPOINT CALIBRATION

Analytical Method: 7470 AAB#: WG98240

Lab Name: KEMRON ENVIRONMENTAL SERVICES Contract #:

Date of Initial Calibration: 5/25/01 Initial Calibration ID:

Instrument ID: PS202 Concentration Units (mg/L or mg/kg dry weight): ug/L

Analyte	Std 1	RF 1	Std 2	RF 2	Std 3	RF 3	Std 4	RF 4	Std 5	RF 5	Std 6	RF 6	r	Q
Mercury	0.000	2473	0.200	17343	1.000	75015	2.000	151960	5.000	366928	10.00	711900	0.99988	

r = correlation coefficient

Comments:

Forms by ChemSW(707)884-0845;v1.0;12/1/97

AFCEE FORM I-3B

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICV Time:	12:01 PM
CCV1 Time:	12:04 PM
CCV2 Time:	12:20 PM

	Initial Calibration Verification			Continuing Calibration Verification					Q
				CCV1			CCV2		
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.988	98.8	1.0	.996	99.6	.921	92.1	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICES
FORM 2A - INITIAL AND CONTINUING CALIBRATION VERIFICATION

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICV Time:	12:01 PM
CCV1 Time:	12:37 PM
CCV2 Time:	12:51 PM

	Initial Calibration Verification			Continuing Calibration Verification CCV1			CCV2		Q
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	1.0	.988	98.8	1.0	.945	94.5	.989	98.9	

(1) Control Limits: 80-120%

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICB Time:	12:03 PM
CCB1 Time:	12:05 PM
CCB2 Time:	12:22 PM
CCB3 Time:	12:38 PM

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.001	.004	-.065	-.093

KEMRON ENVIRONMENTAL SERVICE
FORM 3 - BLANKS

INSTRUMENT:	PS202
METHOD:	7470
ANALYST:	AMT
DATE:	05/25/2001
UNITS:	ug/L
ICB Time:	12:03 PM
CCB1 Time:	12:53 PM
CCB2 Time:	
CCB3 Time:	

	Initial Calibration Blank(ug/L)	Continuing Calibration Blank (ug/L)		
		CCB1	CCB2	CCB3
Analyte		1	2	3
Mercury	-.001	-.011		

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KEMRON ENVIRONMENTAL SERVICES
FORM 5B - POST DIGEST SPIKE SAMPLE RECOVERY

INSTRUMENT: PS202
METHOD: 7470
ANALYST: amt
DATE: 5/25/2001

UNITS: ug/L

Spiked Sample Time: 12:15 PM
Sample Time: 12:14 PM

Sample ID: 0550101

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	85-115	0.959		0.052	U	1.0	95.9	

N = % Recovery exceeds control limits of 85-115%
U = Result is less than MDL
B = Result is between MDL and RL

KEMRON ENVIRONMENTAL SERVICES
9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Instrument ID: PS202

Date: 8/16/2000

Units: ug/L

Analyte	Wave-length /Mass	CRQL	MDL
Mercury	253.70	0.2	0.05200

Comments:

Forms by ChemSW(707)864-0845;p/n11016;v5.3;5/1/00;s/n 110163351

FORM IX - IN ILM05.0

Hg .000 ppb 2478

*** Standard: 2 Rep: 1 Seq: 941 11:53:52 25 May 2001 HG

Hg .200 ppb 17343

*** Standard: 3 Rep: 1 Seq: 942 11:55:06 25 May 2001 HG

Hg 1.00 ppb 75015

*** Standard: 4 Rep: 1 Seq: 943 11:56:36 25 May 2001 HG

Hg 2.00 ppb 151960

*** Standard: 5 Rep: 1 Seq: 944 11:57:49 25 May 2001 HG

Hg 5.00 ppb 366928

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 6 Rep: 1 Seq: 945 11:59:15 25 May 2001 HG

Hg 10.0 ppb 711900

Andrea Tucker
DSS 0034-47
Box A3
WG 98240

RunProt: CLP2 Hg analysis in the ppb range
RunFold: 051701 Seq: 946 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 12:00:04 25 May 2001 Xmit: Off Gas: 0.70 LPM
State: Idle User: AMT PS202 A/S: On

CALIBRATION: Accepted Values protocol: CLP2

	Current	Accepted	Type	A	B	C	r
Hg	Yes	11:59 25-May-01	L		1.41101e-5	-9.85718e-2	.999871

Update coefficients
Press <Tab> key to clear message at top

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  946     12:01:26 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg          98.8     .988    1.00   ppb         .000  %

*** Check Standard: 3  Ck3ICB        Seq:  947     12:03:02 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg         -.627    -.001    .200   ppb         .000  %

*** Check Standard: 2  Ck2CCV        Seq:  948     12:04:15 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg          99.6     .996    1.00   ppb         .000  %

*** Check Standard: 3  Ck3CCB        Seq:  949     12:05:37 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units       SD/RSD
Hg          2.18     .004    .200   ppb         .000  %

*** Sample ID: PBW A3                Seq:  950     12:06:43 25 May 2001 HG
                              WG98143-03
Hg   -.022    ppb        .000  %  -.022

*** Sample ID: LCSW A3               Seq:  951     12:08:01 25 May 2001 HG
                              WG98143-04
Hg    .955    ppb        .000  %   .955

*** Sample ID: 0551402               Seq:  952     12:10:02 25 May 2001 HG
 UNSPIKED                   WG98143-01
Hg   -.051    ppb        .000  %  -.051

*** Sample ID: 0551402S              Seq:  953     12:11:12 25 May 2001 HG
 SPIKED                     WG98143-05
Hg    .939    ppb        .000  %   .939

*** %Rec.  ID: 0551402S              Seq:  954     12:11:12 25 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb          99.0    -.051    .000      .939    .000

*** DUP  ID: 0551402SD  0551402S     Seq:  955     12:12:37 25 May 2001 HG
      RPD                 Orig.     Dup.
Hg    5.50    %           .939      .992

*** Sample ID: 0551402SD             Seq:  956     12:12:37 25 May 2001 HG
 DUP                        WG98143-06
Hg    .992    ppb        .000  %   .992

*** Sample ID: 0550101               Seq:  957     12:14:06 25 May 2001 HG
 UNSPIKED                   0.9                  Wgt 1.0000 Vol 1.1100
Hg    .043    ppb        .000  %   .043
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Sample ID: 0550101PS              Seq:  958    12:15:12 25 May 2001 HG
 SPIKED
Hg    .959    ppb        .000  %    .959

*** %Rec.  ID: 0550101PS              Seq:  959    12:15:12 25 May 2001 HG
                        Spikes =1  Unspiked =1
      Spike              %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb        92.0      .039    .000      .959    .000

*** Sample ID: 0550102               Seq:  960    12:17:01 25 May 2001 HG

Hg   -.017    ppb        .000  %   -.017

*** Sample ID: 0550103               Seq:  961    12:18:07 25 May 2001 HG

Hg   -.095    ppb        .000  %   -.095

*** Sample ID: 0550104               Seq:  962    12:19:25 25 May 2001 HG

Hg   -.105    ppb        .000  %   -.105

*** Check Standard: 2  Ck2CCV        Seq:  963    12:20:34 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          92.1     .921    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB        Seq:  964    12:22:45 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -32.4    -.065    .200   ppb        .000  %

*** Sample ID: 0550105               Seq:  965    12:23:56 25 May 2001 HG

Hg   -.037    ppb        .000  %   -.037

*** Sample ID: 0550106               Seq:  966    12:25:06 25 May 2001 HG

Hg   -.020    ppb        .000  %   -.020

*** Sample ID: 0550107               Seq:  967    12:26:12 25 May 2001 HG

Hg   -.053    ppb        .000  %   -.053

*** Sample ID: 0550108               Seq:  968    12:27:37 25 May 2001 HG

Hg   -.110    ppb        .000  %   -.110

*** Sample ID: 0552501               Seq:  969    12:28:43 25 May 2001 HG

Hg    .047    ppb        .000  %    .047
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Sample ID: 0552604                  Seq:  970    12:30:38 25 May 2001 HG

Hg   -.092    ppb        .000  %  -.092

*** Sample ID: TCFBLK5/23               Seq:  971    12:31:43 25 May 2001 HG
                          WG98043 @ 1100
Hg   -.115    ppb        .000  %  -.115

*** Sample ID: TC0542401                Seq:  972    12:33:08 25 May 2001 HG
 UNSPIKED                                          Wgt 5.0000 Vol 50.000
Hg   -.594    ppb        .000  %  -.594

*** Sample ID: TC0542401S               Seq:  973    12:34:18 25 May 2001 HG
 SPIKED                                            Wgt 5.0000 Vol 50.000
Hg    9.65    ppb        .000  %   9.65

*** %Rec.  ID: TC0542401S               Seq:  974    12:34:18 25 May 2001 HG
                         Spikes =1  Unspiked =1
      Spike               %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00    ppb         102.     -.059    .000      .965    .000

*** Sample ID: TC0542402                Seq:  975    12:35:26 25 May 2001 HG
                          WG98143-02               Wgt 5.0000 Vol 50.000
Hg   -.560    ppb        .000  %  -.560

*** Check Standard: 2  Ck2CCV           Seq:  976    12:37:14 25 May 2001 HG
Line  Flag  %Rcv.   Found     True  Units      SD/RSD
Hg          94.5     .945    1.00   ppb        .000  %

*** Check Standard: 3  Ck3CCB           Seq:  977    12:38:28 25 May 2001 HG
Line  Flag  %Rcv.   Found     True  Units      SD/RSD
Hg         -46.6    -.093    .200   ppb        .000  %

*** DUP  ID: 0542402DP  Ck3CCB          Seq:  978    12:39:40 25 May 2001 HG
      RPD                  Orig.     Dup.
Hg    70.6    %          -.560    -1.17

*** Sample ID: 0542402DP                Seq:  979    12:39:40 25 May 2001 HG
 DUP                        WG98143-07               Wgt 5.0000 Vol 50.000
Hg   -1.17    ppb        .000  %  -1.17

*** Sample ID: TC0542403                Seq:  980    12:40:56 25 May 2001 HG
                                                    Wgt 5.0000 Vol 50.000
Hg   -.945    ppb        .000  %  -.945

*** Sample ID: TC0542404                Seq:  981    12:42:13 25 May 2001 HG
                                                    Wgt 5.0000 Vol 50.000
Hg   -.707    ppb        .000  %  -.707
```

```
Line   Conc.  Units      SD/RSD       1        2        3        4        5
-------------------------------------------------------------------------------

*** Sample ID: TC0542501                Seq:  982    12:43:23 25 May 2001 HG
                                                    Wgt 5.0000 Vol 50.000

Hg    -.510     ppb         .000  %   -.510
                                amr05-25-01
*** Sample ID: ~~0542401~~ 0554201      Seq:  983    12:44:38 25 May 2001 HG
 UNSPIKED                                           Wgt 5.0000 Vol 50.000
Hg    -.372     ppb         .000  %   -.372

*** Sample ID: 05424015                 Seq:  984    12:45:49 25 May 2001 HG
 SPIKED                                             Wgt 5.0000 Vol 50.000
Hg     9.27     ppb         .000  %    9.27

*** %Rec.  ID: 05424015                 Seq:  985    12:45:49 25 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb          96.4    -.037    .000      .927    .000

*** Sample ID: 0551601                  Seq:  986    12:47:17 25 May 2001 HG
 UNSPIKED                  0.9                      Wgt 1.0000 Vol 55.500
Hg    -1.73     ppb         .000  %   -1.73

*** Sample ID: 0551601PS                Seq:  987    12:48:25 25 May 2001 HG
 SPIKED                                             Wgt 1.0000 Vol 50.000
Hg     48.8     ppb         .000  %    48.8

*** %Rec.  ID: 0551601PS                Seq:  988    12:48:25 25 May 2001 HG
                          Spikes =1  Unspiked =1
      Spike                %Rcv.    Avg(U)   SD(U)    Avg(S)   SD(S)
Hg    1.00     ppb          101.    -.031    .000      .977    .000

*** Sample ID: 05516015                 Seq:  989    12:49:34 25 May 2001 HG
                                                    Wgt 1.0000 Vol 50.000
Hg     36.8     ppb         .000  %    36.8

*** Sample ID: 0551701                  Seq:  990    12:50:40 25 May 2001 HG
                                                    Wgt 1.0000 Vol 50.000
Hg    -6.08     ppb         .000  %   -6.08

*** Check Standard: 2  Ck2CCV           Seq:  991    12:51:58 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           98.9    .989    1.00  ppb         .000  %

*** Check Standard: 3  Ck3CCB           Seq:  992    12:53:07 25 May 2001 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          -5.53   -.011    .200  ppb         .000  %
```

PSpk good

2.3.3.3 Preparation Log (s)

Analyst(s): SJK Box: A3 Digestion Work Group: WG98143

Date: 05-24-01 @ 10:16 Analytical Work Group: WG

LCS: 0.5mL DSS0034-45

MS/MSD: 0.5mL DSS0034-45

Witness:

H_2SO_4 Lot #: S-05

K_2SO_4 Lot #: PS-41

$KMNO_4$ Lot #: PM-555

HNO_3 Lot #: N-17

Earliest Sample Due Date: 05/25/01

ICV / CCV: DSS0034-48 Stds: 0, 0.2, 1, 2, 5, 10: DSS0034-47

ME404 Revision # 4 - Method 7470A-Water [X]

ME405 Revision # ____ - Method 7471A-Soil [ ]

Bath Temperature @ start: 95.1°C @ 12:00

Bath Temperature @ end: 95.0°C @ 14:00

Pressure & Time: N/A

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBLW	50mL	50mL	WG98143-03	
2	LCSW			-04	
3	05-501-01				6/1
4	-02				
5	-03				
6	-04				
7	-05				
8	-06				
9	-07				
10	-08				
11	05-514-02			(NPDES) -01	6/4
12	-02MS			-05	
13	-02MSD			-06	
14	05-525-01			L4	5/30
15	05-526-04			L4	5/30
16	TC FIH BLK 5/23			WG98143@1100	
17	05-424-01	5mL			5/29
18	-01MS				
19	-02			-09	
20	-02DUP			-07	
21	-03				
22	-04				
23	05-425-01				5/29
24	05-542-01				6/6
25	-01MS				
26	W 05-576-01	1g			5/31
27	-01MS				
28	05-517-01				5/31

Comments:

Peer Review By: Vicki Collins 5/24/01 Supervisor Review:

1380

Analyst(s): SIK
Box: R
Digestion Work Group: WG 98148
Date: 05-24-01 @ 11:28
LCS: 1ml DSS0034-45
Analytical Work Group: WG
MS/MSD: 1ml DSS0034-45
Witness: VC
ME404 Revision # ____ - Method 7470A-Water
ME405 Revision # 2 - Method 7471A-Soil X
H_2SO_4 Lot #: S-05
K_2SO_4 Lot #: N/A
$KMNO_4$ Lot #: PM-55
HNO_3 Lot #: N-17
Bath Temperature @ start: N/A
Bath Temperature @ end: N/A
Earliest Sample Due Date: 05/29/01
Pressure & Time: 15 psi-2hr 15 min
ICV / CCV: DSS0034-50 Stds: 0, 0.2, 1, 2, 5, 10: DSS0034-49

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBS		100mL	WG98148-03	
2	LCSS	0.60g		-04	
3	05-427-01	〃			5/29
4	05-438-01	0.74g		L4 ARCCE	5/29
5	-02	0.71g			
6	-03	〃			
7	-04	0.75g			
8	-05	0.76g			
9	-06	0.73g			
10	05-530-01	0.60g		L4 ARCCE -01	5/30
11	-01MS			-05	
12	-01MSD			-06	
13	-02			-02	
14	-02DUP			-07	
15	-03	〃	〃	〃	〃
16					
17					
18					
19					
20					
21					
22			05/24/01 AJK		
23					
24					
25					
26					
27					
28					

Comments: _____

Peer Review By: Nick Collins 5/24/01
Supervisor Review: _____

1381

2.3.3.4 Sample Calculations

Example Cold Vapor Mercury Calculations
Leeman PS202 Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and five standards:

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

Cx = [Cs] [(Vf / Vi)] [D]

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	**0.125**

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

Cx = [Cs] [(Vf / Ws)] [D]

	Example:
Where:	
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted To Volume (mL)	50
Ws = Aliquot weight (g)	0.5
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	**10**

4.0 Adjusting the concentration to dry weight:

Cdry = [(Cx)(100)] / Px

Where:		
Cx = Concentration calculated as received (wet basis):		10
Px = Percent solids of sample (%wt)		80
	C(ug/kg)	**12.5**

12.5 ug/kg = 0.0125 mg/kg

2.4 General Chemistry Data

PERCENT SOLIDS DATA

Login Number: L0105526

✓ **Analysis benchsheet**

✓ **Calculation spreadsheet**

Example calculation:

[(WT3 - WT1)/(WT2 - WT1)] * 100 = % solids

100 - (% solids) = % moisture

where: WT1 = Weight (grams) of empty container
WT2 = Weight (grams) of container and wet sample
WT3 = Weight (grams) of container and dry sample
100 = factor to get units as percent weight

Checked By: dvh Date: 5/30/01

1385

PERCENT SOLIDS

Workgroup: 98126 Approval: dlh 5/25/01
ADT (on): tmm 5/22/01 @1255 ADT (off): tmm 5/25/01 @ 845
tmm 5/24

Sample	Empty Pan WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C
05-503-01-02-03	1.30	30.19	27.31		
04	1.30	28.89	26.50		
05-502-01	1.30	26.29	22.91		
02	1.27	29.26	25.51		
03	1.30	19.85	17.94		
04-05-06	1.27	20.42	16.40		
07	1.28	24.37	19.99		
08	1.27	22.19	18.83		
09	1.27	25.31	20.85		
10	1.30	20.52	15.87		
11	1.27	22.47	17.62		
05-382-01	1.30	31.96	24.73		
02	1.29	23.99	18.35		
03	1.27	21.30	20.13		
04	1.29	28.84	24.62		
05	1.30	24.57	21.19		
06	1.28	25.96	24.16		
05-526-01	1.31	25.84	21.73		
02	1.27	22.80	21.54		
03	1.30	~~tmm 5/24 22.84~~	35.68	28.45	
Duplicate 05-502-10	1.29	21.10	16.78		

Workgroup: 98127 Approval: dlh 5/25/01
ADT (on): ~~tmm 5/24/01 @~~ 1400 ADT (off): tmm 5/25/01 @855

Sample	Empty Pan WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C
05-549-01	1.27	29.86	23.95		
02	1.27	20.46	16.08		
03-04-05	1.27	31.73	25.52		
06	1.32	22.51	18.94		
05-389-01	1.28	21.69	19.95		
07	1.26	24.09	20.96		
03-04-05	1.28	24.82	21.67		
06	1.27	24.34	20.78		
07	1.27	21.61	18.58		
08	1.27	24.05	20.67		
09	1.28	22.79	19.43		
~~10~~	~~1.27~~	~~19.65~~	~~19.21~~		
11	1.27	23.89	20.43		
~~12~~	~~1.30~~	~~34.53~~	~~tmm 5/25 32.~~	30.64	
13	1.30	22.21	20.62		
~~14~~	~~1.30~~	~~24.97~~	~~30.48 tmm~~	16.32	
05-446-01	1.29	27.03	23.95		
02	1.31	31.46	28.24		
03	1.24	31.26	30.60		
Duplicate 05-389-07	1.31	21.47	18.49		

tmm 5/25

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KEMRON Environmental Services

TEST CODE: PCT_S NAME: PERCENT SOLIDS

METHOD: ASTM

UNITS: % ADT: TMM/05/24/01/125

SamN	WT1	WT2	WT3	Level	Results	Units
05503-1-2-3	1.3	30.19	27.13	89.408	89	%
04	1.3	28.89	26.5	91.337	91	%
05-502-01	1.3	26.29	22.91	86.475	86	%
02	1.27	29.26	25.51	86.602	87	%
03	1.3	19.85	17.94	89.704	90	%
04-05-06	1.27	20.42	16.4	79.008	79	%
07	1.28	24.37	19.99	81.031	81	%
08	1.27	22.19	18.83	83.939	84	%
09	1.27	25.31	20.85	81.448	81	%
10	1.3	20.52	15.87	75.806	76	%
11	1.27	22.47	17.62	77.123	77	%
05-382-01	1.3	31.96	24.73	76.419	76	%
02	1.29	23.99	18.35	75.154	75	%
03	1.27	21.3	20.13	94.159	94	%
04	1.29	28.84	24.62	84.682	85	%
05	1.3	24.57	21.19	85.475	85	%
06	1.28	25.96	24.16	92.707	93	%
05-526-01	1.31	25.84	21.73	83.245	83	%
~~021.27~~	1.27	22.8	21.54	94.148	94	%
03	1.3	35.68	28.45	78.97	79	%
DUP-502-10	1.29	21.1	16.78	78.193	78	%

Appendix G

Regulatory Correspondence

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

March 9, 2001

Commanding Officer
Mr. Mark Davidson, Code 1879
SOUTHNAVFACENGCOM
Post Office Box 190010
North Charleston, SC 29419-9010

RE: Waste Characterization for PSC 25, Naval Air Station Cecil Field, Florida

Dear Mr. Davidson:

I have completed the review of the Sampling and Analysis Plans for PSC 25, Naval Air Station Cecil Field. The Sampling and Analysis Plan outlines the methodology behind the collection of waste characterization samples at the site. PSC 25 was divided up into 10 excavation areas according to the contaminants of concern detected in those areas. Waste characterization samples were collected by compositing a minimum of five grab samples per excavation area. The samples were collected from random locations and random depths within each excavation area.

Results from the waste characterization work have been received. Only the composite sample from excavation area PCB 2 had pesticide contaminant concentrations detected above industrial Soil Cleanup Target Levels (SCTLs). Based upon our discussions, soil excavated from that area will be managed as containing listed hazardous waste. Soil from the other excavated areas will be considered non-hazardous waste and will be sent to a lined landfill.

The Department's concurrence with the rationale for determining whether soil to be excavated contains listed hazardous waste is predicated on the information provided by the SOUTHNAVFACENGCOM. The methodology used is appropriate for this site. However, the methodology may not be appropriate for every site or every situation.

If you have any concerns regarding this letter, please contact me at (850) 488-3693.

Sincerely,

David P. Grabka
Remedial Project Manager

CC: Satish Kastury, FDEPA
Debbie Vaughn-Wright, USEP, Atlanta
John Flowe, City of Jacksonville
Scott Glass, SOUTHNAVFACENGCOM
Mark Speranza, TtNUS, Pittsburgh
Ashwin Patel, FDEP, Northeast District
Sam Ross, CH2M Hill Constructors - Atlanta

TJB TB JJC JJC ESN ESN

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

April 23, 2001

4WD-FFB

OPTIONAL FORM 99 (7-90)
FAX TRANSMITTAL
# of pages ▶ 6
To: Sam Ross
Dept./Agency:
Fax #: (904) 777-4262
From: Deborah V-W
Phone #: (404) 562-8539
Fax #:
NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John Simmons
General Manager
Wayne Regional Landfill
P.O. Box 1272
Jesup, Georgia 31545

Subject: Waste Characterization for Operable Unit 10 (Site 21 and 25), Naval Air Station Cecil Field, Jacksonville, Florida

Dear Mr. Simmons:

The U.S. Environmental Protection Agency, Region 4 has reviewed the determination made by the State of Florida (attached letters dated 9 March 2001). With respect to Site 21, I concur with the findings that soil excavated from area 11 should be managed as containing listed hazardous waste, but soils from other areas from the site may be considered as non-hazardous. I also concur with the State of Florida's decision that soil excavated from PCB area 2 located at Site 25 should also be managed as containing listed hazardous waste, with soils from the remaining areas of the site handled as non-hazardous waste. Remedial actions conducted at NAS Cecil Field are managed under the CERCLA Program, and per 40 CFR §300.440, these wastes are to be handled under the 'off-site rule'.

If you have any questions please contact me at 404/562-8539 or at vaughn-wright.debbie@epa.gov.

Sincerely,

Deborah A. Vaughn-Wright

Deborah A. Vaughn-Wright
Remedial Project Manager

enclosure

cc: Sam Ross, J.A. Jones

David Grabka, FL DEP
Mark Davidson, Navy
Scott Glass, Navy
Mark Speranza, TTNUS

Appendix H

Clean Fill Material Analytical Report

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

FAXED 11:30-8-2-00

Laboratory Report

Report Number: **124935**

Project: Coxwell Pit

Prepared For:

Tim-Prep Inc.
540 West Mill Street
Baldwin, FL 32234

Attention: Mr. Michael Stokes

August 8, 2000

P.O. No. 7353

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Shari Harper
Project Manager

Kathryn Smith
Quality Assurance

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ASI ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Tim-Prep Inc.
540 West Mill Street
Baldwin, FL 32234

Attention: Mr. Michael Stokes
Report No. **124935**

P.O. No. 7353
August 8, 2000

Sample Description

Tim-Prep Inc.

Soil, grab. Coxwell Pit, North\South\East\West Areas. 07/20/2000. received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
EPA 9045	pH (laboratory)	5.34E	-	
	Target Analyte List - Metals			
	Metals			
EPA 6010	Total Aluminum (Al)	2900	10	mg/kg
EPA 6010	Total Antimony (Sb)	BDL	5.0	mg/kg
EPA 7060	Total Arsenic (As)	BDL	3.0	mg/kg
EPA 6010	Total Barium (Ba)	BDL	1.0	mg/kg
EPA 6010	Total Beryllium (Be)	BDL	1.0	mg/kg
EPA 6010	Total Cadmium (Cd)	BDL	1.0	mg/kg
EPA 6010	Total Calcium (Ca)	300	5.0	mg/kg
EPA 6010	Total Chromium (Cr)	3.1	1.0	mg/kg
EPA 6010	Total Cobalt (Co)	BDL	4.0	mg/kg
EPA 6010	Total Copper (Cu)	3.1	2.0	mg/kg
EPA 6010	Total Iron (Fe)	78	10	mg/kg
EPA 6010	Total Lead (Pb)	BDL	5.0	mg/kg
EPA 6010	Total Magnesium (Mg)	14	5.0	mg/kg
EPA 6010	Total Manganese (Mn)	BDL	4.0	mg/kg
EPA 7471	Total Mercury (Hg)	BDL	0.25	mg/kg
EPA 6010	Total Nickel (Ni)	BDL	2.0	mg/kg
EPA 6010	Total Potassium (K)	24	20	mg/kg
EPA 7740	Total Selenium (Se)	BDL	4.0	mg/kg
EPA 6010	Total Silver (Ag)	BDL	1.0	mg/kg
EPA 6010	Total Sodium (Na)	280	5.0	mg/kg
EPA 7841	Total Thallium (Tl)	BDL	5.0	mg/kg

BDL - Below Detection Limit
E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab, Coxwell Pit, North\South\East\West Areas, 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 6010	Total Vanadium (V)	BDL	2.0	mg/kg
EPA 6010	Total Zinc (Zn)	12	2.0	mg/kg
	Target Compound List			
	Volatile Organics			
EPA 8260B	Acetone	BDL	10	ug/kg
EPA 8260B	Benzene	BDL	10	ug/kg
EPA 8260B	Bromodichloromethane	BDL	10	ug/kg
EPA 8260B	Bromoform	BDL	10	ug/kg
EPA 8260B	Bromomethane	BDL	10	ug/kg
EPA 8260B	2-Butanone	BDL	10	ug/kg
EPA 8260B	Carbon disulfide	BDL	10	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	10	ug/kg
EPA 8260B	Chlorobenzene	BDL	10	ug/kg
EPA 8260B	Chloroethane	BDL	10	ug/kg
EPA 8260B	Chloroform	BDL	10	ug/kg
EPA 8260B	Chloromethane	BDL	10	ug/kg
EPA 8260B	Dibromochloromethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	10	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	10	ug/kg
EPA 8260B	1,2-Dichloroethene (total)	BDL	10	ug/kg
EPA 8260B	1,2-Dichloropropane	BDL	10	ug/kg
EPA 8260B	cis-1,3-Dichloropropene	BDL	10	ug/kg
EPA 8260B	trans-1,3-Dichloropropene	BDL	10	ug/kg
EPA 8260B	Ethylbenzene	BDL	10	ug/kg
EPA 8260B	2-Hexanone	BDL	10	ug/kg
EPA 8260B	4-Methyl-2-pentanone	BDL	10	ug/kg
EPA 8260B	Methylene chloride	BDL	10	ug/kg
EPA 8260B	Styrene	BDL	10	ug/kg
EPA 8260B	1,1,2,2-Tetrachloroethane	BDL	10	ug/kg
EPA 8260B	Tetrachloroethene	BDL	10	ug/kg
EPA 8260B	Toluene	BDL	10	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	10	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	10	ug/kg
EPA 8260B	Trichloroethene	BDL	10	ug/kg
EPA 8260B	Vinyl chloride	BDL	10	ug/kg
EPA 8260B	Xylenes	BDL	10	ug/kg
	Pesticides			

BDL - Below Detection Limit
E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab, Coxwell Pit, North\South\East\West Areas, 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8081A	Aldrin	BDL	3.3	ug/kg
EPA 8081A	BHC-alpha	BDL	3.3	ug/kg
EPA 8081A	BHC-beta	BDL	3.3	ug/kg
EPA 8081A	BHC-delta	BDL	3.3	ug/kg
EPA 8081A	BHC-gamma (Lindane)	BDL	3.3	ug/kg
EPA 8081A	Chlordane-alpha	BDL	3.3	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.3	ug/kg
EPA 8081A	Dieldrin	BDL	3.3	ug/kg
EPA 8081A	Endosulfan I	BDL	3.3	ug/kg
EPA 8081A	Endosulfan II	BDL	3.3	ug/kg
EPA 8081A	Endosulfan sulfate	BDL	3.3	ug/kg
EPA 8081A	Endrin	BDL	3.3	ug/kg
EPA 8081A	Endrin aldehyde	BDL	3.3	ug/kg
EPA 8081A	Endrin ketone	BDL	3.3	ug/kg
EPA 8081A	Heptachlor	BDL	3.3	ug/kg
EPA 8081A	Heptachlor epoxide	BDL	3.3	ug/kg
EPA 8081A	Methoxychlor	BDL	9.9	ug/kg
EPA 8081A	Toxaphene	BDL	66	ug/kg
	PCB's			
EPA 8082	PCB 1016	BDL	33	ug/kg
EPA 8082	PCB 1221	BDL	33	ug/kg
EPA 8082	PCB 1232	BDL	33	ug/kg
EPA 8082	PCB 1242	BDL	33	ug/kg
EPA 8082	PCB 1248	BDL	33	ug/kg
EPA 8082	PCB 1254	BDL	33	ug/kg
EPA 8082	PCB 1260	BDL	33	ug/kg
	Chlorinated Herbicides			
EPA 8151A	2,4-D	BDL	170	ug/kg
EPA 8151A	2,4-DB	BDL	30	ug/kg
EPA 8151A	2,4,5-T	BDL	4.0	ug/kg
EPA 8151A	2,4,5-TP (Silvex)	BDL	330	ug/kg
EPA 8151A	Dalapon	BDL	150	ug/kg
EPA 8151A	Dicamba	BDL	26	ug/kg
EPA 8151A	Dichloroprop	BDL	35	ug/kg
EPA 8151A	Dinoseb	BDL	130	ug/kg

BDL - Below Detection Limit
E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab. Coxwell Pit. North\South\East\West Areas. 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8151A	MCPA	BDL	5000	ug/kg
EPA 8151A	MCPP	BDL	3800	ug/kg

BDL - Below Detection Limit
E - Estimated concentration

V 53

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: Tim-Prem Inc.

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
540 W 11 St. 904-266-4784
Baldwin FL. 904 266 4836
32234

ATTENTION: Mike Stokes
CC:
REQUESTED COMPLETION DATE: ASAP
PO #: 7353
PROJECT NAME/STATE: Coxwell P.T
PROJECT #:

DATE	TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# OF CONTAINERS	ANALYSIS REQUESTED	LAB ID NUMBER
7-20-00		S		✓	North Area	1		
7-20-00		S		✓	South Area	1		
7-20-00		S		✓	East Area	1		
7-20-00		S		✓	West Area	1		

FOR LAB USE ONLY
LAB #: 124935
QUOTE #:

*MATRIX CODES:

DW -	DRINKING WATER	S -	SOIL
WW -	WASTEWATER	SL -	SLUDGE
GW -	GROUNDWATER	SD -	SOLID
SW -	SURFACE WATER	A -	AIR
ST -	STORM WATER	O -	OIL
L -	LIQUID	P -	PRODUCT

REMARKS/ADDITIONAL INFORMATION
Composited (2)
ASI by [illegible]

SAMPLED BY AND TITLE: SOIL BIBLIN	DATE/TIME: 7/20 2:15 PM	RELINQUISHED BY:	DATE/TIME:	COC/CUSTODY SEAL: ✓
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	ICE: NO
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	pH: N/A
RECEIVED BY LAB:	DATE/TIME: 7/21 9:15	SAMPLE SHIPPED VIA: UPS FED-EX COURIER CLIENT OTHER:		TEMPERATURE:
ENTERED INTO LIMS:	COC REVIEWED:	AIR BILL #: [illegible]	COOLER #:	SAMPLE CONDITION:

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
Fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : TASK Environmental
ADDRESS: 501 South Blvd.
Tampa, FL 33606

REPORT # : JAX14577
DATE SUBMITTED: December 4, 2000
DATE REPORTED : December 7, 2000

ATTENTION: Mr. Chris Cherniak

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 149152

NTFF Removal

12/04/00

#1 - CFNT-WC-CLEANFILL @ 10:00

PROJECT MANAGER Scott D. Martin

RESULTS OF ANALYSIS

EPA METHOD 8270 - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
Acenaphthene	360 U	330 U	µg/Kg
Acenaphthylene	360 U	330 U	µg/Kg
Anthracene	360 U	330 U	µg/Kg
Benzo(a)anthracene	360 U	330 U	µg/Kg
Benzo(b)fluoranthene	360 U	330 U	µg/Kg
Benzo(k)fluoranthene	360 U	330 U	µg/Kg
Benzo(g,h,i)perylene	360 U	330 U	µg/Kg
Benzo(a)pyrene	360 U	330 U	µg/Kg
Benzylbutyl phthalate	360 U	330 U	µg/Kg
Bis(2-chloroethoxy)methane	360 U	330 U	µg/Kg
Bis(2-chloroethyl)ether	360 U	330 U	µg/Kg
Bis(2-chloroisopropyl)ether	360 U	330 U	µg/Kg
Bis(2-ethylhexyl)phthalate	360 U	330 U	µg/Kg
4-Bromophenylphenyl ether	360 U	330 U	µg/Kg
2-Chloronaphthalene	360 U	330 U	µg/Kg
Carbazole	360 U	330 U	µg/Kg
4-Chlorophenyl phenyl ether	360 U	330 U	µg/Kg
Chrysene	360 U	330 U	µg/Kg
Dibenzo(a,h)anthracene	360 U	330 U	µg/Kg
1,2-Dichlorobenzene	360 U	330 U	µg/Kg
1,3-Dichlorobenzene	360 U	330 U	µg/Kg
1,4-Dichlorobenzene	360 U	330 U	µg/Kg
3,3'-Dichlorobenzidine	710 U	660 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
Diethyl phthalate	360 U	330 U	µg/Kg
Dimethyl phthalate	360 U	330 U	µg/Kg
Di-n-butyl phthalate	360 U	330 U	µg/Kg
Di-n-octyl phthalate	360 U	330 U	µg/Kg
2,4-Dinitrotoluene	360 U	330 U	µg/Kg
2,6-Dinitrotoluene	360 U	330 U	µg/Kg
Fluoranthene	360 U	330 U	µg/Kg
Fluorene	360 U	330 U	µg/Kg
Hexachlorobenzene	360 U	330 U	µg/Kg
Hexachlorobutadiene	360 U	330 U	µg/Kg
Hexachlorocyclopentadiene	360 U	330 U	µg/Kg
Hexachloroethane	360 U	330 U	µg/Kg
Indeno(1,2,3-cd)pyrene	360 U	330 U	µg/Kg
Isophorone	360 U	330 U	µg/Kg
2-Methylnaphthalene	360 U	330 U	µg/Kg
Naphthalene	360 U	330 U	µg/Kg
Nitrobenzene	360 U	330 U	µg/Kg
N-Nitrosodi-n-propylamine	360 U	330 U	µg/Kg
N-Nitrosodiphenylamine	360 U	330 U	µg/Kg
Phenanthrene	360 U	330 U	µg/Kg
Pyrene	360 U	330 U	µg/Kg
1,2,4-Trichlorobenzene	360 U	330 U	µg/Kg
4-Chloroaniline	360 U	330 U	µg/Kg
2-Nitroaniline	360 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
3-Nitroaniline	360 U	330 U	µg/Kg
4-Nitroaniline	360 U	330 U	µg/Kg
Dibenzofuran	360 U	330 U	µg/Kg
4-Chloro-3-methylphenol	360 U	330 U	µg/Kg
2-Chlorophenol	360 U	330 U	µg/Kg
2,4-Dichlorophenol	360 U	330 U	µg/Kg
2,4-Dimethylphenol	360 U	330 U	µg/Kg
2,4-Dinitrophenol	1800 U	1600 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1100 U	990 U	µg/Kg
2-Nitrophenol	360 U	330 U	µg/Kg
4-Nitrophenol	360 U	330 U	µg/Kg
Pentachlorophenol	360 U	330 U	µg/Kg
Phenol	360 U	330 U	µg/Kg
2,4,6-Trichlorophenol	360 U	330 U	µg/Kg
2-Methylphenol	360 U	330 U	µg/Kg
3 & 4-Methylphenol	360 U	330 U	µg/Kg
2,4,5-Trichlorophenol	360 U	330 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	46	41	30-106
2-Fluorobiphenyl	61	57	38-107
Terphenyl -D14	75	72	29-131
Phenol -D5	40	42	12-87
2-Fluorophenol	38	42	19-115
2,4,6-Tribromophenol	43	39	35-126
Date Prepared	12/06/00	12/06/00	
Date Analyzed	12/06/00	12/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX14577
DATE REPORTED: December 7, 2000
REFERENCE : 149152
PROJECT NAME : NTFF Removal

RESULTS OF ANALYSIS

MISCELLANEOUS	METHOD	CFNT-WC-CLEANFILL	LAB BLANK	Units
Percent Solids	SM2540G	93	NA	%
Date Analyzed		12/06/00		

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CFNT-WC-CLEANFILL	LAB BLANK	Units
Hydrocarbons (C8-C40)	7.1 U	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	86	109	51-148
Date Prepared	12/05/00	12/05/00	
Date Analyzed	12/06/00	12/06/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	45/ 44/ 42	30-135	2	38
2-Chlorophenol	56/ 56/ 50	46-133	<1	38
1,4-Dichlorobenzene	57/ 54/ 49	31-123	5	33
N-Nitrosodi-N-Propylamine	44/ 43/ 41	26-112	2	29
1,2,4-Trichlorobenzene	65/ 60/ 46	37-131	8	20
4-Chloro-3-methylphenol	64/ 58/ 45	46-133	10	38
Acenaphthene	68/ 63/ 53	39-135	8	29
4-Nitrophenol	67/ 65/ 57	10-97	3	68
2,4-Dinitrotoluene	75/ 74/ 57	39-137	1	32
Pentachlorophenol	60/ 60/ 39	10-133	<1	41
Pyrene	79/ 76/ 53	39-160	4	37
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	76/ 89/ 83	62-204	16	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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5 Perimeter Center Place, Suite 700
anta, GA 30346-1278
' No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

149152-91 page 1 of 1

OJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
A.S. Cecil Field FF Removal	149152	ENCO Laboratories, Inc. Wendy Wolfe	Chris Cherniak, TASK Environmental	P.O. Box 150866, Jacksonville, FL 32215 Phone 777-5580 Local Fax # 777-8188
OJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
ffsite Clean Fill	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
OJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (813) 247-2905 FAX (813)-248-1537	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
hris Cherniak	phone (904) 777-5580	(904) 296-3007		

TEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers)										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
								TCL 8270, Semi-volatiles	TRPH by FL PRO											
1	CFNT-WC-Cleanfill	Tim Prep Source Pit	S	12/04/00	10:00	III/A	3 day	X	X									composite	OVA < 10 ppm	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

MPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
hris Cherniak, TASK Environmental	Transported to ENCO Labs by TASK Environmental	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
nted Name and Signature: hris Cherniak, TASK Environmental	12/4/00	15:35	Printed Name and Signature:		
nted Name and Signature: L. Canelos	12/4/00	15:35	Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
005-BF01-S-0221-01

Lab Name: COLUMBIA ANALYTICAL SERVI Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: J2100508-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0221-24

Level: (low/med) LOW Date Received: 02/21/01

% Moisture: 0 decanted: (Y/N) N Date Extracted: 02/21/00

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/21/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	3.6	U
208-96-8	Acenaphthylene	3.6	U
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
85-01-8	Phenanthrene	3.6	U
120-12-7	Anthracene	3.6	U
206-44-0	Fluoranthene	3.6	U
129-00-0	Pyrene	3.6	U
56-55-3	Benz(a)anthracene	3.6	U
218-01-9	Chrysene	3.6	U
205-99-2	Benzo(b)fluoranthene	3.6	U
207-08-9	Benzo(k)fluoranthene	3.6	U
50-32-8	Benzo(a)pyrene	3.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.6	U
53-70-3	Dibenz(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	3.6	U
90-12-0	1-Methylnaphthalene	3.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
005-DUP01
-S-0221-01

Lab Name: COLUMBIA ANALYTICAL SERVI Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: J2100508-002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0221-25

Level: (low/med) LOW Date Received: 02/21/01

% Moisture: 0 decanted: (Y/N) N Date Extracted: 02/21/00

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/22/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	3.6	U
208-96-8	Acenaphthylene	3.6	U
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
85-01-8	Phenanthrene	3.6	U
120-12-7	Anthracene	3.6	U
206-44-0	Fluoranthene	3.6	U
129-00-0	Pyrene	3.6	U
56-55-3	Benz(a)anthracene	3.6	U
218-01-9	Chrysene	3.6	U
205-99-2	Benzo(b)fluoranthene	3.6	U
207-08-9	Benzo(k)fluoranthene	3.6	U
50-32-8	Benzo(a)pyrene	3.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.6	U
53-70-3	Dibenz(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	3.6	U
90-12-0	1-Methylnaphthalene	3.6	U

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 148799-16

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	148799	Columbia Analytical Labs, Inc. Tom Kissinger	Jennifer Zimmerman, CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904 777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Offiste Backfill Analysis	CTO 005	2612	Jeff Wilmoth, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (904) 739-2277 FAX (904)-739-2011	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Bill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers): 8270-SIMs SemiVols									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	005-BF01-S-0221-01	Coxwell's Crystal Springs Pit	soil	02/21/01	11:00	III/C	3 Day	x									grab	DL spec provided by J Wilmoth	
2	005-DUP01-S-0221-01	Coxwell's Crystal Springs Pit	soil	02/21/01	11:00	III/C	3 Day	x									grab	DL spec provided by J Wilmoth	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY: (please print): Bill Canelos, CCI/JAJES

COURIER AND SHIPPING NUMBER: sampler transport samples to Columbia Analytical Labs

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Bill Canelos, CCI/JAJES W/ Canelos	2/21/01	12:10	Printed Name and Signature: M J Rosam	2/21/01	1210
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00